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# **Oracle Cloud Infrastructure Ansible Modules Documentation**

**Oracle**

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## OCI Ansible Modules Overview

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Oracle Cloud Infrastructure Ansible Modules provide an easy way to create and provision resources in Oracle Cloud Infrastructure (OCI) through Ansible. These modules allow you to author Ansible playbooks that help you automate the provisioning and configuring of Oracle Cloud Infrastructure services and resources, such as Compute, Load Balancing, Database, and other Oracle Cloud Infrastructure services.

Project URL: <https://github.com/oracle/oci-ansible-modules>



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## Oracle Cloud Infrastructure Ansible Modules - Features, Architecture, Technical Details

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### 1.1 1. Introduction

Configuration Management (CM) and Infrastructure Automation tools, such as [Ansible](#), are widely used by DevOps professionals and system administrators to achieve “Infrastructure as Code”. These tools help system administrators

- declare the “desired state” of their infrastructure (and optionally “actions” to reach the desired state), and have these CM tools provision the infrastructure, and configure, maintain or repair if it diverges from that “desired state”.
- reduce risk by ensuring repeatable infrastructure provisioning and configuration
- help achieve speed/agility by automating common deployment/configuration tasks
- provide visibility and audit-ability of configuration management operations

This project aims to help OCI (Oracle Cloud Infrastructure) users provision, configure and manage OCI infrastructure using Ansible.

### 1.2 2. Overview of Ansible

Ansible is one of the leading open source tools for automation of infrastructure provisioning, configuration management and application deployment. Ansible’s simple DSL (YAML) for declaring configuration and infrastructure tasks is easy to get started and expressive. Its agent-less architecture reduces the overhead on the network by preventing the nodes from polling the controlling machine.

Ansible also has an “batteries-included” approach, and bundles a lot of Modules with it (this group of modules is informally called as the `Ansible Module Index`). Most of the built-in modules are contributed by the Ansible Community.

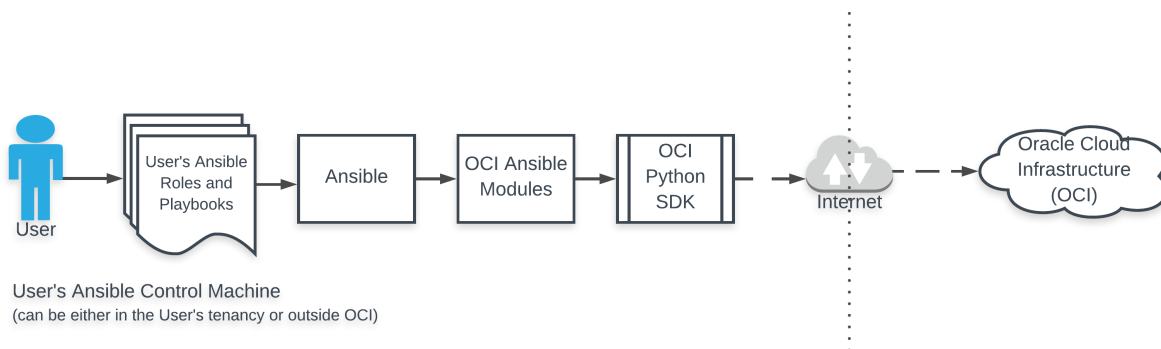
## 1.3 3. Objectives

- Feature-rich implementation that DevOps professionals and system administrators can use to provision and configure OCI Services and resources
- Wide support of OCI services - ensure that the most common OCI Services (Compute, Storage, Network, Load Balancer, Database Service) are handled. Subsequent releases would incrementally add support for features and new Services
- Leverage the [Oracle Python SDK](#) for all [OCI API](#) interactions
- Follow Ansible guidelines and best practices around module development - integration tests, documentation alignment etc

## 1.4 4. Design Goals

- Layered on top of the OCI Python SDK. The OCI Ansible cloud modules would use the OCI Python SDK to interact with the [OCI API](#). The OCI Ansible modules supports and honour the SDK configuration [4] when available. This ensures that the standard SDK configuration that is already configured by a user is used by OCI ansible modules.
- Provide a uniform interface to users for functions that are common across various OCI resources - tagging resources, waiter logic to wait for resources to reach the desired state, authentication overrides, controlling idempotency

## 1.5 5. Overview



## 1.6 6. Implementation Details

### 1.6.1 6.1 Supported Services

In the first version of the OCI Ansible modules, the following Services are supported:

- Compute
- Block Storage



- Object Storage
- Networking
- Load Balancer
- Database Service
- Identity and Access Management

Support for the following Services are not yet implemented. They would be implemented in future releases.

- Email Delivery
- File Storage
- Audit
- DNS
- Networking B&C scenarios
- Container Engine for Kubernetes
- Archive Storage
- Registry

## 1.6.2 6.2 Prerequisites

Apart from Ansible, the OCI Ansible modules only require a properly configured installation of the [OCI Python SDK](#) to function.

## 1.6.3 6.3 Installation

We recommend (though, not require) installation of these modules and its pre-requisites in a virtual-env. The ansible modules can be installed through an installer script (the installer script ensures that the various artifacts associated with the modules (such as documentation fragments, utility libraries and the modules) are placed in the right places for the Ansible implementation to pick up).

## 1.6.4 6.4 Dynamic Inventory

Ansible can be configured to work with hosts provisioned in OCI using a static `inventory` file. However this approach may not work well, as OCI compute instances may come and go over time, or be created or managed by other external tools (API, console, SDK, Terraform etc). Ansible supports the `inventory` to be specified dynamically through a `dynamic inventory script`. We provide an [Oracle Cloud Infrastructure\(OCI\) Ansible Dynamic Inventory Script](#) in this project that users can use to ensure that the latest set of OCI compute instances are dynamically fetched and available for their playbooks to be executed upon. The dynamic inventory has a rich set of options for a user to control how information about targets are fetched, and group the fetched information along different dimensions, so that they can be used appropriately in playbooks.

## 1.6.5 6.5 Authentication

The OCI Ansible modules supports and honour the [OCI SDK configuration](#) when provided by the user. We recommend that users employ the standard OCI SDK configuration (and its profiles support) to control the authentication information to be used for executing a Play in production.

So if a user has a SDK configuration file (`~/.oci/config`) as described in the [OCI SDK configuration documentation](#) with their correct Tenancy and User OCIDs and API keys, when an ansible playbook that refers to OCI ansible modules is executed, the OCI ansible modules would use the authentication information configured in the SDK configuration file to authenticate the connection, and perform the action on an OCI resource.

In development and testing scenarios, if an administrator wants to override the authentication information for an individual playbook, or a play, or an ad-hoc execution, the authentication information can be overridden through the following means:

- **Ansible module options:** For instance to override the Region to connect to in a single play within a playbook, the user can specify an OCI ansible module option named “region”, and the ansible module would use the value specified by “region” over the value specified in `~/.oci/config` to configure the SDK to connect to OCI.
- **Environment variables:** For instance to override the Region to connect to, the user can specify an environment variable named “OCI\_REGION”, and the ansible module would use the value specified by “OCI\_REGION” to configure the SDK to connect to OCI.

All authentication attributes that can be specified through the SDK configuration file, can be overridden using a corresponding Ansible module or an environment variable. We don’t recommend the use of Environment variables (for security reasons) and ansible module options (for security reasons and because this would make the playbook tied to a specified tenancy/user) in production.

### 6.6 Security and IAM Guidelines

The OCI Ansible Modules uses the authentication information specified in the standard [OCI SDK configuration file](#) while creating and configuring OCI resources.

**Caution:** IAM credentials referenced in the OCI SDK configuration file, grants access to resources. It is important to secure these credentials to prevent unauthorized access to Oracle Cloud Infrastructure resources. Recommendations to secure the IAM credentials in the controller node where you run ansible playbooks that uses these modules, are described in the “Credentials Management” section of the [OCI IAM whitepaper](#) at the [OCI IAM documentation](#).

The OCI Ansible Modules allows the authentication information specified in the OCI SDK configuration file to be overridden using module options and environment variables as described in Section 6.5. Please refer to the ansible module documentation of the OCI Ansible Modules for more details. We recommend the use of OCI SDK configuration file to specify authentication information. Use the “profiles” feature in the OCI SDK configuration file to support different users. The use of environment variables and ansible module options to override Authentication information must be avoided in production scenarios. While distributing roles that use the OCI Ansible Modules, ensure that no IAM credentials are included with the roles.

#### 1.6.6 6.6 Logging/Telemetry

Logging of requests to OCI can be enabled by setting log levels in the OCI Python SDK and the OCI Ansible Modules:

- Set the `log_requests` variable in your `~/.oci/config` to `True` to enable Request logging in the OCI python SDK as described in <https://github.com/oracle/oci-python-sdk/blob/master/docs/logging.rst>
- Export an environment variable to enable DEBUG mode for our Ansible modules

```
$ export LOG_LEVEL="DEBUG"
```

All subsequent debug messages from an ansible playbook execution using the OCI Ansible Modules `$ ansible-playbook ...` would go to `/tmp/oci_ansible_module.log` (the default logging location for our modules).

### 1.6.7 6.7 Retries/Backoff

OCI Ansible modules uses OCI Python SDK's waiter support for jittered backoff to retry API operations that failed with connection timeouts or retryable Service errors. The modules uses the OCI Python SDK's support for checking connection timeouts and retryable Service errors.

For all resource actions that support intermediate states before reaching the desired lifecycle state, the OCI ansible modules (by default) automatically wait until the Resource reaches the desired state before completing a play. The user can override this behaviour and choose not to wait until the desired lifecycle state is reached.

### 1.6.8 6.8 Idempotency

Ansible recommends that all the modules be idempotent, so that repeated playbook executions by users result in reaching the desired state quickly and reliably. Unless documented explicitly in the module's `ansible-doc`, all resource lifecycle operations initiated through OCI Ansible Modules are idempotent. To forcefully perform a non-idempotent creation of a resource, use the `force_create` option.

## 1.7 7. Samples

A set of samples are included along with the modules to demonstrate the usage of the OCI ansible modules. These samples cover the breadth of OCI Services that the modules support. The latest list of Samples are available in the [Samples](#) directory.



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# Oracle Cloud Infrastructure(OCI) Ansible Dynamic Inventory Script

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If you use Ansible to work with hosts provisioned in OCI, using a [static inventory file](#) may not work well, as OCI compute instances may get provisioned and terminated over time, or be created or managed by other external tools (API, console, SDK, Terraform etc). Using the OCI [dynamic inventory script](#) will help ensure that the latest set of OCI compute instances are dynamically fetched and available for your playbooks to be executed upon.

To use the OCI dynamic inventory script, grab the script and the default configuration files from

- [inventory-script/oci\\_inventory.py](#)
- [inventory-script/oci\\_inventory.ini](#) to a local directory.

## 2.1 Dynamic Inventory Script

### 2.1.1 Prerequisites

Note: Before using the script, please ensure that you have a valid OCI SDK configuration. Refer [OCI SDK Configuration documentation](#) for details on how to configure `~/.oci/config`.

### 2.1.2 Script and Configuration Details

The `oci_inventory.py` script uses the OCI Python SDK to query OCI compute instances in your tenancy, and builds a dynamic inventory that can then be used in your Ansible playbooks. Arguments to the `oci_inventory.py` can help you control the configuration profile to use, the compartment to limit your search to, etc.

The `oci_inventory.ini` configuration file can be optionally used to configure the OCI configuration profile to use, control how the inventory details are cached, and how hosts are named in your inventory.

The `oci_inventory.py` script accepts the following command line arguments:

```
usage: oci_inventory.py [-h] [--list] [--host HOST] [-config CONFIG_FILE]
                        [--profile PROFILE] [--compartment COMPARTMENT]
                        [--refresh-cache] [--debug]

optional arguments:
  -h, --help                show this help message and exit
  --list                    List instances (default: True)
  --host HOST                Get all information about a compute instance
  -config CONFIG_FILE, --config-file CONFIG_FILE
                            OCI config file location
  --profile PROFILE          OCI config profile for connecting to OCI
  --compartment COMPARTMENT
                            Name of the compartment
  --refresh-cache, -r       Force refresh of cache by making API requests to OCI
                            (default: False - use cache files)
  --debug                    Send debug messages to STDERR
```

The `oci_inventory.py` script also accepts the following environment variables:

The order of precedence for the configuration used by the inventory script is:

1. command line arguments
2. environment variables
3. options in script configuration file.

The configuration file used for the script defaults to `./oci_inventory.ini` file. The OCI SDK configuration file defaults to `~/.oci/config` file. The script uses the `DEFAULT` profile from the config file if no profile name is specified.

The generated inventory is grouped along the following axes:

- region
- compartment\_name
- availability domain
- vcn\_id
- subnet\_id
- security\_list\_id
- image\_id
- instance shape
- freeform tags with group name as “tag\_key=value”
- defined tags with group name as “namespace#key=value”
- metadata (key, value) with group name as “key=value”
- extended metadata (key, value) with group name as “key=value”

By default, all non-alphanumeric characters except `HASH(#)`, `EQUALS(=)`, `PERIOD(.)` and `DASH(-)` in group names and host names are replaced with an `UNDERSCORE(_)` when the inventory is generated, so that the names can be used as Ansible groups. To disable this replacement, set `sanitize_names` to `False` in the dynamic inventory settings file (default `./oci_inventory.ini`). To also replace `DASH(-)` when `sanitize_names` is `True`, set `replace_dash_in_names` to `True` in the settings file.

