Dell EMC OpenManage Ansible Modules

Version 2.0 User's Guide

DELL EMC

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

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Contents

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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 (12th generation of PowerEdge servers and later) and modular infrastructure by leveraging the management automation capabilities in-built into the Integrated Dell Remote Access Controller (iDRAC) and OpenManage Enterprise (OME) respectively.

With the latest release of Dell EMC OpenManage Ansible Modules, the capabilities have improved with support for OpenManage Enterprise. OpenManage Ansible Modules simplifies and automates provisioning, deployment, and updates 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 user guide provides information about using **Dell EMC OpenManage Ansible Modules** and its different use cases.

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

Topics:

Key Features

The key features in OpenManage Ansible Modules are:

- Support for creating, modifying or deleting a user account.
- Perform the supported power state management operations on devices managed by OME.
- Support for creating, modifying or deploying a template.
- Get the list and details of all user accounts or of a specific account.
- Get the list and details of templates or of a specific template.
- Support for firmware update of PowerEdge devices and all its components.
- Support for retrieving job details for a given job ID or the entire job queue.
- Support for retrieving the list of all devices with the exhaustive inventory of each device.
- Export a server configuration profile (SCP) containing either the entire server configuration or component level configuration (iDRAC, BIOS, RAID, NIC) to a local file path on Ansible controller or a remote network share.
- Import an SCP from a local file path on Ansible controller or a remote network share.
- Support for configuration of BIOS, Integrated Dell Remote Access Controller (iDRAC), NIC, and RAID.
- Support for firmware update using a Firmware Repository hosted on a remote network share.
- Support for viewing firmware inventory details.
- Support for Windows, Linux, and ESXi operating system deployments.
- Support for configuring power controls, resetting iDRAC, viewing Lifecycle Controller (LC) job status, deleting LC job, deleting LC job queue, exporting LC logs, and configuring system lockdown mode.
- Retrieve the system inventory details.

NOTE: These features are supported only on iDRAC with enterprise license.

What's new?

- Improved capabilities with support for OpenManage Enterprise (OME).
- Create, modify or delete a user account using a new OME module **(ome_user)**.
- A new OME module **(ome_power_state)** to perform the power management operations.
- Create, modify or deploy a template using a new OME module **(dellemc_ome_template)**.
- Get the list and details of user accounts using a new OME module **(dellemc_ome_user_facts)**.
- Get the list and details of templates using a new OME module **(dellemc_ome_template_facts)**.
- A new OME module **(dellemc_ome_job_facts)** to view or track job details of PowerEdge devices .
- A new OME module **(dellemc_ome_firmware)** to update the firmware of PowerEdge devices and all its components.
- A new and rich OME module **(dellemc_ome_device_facts)** to retrieve the list of all devices with the exhaustive inventory of each device.
- The modules **dellemc_export_server_config_profile** and **dellemc_import_server_config_profile** are deprecated and all the functionality are added to the new **dellemc_idrac_server_config_profile** module.
- The **dellemc_install_firmware** module is deprecated and all the functionality are added to the new **dellemc_idrac_firmware** module.

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Getting Started

How OpenManage Ansible Modules works

- How OpenManage Ansible Modules for iDRAC works
- How OpenManage Ansible Modules for OME works

Running your first Playbook

Playbooks are essentially sets of instructions (plays) that you send to run on a single target or groups of targets (hosts).

To see how to run your first iDRAC and OME playbooks, see the following:

- Running your first iDRAC Playbook
- Running your first OME Playbook

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Modules for iDRAC

How OpenManage Ansible Modules for iDRAC works

OpenManage Ansible modules uses iDRAC REST APIs based on Redfish standards and Server Configuration Profiles (SCP) for automated configuration, deployment and update of PowerEdge servers. An SCP contains all BIOS, iDRAC, Network and Storage settings of a PowerEdge server. You can apply them to multiple servers, enabling rapid, reliable, and reproducible configuration.

You can perform an SCP operation using any of the following methods:

- Export to or import from a remote network share via CIFS, NFS. Ensure that the remote network share is mounted on the Ansible controller with read-write privileges for user running the Ansible playbooks.
- Export or import via local file streaming (for iDRAC firmware 2.60.60.60 and above).

Setting up a local mount point for a remote network share

Mount the remote network share (CIFS or NFS) locally on the Ansible controller where you want to run the playbook or modules. Local mount point should have read-write privileges in order for OpenManage Ansible modules to write an SCP file to remote network share that will be imported by iDRAC.

NOTE: Refer to Linux man pages for mounting an NFS or CIFS network share on Ansible control machine.

Running your first iDRAC Playbook

Before you run a playbook to manage your iDRACs, you need to have a valid inventory of target PowerEdge servers. For more information on inventory, see Ansible documentation.

1 Install OpenManage Ansible Modules either from the dell.com/support or the https://github.com/dell/dellemc-openmanage-ansible-modules.git repository. For more details, see *Dell EM C OpenManage Ansible Modules Installation Guide*.

