


Dell EMC OpenManage Ansible Modules

Version 3.0.0

Installation Guide

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

Dell EMC OpenManage Ansible Modules

Version 3.0.0

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Overview

Dell EMC OpenManage Ansible Modules allows data center and IT administrators to use RedHat Ansible to automate and orchestrate the configuration, deployment, and update of Dell EMC PowerEdge Servers and modular infrastructure by leveraging the management automation capabilities in-built into the Integrated Dell Remote Access Controller (iDRAC), OpenManage Enterprise and OpenManage Enterprise Modular.

OpenManage Ansible Modules simplify and automate provisioning, deployment, and update of PowerEdge servers and modular infrastructure. It allows system administrators and software developers to introduce the physical infrastructure provisioning into their software provisioning stack, integrate with existing DevOps pipelines and manage their infrastructure using version-controlled playbooks, server configuration profiles, and templates in line with the **Infrastructure-as-Code** (IaC) principles.

This installation guide provides information about installation and uninstallation of Dell EMC OpenManage Ansible Modules.

The latest stable version of OpenManage Ansible Modules is available at dell.com/support. In addition to dell.com/support, you can download OpenManage Ansible modules from [GitHub](https://github.com). Dell EMC supports modules that are downloaded from this GitHub location only.

Topics:

- [Prerequisites](#)
- [OpenManage Ansible Modules support matrix](#)

Prerequisites

Following are the requirements to install Dell EMC OpenManage Ansible Modules:

- Ensure that you install any Ansible version between 2.8.4 to 2.9.15.
- Ensure that you install Python version 2.7.17 and later or 3.6.5 and later.

To run the iDRAC modules, install OpenManage Python Software Development Kit (OMSDK) using `pip install omsdk --upgrade` or from <https://github.com/dell/omsdk>

NOTE: In the iDRAC9 based PowerEdge Servers, WSMAN runs as non-root user and you must set 777 as a permission on the share to access the files.

NOTE: It is recommended to update the Ansible configuration setting environment variables to point to the current module paths, if any.

NOTE: Modules are installed directly to the custom path if it was set using the `ANSIBLE_LIBRARY` environment.

OpenManage Ansible Modules support matrix

Table 1. Control Machine Requirements

Python Version	Supported Operating System
2.7.17 and later or 3.6.5 and later	<ul style="list-style-type: none"> • Red Hat Enterprise Linux (RHEL) 8.2 • SLES 15 SP1 • Ubuntu 20.04

For managed node, the following iDRAC firmware versions are supported:

- 2.60.60.60 and above on supported families of PowerEdge servers
- 3.34.34.34 and above on supported families of PowerEdge servers

Dell EMC OpenManage Enterprise version 3.2.1 and above, and Dell EMC OpenManage Enterprise-Modular versions 1.20.00 and above are supported.

Installing Dell EMC OpenManage Ansible Modules version 3.0.0

You can install OpenManage Ansible Modules version 3.0.0 in three different ways. If the Ansible version is 2.9.x and lower, download the modules from the Dell support site or GitHub. If the Ansible version is 2.10.x and higher, download the modules from Ansible Galaxy.

Topics:

- [Install Dell EMC OpenManage Ansible Modules from Dell support site](#)
- [Installing Dell EMC OpenManage Ansible Modules version 3.0.0 from GitHub](#)
- [Installing Dell EMC OpenManage Ansible modules version 3.0.0 from Ansible Galaxy](#)

Install Dell EMC OpenManage Ansible Modules from Dell support site

1. Go to Dell.com/Support.
2. Perform one of the following actions:
 - Enter the Service Tag of your Dell EMC PowerEdge device, and then click **Search**.
 - Select **Browse all products > Servers > PowerEdge**, and select the appropriate model of your PowerEdge device.
3. On the support page of your PowerEdge device, select **Drivers & Downloads**.
4. In the **Category** list, select **Systems Management**.
The supported version of OpenManage Ansible Modules is displayed.
5. Download the `dellemc-openmanage-4.0.0_A00.tar.gz` file.
6. Copy the file to any local directory of **Ansible Controller Machine**.
7. Run `ansible-galaxy collection install dellemc-openmanage-4.0.0_A00.tar.gz`.