## 2.2 How to Use

### 2.2.1 Using a Dynamic Inventory During Playbook Execution

Ensure that you have correct OCI SDK configuration (and optionally an `oci_inventory.ini`). Invoke the `ansible-playbook` command using

```
$ ansible-playbook -i <path-to-inventory-file>/oci_inventory.py <your-playbook-using-
↳the-generated-inventory>
```

or use the `ANSIBLE_HOSTS` environment variable:

```
$ ANSIBLE_HOSTS=<path-to-inventory-file>/oci_inventory.py ansible-playbook <your-
↳playbook-using-the-generated-inventory>
```

### 2.2.2 To Disable Cache and Fetch Latest

If you are running the dynamic inventory in a standalone manner, you can use “`--refresh`”/“`-r`” to ignore the cached inventory and fetch the latest inventory from OCI:

```
$ <path-to-inventory-file>/oci_inventory.py --refresh
```

If you are using the inventory script during an `ansible-playbook` invocation, set the `OCI_CACHE_MAX_AGE` environment variable to “0”(zero) to ignore the cache, and fetch the latest inventory from OCI:

```
$ OCI_CACHE_MAX_AGE=0 ansible-playbook -i <path-to-inventory-file>/oci_inventory.py
↳<your-playbook-using-the-generated-inventory>
```

### 2.2.3 Debugging

If you want to look at the dynamic inventory generated by the script, run it in with “`--list`”, and check the output.

```
$ <path-to-inventory-file>/oci_inventory.py --list
```

To print additional debug information to `STDERR`, use

```
$ <path-to-inventory-file>/oci_inventory.py --debug
```

### 2.2.4 Get a Single Host’s Information

The inventory script can also be configured to provide information about a single host.

```
$ <path-to-inventory-file>/oci_inventory.py --host <host's-ip>
```

The script would then return the following variables for the specified host:

```
{
  "availability_domain": "IwGV:US-ASHBURN-AD-1",
  "compartment_id": "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx",
  "defined_tags": {},
  "display_name": "ansible-test-instance-448",
```

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```

"extended_metadata": {},
"freeform_tags": {},
"id": "ocidl.instance.oc1.iad.xxxxxEXAMPLExxxxx",
"image_id": "ocidl.image.oc1.iad.xxxxxEXAMPLExxxxx",
"ipxe_script": null,
"launch_mode": "CUSTOM",
"launch_options": {
  "boot_volume_type": "ISCSI",
  "firmware": "UEFI_64",
  "network_type": "VFIO",
  "remote_data_volume_type": "ISCSI"
},
"lifecycle_state": "AVAILABLE",
"metadata": {
  "baz": "quux",
  "foo": "bar"
},
"region": "iad",
"shape": "VM.Standard1.1",
"source_details": {
  "image_id": "ocidl.image.oc1.iad.xxxxxEXAMPLExxxxx",
  "source_type": "image"
},
"time_created": "2018-01-16T12:13:35.336000+00:00"
}

```

## 2.3 FAQs

1. The generated inventory doesn't reflect all the compute instances in my tenancy.
  - Check if the OCI user `ocid` that you are specifying (either via `OCI_USER` or in the “profile” of your OCI SDK configuration file) has the policy permissions to list those instances. The dynamic inventory script current makes the following API operation calls. Ensure that the [corresponding permissions](#) are given to the OCI user:
    - `ListCompartments`
    - `ListVNICAttachments`
    - `GetSubnet`
    - `GetVCN`
    - `GetVNIC`
    - `GetInstance`
  - The default `OCI_HOSTNAME_FORMAT` is “`public_ip`” and so the generated inventory would only contain compute instances with public IP. This is useful when your ansible controller node is outside the OCI VCN (as Ansible can only reach instances with public IPs). However if you are running Ansible in a compute instance within your OCI VCN that has access to all subnets within your VCN and can reach compute instances with private ips, set `OCI_HOSTNAME_FORMAT` to “`private_ip`” to fetch nodes with private IPs as well.



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### How to run OCI Ansible Module Tests

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#### 3.1 Unit Tests

In a virtual environment, install all pre-requisites listed in the [OCI Ansible Modules Getting Started](#) documentation page.

To run unit tests as a developer, follow these steps:

```
$ # install all unit test dependencies
$ pip install pytest nose mock pytest-mock
$ python -m pytest -r a --fulltrace --color yes test/units/
```



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## OCI Ansible Modules Frequently Asked Questions (FAQs)

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### 1. How do I install the latest released version of the Ansible Cloud Modules?

- Uninstall the current installed version of the modules using the `uninstall.py` script in the directory you had earlier cloned the OCI Ansible Cloud Modules repo to.

```
$ ./uninstall.py
```

- Perform a `git pull` on your local git repo to fetch and merge all changes in the OCI Ansible Cloud Modules Github repo at <https://github.com/oracle/oci-ansible-modules>.

```
$ git pull
```

- Checkout the tag corresponding to the latest release. The latest Ansible modules releases are available at <https://github.com/oracle/oci-ansible-modules/releases>.

```
$ git checkout <release>
```

- Install the latest release

```
$ ./install.py
```

### 2. How do I get web-documentation for the OCI Ansible Cloud Modules?

Web-documentation for OCI Ansible modules is available at <https://oracle-cloud-infrastructure-ansible-modules.readthedocs.io>

To obtain access to detailed information about using Ansible modules in the CLI, including documentation of a module's configurable options, samples, return values, and so forth, use the `ansible-doc` command on the module's name. For example, to get the documentation for the `oci_bucket_facts` module, execute the following command:

```
$ ansible-doc oci_bucket_facts
```

### 3. How do I enable debug mode for the OCI Ansible Cloud Modules?

- Set the `log_requests` variable in your `~/oci/config` to `True` to enable Request logging in the OCI python SDK as described in <https://github.com/oracle/oci-python-sdk/blob/master/docs/logging.rst>

- Export an environment variable to enable DEBUG mode for our Ansible modules

```
$ export LOG_LEVEL="DEBUG"
```

All subsequent debug messages from an ansible playbook execution using the OCI Ansible Cloud Modules

```
$ ansible-playbook ....
```

would go to `/tmp/oci_ansible_module.log` (the default logging location for our modules).

#### 4. In a Mac OSX controller node, I am seeing “ImportError: No module named yaml” when executing a playbook, in spite of observing that I have ansible and its requirements including PyYAML installed in my python setup.

If you are running on macOS, and you have python installed by brew, you may see a ImportError (for example: `ImportError: No module named yaml`). To resolve this, you must override the `ansible_python_interpreter` configuration option. Setting the inventory variable `ansible_python_interpreter` on any host will allow Ansible to auto-replace the interpreter used when executing python modules.

`ansible_python_interpreter` configuration option can be set in inventory file. For example:

```
[control-node]
localhost ansible_python_interpreter="/usr/local/Cellar/python/2.7.14_3/bin/python2.7"
```

OR `ansible_python_interpreter` configuration option can be set using `-e` command line option:

```
$ ansible-playbook sample-playbook.yml -e 'ansible_python_interpreter=/usr/local/
↳Cellar/python/2.7.14_3/bin/python2.7'
```

#### 5. ansible-doc fails with an error when using the modules through an ansible role

`ansible-doc` fails with a documentation error when using the Ansible Cloud Modules through the `oci-ansible-modules` ansible role.

```
$ ansible-doc oci_bucket_facts
[ERROR]: module oci_bucket_facts has a documentation error formatting or is missing_
↳documentation
```

The documentation fragments shipped by an ansible module that is delivered by an ansible role, is not consulted by `ansible-doc`. To get around this problem, use the installer script to install the OCI Ansible Cloud Modules.

#### 6. How do I use the `oci_inventory.py` dynamic inventory script?

In addition to the OCI Ansible Cloud Modules, this project also provide a [dynamic inventory](#) script for OCI that you can use to construct a dynamic inventory of your OCI compute instances. For more details, see our how-to documentation at [using the dynamic inventory script](#).

#### 7. Any security guidelines or best practices?

The OCI Ansible Cloud Modules uses the authentication information specified in the standard OCI SDK configuration file (<https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/installation.html#configuring-the-sdk>) while creating and configuring OCI resources.

*Caution:* IAM credentials referenced in the OCI SDK configuration file, grants access to resources. It is important to secure these credentials to prevent unauthorized access to Oracle Cloud Infrastructure resources. Follow the guidelines in [https://docs.us-phoenix-1.oraclecloud.com/Content/Security/Reference/iam\\_security.htm#IAMCredentials](https://docs.us-phoenix-1.oraclecloud.com/Content/Security/Reference/iam_security.htm#IAMCredentials) to secure the IAM credentials in the controller node where you run ansible playbooks that uses these modules.

The OCI Ansible Cloud Modules allows the authentication information specified in the OCI SDK configuration file to be overridden using module options and environment variables. Please refer to the ansible module documentation of the OCI Ansible Cloud Modules for more details. Oracle recommends the use of OCI SDK configuration file to specify authentication information. Use the “profiles” feature in the OCI SDK configuration file to support different users. The use of environment variables and ansible module options to override Authentication information must be avoided in production scenarios. While distributing roles that use the OCI Ansible Cloud Modules, ensure that no IAM credentials are included with the roles.



### 5.1 Oracle

#### 5.1.1 oci\_ad\_facts - Retrieve details of availability domains in your tenancy

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- This module retrieves details of all availability domains in your tenancy.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the availability domains in your tenancy
  oci_ad_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

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#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.2 oci\_api\_key - Upload and delete API signing key of a user in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*



## Synopsis

- This module allows the user upload and delete API signing keys of a user in OCI. A PEM-format RSA credential for securing requests to the Oracle Cloud Infrastructure REST API. Also known as an API signing key. Specifically, this is the public key from the key pair. The private key remains with the user calling the API. For information about generating a key pair in the required PEM format, see Required Keys and OCIDs. Note that this is not the SSH key for accessing compute instances. Each user can have a maximum of three API signing keys. For more information about user credentials, see <https://docs.us-phoenix-1.oraclecloud.com/Content/API/Concepts/apisigningkey.htm>.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Upload a new api signing key for the specified user
  oci_api_key:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    key: "-----BEGIN PUBLIC KEY-----cmdnMIIBIjANBgkqhkiG9w0BAQEFA.....
    ↪mwIDAQAB-----END PUBLIC KEY-----"

- name: Delete an API signing key for the specified user
  oci_api_key:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    "id": "ocidl.tenancy.oc1..xxxxxEXAMPLExxxxx/ocidl.user.oc1..
    ↪xxxxxEXAMPLExxxxx/08:07:a6:7d:06:b4:73:91:e9:2c:da"
    state: "absent"
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.3 oci\_api\_key\_facts - Retrieve details of api signing keys for a specified user

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves details of api signing keys of a specified user. Note that this is not the SSH key for accessing compute instances. This is the credential for securing requests to the Oracle Cloud Infrastructure REST API.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the api signing keys of the specified user
  oci_api_key_facts:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"

- name: Get details of a specific api signing key of a user
  oci_api_key_facts:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    id: "ocidl.credential.oc1..xxxxxEXAMPLExxxxx"
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.4 oci\_backup - Create and Delete a Database Backup in OCI Database Cloud Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Create and Delete a Database Backup in OCI Database Cloud Service.
- Since all the operations of this module takes a long time, it is recommended to set the `wait` parameter to `False`. Use `oci_backup_facts` to check the status of the operation as a separate task.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
# Note: These examples do not set authentication details.
# Create Database Backup
- name: Create Database Backup
  oci_backup:
    database_id: 'ocidl.database.aaaa'
    display_name: 'ansible-backup'
    wait: False
    state: 'present'
# Delete Database Backup
- name: Delete Database Backup
  oci_backup:
    backup_id: 'ocidl.backup.aaaa'
    state: 'absent'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.5 oci\_backup\_facts - Fetches details of one or more Database Backups

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of the Database Backups.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch Database Backup for a Compartment
- name: List all Database Backups in a Compartment
  oci_backup_facts:
    compartment_id: 'ocidl.compartment..xcds'
#Fetch Database Backup for a Database
- name: List all Database Backups of a Database
  oci_database_facts:
    database_id: 'ocidl.database..xcds'
#Fetch a specific Database Backup
- name: List a specific Database Backup
  oci_database_facts:
    backup_id: 'ocidl.backup..xcds'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.6 oci\_boot\_volume - Manage boot volumes in OCI Block Volume service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to perform delete & update operations on boot volumes in OCI Block Volume service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Update name of a boot volume
  oci_boot_volume:
    name: ansible_boot_volume
    boot_volume_id: ocidl.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx

- name: Delete a boot volume
  oci_boot_volume:
    boot_volume_id: ocidl.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.7 oci\_boot\_volume\_attachment - Attach or detach a boot volume in OCI Block Volume service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to attach a boot volume to an instance or detach a boot volume from an instance in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Attach a boot volume to an instance
  oci_boot_volume_attachment:
    instance_id: ocid1.instance.oc1.phx.xxxxxEXAMPLExxxxx
    boot_volume_id: ocid1.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx

- name: Detach a boot volume from an instance
  oci_boot_volume_attachment:
    boot_volume_attachment_id: ocid1.instance.oc1.iad.xxxxxEXAMPLExxxxx
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)



## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.8 oci\_boot\_volume\_attachment\_facts - Retrieve facts of boot volume attachments in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves information of a specified boot volume attachment or all the boot volume attachments in the specified compartment and availability domain.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get information of all boot volume attachments in a compartment and
  ↪availability domain
  oci_boot_volume_attachment_facts:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    availability_domain: IwGV:US-ASHBURN-AD-1

- name: Get information of a specific boot volume attachment
  oci_boot_volume_attachment:
    id: ocidl.instance.oc1.iad.xxxxxEXAMPLExxxxx
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.9 oci\_boot\_volume\_facts - Retrieve facts of boot volumes in OCI Block Volume service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves information of a specified boot volume or all the boot volumes in a specified compartment and availability domain.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get information of all the boot volumes for a specific availability_
↪domain & compartment_id
oci_boot_volume_facts:
  availability_domain: BnQb:PHX-AD-1
  compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx

- name: Get information of a boot volume
oci_boot_volume_facts:
  boot_volume_id: ocidl.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.10 oci\_bucket - Create,update and delete oci buckets

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Creates OCI bucket if not present.
- Update OCI bucket, if present.
- Delete OCI bucket, if present.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Note: These examples do not set authentication details.

#Bucket creation or update
- name: Create or Update bucket
  oci_bucket:
    namespace_name: 'ansibletestspace'
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'
    name: 'AnsibleTestBucket'
    public_access_type: 'NoPublicAccess'
    metadata:
      project: 'Test Project'
    state: 'present'

#Delete bucket
- name: Delete bucket with 'force' to delete the bucket
  along with all the containing objects
  oci_bucket:
    namespace_name: 'ansibletestspace'
    name: 'AnsibleTestBucket'
    force: 'yes'
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.11 oci\_bucket\_facts - Fetches details of a bucket or all available buckets within a namespace

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves details of a bucket or all the buckets available for specified namespace and compartment identifier.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Note: These examples do not set authentication details.

#Listing facts of all buckets in a given namespace and compartment

- name: List bucket facts
  oci_bucket_facts:
    namespace_name: 'mynamespace'
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'

#Fetch facts of a specific bucket
- name: Fetch a bucket
  oci_bucket_facts:
    namespace_name: 'mynamespace'
    name: 'Bucket1'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.12 oci\_compartment - Manage compartments in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to create and update a compartment in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a compartment
  oci_compartment:
    compartment_id:
      ↪ 'ocidv1:tenancy:oc1:phx:xxxxxEXAMPLExxxxx:aaaabcaamx5hilzhdwvds5wfsn2akuyty4'
      ↪ '
    name: Project-A
    description: Compartment for Project-A

- name: Update name and description of a compartment
  oci_compartment:
    compartment_id: 'ocid1.compartment.oc1..xxxxxEXAMPLExxxxx'
    name: Project-Ansible
    description: Compartment for Project-Ansible
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.13 oci\_compartment\_facts - Retrieve details of a compartment or all the compartments in a tenancy in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to retrieve details of a specific compartment in a tenancy or all the compartments in a tenancy in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>



## Options

## Examples