2 Create an inventory file containing a list of the iDRACs. In the following inventory example, we are using the inventory variables to store the iDRAC IP addresses and the user credentials. For more information on variables, see Ansible documentation.

```
inventory:

[PowerEdge]
R740.example.com
idrac_ip='192.168.10.10'
idrac_user='root'
idrac_pwd='calvin'
```

3 Define a playbook to fetch the hardware inventory of the servers. Create the playbook in the same directory where you created the inventory. Following is a playbook example:

```
playbook.yml

---
- hosts: PowerEdge
  connection: local
  gather_facts: False

  tasks:
  - name: Get hardware inventory
    dellemc_get_system_inventory:
```

```
      idrac_ip:  "{{ idrac_ip }}"
      idrac_user:  "{{ idrac_user }}"
      idrac_pwd:  "{{ idrac_pwd }}"
```

4 Now run the playbook. Run the following command from the directory where you created the inventory and the playbook:

```
ansible-playbook playbook.yml -i inventory
```

5 Press **Enter**.

With OpenManage Ansible Modules, you can construct a playbook with a set of modules resulting in an automation workflow for configuration, deployments, and updates of PowerEdge servers.

To view the list of all available iDRAC modules:

1 Run the following command on the Ansible control machine:

```
ansible-doc -l | grep "idrac"
```

2 Press **Enter**.

List of the available iDRAC modules is displayed.

To view the documentation of a module:

1 Run the following command on the Ansible control machine:

```
ansible-doc <module name>
```

2 Press **Enter**.

Updating Firmware

You can maintain up-to-date firmware versions of Dell EMC server components to get better efficiency, security protection and enhanced features. Create update sources to do the firmware update.

Following are the tasks for the firmware update activities:

- View firmware inventory
- Install firmware
- Install iDRAC firmware

View firmware inventory

Command: dellemc_get_firmware_inventory

Synopsis

You can view the firmware inventory of a server using this module. This module displays components of a server and the corresponding firmware versions.

Check_mode support: No

Options

Table 1. dellemc_get_firmware_inventory

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_username	Yes	NA	NA	iDRAC username

Parameter	Required	Default	Choices	Comments
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Table 2. Return Values

Name	Description	Returned	Type	Sample
Firmware Inventory	• Components of a server and their firmware versions. • List of dictionaries, 1 dictionary per firmware.	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_get_firmware_inventory.md

Examples

```
-name: Get Installed Firmware Inventory
   dellemc_get_firmware_inventory:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
```

Install firmware

Module: dellemc_install_firmware

Synopsis

You can install the firmware from a repository on a network share (CIFS, NFS) to keep the system updated.

- For 12th and 13th generation of PowerEdge servers, firmware update from a network repository is performed using WS-Man APIs.
- For 14th generation of PowerEdge servers, firmware update from a network repository is performed using the SCP.

To install the firmware:

- Make sure the network share contains a valid repository of Dell Update Packages (DUPs) and a catalog file that consists the latest DUPs.
- All applicable updates contained in the repository are applied to the system.

Check_mode support: No

NOTE: This module is deprecated and replaced with dellemc_idrac_firmware.

Options

Table 3. dellemc_install_firmware

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Parameter	Required	Default	Choices	Comments
job_wait	Yes	True	NA	Whether to wait for job completion or not.
catalog_file_name	No	Catalog.xml	NA	Catalog file name relative to the `I(share_name)`.
reboot	No	False	NA	Whether to reboot after applying the updates or not.
share_name	Yes	NA	NA	CIFS or NFS Network share
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	Yes	NA	NA	Local mount path of the network share with read-write permission for ansible user. This option is mandatory for Network share.

Table 4. Return Values

Name	Description	Returned	Type	Sample
Firmware	Updates firmware from a repository on a network share (CIFS, NFS)	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_install_firmware.md

Example

```
-name: Update firmware from a repository on a Network Share
   dellemc_install_firmware:
     idrac_ip:           "xx.xx.xx.xx"
     idrac_user:         "xxxx"
     idrac_pwd:          "xxxxxxxx"
     share_name:         "xx.xx.xx.xx:/share"
     share_user:         "xxxx"
     share_pwd:          "xxxxxxxx"
     share_mnt:          "/mnt/share"
     reboot:             "True"
     job_wait:           "True"
     catalog_file_name:  "Catalog.xml"
```

Install iDRAC firmware

Command: dellemc_idrac_firmware

Synopsis: You can install the firmware from a repository on a network share (CIFS, NFS) to keep the system updated.

To install the firmware:

- Make sure the network share contains a valid repository of Dell Update Packages (DUPs) and a catalog file that consists the latest DUPs.
- All applicable updates contained in the repository are applied to the system.

Check_mode support: No

Options

Table 5. dellemc_idrac_firmware

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
job_wait	Yes	True	NA	Whether to wait for job completion or not.
catalog_file_name	No	Catalog.xml	NA	Catalog file name relative to the `I(share_name)`.
reboot	No	False	NA	Whether to reboot after applying the updates or not.
share_name	Yes	NA	NA	CIFS or NFS Network share
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	Yes	NA	NA	Local mount path of the network share with read-write permission for ansible user. This option is

Parameter	Required	Default	Choices	Comments
				mandatory for Network share.