 **NOTE:** For the force installation of the OpenManage Ansible collection, add **-f** at the end of the commands.

8. Run the following command to confirm if the Dell EMC OpenManage collection is installed:

```
ansible-galaxy collection list dellemc.openmanage
```

Dell EMC OpenManage Ansible Modules version 4.0.0 is installed successfully. You can view the collections in the following path:

```
~/.ansible/collections/ansible_collections/dellemc/openmanage/
```

Installing Dell EMC OpenManage Ansible Modules version 3.0.0 from GitHub

If you want to take advantage of the new features when they are implemented, then you can go to the GitHub repository using the given steps. You can either clone the repository or download a specific release.

- To install the latest development version:

```
# Clone the development branch
git clone https://github.com/dell/dellemc-openmanage-ansible-modules

cd dellemc-openmanage-ansible-modules
```

```
# Install the modules. Run the below command using the sudo or super-user privileges if Ansible is installed using root permission.
python install.py
```

NOTE: If previous version of Dell EMC OpenManage Ansible Modules is installed, you are prompted with an upgrade message. Press **Y** to upgrade to the latest version.

- To install a specific release:

```
# Clone v3.0.0 release version
git clone -b v3.0.0 --single-branch https://github.com/dell/dellemc-openmanage-ansible-modules

cd dellemc-openmanage-ansible-modules

# Install the modules. Run the below command using the sudo or super-user privileges if Ansible is installed using root permission.
python install.py
```

NOTE: If previous version of Dell EMC OpenManage Ansible Modules is installed, you are prompted with an upgrade message. Press **Y** to upgrade to the latest version.

NOTE: The above example clones the v3.0.0 release.

NOTE: The script overwrites modules present in the `remote_management/dellemc` folder with the updated versions.

Installing Dell EMC OpenManage Ansible modules version 3.0.0 from Ansible Galaxy

The latest Dell EMC OpenManage Ansible Modules are available on Ansible Galaxy as a collection. To install the OMAM collection, see [dellemc.openmanage](#). The collection branch is available [here](#).

NOTE: Ansible collection does not support uninstallation command at this point. In order to uninstall the OMAM collection, the collection needs to be manually deleted from the installed location.

Uninstalling Dell EMC OpenManage Ansible Modules version 3.0.0

You can uninstall OpenManage Ansible Modules version 3.0.0 in two different ways based on the location you have downloaded it from.

Topics:

- [Uninstalling Dell EMC OpenManage Ansible Modules version 3.0.0 when downloaded from Dell support site](#)
- [Uninstalling Dell EMC OpenManage Ansible Modules version 3.0.0 when downloaded from GitHub](#)

Uninstalling Dell EMC OpenManage Ansible Modules version 3.0.0 when downloaded from Dell support site

To uninstall Dell EMC OpenManage Ansible Modules version 3.0.0 when downloaded from the Dell support site:

1. Navigate to the directory **DellEMC_OpenManage_Ansible_Modules_version_3.0.0_A00**.
2. Run `python uninstall.py`. If you are using python version 3.x, then run `python3 uninstall.py`.

Dell EMC OpenManage Ansible Modules are uninstalled successfully.

Uninstalling Dell EMC OpenManage Ansible Modules version 3.0.0 when downloaded from GitHub

To uninstall Dell EMC OpenManage Ansible Modules version 3.0.0 when downloaded from GitHub:

1. Navigate to the directory `dellemc-openmanage-ansible-modules`.
2. Run `python uninstall.py`. If you are using python version 3.x, then run `python3 uninstall.py`.

Dell EMC OpenManage Ansible Modules are uninstalled successfully.