```

- name: Get details of all the compartments in a tenancy by specifying OCID
  of the tenancy
  oci_compartment_facts:
    compartment_id:
  'ociidv1:tenancy:oc1:phx:xxxxxEXAMPLExxxxx:aaaaaaaamx5hilztihors5wfsn2akuyty4'
  '

- name: Get details of a compartment by specifying OCID of the compartment
  oci_compartment_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.14 oci\_customer\_secret\_key - Create, update and delete Customer Secret Keys for the specified user in OCI.

New in version 2.5.

- Synopsis*
- Requirements (on host that executes module)*
- Options*

- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to create, update and delete Customer Secret Keys in OCI. A CustomerSecretKey is an Oracle-provided key for using the Object Storage Service's Amazon S3 compatible API. A user can have up to two secret keys at a time. Note: The secret key is always an Oracle-generated string; you can't change it to a string of your choice.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a new customer secret key
  oci_customer_secret_key:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    name: "my first customer secret key"

- name: Update a customer secret key's display name
  oci_customer_secret_key:
    id: "ocidl.credential.oc1..xxxxxEXAMPLExxxxx"
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    name: "customer secret key #1"

- name: Delete a customer secret key
  oci_customer_secret_key:
    id: "ocidl.credential.oc1..xxxxxEXAMPLExxxxx"
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    state: "absent"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

**Note:**

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

### 5.1.15 oci\_customer\_secret\_key\_facts - Retrieve details of customer secret keys for a specified user

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves details of customer secret keys of a specified user. The returned object contains the customer secret key's OCID, but not the password itself. The actual password is returned only upon creation of a customer secret key using the `oci_customer_secret_key` module.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the customer secret keys of the specified user
  oci_customer_secret_key_facts:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"

- name: Get details of a specific customer secret key of a user
  oci_customer_secret_key_facts:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    id: "ocidl.credential.oc1..xxxxxEXAMPLExxxxx"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.16 oci\_data\_guard\_association - Create a Data Guard Association and, perform various Database role transitions of Databases associated with a Data Guard Association in OCI Database Cloud Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Create an OCI Data Guard Association
- Perform a switchover between Databases associated in a Data Guard Association
- Perform a failover on standby Database associated in a Data Guard Association
- Perform a reinstate on a disabled standby Database associated in a Data Guard Association
- Since all operations of this module takes a long time, it is recommended to set the `wait` to `False`. Use `oci_data_guard_association_facts` to check the status of the operation as a separate task.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create Data Guard Association
- name: Create Data Guard Association
  oci_data_guard_association:
    database_id: 'ocidl.database.abuw'
    creation_type: 'ExistingDbSystem'
    database_admin_password: 'password#_'
    protection_mode: 'MAXIMUM_PERFORMANCE'
    transport_type: 'ASYNC'
    peer_db_system_id: 'ocidl.dbssystem.xdvf'
    wait: False
    state: 'present'

# Perform switchover action on Data Guard Association
- name: Perform switchover operation to make the primary database to
  ↪secondary
  oci_data_guard_association:
    database_id: 'ocidl.database.abuw'
    data_guard_association_id: 'ocidl.dgassociation.abuw'
    database_admin_password: 'password#_'
    state: 'switchover'

# Perform failover action on Data Guard Association
- name: Perform failover operation to make the standby database to primary
  oci_data_guard_association:
```

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```
database_id: 'ocidl.database.abuw'
data_guard_association_id: 'ocidl.dgassociation.abuw'
database_admin_password: 'password#_'
state: 'failover'

# Perform reinstate action on Data Guard Association
- name: Perform reinstate operation to make the standby database to
  ↪standby
  oci_data_guard_association:
    database_id: 'ocidl.database.abuw'
    data_guard_association_id: 'ocidl.dgassociation.abuw'
    database_admin_password: 'password#_'
    state: 'reinstate'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.17 oci\_data\_guard\_association\_facts - Fetches details of an OCI Data Guard Association

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

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### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
# Note: These examples do not set authentication details.
# List all Data Guard Association related to a database
- name: List all Data Guard Association of a Database
  oci_data_guard_association_facts:
    database_id: 'ocidl.database..abuw'

# List a specific Data Guard Association related to a database
- name: List all Data Guard Association of a Database
  oci_data_guard_association_facts:
    database_id: 'ocidl.database..abuw'
    data_guard_association_id: 'ocidl.dgassociation.abuw'
```



## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.18 oci\_database - Restore or Update a Database in OCI Database Cloud Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Restore a Database. Note that this operation is not idempotent and any existing data in the database would be overwritten by this operation.
- Update a Database.

- Since all operations of this module takes a long time, it is recommended to set the `wait` to `False`. Use `oci_database_facts` to check the status of the operation as a separate task.

### Requirements (on host that executes module)

- python  $\geq$  2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
# Note: These examples do not set authentication details.
# Update Database Backup Configuration
- name: Enable automatic Database Backups for a Database
  oci_database:
    database_id: 'ocidl.database.aaaa'
    db_backup_config:
      auto_backup_enabled: True
    state: 'update'
#Restore Database from latest backup
- name: Restore Database from latest backup
  oci_database:
    database_id: 'ocidl.database.aaaa'
    latest: True
    wait: False
    state: 'restore'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.19 oci\_database\_facts - Fetches details of one or more Databases

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- Fetches details of one or more OCI Databases.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
#Fetch Databases
- name: Fetch all Databases under a DB Home
  oci_database_facts:
    compartment_id: 'ocidl.compartment.aaaa'
    db_home_id: "ocidl.dbhome.aaaa"
#Fetch a specific Database
- name: List a specific DB Node
  oci_database_facts:
    database_id: 'ocidl.database..xcds'
```

#### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.20 oci\_db\_home - Create,update and delete a DB Home in OCI Database Cloud Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Create an OCI DB Home
- Update an OCI DB Home, if present
- Delete an OCI DB Home, if present.
- Since all operations of this module takes a long time, it is recommended to set the `wait` to `False`. Use `oci_db_home_facts` to check the status of the operation as a separate task.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create DB Home from No Source
- name: Create DB Home From No Source
  oci_db_home:
    db_system_id: "ocidl.dbsystem.aaaa"
    display_name: "db50"
    source: "NONE"
    database:
      admin_password: 'BEstr0ng_#1'
      character_set: 'AL32UTF8'
      db_backup_config:
        auto_backup_enabled: False
      db_name: 'dbone{{random_suffix_1024}}'
      db_workload: 'OLTP'
      ncharacter_set: 'AL16UTF16'
      db_version: "12.2.0.1"
      wait: False
      state: 'present'
# Create DB Home from DB Backup
- name: Create DB Home From DB Backup
  oci_db_home:
    db_system_id: "ocidl.dbsystem.aaaa"
    display_name: "db50"
    source: "DB_BACKUP"
    database:
      backup_id: 'ocidl.dbbackup.oc1.iad.xxxxxEXAMPLExxxxx'
      backup_tde_password: 'BEstr0ng_#1'
      admin_password: 'BEstr0ng_#1'
      state: 'present'
# Precheck a patch on DB Home
- name: Precheck a patch on DB Home
  oci_db_home:
    db_home_id: "ocidl.dbhome.aaaa"
    patch_details:
      patch_id: "ocidl.dbbackup.oc1.iad.xxxxxEXAMPLExxxxx"
      action: 'PRECHECK'
      state: 'present'
# Apply a patch on DB Home
- name: Apply a patch on DB Home
  oci_db_home:
    db_home_id: "ocidl.dbhome.aaaa"
    patch_details:
      patch_id: "ocidl.dbbackup.oc1.iad.xxxxxEXAMPLExxxxx"
      action: 'APPLY'
      state: 'present'
# Delete DB Home
```

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```
oci_db_home:
  db_home_id: "ocidl.dbhome.aaaa"
  state: 'absense'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.21 oci\_db\_home\_facts - Fetches details of one or more OCI DB Homes

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of the OCI DB Home.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch DB Home
- name: List all DB Homes in a DB System
  oci_db_home_facts:
    compartment_id: 'ocidl.compartment..xcds'
    db_system_id: 'ocidl.dbssystem..xcds'
#Fetch a specific DB Home
- name: List a specific DB Home
  oci_db_home_facts:
    db_home_id: 'ocidl.dbhome..xcds'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.22 oci\_db\_home\_patch\_facts - Fetches details of one or more DB Home Patches

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of one or more DB Home Patches.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch all DB Home Patches
- name: List DB Home Patches
  oci_db_home_patch_facts:
    db_home_id: "ocidl.dbhome.aaaa"
#Fetch a specific DB Home Patch
- name: List a specific DB Home Patch
  oci_db_home_patch_facts:
    db_home_id: "ocidl.dbhome.aaaa"
    patch_id: "ocidl.dbpatch.aaaa"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
-



## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.23 oci\_db\_home\_patch\_history\_entry\_facts - Fetches details of one or more DB Home Patch History Entries

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of one or more DB Home Patch History Entries.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch all DB Home Patch History Entries
- name: List DB Home Patch History Entries
  oci_db_home_patch_history_entry_facts:
    db_home_id: 'ocidl.dbhome.aaaa'
#Fetch a specific DB Home Patch History Entry
```

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```
- name: List a specific DB Home Patch History Entry
  oci_db_home_patch_history_entry_facts:
    db_home_id: 'ocidl.dbhome.aaaa'
    patch_history_entry_id: 'ocidl.dbpatchhistory.oc1.ad.abu'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.24 oci\_db\_node - Control the lifecycle of a DB Node in OCI's Database Cloud Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Stop/start a DB Node
- Reset a DB Node
- Soft-reset a DB Node
- All operations of this module returns after triggering the lifecycle operation. Use *oci\_db\_node\_facts* to check the status of the operation.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Assert that the database node is stopped
- name: Stop a Database Node
  oci_db_node:
    db_node_id: "ocidl.dbnode.aaaa"
    state: 'stop'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta(@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read *../community*, *../dev\_guide/testing* and *../dev\_guide/developing\_modules*.

## 5.1.25 oci\_db\_node\_facts - Fetches details of one or more OCI DB Nodes

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of the OCI DB Home.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch Db Nodes
- name: List all Db Nodes in a compartment and Db system
  oci_db_home_facts:
    compartment_id: 'ocidl.compartment..xcds'
    db_system_id: 'ocidl.dbssystem..xcds'
#Fetch a specific DB Node
- name: List a specific DB Node
  oci_db_node_facts:
    db_node_id: 'ocidl.dbnode..xcds'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.26 oci\_db\_system - Launch,update and terminate a DB System in OCI Database Cloud Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Launch an OCI DB System
- Update an OCI DB System, if present, with a new display name
- Terminate an OCI DB System, if present.
- Since all operations of this module takes a long time, it is recommended to set the `wait` to `False`. Use `oci_db_system_facts` to check the status of the operation as a separate task.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Launch DB System
- name: Create DB System
  oci_db_system:
    compartment_id: "ocidl.compartment.aaaa"
    availability_domain: "AD-2"
    cluster_name: "db-cluster"
    cpu_core_count: 2
    data_storage_percentage: 80
    database_edition: "STANDARD_EDITION"
    db_home:
      database:
        admin_password: 'BEstr0ng_#1'
        character_set: 'AL32UTF8'
        db_backup_config:
          auto_backup_enabled: False
        db_name: 'db15'
        db_workload: 'OLTP'
        ncharacter_set: 'AL16UTF16'
        pdb_name: 'db15'
        freeform_tags:
          deployment: 'production'
        defined_tags:
          target_users:
            division: 'design'
      db_version: '12.2.0.1'
      display_name: ansible-db-{{random_suffix_1024}}
    disk_redundancy: "NORMAL"
    display_name: "ansibledb"
    hostname: "ansibledbssystem"
    initial_data_storage_size_in_gb: 4096
    license_model: "LICENSE_INCLUDED"
    node_count: 1
    shape: "BM.DenseIO1.36"
    ssh_public_keys: ["/tmp/id_rsa.pub"]
    subnet_id: "ocidl.subnet.aaaa"
    freeform_tags:
      deployment: 'production'
    defined_tags:
      target_users:
        division: 'documentation'
    wait: False
    state: 'present'

# Perform a patch PRECHECK on the specified database system
- name: PRECHECK a patch on the DB System
  oci_db_system:
    db_system_id: "ocidl.dbsystem.aaaa"
    version:
      patch_id: "ocidl.patch.aaaa"
      action: 'PRECHECK'
    state: 'present'
```