Return Values

```
msg:
            type: str
            description: Over all firmware update status.
            returned: always
            sample: "Successfully updated the firmware."
update_status:
            type: dict
            description: Firmware Update job and progress details from the iDRAC.
            returned: success
            sample: {
                   'InstanceID': 'JID_XXXXXXXXXXXX',
                   'JobState': 'Completed',
                   'Message': 'Job completed successfully.',
                   'MessageId': 'REDXXX',
                   'Name': 'Repository Update',
                   'JobStartTime': 'NA',
                   'Status': 'Success',
                   }
```

Example

```
- name: Update firmware from repository on a Network Share
    dellemc_idrac_firmware:
      idrac_ip:          "192.168.0.1"
      idrac_user:        "user_name"
      idrac_pwd:         "user_pwd"
      share_name:        "192.168.0.0:/share"
      share_user:        "share_user_name"
      share_pwd:         "share_user_pwd"
      share_mnt:         "/mnt/share"
      reboot:             True
      job_wait:           True
      catalog_file_name: "Catalog.xml"
```

Configuring PowerEdge Servers

Integrated Dell Remote Access Controller (iDRAC) with LC provide the ability to generate a human-readable representation of server configuration using Server Configuration Profile (SCP) feature. This file contains BIOS, iDRAC, LC, network, and RAID configuration settings. You can modify this file as per your need and apply to other servers.

The SCP feature is used in the Ansible module to automate the configuration activity of PowerEdge servers and their components.

Following are the tasks:

- View LC status
- Export Server Configuration Profile
- Import Server Configuration Profile
- Export or import Server Configuration Profile
- Configuring iDRAC
- Configure BIOS
- Configure RAID
- Configure Collect System Inventory on Restart
- Configure syslog

View LC status

Module: dellemc_get_lcstatus

Synopsis

You can view the LC status on a PowerEdge server using this module. You must check the readiness of the LC before carrying out any configuration or update. This module returns the LC readiness as True or False and its status.

Check_mode support: No

Options

Table 6. dellemc_get_lcstatus

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Table 7. Return Values

Name	Description	Returned	Type	Sample
LC status	Displays the LC status on a PowerEdge server	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_get_lcstatus.md

Example

```
-name: Get LC Status
   dellemc_get_lcstatus:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
```

Export Server Configuration Profile

Module: dellemc_export_server_config_profile

Synopsis

You can export **Server Configuration Profile (SCP)** with various components such as iDRAC, BIOS, NIC, RAID together or with one of these components. You can export SCP from iDRAC to a local or a network shared location. For shared location, make sure that a network share path is established.

Check_mode support: No

NOTE: This module is deprecated and replaced with dellemc_idrac_server_config_profile.

Options

Table 8. dellemc_export_server_config_profile

Parameter	Required	Default	Choices	Comments
export_format	No	XML	• JSON • XML	The output file format
export_use	No	Default	• Default • Clone • Replace	• If C(Default), will export the SCP using the Default method • If C(Clone), will export the SCP using the Clone method • If C(Replace), will export the SCP using the Replace method
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
job_wait	Yes	NA	• True • False	• If the value is True, it waits for the SCP export job to finish and returns the job completion status • If the value is False, it returns immediately with a JOB ID after queuing the SCP export job in LC job queue
share_name	Yes	NA	NA	CIFS or NFS network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
scp_components	No	ALL	• ALL • IDRAC • BIOS • NIC • RAID	Specify the hardware components configuration to be exported • If ALL, the module exports all components configurations in SCP file • If IDRAC, the module exports iDRAC configuration in SCP file • If BIOS, the module exports BIOS configuration in SCP file • If NIC, the module exports NIC configuration in SCP file • If RAID, the module exports RAID configuration in SCP file

Table 9. Return Values

Name	Description	Returned	Type	Sample
Export SCP	Exports the SCP to the provided network share or to the local path	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_export_server_config_profile.md

Example

```
-name: Export Server Configuration Profile (SCP)
   dellemc_export_server_config_profile:
     idrac_ip:      "xx.xx.xx.xx"
     idrac_user:    "xxxx"
     idrac_pwd:     "xxxxxxxx"
     share_name:    "xx.xx.xx.xx:/share"
     share_user:    "xxxx"
     share_pwd:     "xxxxxxxx"
     export_format: "XML"
     export_use:    "Default"
     job_wait:      "True"
```

Import Server Configuration Profile

Module: dellemc_import_server_config_profile

Synopsis

You can import an SCP file (in an XML or JSON format) exported from a golden PowerEdge server configuration to one or more servers, thus achieving an effortless, consistent, and automated deployment. Importing an SCP file is useful in restoring the configuration of the server to the state stored in the profile.

You can import SCP from a local or a remote share to iDRAC. For a remote share, make sure that a network share path and the file name are available. If there are component configurations (such as BIOS, RAID, NIC, iDRAC, and so on) present in the SCP file that require a server restart, you can use the **I(shutdown_type)** argument to specify whether a **Graceful** or **Forced** shutdown of the server is required.

Check_mode support: No

NOTE: This module is deprecated and replaced with dellemc_idrac_server_config_profile.

Options

Table 10. dellemc_import_server_config_profile

Parameter	Required	Default	Choices	Comments
end_host_power_state	No	On	• On • Off	• If On, End host power is on • If Off, End host power is off
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
job_wait	Yes	NA	• True	• If the value is True, it waits for the SCP import job to finish and returns the job completion status

Parameter	Required	Default	Choices	Comments
			• False	• If the value is False, it returns immediately with a JOB ID after queuing the SCP import job in LC job queue
scp_components	No	ALL	• ALL • iDRAC • BIOS • NIC • RAID	• If ALL, the module imports all components configurations from SCP file • If iDRAC, the module imports iDRAC configuration from SCP file • If BIOS, the module imports BIOS configuration from SCP file • If NIC, the module imports NIC configuration from SCP file • If RAID, the module imports RAID configuration from SCP file
scp_file	Yes	NA	NA	Server Configuration Profile file name
share_name	Yes	NA	NA	Network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
shutdown_type	No	Graceful	• Graceful • Forced • NoReboot	• If Graceful, it gracefully shuts down the server • If Forced, it forcefully shuts down the system • If NoReboot, it does not reboot the server

Table 11. Return Values

Name	Description	Returned	Type	Sample
Import SCP	Imports SCP from a network share or from a local file	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_import_server_config_profile.md

Example

```
-name: Import Server Configuration Profile
   dellemc_import_server_config_profile
     idrac_ip:        "xx.xx.xx.xx"
     idrac_user:      "xxxx"
     idrac_pwd:       "xxxxxxxx"
     share_name:      "xx.xx.xx.xx:/share"
     share_user:      "xxxx"
     share_pwd:       "xxxxxxxx"
     scp_file:        "scp_file.xml"
     scp_components:  "ALL"
     job_wait:        "True"
```

Export or import Server Configuration Profile

Module: dellemc_idrac_server_config_profile

Synopsis

This module exports Server Configuration profile (SCP) to a given network share or imports SCP from a network share or a local file.

Options

Table 12. dellemc_idrac_server_config_profile

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
command	No	export	• import • export	• If C(import), will perform SCP import operations. • If C(export), will perform SCP export operations.
job_wait	Yes	NA	NA	Whether to wait for job completion or not.
share_name	Yes	NA	NA	CIFS or NFS Network Share or a local path.
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\\user' if user is a part of a domain, else 'user'. This option is mandatory for CIFS Network Share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network Share.
scp_file	No	NA	NA	Server Configuration Profile file name. This option is mandatory for C(import) state.
scp_components	No	ALL	• ALL • IDRAC • BIOS • NIC • RAID	• If C(ALL), the module imports all components configurations from SCP file. • If C(iDRAC), the module imports iDRAC configuration from SCP file. • If C(BIOS), the module imports BIOS configuration from SCP file. • If C(NIC), the module imports NIC configuration from SCP file. • If C(RAID), the module imports RAID configuration from SCP file.
shutdown_type	No	Graceful	• Graceful • Forced • NoReboot	This option is applicable for C(import) state. • If C(Graceful), it gracefully shuts down the server • If C(Forced), it forcefully shuts down the system • If C(NoReboot), it does not reboot the server
end_host_power_state	No	On	• On • Off	This option is applicable for C(import) state. • If C(On), End host power state is on

Parameter	Required	Default	Choices	Comments
				• If C(Off), End host power state is off
export_format	No	XML	• JSON • XML	Specify the output file format. This option is applicable for C(export) state.
export_use	No	Default	• Default • Clone • Replace	Specify the type of Sever Configuration Profile (SCP) to be exported. This option is applicable for C(export) state.

Return Values

```
msg:
  type: str
  description: status of the import or export SCP job.
  returned: always
  sample: "Successfully imported the Server Configuration Profile"
scp_status:
  type: dict
  description: SCP operation job and progress details from the iDRAC.
  returned: success
  sample:
    {
      "Id": "JID_XXXXXXXXX",
      "JobState": "Completed",
      "JobType": "ImportConfiguration",
      "Message": "Successfully imported and applied Server Configuration Profile.",
      "MessageArgs": [],
      "MessageId": "XXX123",
      "Name": "Import Configuration",
      "PercentComplete": 100,
      "StartTime": "TIME_NOW",
      "Status": "Success",
      "TargetSettingsURI": null,
      "retval": true
    }
```

Examples

```
- name: Import Server Configuration Profile from a network share
  dellemc_idrac_server_config_profile:
    idrac_ip: "192.168.0.1"
    idrac_user: "user_name"
    idrac_pwd: "user_pwd"
    command: "import"
    share_name: "192.168.0.2:/share"
    share_user: "share_user_name"
    share_pwd: "share_user_pwd"
    scp_file:   "scp_filename.xml"
    scp_components: "ALL"
    job_wait: True


- name: Import Server Configuration Profile from a local path
  dellemc_idrac_server_config_profile:
    idrac_ip: "192.168.0.1"
    idrac_user: "user_name"
    idrac_pwd: "user_pwd"
    command: "import"
    share_name: "/scp_folder"
    share_user: "share_user_name"
    share_pwd: "share_user_pwd"
    scp_file:   "scp_filename.xml"
```

```
    scp_components: "ALL"
    job_wait: True


- name: Export Server Configuration Profile to a network share
  dellemc_idrac_server_config_profile:
    idrac_ip: "192.168.0.1"
    idrac_user: "user_name"
    idrac_pwd: "user_pwd"
    share_name: "192.168.0.2:/share"
    share_user: "share_user_name"
    share_pwd: "share_user_pwd"
    job_wait: False


- name: Export Server Configuration Profile to a local path
  dellemc_idrac_server_config_profile:
    idrac_ip: "192.168.0.1"
    idrac_user: "user_name"
    idrac_pwd: "user_pwd"
    share_name: "/scp_folder"
    share_user: "share_user_name"
    share_pwd: "share_user_pwd"
    job_wait: False
```

Configuring iDRAC

Following are the modules responsible for configuring specific iDRAC attributes.

- Configure iDRAC users
- Configure iDRAC timezone
- Configure iDRAC eventing
- Configure iDRAC services
- Configure iDRAC network

Configure iDRAC users

Module: dellemc_configure_idrac_users

Synopsis

This module creates, modifies or deletes an iDRAC local user.