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```
# APPLY a patch on the specified database system
- name: APPLY a patch on the DB System
  oci_db_system:
    db_system_id: "ocidl.dbsystem.aaaa"
    version:
      patch_id: "ocidl.patch.aaaa"
      action: 'APPLY'
    state: 'present'

# Update a DB System's CPU core count
- name: Update DB System CPU core count
  oci_db_system:
    db_system_id: "ocidl.dbsystem.aaaa"
    cpu_core_count: 4
    state: 'present'

# Update DB System by purging SSH Public keys
- name: Update DB System by purging SSH Public keys
  oci_db_system:
    db_system_id: "ocidl.dbsystem.aaaa"
    ssh_public_keys: ["/tmp/id_rsa_updated.pub"]
    purge_ssh_public_keys: True
    state: 'present'

# Appending SSH public keys to a database system
- name: Update DB System by appending SSH Public keys
  oci_db_system:
    db_system_id: "ocidl.dbsystem.aaaa"
    ssh_public_keys: ["/tmp/id_rsa_updated.pub"]
    purge_ssh_public_keys: False
    state: 'present'

# Terminate DB System
- name: Terminate DB System
  oci_db_system:
    db_system_id: "ocidl.dbsystem.aaaa"
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.27 oci\_db\_system\_facts - Fetches details of the OCI DB System

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of the OCI DB System.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch DB System
- name: List all DB System in a compartment
  oci_db_system_facts:
    compartment_id: 'ocidl.compartment..xcds'

#Fetch specific DB System
- name: List a specific DB System
  oci_db_system_facts:
    db_system_id: 'ocidl.dbssystem..xcds'
```



## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.28 oci\_db\_system\_patch\_facts - Fetches details of one or more DB System Patches

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of one or more DB System Patches.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch all DB System Patches
- name: List DB System Patches
  oci_db_system_patch_facts:
    db_system_id: "ocidl.dbssystem.aaaa"
#Fetch a specific DB System Patch
- name: List a specific DB System Patch
  oci_db_system_patch_facts:
    db_system_id: "ocidl.dbssystem.aaaa"
    patch_id: "ocidl.dbpatch.aaaa"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.29 oci\_db\_system\_patch\_history\_entry\_facts - Fetches details of one or more DB System Patch History Entries

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of one or more DB System Patch History Entries.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch all DB System Patch History Entries
- name: List DB System Patch History Entries
  oci_db_system_patch_history_entry_facts:
    db_system_id: 'ocidl.dbSystem.aaaa'
#Fetch a specific DB System Patch History Entry
- name: List a specific DB System Patch History Entry
  oci_db_system_patch_history_entry_facts:
    db_system_id: 'ocidl.dbSystem.aaaa'
    patch_history_entry_id: 'ocidl.dbpatchhistory.oc1.ad.abu'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

### Author

- Debayan Gupta(@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.30 oci\_db\_system\_shape\_facts - Fetches details of all DB System Shapes

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of all DB System Shapes.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch DB System Shapes
- name: Fetch all DB System Shapes
  oci_db_system_shape_facts:
    compartment_id: 'ocidl.compartment.aaaa'
    availability_domain: 'AD2'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.31 oci\_db\_version\_facts - Fetches details of all DB Versions

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of all DB Versions.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch All DB Versions
- name: List All DB Versions
  oci_db_version_facts:
    compartment_id: 'ocidl.compartment.aaaa'
#Fetch DB Versions of a Specific DB System Shape
- name: List DB Versions For a Specific Shape
  oci_db_version_facts:
    compartment_id: 'ocidl.compartment.aaaa'
    db_system_shape: 'VM.Standard1.4'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.32 oci\_dhcp\_options - Create,update and delete OCI Dhcp Options

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Creates OCI Dhcp Options
- Update OCI Dhcp Options, if present, with a new display name
- Update OCI Dhcp Options, if present, by appending new options to existing options
- Update OCI Dhcp Options, if present, by purging existing options and replacing them with specified ones
- Delete OCI Dhcp Options, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Note: These examples do not set authentication details.
#Create/update Dhcp Options
- name: Create dhcp options
  oci_dhcp_options:
    compartment_id: 'ocidl.compartment..xdsc'
    name: 'ansible_dhcp_options'
    vcn_id: 'ocidl.vcn..aaaa'
    options:
      - type: 'DomainNameServer'
        server_type: 'VcnLocalPlusInternet'
        custom_dns_servers: []
      - type: 'SearchDomain'
        search_domain_names: ['ansibletestvcn.oraclevcn.com']
    freeform_tags:
      region: 'east'
    defined_tags:
      features:
        capacity: 'medium'
    state: 'present'
```

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```
#Update Dhcp Options by appending new options
- name: Update the display name of a Dhcp Options
  oci_dhcp_options:
    id: 'ocidl.dhcpoptions.oc1.aaa'
    purge_dhcp_options: 'no'
    options:
      - type: 'DomainNameServer'
        server_type: 'CustomDnsServer'
        custom_dns_servers: ['10.0.0.8']
      - type: 'SearchDomain'
        search_domain_names: ['ansibletestvcn.oraclevcn.com']
    state: 'present'

#Update Dhcp Options by purging existing options
- name: Update the display name of a Dhcp Options
  oci_dhcp_options:
    dhcp_id: 'ocidl.dhcpoptions.oc1.aaa'
    options:
      - type: 'DomainNameServer'
        server_type: 'CustomDnsServer'
        custom_dns_servers: ['10.0.0.8', '10.0.0.10', '10.0.0.12']
      - type: 'SearchDomain'
        search_domain_names: ['ansibletestvcn.oraclevcn.com']
    state: 'present'

#Delete Dhcp Options
- name: Delete Dhcp Options
  oci_dhcp_options:
    dhcp_id: 'ocidl.dhcpoptions..xdsc'
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.



For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.33 oci\_dhcp\_options\_facts - Fetches details of a specific Dhcp Options or a list of Dhcp Options in the specified VCN and compartment

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- Fetches details of a specific Dhcp Options or a list of Dhcp Options in the specified VCN and compartment.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
# Fetch details of all Dhcp Options in the specified compartment and VCN
- name: List Dhcp Options
  oci_dhcp_options:
    compartment_id: 'ocidl.compartment..xcds'
    vcn_id: 'ocidl.vcn..dfxs'

#Fetch specific Dhcp Options
- name: List a specific Dhcp Options
  oci_dhcp_options:
    dhcp_id: 'ocidl.dhcpoptions..xcds'
```

#### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.34 oci\_group - Create,update and delete OCI user groups and specified user associations

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Creates OCI group, if not present, without any user associations
- Creates OCI group, if not present, with any specified user associations
- Update OCI group, if present, with description
- Update OCI group, if present, with new user(s) associations
- Update OCI group, if present, removing all user associations
- Delete OCI group, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.

# Group creation
- name: Create group
  oci_group:
    name: 'AnsibleTestGroup'
    description: 'Group for Testing Ansible Module'
    users: ['user1','user2']
    freeform_tags:
      group_name: 'designer'
    defined_tags:
      product:
        type: 'server'
    state: 'present'

- name: Update group by purging existing user memberships
  oci_group:
    id: ocid1.group.oc1..xxxxxEXAMPLExxxxx
    description: 'Group for Testing Ansible Module'
    purge_user_memberships: 'yes'
    users: ['user1','user3']
    state: 'present'

- name: Create group without users associations
  oci_group:
    name: 'AnsibleTestGroup'
    description: 'Group for Testing Ansible Module'
    state: 'present'

- name: Delete all User associations of a Group
  oci_group:
    id: ocid1.group.oc1..xxxxxEXAMPLExxxxx
    description: 'Group for Testing Ansible Module'
    users: []
    state: 'present'

# Delete group
- name : Forcefully delete a group and any user associations it may have
  oci_group:
    id: ocid1.group.oc1..xxxxxEXAMPLExxxxx
    force: 'yes'
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.35 oci\_group\_facts - Fetches details of all the OCI groups of a tenancy and the users associated

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of all the OCI groups of a tenancy and the users associated with them.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch a specific group details
- name : List OCI user group facts
  oci_group_facts:
    group_id: 'ocidl.group.oci.asdx'

#Fetch all groups
- name : List all OCI user groups
  oci_group_facts:
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta(@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.36 oci\_image - Create, import, update and delete OCI Compute images

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*

- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to create an image, import an exported image, update an image and delete OCI Compute Images.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Create a new image from a specified instance
  oci_image:
    name: my_custom_image_1
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq"
    instance_id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...dszaitd3da"

- name: Create a new image by importing an exported image, where the image_
  ↪is placed in a bucket in Object Storage
  Service
  oci_image:
    name: my_custom_image_2
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq"
    image_source_details:
      source_type: "objectStorageTuple"
      bucket: "my_bucket"
      namespace: "my_namespace"
      object: "image-to-import.qcow2"

- name: Create a new image by importing an exported image, where the image_
  ↪is available through an Object Storage
  Service URL
  oci_image:
    name: my_custom_image_3
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq"
    image_source_details:
      source_type: "objectStorageUri"
      source_uri: "https://objectstorage.us-phoenix-1.oraclecloud.com/
  ↪n/my_namespace/b/my_bucket/o/image-to-import.qcow2"

- name: Update an image's display name
  oci_image:
    id: "ocidl.image.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
```

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```
name: my_new_image_name

- name: Delete an image
  oci_image:
    id: "ocidl.image.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "absent"
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.37 oci\_image\_facts - Retrieve details about one or more Compute images in OCI Compute Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves details about a specific image, or all images in a specified Compartment in OCI Compute Service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the images of a specified compartment
  oci_image_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq'

- name: Get details of a specific image
  oci_image_facts:
    id: "ocidl.image.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).



## 5.1.38 oci\_instance - Launch, terminate and control the lifecycle of OCI Compute instances

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to launch/create, terminate and perform other power actions on OCI Compute Service instances. An instance represents a compute host. The image used to launch the instance determines its operating system and other software. The shape specified during the launch process determines the number of CPUs and memory allocated to the instance. For more information, see Overview of the Compute Service at <https://docs.us-phoenix-1.oraclecloud.com/Content/Compute/Concepts/computeoverview.htm>. In experimental mode, this module also allows attaching/detaching volumes and boot volumes to an instance.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Launch/create an instance using an image, with custom metadata and a
  ↪private IP assignment
  oci_instance:
    name: myinstance1
    availability_domain: "BnQb:PHX-AD-1"
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq"
    image_id: "ocidl.image.oc1.phx..xxxxxEXAMPLExxxxx...sa7klnoa"
    shape: "BM.Standard1.36"
    metadata:
      foo: bar
      baz: quux
    volume_details:
      attachment_state: present
      volume_id: ocidl.volume.oc1.phx..xxxxxEXAMPLExxxxx
```

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```

    vnic:
      hostname_label: "myinstance1"
      private_ip: "10.0.0.5"
      subnet_id: "ocidl.subnet.oc1.phx.xxxxxEXAMPLExxxxx...5iddusmpqpaoa"

- name: Launch/create an instance using a boot volume, a private IP,
  ↪assignment and attach a volume
  oci_instance:
    name: myinstance2
    availability_domain: "BnQb:PHX-AD-1"
    source_details:
      source_type: bootVolume
      boot_volume_id: ocidl.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq"
    shape: "BM.Standard1.36"
    volume_details:
      attachment_state: present
      volume_id: ocidl.volume.oc1.phx.xxxxxEXAMPLExxxxx
    vnic:
      hostname_label: "myinstance2"
      private_ip: "10.0.0.6"
      subnet_id: "ocidl.subnet.oc1.phx.xxxxxEXAMPLExxxxx...5iddusmpqpaoa"

- name: Update an instance's name
  oci_instance:
    name: myinstance1-new-name
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"

- name: Detach a volume from an instance
  oci_instance:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    volume_details:
      attachment_state: absent
      volume_id: ocidl.volume.oc1.phx.xxxxxEXAMPLExxxxx

- name: Stop an instance
  oci_instance:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "stopped"

- name: Stop an instance and detach boot volume
  oci_instance:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "stopped"
    boot_volume_details:
      boot_volume_id: ocidl.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx
      attachment_state: absent

- name: Attach a boot volume & Start an instance
  oci_instance:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "running"
    boot_volume_details:
      boot_volume_id: ocidl.bootvolume.oc1.iad.xxxxxEXAMPLExxxxx

- name: Reset an instance
  oci_instance:

```

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```

    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "reset"

- name: Terminate/delete an instance
  oci_instance:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "absent"

- name: Terminate/delete an instance and preserve boot volume
  oci_instance:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
    state: "absent"
    preserve_boot_volume: yes

- name: Ensure 3 web-server instances with the defined tag namespace
  ↪ "TagNamespacel", tag key "Application" and
    value "App1" are running
  oci_instance:
    name: my-web-server
    availability_domain: "BnQb:PHX-AD-1"
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq"
    image_id: "ocidl.image.oc1.phx.xxxxxEXAMPLExxxxx...sa7klnoa"
    shape: "BM.Standard1.36"
    vnic:
      subnet_id: "ocidl.subnet.oc1.phx.xxxxxEXAMPLExxxxx...5iddusmpqpaoa"
    defined_tags:
      TagNamespacel: { Application: App1 }
    exact_count: 3
    count_tag:
      TagNamespacel: { Application: App1 }

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.39 oci\_instance\_facts - Retrieve details about one or more Compute instances in OCI Compute Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- This module retrieves details about a specific Compute instance, or all Compute instances in a specified Compartment in a specified Availability Domain in OCI Compute Service.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
- name: Get details of all the compute instances of a specified compartment
  ↪in a specified Availability Domain
  oci_instance_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq'
    availability_domain: "BnQb:PHX-AD-1"

- name: Get details of a specific Compute instance
  oci_instance_facts:
    id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq"
```

#### Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.40 oci\_internet\_gateway - Create,update and delete OCI Internet Gateway

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Creates OCI Internet Gateway
- Update OCI Internet Gateway, if present, with a new display name
- Update OCI Internet Gateway, if present, with enable/disable state
- Delete OCI Internet Gateway, if present.

## Requirements (on host that executes module)

- python >= 2.6

- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Note: These examples do not set authentication details.
#Create/update Internet Gateway
- name : Create new Internet Gateway in OCI
  oci_internet_gateway:
    compartment_id: 'ocidl.compartment..xdsc'
    vcn_id: 'ocidl.vcn..dsxc'
    name: 'ansible_ig'
    enabled: 'yes'
    freeform_tags:
      region: 'east'
    defined_tags:
      features:
        capacity: 'medium'
    state: 'present'
#Update Internet Gateway with ig_id
- name : Update Internet Gateway in OCI
  oci_internet_gateway:
    ig_id: 'ocidl.internetgateway..dsxc'
    display_name: 'ansible_ig'
    is_enabled: 'no'
    state: 'present'

#Delete Internet Gateway
- name : Delete Internet Gateway
  oci_internet_gateway:
    compartment_id: 'ocidl.compartment..xdsc'
    vcn_id: 'ocidl.vcn..dsxc'
    state: 'absent'

#Delete Internet Gateway
- name : Delete Internet Gateway
  oci_internet_gateway:
    id: 'ocidl.internetgateway..xdsc'
    state: 'absent'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
-

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.41 oci\_internet\_gateway\_facts - Fetches details of the OCI Internet Gateway under a Virtual Cloud Network

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of the OCI Internet Gateway under a Virtual Cloud Network.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch Internet Gateway
- name: List Internet Gateway
  oci_internet_gateway_facts:
    compartment_id: 'ocidl.compartment..xcds'
    vcn_id: 'ocidl.vcn..dfxs'
```

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```
#Fetch specific Internet Gateway
- name: List a specific Internet Gateway
  oci_internet_gateway_facts:
    id: 'ocidl.internetgateway..xcds'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.42 oci\_load\_balancer - Create, update and delete load balancers in OCI Load Balancing Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*



## Synopsis

- Creates OCI Load Balancers
- Update OCI Load Balancers, if present, with a new display name
- Delete OCI Load Balancers, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create Load Balancer
- name: Create Load Balancer
  oci_load_balancer:
    compartment_id: "ocidl.compartment.xvds"
    name: "ansible_lb"
    backend_sets:
      backend1:
        backends:
          - ip_address: "10.159.34.21"
            port: "8080"
        health_checker:
          interval_in_millis: "30000"
          port: "8080"
          protocol: "HTTP"
          response_body_regex: "^(500|40[1348])$"
          retries: "3"
          timeout_in_millis: "6000"
          return_code: "200"
          url_path: "/healthcheck"
        policy: "LEAST_CONNECTIONS"
    shape_name: "100Mbps"
    listeners:
      listener1:
        default_backend_set_name: "backend1"
        port: "80"
        protocol: "HTTP"
    subnet_ids:
      - "ocidl.subnet.ad1"
      - "ocidl.subnet.ad2"
    certificates:
      certs1:
        ca_certificate: "fullchain.pem"
        private_key: "privkey.pem"
        public_certificate: "ca_cert.pem"
        certificate_name: "certs1"
    path_routes:
      - backend_set_name: "backend1"
```

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```
        path: "/admin"
        path_match_type:
            match_type: 'EXACT_MATCH'
    hostnames:
        ansible_hostname:
            name: 'ansible_hostname'
            hostname: 'myapp.example.com'
        state: 'present'
# Update Load Balancer
- name: Update Load Balancer
  oci_load_balancer:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_lb_updated"
    state: 'present'
# Deleted Load Balancer
- name: Update Load Balancer
  oci_load_balancer:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.43 oci\_load\_balancer\_backend - Add, modify and remove a backend from a load balancer in OCI Load Balancing Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Add a Backend server to OCI Load Balancer
- Update a Backend server in a Load Balancer, if present, with any changed attribute
- Delete a Backend server from OCI Load Balancer Backends, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create Load Balancer Backend
- name: Create Load Balancer Backend
  oci_load_balancer_backend:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backend_set_name: "backend1"
    ip_address: "10.50.121.69"
    port: 8080
    backup: False
    drain: False
    offline: False
    weight: 3
    state: 'present'
# Update a Backend server by enabling drain
- name: Drain a backend server by updating the Backend and setting the 'drain
  ↪' option
  oci_load_balancer_backend:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backend_set_name: "backend1"
    ip_address: "10.50.121.69"
    port: 8080
    drain: True
```

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```
state: 'present'
# Update a Backend server to make it offline
- name: Make a backend server offline
  oci_load_balancer_backend:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backend_set_name: "backend1"
    ip_address: "10.50.121.69"
    port: 8080
    offline: True
    state: 'present'
# Update a Backend server to backup state
- name: Change a backend server state as backup
  oci_load_balancer_backend:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backend_set_name: "backend1"
    ip_address: "10.50.121.69"
    port: 8080
    backup: True
    state: 'present'
# Update Load Balancer Backend
- name: Update Load Balancer Backend
  oci_load_balancer_backend:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backend_set_name: "backend1"
    ip_address: "10.50.121.69"
    port: 8080
    backup: True
    state: 'present'
# Delete Load Balancer Backend
- name: Update Load Balancer Backend
  oci_load_balancer_backend:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backend_set_name: "backend1"
    ip_address: "10.50.121.69"
    port: 8080
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.44 oci\_load\_balancer\_backend\_facts - Fetch details of all Backends in a load balancer backend set of a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetch details of all Backends in a load balancer backend set of a load balancer.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of all load balancer backends of a load balancer
- name: List all Load Balancer Backends
  oci_load_balancer_backend_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    backend_set_name: 'backend1'

#Fetch details of a specific load balancer backend in a load balancer
- name: List a specific Load Balancer Backend
  oci_load_balancer_backend_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    backend_set_name: 'backend1'
```

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```
ip_address: '10.159.121.55'
port: '8181'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.45 oci\_load\_balancer\_backend\_health\_facts - Fetch details of Backend Health in a load balancer backend set of a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetch details of Backend Health in a load balancer backend set of a load balancer.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of the backend health of a backend set
- name: List a specific Load Balancer Backend's Health
  oci_load_balancer_backend_health_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    backend_set_name: 'ansible_backend_set'
    ip_address: '10.159.121.55'
    port: '8181'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.46 oci\_load\_balancer\_backend\_set - Create, update and delete a backend set of a load balancer.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- Create an OCI Load Balancer Backend Set
- Update OCI Load Balancers Backend Set, if present.
- Delete OCI Load Balancers Backend Set, if present.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
# Note: These examples do not set authentication details.
# Create Create a backend set named "ansible_backend_set" in a load balancer
- name: Create Load Balancer Backend Set
  oci_load_balancer_backend_set:
    name: "ansible_backend_set"
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    backends:
      - ip_address: "10.159.34.21"
        port: 8080
    health_checker:
      interval_in_millis: 30000
      port: 8080
      protocol: "HTTP"
      response_body_regex: "^(500|40[1348])$"
      retries: 3
      timeout_in_millis: 6000
```

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```

        return_code: 200
        url_path: "/healthcheck"
    policy: "LEAST_CONNECTIONS"
    session_persistence_configuration:
        cookie_name: "ansible_backend_set_cookie"
        disable_fallback: True
    ssl_configuration:
        certificate_name: "certs1"
        verify_depth: 3
        verify_peer_certificate: True
    state: 'present'

# Update Load Balancer Backend Set
- name: Update Load Balancer Backend Set
  oci_load_balancer_backend_set:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_backend_set"
    backends:
      - ip_address: "10.159.34.25"
        port: 8282
    purge_backends: 'no'
    state: 'present'

# Deleted Load Balancer Backend Set
- name: Update Load Balancer Backend Set
  oci_load_balancer_backend_set:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_backend_set"
    state: 'absent'

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../../community`, `../../dev_guide/testing` and `../../dev_guide/developing_modules`.

### 5.1.47 oci\_load\_balancer\_backend\_set\_facts - Fetches details of backend set(s) that are associated with a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- Fetches details of all backend sets, or a specific backend set, that are associated with a load balancer.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
#Fetch Load Balancer Backend Set
- name: List all backend sets that are associated with a load balancer
  oci_load_balancer_backend_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'

#Fetch specific Load Balancer Backend Set
- name: List a specific Load Balancer Backend Set
  oci_load_balancer_backend_set_facts:
    name: 'ansible_backend_set'
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
```

#### Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.48 oci\_load\_balancer\_backend\_set\_health\_facts - Fetch details of a Backend Set's health in a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetch details of Backend Set's health in a load balancer.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch details of the backend set health of a load balancer
- name: List a specific Load Balancer Backend Set's Health
  oci_load_balancer_backend_set_health_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    backend_set_name: 'ansible_backend_set'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.49 oci\_load\_balancer\_certificate - Add or remove a SSL certificate from a load balancer in OCI Load Balancing Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*

- *Author*
- *Status*

## Synopsis

- Add a SSL certificate to OCI Load Balancer
- Delete a SSL certificate, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Add a certificate bundle (without passphrase) to a loadbalancer
- name: Add a certificate bundle (without passphrase) to a loadbalancer
  oci_load_balancer_certificate:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_certificate"
    ca_certificate: "certificate_src/ca_cert.pem"
    private_key: "certificate_src/private_key.pem"
    public_certificate: "certificate_src/cert.pem"
    state: 'present'
# Add a certificate bundle (with a passphrase for encrypted private keys) to
→ a load balancer
- name: Create certificate with Passphrase
  oci_load_balancer_certificate:
    name: "ansible_cert_with_passphrase"
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    ca_certificate: "certificate_src/ca_cert.pem"
    passphrase: "ansible"
    private_key: "certificate_src/private_key_with_passphrase.pem"
    public_certificate: "certificate_src/cert_with_passphrase.pem"
    state: 'present'
# Delete a SSL Certificate from a load balancer
- name: Delete a SSL certificate
  oci_load_balancer_certificate:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_certificate"
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.50 oci\_load\_balancer\_certificate\_facts - Fetch details of all certificates associated with a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetch details of all certificates or details of a particular certificate that is associated with a load balancer.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of all certificates of a load balancer
- name: List all Load Balancer certificates
  oci_load_balancer_certificate_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'

#Fetch details of a specific certificate of a load balancer
- name: List a specific certificate
  oci_load_balancer_certificate_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    name: 'ansible_certificate'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.51 oci\_load\_balancer\_facts - Fetches details of the OCI Load Balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of the OCI Load Balancer.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch Load Balancer
- name: List Load Balancer
  oci_load_balancer_facts:
    compartment_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'

#Fetch specific Load Balancer
- name: List a specific Load Balancer
  oci_load_balancer_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)



## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.52 oci\_load\_balancer\_health\_checker - Update health checker details of a backend set in a load balancer in OCI Load Balancing Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Update health checker details of a backend set in a load balancer in OCI Load Balancing Service.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Update Health Checker of a Backend Set
- name: Update Health Checker of a Backend Set
  oci_load_balancer_health_checker:
    load_balancer_id: 'ocidl.loadbalancer.aaaa'
    backend_set_name: 'backend_set'
    interval_in_millis: 30000
    port: 8080
    protocol: "HTTP"
    response_body_regex: "^(500|40[1348])$"
    retries: 3
```