Check_mode support: Yes

Options

Table 13. dellemc_configure_idrac_users

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path

Parameter	Required	Default	Choices	Comments
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
action	No	create	• create • delete • modify	This value decides whether to create or delete or modify iDRAC user
user_name	No	NA	NA	Provide the username to be created or deleted or modified
user_password	No	NA	NA	Provide the password for the user to be created or modified
privilege_users	No	NA	• NoAccess • Readonly • Operator • Administrator	Privilege user access is configurable
ipmilanprivilege_users	No	NA	• No_Access • Administrator • Operator • User	IPMI Lan Privilege user access is configurable
ipmiserialprivilege_users	No	NA	• No_Access • Administrator • Operator • User	IPMI Serial Privilege user access is configurable **NOTE: This parameter is not supported by PowerEdge Modular servers.**
enable_users	No	NA	• Enabled • Disabled	Enabling or Disabling the new iDRAC user
solenable_users	No	NA	• Enabled • Disabled	Enabling or Disabling SOL for iDRAC user
protocolenable_users	No	NA	• Enabled • Disabled	Enabling or Disabling protocol for iDRAC user
authenticationprotocol_users	No	NA	• T_None • SHA • MD5	Configuring authentication protocol for iDRAC user

Parameter	Required	Default	Choices	Comments
privacyprotocol_users	No	NA	• T_None • DES • AES	Configuring privacy protocol for iDRAC user

Table 14. Return Values

Name	Description	Returned	Type	Sample
iDRAC users	Configures the iDRAC users attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_idrac_users.md

Example

```
-name: Configure the iDRAC users attributes
   dellemc_configure_idrac_users:
     idrac_ip:                      "xx.xx.xx.xx"
     idrac_user:                    "xxxx"
     idrac_pwd:                     "xxxxxxxx"
     share_name:                    "xx.xx.xx.xx:/share"
     share_pwd:                     "xxxxxxxx"
     share_user:                    "xxxx"
     share_mnt:                     "/mnt/share"
     action:                        "create"
     user_name:                     "username"
     user_password:                 "xxxxxxxx"
     privilege_users:               "Administrator"
     ipmilanprivilege_users:        "Administrator"
     ipmiserialprivilege_users:     "Administrator"
     enable_users:                  "Enabled"
     solenable_users:               "Enabled"
     protocolenable_users:          "Enabled"
     authenticationprotocol_users: "SHA"
     privacyprotocol_users:         "AES"
```

Configure iDRAC timezone

Module: dellemc_configure_idrac_timezone

Synopsis

This module configures the iDRAC timezone related attributes.

Check_mode support: Yes

Options

Table 15. dellemc_configure_idrac_timezone

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Parameter	Required	Default	Choices	Comments
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
setup_idrac_timezone	No	NA	NA	Configuring the timezone for iDRAC
enable_ntp	No	NA	NA	Whether to Enable or Disable NTP for iDRAC
ntp_server_1	No	NA	NA	NTP configuration for iDRAC
ntp_server_2	No	NA	NA	NTP configuration for iDRAC
ntp_server_3	No	NA	NA	NTP configuration for iDRAC

Table 16. Return Values

Name	Description	Returned	Type	Sample
iDRAC Timezone	Configures the iDRAC timezone attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_idrac_timezone.md

Example

```
-name: Configure the iDRAC timezone attributes
   dellemc_configure_idrac_timezone:
     idrac_ip:              "xx.xx.xx.xx"
     idrac_user:            "xxxx"
     idrac_pwd:             "xxxxxxxx"
     share_name:            "xx.xx.xx.xx:/share"
     share_pwd:             "xxxxxxxx"
     share_user:            "xxxx"
     share_mnt:             "/mnt/share"
     setup_idrac_timezone: "UTC"
     enable_ntp:            "Enabled"
     ntp_server_1:          "x.x.x.x"
     ntp_server_2:          "x.x.x.x"
     ntp_server_3:          "x.x.x.x"
```

Configure iDRAC eventing

Module: dellemc_configure_idrac_eventing

Synopsis

This module configures iDRAC eventing related attributes.

Check_mode support: Yes

Options

Table 17. dellemc_configure_idrac_eventing

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
destination_number	No	None	NA	Destination number for SNMP Trap
destination	No	None	NA	Destination for SNMP Trap
snmp_v3_username	No	NA	NA	SNMP v3 username for SNMP Trap
snmp_trap_state	No	NA	• Enabled • Disabled	Whether to Enable or Disable SNMP alert
email_alert_state	No	NA	• Enabled • Disabled	Whether to Enable or Disable Email alert
alert_number	No	None	NA	Alert number for Email configuration
address	No	NA	NA	Email address for SNMP Trap
custom_message	No	NA	NA	Custom message for SNMP Trap reference
enable_alerts	No	NA	• Enabled • Disabled	Whether to Enable or Disable iDRAC alerts
authentication	No	NA	• Enabled • Disabled	Simple Mail Transfer Protocol Authentication
smtp_ip_address	No	NA	NA	SMTP IP address for communication
smtp_port	No	None	NA	SMTP Port number for access

Parameter	Required	Default	Choices	Comments
username	No	None	NA	Username for SMTP authentication
password	No	None	NA	Password for SMTP authentication

Table 18. Return Values

Name	Description	Returned	Type	Sample
iDRAC eventing	Configures the iDRAC eventing attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_idrac_eventing.md

Example

```
-name: Configure the iDRAC eventing attributes
   dellemc_configure_idrac_eventing:
     idrac_ip:            "xx.xx.xx.xx"
     idrac_user:          "xxxx"
     idrac_pwd:           "xxxxxxxx"
     share_name:          "xx.xx.xx.xx:/share"
     share_pwd:           "xxxxxxxx"
     share_user:          "xxxx"
     share_mnt:           "/mnt/share"
     destination_number: "xxxx"
     destination:         "xxxx"
     snmp_v3_username:    "xxxx"
     snmp_trap_state:     "xxxx"
     email_alert_state:   "xxxx"
     alert_number:        "xxxx"
     address:             "xxxxxxxxxx"
     custom_message:      "xxxx"
     enable_alerts:       "xxxxxx"
     authentication:      "xxxxxx"
     smtp_ip_address:     "x.x.x.x"
     smtp_port:           "xxxx"
     username:            "xxxx"
     password:            "xxxxxxxx"
```

Configure iDRAC services

Module: dellemc_configure_idrac_services

Synopsis

This module configures the iDRAC services related attributes.

Check_mode support: Yes

Options

Table 19. dellemc_configure_idrac_services

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Parameter	Required	Default	Choices	Comments
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
enable_web_server	No	NA	• Enabled • Disabled	Whether to Enable or Disable web server configuration for iDRAC
ssl_encryption	No	NA	• Auto_Negotiate • T_128_Bit_or_higher • T_168_Bit_or_higher • T_256_Bit_or_higher	Secure Socket Layer encryption for web server
tls_protocol	No	NA	• TLS_1_0_and_Higher • TLS_1_1_and_Higher • TLS_1_2_Only	Transport Layer Security for web server
https_port	No	NA	NA	HTTPS access port
http_port	No	NA	NA	HTTP access port
timeout	No	NA	NA	Timeout value
snmp_enable	No	NA	• Enabled • Disabled	Whether to Enable or Disable SNMP protocol for iDRAC
snmp_protocol	No	NA	• All • SNMPv3	Type of the SNMP protocol
community_name	No	test	NA	SNMP community name for iDRAC
alert_port	No	None	NA	SNMP alert port for iDRAC
discovery_port	No	162	NA	SNMP discovery port for iDRAC
trap_format	No	None	NA	SNMP trap format for iDRAC

Table 20. Return Values

Name	Description	Returned	Type	Sample
iDRAC services	Configures the iDRAC services attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_idrac_services.md

Example

```
-name: Configure the iDRAC services attributes
   dellemc_configure_idrac_services:
     idrac_ip:           "xx.xx.xx.xx"
     idrac_user:         "xxxx"
     idrac_pwd:          "xxxxxxxx"
     share_name:         "xx.xx.xx.xx:/share"
     share_pwd:          "xxxxxxxx"
     share_user:         "xxxx"
     share_mnt:          "/mnt/share"
     enable_web_server: "Enabled"
     http_port:          "80"
     https_port:         "443"
     ssl_encryption:     "Auto_Negotiate"
     tls_protocol:       "TLS_1_2_Only"
     timeout:            "1800"
     snmp_enable:        "Enabled"
     snmp_protocol:      "SNMPv3"
     community_name:     "test"
     alert_port:         "None"
     discovery_port:     "162"
     trap_format:        "None"
```

Configure iDRAC network

Module: dellemc_configure_idrac_network

Synopsis

This module configures the iDRAC networking attributes.

Check_mode support: Yes

Options

Table 21. dellemc_configure_idrac_network

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.

Parameter	Required	Default	Choices	Comments
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
setup_idrac_nic_vlan	No	NA	NA	Configuring the VLAN-related setting for iDRAC
register_idrac_on_dns	No	NA	• Enabled • Disabled	Registering Domain Name System for iDRAC
dns_idrac_name	No	NA	NA	DNS Name for iDRAC
auto_config	No	NA	• Enabled • Disabled	Automatically creates the records for DNS
static_dns	No	NA	NA	Static configuration for DNS
vlan_id	No	None	NA	Configuring the VLAN ID for iDRAC
vlan_priority	No	None	NA	Configuring the VLAN priority for iDRAC
enable_nic	No	NA	• Enabled • Disabled	Whether to Enable or Disable Network Interface Controller for iDRAC
nic_selection	No	NA	• Dedicated • LOM1 • LOM2 • LOM3 • LOM4	Selecting Network Interface Controller types for iDRAC
failover_network	No	NA	• ALL • LOM1 • LOM2 • LOM3 • LOM4 • T_None	Failover Network Interface Controller types for iDRAC
auto_detect	No	NA	• Enabled • Disabled	Auto detect Network Interface Controller types for iDRAC
auto_negotiation	No	NA	• Enabled • Disabled	Auto negotiation of Network Interface Controller for iDRAC
network_speed	No	NA	• T_10 • T_100 • T_1000	Network speed for Network Interface Controller types for iDRAC