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```
timeout_in_millis: 6000
return_code: 200
url_path: "/healthcheckupdated"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.53 oci\_load\_balancer\_health\_checker\_facts - Fetch details of all health checker details of load balancer backend sets of a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetch details of all health checker details of load balancer backend sets of a load balancer.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of all health checker details of load balancer backends of a
↪load balancer
- name: List a specific Health Checker Details of a Backend Set
  oci_load_balancer_health_checker_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    backend_set_name: 'backend_set'

#Fetch details of all health checkers in a load balancer
- name: List all Health Checker Details
  oci_load_balancer_health_checker_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.54 oci\_load\_balancer\_health\_facts - Fetch details of a Load Balancer Health

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetch details of a Load Balancer Health.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch details of health of a load balancer
- name: List a specific Load Balancer Health
  oci_load_balancer_health_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
-

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.55 oci\_load\_balancer\_health\_summary\_facts - Fetches the summary health statuses for all load balancers in a given compartment.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches the summary health statuses for all load balancers in a given compartment.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of health summary of all load balancer
- name: List all Load Balancer Health Summary in a Compartment
  oci_load_balancer_health_summary_facts:
    compartment_id: 'ocidl.compartment..xcds'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.56 oci\_load\_balancer\_hostname - Create, update and delete a hostname resource in the specified load balancer.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Create an OCI Load Balancer Hostname
- Update OCI Load Balancers Hostname, if present.
- Delete OCI Load Balancers Hostname, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create a hostname named "ansible_hostname" in a load balancer
- name: Create Load Balancer Hostname
  oci_load_balancer_hostname:
    name: "ansible_hostname"
    load_balancer_id: "ocidl.loadbalancer.xxxxxEXAMPLExxxxx"
    hostname: "app.example.com"
    state: 'present'

# Update Load Balancer Hostname
- name: Update Load Balancer Hostname
  oci_load_balancer_backend_set:
    load_balancer_id: "ocidl.loadbalancer.xxxxxEXAMPLExxxxx"
    name: "ansible_hostname"
    hostname: "app.production.com"

# Deleted Load Balancer Hostname
- name: Delete Load Balancer Hostname
  oci_load_balancer_hostname:
    load_balancer_id: "ocidl.loadbalancer.xxxxxEXAMPLExxxxx"
    name: "ansible_hostname"
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.57 oci\_load\_balancer\_hostname\_facts - Fetch details of all hostnames of a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetch details of all hostnames of a load balancer.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch details of all hostname of a load balancer
- name: List all hostnames
  oci_load_balancer_hostname_facts:
    load_balancer_id: 'ocidl.loadbalancer.xxxxxEXAMPLExxxxx'

#Fetch details of a specific hostname in a load balancer
- name: List a specific hostname
  oci_load_balancer_hostname_facts:
    load_balancer_id: 'ocidl.loadbalancer.xxxxxEXAMPLExxxxx'
    name: 'ansible_hostname'
```



## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.58 oci\_load\_balancer\_listener - Add, modify and remove a listener from a backend set of a load balancer in OCI Load Balancing Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Add a listener to a backend set in a OCI Load Balancer
- Update a listener in a Load Balancer, if present, with any changed attribute
- Delete a listener from OCI Load Balancer Backends, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create Listener
- name: Create Listener
  oci_load_balancer_listener:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_listener"
    default_backend_set_name: "ansible_backend_set"
    protocol: "HTTP"
    port: 80
    ssl_configuration:
      certificate_name: 'certs1'
      verify_depth: 1
      verify_peer_certificate: True
    connection_configuration:
      idle_timeout: 1200
    state: 'present'
# Update Listener
- name: Update Listener Port
  oci_load_balancer_listener:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_listener"
    default_backend_set_name: "ansible_backend_set"
    protocol: "HTTP"
    port: 82
    state: 'present'

- name: Update Listener SSL Configuration
  oci_load_balancer_listener:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_listener"
    default_backend_set_name: "ansible_backend_set"
    protocol: "HTTP"
    port: 80
    ssl_configuration:
      certificate_name: 'certs2'
      verify_depth: 2
      verify_peer_certificate: False
    state: 'present'

- name: Update Listener Connection Configuration
  oci_load_balancer_listener:
    load_balancer_id: "ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_listener"
    default_backend_set_name: "ansible_backend_set"
    protocol: "HTTP"
    port: 80
```

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```

connection_configuration:
  idle_timeout: 1200
  state: 'present'

# Delete listener
- name: Delete Listener
  oci_load_balancer_listener:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_listener"
    state: 'absent'

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.59 oci\_load\_balancer\_listener\_facts - Fetch details of all listeners of a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*

- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetch details of all listeners of a load balancer.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch details of all listener of a load balancer
- name: List all Listeners
  oci_load_balancer_listener_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'

#Fetch details of a specific listener in a load balancer
- name: List a specific Listener
  oci_load_balancer_listener_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
    name: 'ansible_listener'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.60 oci\_load\_balancer\_path\_route\_set - Create, update and delete a path route set of a load balancer.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Create an OCI Load Balancer Path Route Set
- Update OCI Load Balancers Path Route Set, if present.
- Delete OCI Load Balancers Path Route Set, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create a backend set named "ansible_path_route_set" in a load balancer
- name: Create Load Balancer Path Route Set
  oci_load_balancer_path_route_set:
    name: "ansible_path_route_set"
    load_balancer_id: "ocidl1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    path_routes:
      - backend_set_name: "ansible_backend_set"
```

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```

        path: "/admin"
        path_match_type:
            match_type: 'EXACT_MATCH'
        state: 'present'

# Update Load Balancer Path Route Set
- name: Update Load Balancer Path Route Set
  oci_load_balancer_path_route_set:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_backend_set"
    path_routes:
      - backend_set_name: "ansible_backend_set"
        path: "/admin"
        path_match_type:
            match_type: 'FORCE_LONGEST_PREFIX_MATCH'
    state: 'present'

# Update Load Balancer Path Route Set by appending a new path route
- name: Update Load Balancer Path Route Set by appending a new path route
  oci_load_balancer_path_route_set:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_backend_set"
    path_routes:
      - backend_set_name: "ansible_backend_set"
        path: "/admin"
        path_match_type:
            match_type: 'FORCE_LONGEST_PREFIX_MATCH'
    purge_path_routes: False
    state: 'present'

# Delete Load Balancer Path Route Set
- name: Delete Load Balancer Path Route Set
  oci_load_balancer_path_route_set:
    load_balancer_id: "ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx"
    name: "ansible_path_route_set"
    state: 'absent'

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.61 oci\_load\_balancer\_path\_route\_set\_facts - Fetches details of path route set(s) that are associated with a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of all path route sets, or a specific path route set, that are associated with a load balancer.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch Load Balancer Path Route Set
- name: List all path route sets that are associated with a load balancer
  oci_load_balancer_path_route_set_facts:
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'

#Fetch specific Load Balancer Path Route Set
- name: List a specific Load Balancer Path Route Set
  oci_load_balancer_path_route_set_facts:
    name: 'ansible_path_route_set'
    load_balancer_id: 'ocid1.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.62 oci\_load\_balancer\_policy\_facts - Fetches details of all load balancer policies supported in the OCI Load Balancer Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of all load balancer policies supported in the OCI Load Balancer Service.



## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of policy of all load balancer
- name: List all Load Balancer Policy in a Compartment
  oci_load_balancer_policy_facts:
    compartment_id: 'ocidl.compartment..xcds'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta(@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.63 oci\_load\_balancer\_protocol\_facts - Fetches details of all the traffic protocols supported in the OCI Load Balancer Service.

New in version 2.5.

- *Synopsis*
  - *Requirements (on host that executes module)*
  - *Options*

- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of all the traffic protocols supported in the OCI Load Balancer Service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch details of protocol of all load balancer
- name: List all Load Balancer Protocol in a Compartment
  oci_load_balancer_protocol_facts:
    compartment_id: 'ocidl.compartment..xcds'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.64 oci\_load\_balancer\_shape\_facts - Fetches details of all valid load balancer shapes supported in the OCI Load Balancer Service.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Fetches details of all valid load balancer shapes supported in the OCI Load Balancer Service.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of shape of all load balancer
- name: List all Load Balancer shape in a Compartment
  oci_load_balancer_shape_facts:
    compartment_id: 'ocidl.compartment..xcds'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.65 oci\_load\_balancer\_work\_request\_facts - Fetch details of all work\_requests of a load balancer

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetch details of all work\_requests of a load balancer.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
#Fetch details of all Work Request of a Load Balancer
- name: List all Work Requests
  oci_load_balancer_work_request_facts:
    load_balancer_id: 'ocidl.loadbalancer.oc1.iad.xxxxxEXAMPLExxxxx'

#Fetch details of a specific Work Request in a Load Balancer
- name: List a specific Work Request
  oci_load_balancer_work_request_facts:
    work_request_id: 'ocidl.loadbalancerworkrequest.oc1.iad.
    ↳xxxxxEXAMPLExxxxx'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.66 oci\_object - Manage objects in OCI Object Storage Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Create, read, update or delete an object in OCI. This module allows the user to store a file as an object in OCI or download an object from OCI to a local file.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Create/upload an object
  oci_object:
    namespace: mynamespace
    bucket: mybucket
    object: mydata.txt
    src: /usr/local/myfile.txt
    opc_meta: {language: english}

- name: Get/download an object to a file
  oci_object:
    namespace: mynamespace
    bucket: mybucket
    object: key.txt
    dest: /usr/local/new_file.txt

- name: Avoid overwriting an existing file when downloading an object. The
  ↪task would fail if the local file pointed
  to by I(dest) already exists
  oci_object:
    namespace: mynamespace
    bucket: mybucket
    object: key.txt
    dest: /usr/local/myfile.txt
    force: false

- name: Delete an object
  oci_object:
    namespace: mynamespace
    bucket: mybucket
    object: key.txt
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.67 oci\_object\_facts - Retrieve details of an object or all the objects in a specific namespace and bucket in OCI Object Storage Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves details of an object or all the objects present in a specified namespace and bucket in OCI Object Storage Service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the objects in namespace 'mynamespace' and bucket
  ↪ 'mybucket'
  oci_object_facts:
    namespace: mynamespace
    bucket: mybucket

- name: Get details of a specific object
  oci_object_facts:
    name: mynamespace
    bucket: mybucket
    object: myobject
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.68 oci\_policy - Manage policies in OCI Identity and Access Management

New in version 2.5.



- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to create, delete and update policies in OCI Identity and Access Management service.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Create a policy
  oci_policy:
    name: mypolicy
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'
    description: 'GroupAdmins can add/remove users in Project-A compartment'
    statements: 'Allow group GroupAdmins to manage users in compartment_
↵Project-A'

- name: Update a policy
  oci_policy:
    id: ocidl.policy.oc1..xxxxxEXAMPLExxxxx
    name: mypolicy
    description: 'GroupAdmins can add/remove users in Project-A compartment'
    policy_document: '/home/ansible/samples/policy/trial_policy.txt'

- name: Delete a policy
  oci_policy:
    id: ocidl.policy.oc1..xxxxxEXAMPLExxxxx
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.69 oci\_policy\_facts - Retrieve details about a policy or policies attached to a compartment or tenancy in OCI Identity and Access Management service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves a specific policy or all the policies attached to a specified compartment in OCI Identity and Access Management service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get all the policies attached to a compartment or tenancy
  oci_policy_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'

- name: Get details of a specific policy
  oci_policy_facts:
    id: ocidl.policy.oc1..xxxxxEXAMPLExxxxx
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.70 oci\_private\_ip - Manage private IPs in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*

- *Author*
- *Status*

### Synopsis

- This module allows the user to create, delete and update private IPs in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a private IP
  oci_private_ip:
    display_name: 'ansible_private_ip'
    hostname_label: 'web'
    ip_address: '10.0.0.114'
    vnic_id: 'ocidl.vnic.oc1.iad.xxxxxEXAMPLExxxxx'

- name: Update a private IP
  oci_private_ip:
    private_ip_id: 'ocidl.privateip.oc1.iad.xxxxxEXAMPLExxxxx'
    hostname_label: 'db'

- name: Delete a private IP
  oci_private_ip:
    private_ip_id: 'ocidl.privateip.oc1.iad.xxxxxEXAMPLExxxxx'
    state: absent
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.71 oci\_private\_ip\_facts - Retrieve facts of private IPs

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves information of a specified private IP or lists all the private IPs in a subnet.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get all the private IPs
  oci_private_ip_facts:
    subnet_id: ocid1.subnet.oc1.iad.xxxxxEXAMPLExxxxx

- name: Get a specific private IP
  oci_private_ip_facts:
    private_ip_id: ocid1.privateip.oc1.iad.xxxxxEXAMPLExxxxx
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.72 oci\_public\_ip - Manage public IPs in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to create, delete and update public IPs in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```

- name: Create a public IP with lifetime as RESERVED
  oci_public_ip:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    display_name: ansible_public_ip
    lifetime: RESERVED

- name: Create a public IP with lifetime as EPHEMERAL
  oci_public_ip:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    display_name: ansible_public_ip
    lifetime: EPHEMERAL
    private_ip_id: ocidl.privateip.oc1.iad.xxxxxEXAMPLExxxxx

- name: Assign a reserved public IP to a private IP
  oci_public_ip:
    id: ocidl.publicip.oc1.iad.xxxxxEXAMPLExxxxx
    private_ip_id: ocidl.privateip.oc1.iad.xxxxxEXAMPLExxxxx

- name: Unassign a reserved public IP from a private IP by passing an empty_
  ↪string
  oci_public_ip:
    id: ocidl.publicip.oc1.iad.xxxxxEXAMPLExxxxx
    private_ip_id: ""

- name: Delete a public IP
  oci_public_ip:
    id: ocidl.publicip.oc1.iad.xxxxxEXAMPLExxxxx
    state: absent

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.73 oci\_public\_ip\_facts - Retrieve facts of public IPs

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- This module retrieves information of the specified public IP or all public IPs in the specified compartment.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
- name: Get all the reserved public IPs in a compartment
  oci_public_ip_facts:
    scope: REGION
    compartment_id: ocid1.compartment.oc1..xxxxxEXAMPLExxxxx

- name: Get all the ephemeral public IPs in a compartment and availability_
  ↪domain
  oci_public_ip_facts:
    scope: AVAILABILITY_DOMAIN
    compartment_id: ocid1.compartment.oc1..xxxxxEXAMPLExxxxx
    availability_domain: "BnQb:PHX-AD-1"

- name: Get a specific public IP using its OCID
  oci_public_ip_facts:
    public_ip_id: ocid1.publicip.oc1.iad..xxxxxEXAMPLExxxxx
```