Parameter	Required	Default	Choices	Comments
duplex_mode	No	NA	• Full • Half	Transmission of data Network Interface Controller types for iDRAC
nic_mtu	No	None	NA	NIC Maximum Transmission Unit
ip_address	No	NA	NA	IP Address needs to be defined
enable_dhcp	No	NA	NA	Whether to Enable or Disable DHCP Protocol for iDRAC
dns_from_dhcp	No	NA	• Enabled • Disabled	Specifying Domain Name System from Dynamic Host Configuration Protocol
enable_ipv4	No	NA	• Enabled • Disabled	Whether to Enable or Disable IPv4 configuration
static_dns_1	No	NA	NA	Specify Domain Name System Configuration
static_dns_2	No	NA	NA	Specify Domain Name System Configuration
static_gateway	No	None	NA	Interfacing the network with another protocol
static_net_mask	No	None	NA	Determine whether IP address belongs to host

Table 22. Return Values

Name	Description	Returned	Type	Sample
iDRAC network	Configures the iDRAC network attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_idrac_network.md

Example

```
-name: Configure the iDRAC network attributes
   dellemc_configure_idrac_network:
   idrac_ip:               "xx.xx.xx.xx"
   idrac_user:             "xxxx"
   idrac_pwd:              "xxxxxxxx"
   share_name:             "xx.xx.xx.xx:/share"
   share_pwd:              "xxxxxxxx"
   share_user:             "xxxx"
   share_mnt:              "/mnt/share"
   register_idrac_on_dns: "Enabled'
   dns_idrac_name:         "None"
   auto_config:            "None"
   static_dns:             "None"
   setup_idrac_nic_vlan:  "Enabled"
   vlan_id:                "0"
   vlan_priority:          "1"
   enable_nic:             "Enabled"
   nic_selection:          "Dedicated"
   failover_network:       "T_None"
   auto_detect:            "Disabled"
   auto_negotiation:       "Enabled"
   network_speed:          "T_1000"
   duplex_mode:            "Full"
   nic_mtu:                "1500"
   ip_address:             "x.x.x.x"
   enable_dhcp:            "Enabled"
```

```
    dns_from_dhcp:          "Enabled"
    enable_ipv4:            "Enabled"
    static_dns_1:           "x.x.x.x"
    static_dns_2:           "x.x.x.x"
    static_gateway:         "None"
    static_net_mask:        "None"
```

Configure BIOS

Module: dellemc_configure_bios

Synopsis

This module configures the BIOS attributes for PowerEdge servers.

Check_mode support: Yes

Options

Table 23. dellemc_configure_bios

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	No	NA	NA	CIFS or NFS network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
boot_mode	No	NA	• Bios • Uefi	(deprecated) Configures the boot mode to BIOS or UEFI. **NOTE: This option has been deprecated, and will be removed in the later version. Please use the I(attributes) for BIOS attributes configuration instead.** **NOTE: I(boot_mode) is mutually exclusive with I(boot_sources).**

Parameter	Required	Default	Choices	Comments
boot_sequence	No	NA	NA	(deprecated) Boot devices' FQDDs in the sequential order for BIOS or UEFI Boot Sequence. Provide the `I(boot_mode)` option to determine the appropriate boot sequence to be applied. **NOTE: This option has been deprecated, and will be removed in the later version. Please use the I(attributes) or I(boot_sources) for Boot Sequence modification instead.** **NOTE: I(boot_sequence) is mutually exclusive with I(boot_sources).**
nvme_mode	No	NA	• NonRaid • Raid	(deprecated) Configures the NVME mode in the 14th generation of PowerEdge servers. **NOTE: This option has been deprecated, and will be removed in the later version. Please use the I(attributes) for BIOS attributes configuration instead.** **NOTE: I(nvme_mode) is mutually exclusive with I(boot_sources).**
secure_boot_mode	No	NA	• AuditMode, • DeployedMode • SetupMode • UserMode	(deprecated) Configures how the BIOS uses the Secure Boot Policy Objects in the 14th generation of PowerEdge servers. **NOTE: This option has been deprecated, and will be removed in the later version. Please use the I(attributes) for BIOS attributes configuration instead.** **NOTE: I(secure_boot_mode) is mutually exclusive with I(boot_sources).**
onetime_boot_mode	No	NA	• Disabled • OneTimeBootSeq • OneTimeCustomBootSeqStr • OneTimeCustomHddSeqStr • OneTimeCustomUefiBootSeqStr • OneTimeHddSeq • OneTimeUefiBootSeq	(deprecated) Configures the one time boot mode setting. **NOTE: This option has been deprecated, and will be removed in the later version. Please use the I(attributes) for BIOS attributes configuration instead.** **NOTE: I(onetime_boot_mode) is mutually exclusive with I(boot_sources).**

Parameter	Required	Default	Choices	Comments
attributes	No	NA	NA	Dictionary of BIOS attributes and value pair. Attributes should be part of the Redfish Dell BIOS Attribute Registry. Redfish URI to view BIOS attributes: (https://I(idrac_ip)/redfish/v1/Systems/System.Embedded.1/Bios). If deprecated options are given and the same are repeated in I(attributes) then values in I(attributes) will take precedence. **NOTE: I(attributes) is mutually exclusive with I(boot_sources).**
boot_sources	No	NA	NA	List of boot devices to set the boot sources settings. Boot devices are dictionary. While applying boot sequence, **Index** of at least one boot device should be 0. **NOTE: I(boot_sources) is mutually exclusive with I(attributes), I(boot_sequence), I(onetime_boot_mode), I(secure_boot_mode), I(nvme_mode), and I(boot_mode).** **NOTE: When user does not provide `Index` or `Enabled` value in boot_sources option, dellemc_configure_bios module uses the current `Index` or `Enabled` value from the target server for the specified boot source while applying boot sources.** **NOTE: In case the selected `Index` or `Enabled` value from the target server conflicts with any of the boot_sources option values to be applied, dellemc_configure_bios module may fail to apply with appropriate error message.**