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```

- name: Get a specific public IP using the OCID of the private IP to which
  ↪it is assigned
  oci_public_ip_facts:
    private_ip_id: ocid1.privateip.oc1.iad.xxxxxEXAMPLExxxxx

- name: Get a specific public IP using its public IP address
  oci_public_ip_facts:
    ip_address: 129.146.2.1

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.74 oci\_region\_facts - Retrieve details about all Regions offered by Oracle Cloud Infrastructure

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*

– *Status*

---

### Synopsis

- This module retrieves details about all Regions offered by Oracle Cloud Infrastructure.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all regions offered by OCI
  oci_region_facts:
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.75 oci\_region\_subscription\_facts - Retrieve details of the region subscriptions for the specified tenancy.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- This module retrieves details about the region subscriptions of the specified tenancy in Oracle Cloud Infrastructure.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
- name: Get region subscription details of the specified tenancy
  oci_region_subscription_facts:
    id: "ocidl1.tenancy.ocl..xxxxxxEXAMPLExxxxxx...o244pucq"
```

#### Return Values

Common return values are documented here, the following are the fields unique to this module:

#### Notes

---

##### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
-

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.76 oci\_route\_table - Create,update and delete OCI Route Table

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Creates OCI Route Table
- Update OCI Route Table, if present, with a new display name
- Update OCI Route Table, if present, by appending new Route Rules to existing Route Rules
- Update OCI Route Table, if present, by purging existing Route Rules and replacing them with specified ones
- Delete OCI Route Table, if present.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.
# Create/update Route Table
- name: Create a Route Table with a route rule
  oci_route_table:
    compartment_id: 'ocidl.compartment..xdsc'
    vcn_id: 'ocidl.vcn..aaaa'
    name: 'ansible_route_table'
    route_rules:
      - cidr_block: '10.0.0.0/8'
        network_entity_id: 'ocidl.internetgateway..rrrr'
    freeform_tags:
      region: 'east'
    defined_tags:
      features:
        capacity: 'medium'
    state: 'present'

# Update Route Table with rt id
- name: Update the display name of a Route Table
  oci_route_table:
    rt_id: 'ocidl.routetable..xdsc'
    display_name: 'ansible_route_table_updated'
    state: 'present'

# Update a route table with a new set of route rules,
# and purge any existing route rules that is not in the
# specified set of route rules.
- name: Update a Route Table with purge route rules
  oci_route_table:
    rt_id: 'ocidl.routetable..xdsc'
    purge_route_rules: 'yes'
    route_rules:
      - cidr_block: '10.0.0.0/12'
        network_entity_id: 'ocidl.internetgateway..abcd'
    state: 'present'

# Delete Route Table
- name: Delete Route Table
  oci_route_table:
    rt_id: 'ocidl.routetable..xdsc'
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

### 5.1.77 oci\_route\_table\_facts - Fetches details of a specific Route Table or a list of Route tables in the specified VCN and compartment

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of a specific Route Table or a list of Route tables in the specified VCN and compartment.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Fetch details of all route tables in the specified compartment and VCN
- name: List Route Table
  oci_route_table_facts:
    compartment_id: 'ocidl.compartment..xcds'
    vcn_id: 'ocidl.vcn..dfxs'

#Fetch specific Route Table
- name: List a specific Route Table
  oci_route_table_facts::
    id: 'ocidl.routetable..xcds'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.78 oci\_security\_list - Create,update and delete OCI Security List

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Creates OCI Security List
- Update OCI Security List, if present, with a new display name
- Update OCI Security List, if present, with ingress/egress security rules
- Delete OCI Security List, if present.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
# Note: These examples do not set authentication details.
# Create/update Security List
- name: Create a security list with rules
  oci_security_list:
    name: 'ansible_sec_list'
    compartment_id: 'ocid.comprtment..aa'
    vcn_id: 'ocidl.vcn..aa'
    state: 'present'
    freeform_tags:
      region: 'east'
    defined_tags:
      features:
        capacity: 'medium'
    ingress_security_rules:
      - source: '0.0.0.0/0'
        is_stateless: False
        protocol: '6'
        tcp_options:
          destination_port_range:
            min: '22'
            max: '22'
      - source: '0.0.0.0/0'
        is_stateless: False
        protocol: '1'
        icmp_options:
          code: 4
          type: 3
    egress_security_rules:
```

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```

    - destination: '0.0.0.0/0'
      protocol: 'all'

- name: Update a security list by purging existing ingress rules
  oci_security_list:
    security_list_id: 'ocidl.securitylist.aa'
    ingress_security_rules:
      - source: '10.0.0.0/8'
        is_stateless: False
        protocol: '6'
        tcp_options:
          destination_port_range:
            min: '25'
            max: '30'
    purge_security_rules: 'yes'
    state: 'present'

# Delete a security list
- name: Delete a security list
  oci_security_list:
    id: 'ocidl.securitylist.aa'
    state: 'absent'

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.79 oci\_security\_list\_facts - Fetches details of a specific Security List or a list of Security Lists in the specified VCN and compartment

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of a specific Security List or a list of Security Lists in the specified VCN and compartment.oc

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
# Note: These examples do not set authentication details.
# Get information about all Security List
- name: Get information about all security list within a vcn and compartment
  oci_security_list_facts:
    compartment_id: 'ocid.compartment..aa'
    vcn_id: 'ocid.vcn..aa'

# Get information about a specific Security List
- name: Get information about security list by id
  oci_security_list_facts:
    id: 'ocidl.securitylist.aa'
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.80 oci\_shape\_facts - Retrieve details about shapes that can be used to launch instances in OCI Compute Service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves details about shapes that can be used to launch instances within a specified Compartment in OCI Compute Service.

## Requirements (on host that executes module)

- python  $\geq$  2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get details of all the shapes available to a Tenancy
  oci_shape_facts:
    compartment_id: 'ocidv1:tenancy:oc1:phx:xxxxxEXAMPLExxxxx....uyty4'
- name: Get details of all the shapes of a specific compartment in an
  ↪Availability Domain
  oci_shape_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq'
    availability_domain: "BnQb:PHX-AD-1"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.81 oci\_subnet - Manage subnets in a VCN in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to create, delete and update subnets in a VCN in OCI.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Create a subnet
  oci_subnet:
    availability_domain: BnQb:PHX-AD-1
    cidr_block: 10.0.1.0/24
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    prohibit_public_ip_on_vnic: true
    vcn_id: ocidl.vcn.oc1.phx.xxxxxEXAMPLExxxxx

- name: Update a subnet
  oci_subnet:
    display_name: ansible_subnet
    subnet_id: ocidl.subnet.oc1.phx.xxxxxEXAMPLExxxxx

- name: Delete a subnet
  oci_subnet:
    subnet_id: ocidl.subnet.oc1.phx.xxxxxEXAMPLExxxxx
    state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.82 oci\_subnet\_facts - Retrieve facts of subnets

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to retrieve information of the specified subnet or all the subnets in the specified VCN and the specified compartment.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get all the subnets in the specified VCN and the specified_
  ↪compartment
  oci_subnet_facts:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    vcn_id: ocidl.vcn.oc1.phx..xxxxxEXAMPLExxxxx

- name: Get a specific subnet
  oci_subnet_facts:
    subnet_id: ocidl.subnet.oc1.phx..xxxxxEXAMPLExxxxx
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.83 oci\_swift\_password - Create, update and delete Swift (OpenStack Object Store Service) passwords in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to create, update and delete Swift passwords in OCI. Swift is the OpenStack object storage service. A SwiftPassword is an Oracle-provided password for using a Swift client with the Oracle Cloud Infrastructure Object Storage Service. This password is associated with the user's Console login. Swift passwords never expire. A user can have up to two Swift passwords at a time. Note: The password is always an Oracle-generated string; you can't change it to a string of your choice.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a new swift password
  oci_swift_password:
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    description: "my first swift password"

- name: Update a swift password's description
  oci_swift_password:
    id: "ocidl.credential.oc1..xxxxxEXAMPLExxxxx"
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    description: "swift password #1"

- name: Delete a swift password
  oci_swift_password:
    id: "ocidl.credential.oc1..xxxxxEXAMPLExxxxx"
    user_id: "ocidl.user.oc1..xxxxxEXAMPLExxxxx"
    state: "absent"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).



## 5.1.84 oci\_swift\_password\_facts - Retrieve details of swift passwords for a specified user

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves details of swift passwords of a specified user. The returned object contains the swift password's OCID, but not the password itself. The actual password is returned only upon creation of a swift password using the *oci\_swift\_password* module.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the swift passwords of the specified user
  oci_swift_password_facts:
    user_id: "ocid1.user.oc1..xxxxxEXAMPLExxxxx"

- name: Get details of a specific swift password of a user
  oci_swift_password_facts:
    user_id: "ocid1.user.oc1..xxxxxEXAMPLExxxxx"
    id: "ocid1.credential.oc1..xxxxxEXAMPLExxxxx"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.85 oci\_tag - Create, retire and reactivate tag key definitions in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to create, retire and reactivate tag key definitions in OCI. A key definition defines the schema of a tag and includes a namespace, tag key, and tag value type. Currently the only tag value type supported is “string”, and hence is not specified during creation. Defined tag keys are case insensitive. However note that defined tag values are case sensitive.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Create a new tag key definition
  oci_tag:
    tag_namespace_id: "ocidl.tagdefinition.oc1..xxxxxEXAMPLExxxxx"
    name: "CostCenter"
    description: "This tag will show the cost center that will be used for
↵billing of resources."

- name: Update the description of a tag definition
  oci_tag:
    tag_namespace_id: "ocidl.tagdefinition.oc1..xxxxxEXAMPLExxxxx"
    name: "CostCenter"
    description: "Tags used for cost center"

- name: Retire a tag key definition
  oci_tag:
    tag_namespace_id: "ocidl.tagdefinition.oc1..xxxxxEXAMPLExxxxx"
    name: "CostCenter"
    state: "absent"

- name: To reactivate a retired namespace
  oci_tag:
    tag_namespace_id: "ocidl.tagdefinition.oc1..xxxxxEXAMPLExxxxx"
    name: "CostCenter"
    reactivate: "yes"
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../../community`, `../../dev_guide/testing` and `../../dev_guide/developing_modules`.

## 5.1.86 oci\_tag\_facts - Retrieve details of tag key definitions for a specified tag namespace in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves details of all tag key definitions of a specified tag namespace, or a specific tag key definition in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the tag key definitions of the specified tag_
↪namespace
  oci_tag_facts:
    tag_namespace_id: "ocidl1.tagnamespace.oc1..xxxxxEXAMPLExxxxx"

- name: Get details of a specific tag key definition
  oci_tag_facts:
    tag_namespace_id: "ocidl1.tagnamespace.oc1..xxxxxEXAMPLExxxxx"
    name: "CostCenter"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.87 oci\_tag\_namespace - Create, retire and reactivate tag namespaces in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to create, retire and reactivate tag namespaces in OCI. A tag namespace is a container for tag keys. It consists of a name, and zero or more tag key definitions. Tag namespaces are not case sensitive, and must be unique across the tenancy.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a new tag namespace
  oci_tag_namespace:
    compartment_id: "ocidl.compartment.oc1..xxxxxEXAMPLExxxxx"
    name: "BillingTags"
    description: "This namespace contains tags that will be used in billing."

- name: Update the description of a tag namespace
  oci_tag_namespace:
    id: "ocidl.namespace.oc1..xxxxxEXAMPLExxxxx"
    description: "Tags used for billing"

- name: Retire a tag namespace
  oci_tag_namespace:
    id: "ocidl.namespace.oc1..xxxxxEXAMPLExxxxx"
    state: "absent"

- name: To reactivate a retired namespace
  oci_tag_namespace:
    id: "ocidl.namespace.oc1..xxxxxEXAMPLExxxxx"
    reactivate: "yes"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.88 oci\_tag\_namespace\_facts - Retrieve details of tag namespaces for a specified compartment or tenancy in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves details of tag namespaces of a specified tenancy or compartment in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get details of all the tag namespaces of the specified user
  oci_tag_namespace_facts:
    compartment_id: "ocidl.tenancy.oc1..xxxxxEXAMPLExxxxx"

- name: Get details of a specific tag namespace
  oci_tag_namespace_facts:
    id: "ocidl.namespace.oc1..xxxxxEXAMPLExxxxx"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

**Note:**

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Sivakumar Thyagarajan (@sivakumart)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.89 oci\_tenancy\_facts - Retrieve details about a tenancy in Oracle Cloud Infrastructure

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves details about a tenancy in Oracle Cloud Infrastructure.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>



## Options

## Examples

```
- name: Get details of the specified tenancy
  oci_tenancy_facts:
    id: "ocidl.tenancy.ocl..xxxxxxEXAMPLExxxxxx...o244pucq"
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.90 oci\_user - Create,update and delete OCI user with specified group associations

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- Creates OCI user, if not present, without any group associations
- Creates OCI user, if not present, with ui password
- Creates OCI user, if not present, with specified group associations
- Update OCI user, if present, with a new description
- Update OCI user, if present, with new group(s) associations
- Update OCI user, if present, removing all group associations
- Update OCI user, if present, and reset the ui password of the user
- Unblock a blocked user
- Delete OCI user, if present.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
# Note: These examples do not set authentication details.

# User creation or update
- name: Create User with ui password and group memberships
  oci_user:
    name: 'ansible_user'
    description: 'Ansible User'
    user_groups: ['ansible_group_A']
    freeform_tags:
      user_type: 'admin'
    defined_tags:
      department:
        division: 'engineering'
    create_or_reset_ui_password: 'on_create'
    state: 'present'

- name: Create user without group memberships
  oci_user:
    name: 'ansible_user'
    description: 'Ansible User'
    create_or_reset_ui_password: 'yes'
    state: 'present'

- name: Reset ui password of an existing user
  oci_user:
    id: 'ocidl.user..abuwd'
    create_or_reset_ui_password: 'always'
    state: 'present'
```

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```
- name: Unblock User
oci_user:
  id: 'ocidl.user..abuwd'
  blocked: 'no'
  state: 'present'
register: result

- name: Update user with removing all group memberships
oci_user:
  id: 'ocidl.user..abuwd'
  description: 'Ansible User'
  user_groups: []
  state: 'present'

- name: Update user by replacing group memberships, after this
      operation user would become member of ansible_group_B
oci_user:
  user_id: "ocidl.user..abuwd"
  description: 'Ansible User'
  purge_group_memberships: 'yes'
  user_groups: ['ansible_group_B']
  create_or_reset_ui_password: 'yes'
  state: 'present'

# Delete group
- name: Delete user with no force
oci_user:
  id: 'ocidl.user..abuwd'
  state: 'absent'

- name: Delete user with force
oci_user:
  user_id: 'ocidl.user..abuwd'
  force: 'yes'
  state: 'absent'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.91 oci\_user\_facts - Fetches details of all the OCI users of a tenancy and their group memberships

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- Fetches details of all the OCI users of a tenancy and the group memberships.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
#Fetch users filtered by user id
- name: List user filtered by user id
  oci_user_facts:
    user_id: 'ocid1.user.oc1..xxxxxEXAMPLExxxxx'

#Fetch all existing users
- name: List all existing users
  oci_user_facts:
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Debayan Gupta (@debayan\_gupta)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.92 oci\_vcn - Manage Virtual Cloud Networks(VCN) in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to create, delete and update virtual cloud networks(VCNs) in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a VCN
  oci_vcn:
    cidr_block: '10.0.0.0/16'
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'
    display_name: my_vcn
    dns_label: ansiblevcn

- name: Updates the specified VCN's display name
  oci_vcn:
    vcn_id: ocidl.vcn.oc1.phx.xxxxxEXAMPLExxxxx
    display_name: ansible_vcn

- name: Delete the specified VCN
  oci_vcn:
    vcn_id: ocidl.vcn.oc1.phx.xxxxxEXAMPLExxxxx
    state: absent
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

### 5.1.93 oci\_vcn\_facts - Retrieve facts of Virtual Cloud Networks(VCNs)

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

#### Synopsis

- This module retrieves information of a specified virtual cloud network(VCN) or lists all the VCNs in the specified compartment.

#### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

#### Options

#### Examples

```
- name: Get all the VCNs in a compartment
  oci_vcn_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx'

- name: Get a specific VCN
  oci_vcn_facts:
    vcn_id: ocidl.vcn.oc1.phx.xxxxxEXAMPLExxxxx
```

#### Return Values

Common return values are documented here, the following are the fields unique to this module:

#### Notes

---

**Note:**

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.94 oci\_vnic - Update a VNIC

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to update a specified VNIC. To create a primary VNIC, use `oci_instance`. To create a secondary VNIC and attach it to an instance, use `oci_vnic_attachment`.

### Requirements (on host that executes module)

- python  $\geq$  2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>



## Options

## Examples

```
- name: Update the specified VNIC with a new name
  oci_vnic:
    id: "ocidl.vnicattachment.oc1.phx.xxxxxEXAMPLExxxxx...yicxjzgyhf47fq"
    name: sec-vnic1-to-instance1

- name: Update the specified VNIC with a new hostname_label
  oci_vnic:
    id: "ocidl.vnicattachment.oc1.phx.xxxxxEXAMPLExxxxx...yicxjzgyhf47fq"
    hostname_label: "newhostname"
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.95 oci\_vnic\_attachment - Create a secondary VNIC and attach it to a compute instance, detach or delete VNIC attachments from a compute instance.

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*

- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to create a secondary VNIC and attach it to a compute instance, detach a secondary VNIC attachment from a compute instance, and delete the secondary VNIC.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a new secondary VNIC and attach it to the specified compute_
↪instance
  oci_vnic_attachment:
    name: sec-vnic1-to-instance1
    instance_id: "ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx...dszaitd3da"
    nicindex: 1
    vnic:
      hostname_label: "myinstance1_1"
      private_ip: "10.0.0.6"
      subnet_id: "ocidl.subnet.oc1.phx.xxxxxEXAMPLExxxxx...5iddusmpqpaoa"

- name: Detach a secondary VNIC from an instance and delete the VNIC
  oci_vnic_attachment:
    id: "ocidl.vnic.oc1.phx.xxxxxEXAMPLExxxxx...lxsadsadgdq"
    state: "absent"
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
-

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.96 oci\_vnic\_attachment\_facts - Retrieve details about one or more VNIC attachments in the specified compartment

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves details about a VNIC attachment, or all VNIC attachments in a specified Compartment in OCI Compute Service. A VNIC attachment resides in the same compartment as the attached instance.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get details of all the VNIC attachments in a specified compartment
  oci_vnic_attachment_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq'
```

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```
- name: Get VNIC attachments of a specific instance
  oci_vnic_attachment_facts:
    compartment_id: 'ocidl.compartment.oc1..xxxxxEXAMPLExxxxx...vm62xq'
    instance_id: 'ocidl.image.oc1.phx.xxxxxEXAMPLExxxxx...lxiggdq'

- name: Get details of a specific VNIC attachment
  oci_vnic_attachment_facts:
    id: 'ocidl.vnic.oc1..xxxxxEXAMPLExxxxx...vm62asdaxq'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.97 oci\_vnic\_facts - Retrieve details about a specific VNIC

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*

– Status

## Synopsis

- This module retrieves details about a specific VNIC.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get details of a specific VNIC
  oci_vnic_facts:
    id: 'ocidl.vnic.oc1..xxxxxxEXAMPLExxxxx...vm62xq'
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Sivakumar Thyagarajan (@sivakumart)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.98 oci\_volume - Manage volumes in OCI Block Volume service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to perform create, delete & update operations on volumes in OCI Block Volume service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Create a volume
  oci_volume:
    availability_domain: IwGV:US-ASHBURN-AD-2
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    name: ansible_volume
    wait: no

- name: Create a clone of an existing volume
  oci_volume:
    availability_domain: IwGV:US-ASHBURN-AD-2
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    name: ansible_volume
    source_details:
      id: ocidl.volume.oc1.iad.xxxxxEXAMPLExxxxx
      type: volume
    wait_for_copy: yes
    copy_timeout: 900

- name: Create a volume and initialize it from a backup
```

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```

oci_volume:
  availability_domain: IwGV:US-ASHBURN-AD-2
  compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
  name: ansible_volume
  source_details:
    id: ocidl.volumebackup.oc1.iad.xxxxxxEXAMPLExxxxx
    type: volumeBackup
- name: Update a volume
  oci_volume:
    name: ansible_test_volume
    volume_id: ocidl.volume.oc1.iad.xxxxxxEXAMPLExxxxx
- name: Delete a volume
  oci_volume:
    volume_id: ocidl.volume.oc1.iad.xxxxxxEXAMPLExxxxx
    state: 'absent'

```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.99 oci\_volume\_attachment - Attach or detach a volume in OCI Block Volume service

New in version 2.5.

- *Synopsis*

- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module allows the user to attach a volume to an instance or detach a volume from an instance in OCI.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Attach a volume to an instance
  oci_volume_attachment:
    instance_id: ocid1.instance.oc1.phx.xxxxxEXAMPLExxxxx
    type: iscsi
    volume_id: ocid1.volume.oc1.phx.xxxxxEXAMPLExxxxx

- name: Detach a volume from an instance
  oci_volume_attachment:
    volume_attachment_id: ocid1.volumeattachment.oc1.phx.xxxxxEXAMPLExxxxx
    state: absent
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
-



## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.100 oci\_volume\_attachment\_facts - Retrieve facts of volume attachments in OCI

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module retrieves information of a specified volume attachment or all the volume attachments in a specified compartment.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get information of all volume attachments in a compartment
  oci_volume_attachment_facts:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
```

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```
- name: Get volume attachment information for a specified compartment &
↪instance
  oci_volume_attachment_facts:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    instance_id: ocidl.instance.oc1.phx.xxxxxEXAMPLExxxxx

- name: Get volume attachment information for a specified compartment &
↪block volume
  oci_volume_attachment_facts:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx
    volume_id: ocidl.volume.oc1.phx.xxxxxEXAMPLExxxxx

- name: Get information of a specific volume attachment
  oci_volume_attachment:
    volume_attachment_id: ocidl.volumeattachment.oc1.phx.xxxxxEXAMPLExxxxx
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read `../community`, `../dev_guide/testing` and `../dev_guide/developing_modules`.

## 5.1.101 oci\_volume\_backup - Manage volume backups in OCI Block Volume service

New in version 2.5.

- *Synopsis*
  - *Requirements (on host that executes module)*

- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

## Synopsis

- This module allows the user to perform create, delete & update operations on volume backups in OCI Block Volume service.

## Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Create a volume backup
  oci_volume_backup:
    name: my_backup
    volume_id: ocid1.volume.oc1.iad.xxxxxEXAMPLExxxxx
    wait_until: CREATING

- name: Forcefully ensure non-idempotent volume backup creation
  oci_volume_backup:
    name: my_backup
    volume_id: ocid1.volume.oc1.iad.xxxxxEXAMPLExxxxx
    force_create: True

- name: Update name of a volume backup
  oci_volume_backup:
    name: test_backup
    id: ocid1.volumebackup.oc1.iad.xxxxxEXAMPLExxxxx

- name: Delete a volume backup
  oci_volume_backup:
    id: ocid1.volumebackup.oc1.iad.xxxxxEXAMPLExxxxx
    state: absent
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

### Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.102 oci\_volume\_backup\_facts - Retrieve facts of volume backups in OCI Block Volume service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*
  - *Author*
  - *Status*

### Synopsis

- This module retrieves information of a specified volume backup or all the volume backups in a compartment in OCI Block Volume service.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

## Options

## Examples

```
- name: Get information of all the volume backups in a compartment
  oci_volume_backup_facts:
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx

- name: Get information of a volume backup
  oci_volume_backup_facts:
    id: ocidl.volumebackup.oc1.iad.xxxxxEXAMPLExxxxx
```

## Return Values

Common return values are documented here, the following are the fields unique to this module:

## Notes

---

### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

## Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

## 5.1.103 oci\_volume\_facts - Retrieve facts of volumes in OCI Block Volume service

New in version 2.5.

- *Synopsis*
- *Requirements (on host that executes module)*
- *Options*
- *Examples*
- *Return Values*
- *Notes*

- *Author*
- *Status*

### Synopsis

- This module retrieves information of a specified volume or all the volumes in a specified compartment and availability domain.

### Requirements (on host that executes module)

- python >= 2.6
- Python SDK for Oracle Cloud Infrastructure <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io>

### Options

### Examples

```
- name: Get information of all the volumes for a specific availability_
  ↪domain & compartment_id
  oci_volume_facts:
    availability_domain: BnQb:PHX-AD-1
    compartment_id: ocidl.compartment.oc1..xxxxxEXAMPLExxxxx

- name: Get information of a volume
  oci_volume_facts:
    volume_id: ocidl.volume.oc1.phx.xxxxxEXAMPLExxxxx
```

### Return Values

Common return values are documented here, the following are the fields unique to this module:

### Notes

---

#### Note:

- For OCI python sdk configuration, please refer to <https://oracle-cloud-infrastructure-python-sdk.readthedocs.io/en/latest/configuration.html>
- 

### Author

- Rohit Chaware (@rohitChaware)

## Status

This module is flagged as **preview** which means that it is not guaranteed to have a backwards compatible interface.

For help in developing on modules, should you be so inclined, please read [../community](#), [../dev\\_guide/testing](#) and [../dev\\_guide/developing\\_modules](#).

---

### Note:

- **(D)**: This marks a module as deprecated, which means a module is kept for backwards compatibility but usage is discouraged. The module documentation details page may explain more about this rationale.
- 

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