Table 24. Return Values

Name	Description	Returned	Type	Sample
BIOS	Configures the BIOS configuration attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_bios.md

Examples

```
-name: Configure BIOS Generic attributes
   dellemc_configure_bios:
     idrac_ip:          "xx.xx.xx.xx"
     idrac_user:        "xxxx"
     idrac_pwd:         "xxxxxxxx"
```

```
    attributes:
      BootMode :       "Bios"
      OneTimeBootMode: "Enabled"
      BootSeqRetry:    "Enabled"
```

```
- name: Configure PXE Generic Attributes
    dellemc_configure_bios:
      idrac_ip:             "xx.xx.xx.xx"
      idrac_user:           "xxxx"
      idrac_pwd:            "xxxxxxxx"
      attributes:
        PxeDev1EnDis:       "Enabled"
        PxeDev1Protocol:    "IPV4"
        PxeDev1VlanEnDis:   "Enabled"
        PxeDev1VlanId:       x
        PxeDev1Interface:   "NIC.Embedded.x-x-x"
        PxeDev1VlanPriority: x
```

```
- name: Configure Boot Sources
    dellemc_configure_bios:
      idrac_ip:    "xx.xx.xx.xx"
      idrac_user:  "xxxx"
      idrac_pwd:   "xxxxxxxx"
      boot_sources:
        - Name :   "NIC.Integrated.x-x-x"
          Enabled : True
          Index :   0
```

```
- name: Configure Boot Sources
   dellemc_configure_bios:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
     boot_sources:
       - Name : "NIC.Integrated.x-x-x"
         Enabled : True
         Index : 0
       - Name : "NIC.Integrated.x-x-x"
         Enabled : true
         Index : 1
       - Name : "NIC.Integrated.x-x-x"
         Enabled : true
         Index : 2
```

```
- name: Configure Boot Sources - Enabled
    dellemc_configure_bios:
      idrac_ip:    "xx.xx.xx.xx"
      idrac_user:  "xxxx"
      idrac_pwd:   "xxxxxxxx"
      boot_sources:
        - Name :   "NIC.Integrated.x-x-x"
          Enabled : True
```

```
- name: Configure Boot Sources - Index
    dellemc_configure_bios:
      idrac_ip:   "xx.xx.xx.xx"
      idrac_user: "xxxx"
      idrac_pwd:  "xxxxxxxx"
      boot_sources:
        - Name : "NIC.Integrated.x-x-x"
          Index : 0
```

Configure RAID

Module: dellemc_configure_raid

Synopsis

This module hosts the RAID configuration related attributes.

NOTE: This module is deprecated and replaced with dellemc_idrac_storage_volume.

Options

Table 25. dellemc_configure_raid

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for Network share.
vd_name	No	NA	NA	Virtual disk name · Optional, if we perform create operations · Mandatory, if we perform remove operations
span_depth	No	1	NA	Span Depth
span_length	No	2	NA	Span Length
number_dedicated_hot_spare	No	0	NA	Number of Dedicated Hot Spare
number_global_hot_spare	No	0	NA	Number of Global Hot Spare
raid_level	No	RAID 0	· RAID 0 · RAID 1 · RAID 5 · RAID 6 · RAID 10 · RAID 50 · RAID 60	Provide the required RAID level
disk_cache_policy	No	Default	· Default	Disk Cache Policy

Parameter	Required	Default	Choices	Comments
			• Enabled • Disabled	
write_cache_policy	No	WriteThrough	• WriteThrough • WriteBack • WriteBackForce	Write cache policy
read_cache_policy	No	NoReadAhead	• NoReadAhead • ReadAhead • Adaptive	Read cache policy
stripe_size	No	65536	NA	Provide stripe size value in multiples of 64 * 1024
controller_fqdd	Yes	NA	NA	Fully Qualified Device Descriptor (FQDD) of the storage controller, for e.g. `RAID.Integrated.1-1`
media_type	No	HDD	• HDD • SSD	Media type
bus_protocol	No	SATA	• SAS • SATA	Bus protocol
state	Yes	NA	• present • absent	• If the value is 'present', the module will perform 'create' operations • If the value is 'absent', the module will perform 'remove' operations

Table 26. Return Values

Name	Description	Returned	Type	Sample
RAID configuration	Configures the RAID configuration attributes	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_configure_raid.md

Example

```
-name: Configure the RAID attributes
   dellemc_configure_raid:
     idrac_ip:        "xx.xx.xx.xx"
     idrac_user:      "xxxx"
     idrac_pwd:       "xxxxxxxx"
     share_name:      "xx.xx.xx.xx:/share"
     share_pwd:       "xxxxxxxx"
     share_user:      "xxxx"
     share_mnt:       "xxxxxx"
     controller_fqdd: "xxxxxxxx"
     vd_name:         "xxxxxx"
```

Configure storage volume

Module: dellemc_idrac_storage_volume

Synopsis

This module hosts the RAID configuration related attributes.

Check_mode support: Yes

Options

Table 27. dellemc_idrac_storage_volume

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
span_depth	No	1	NA	Span Depth
span_length	No	1	NA	Span Length
number_dedicated_hot_spare	No	0	NA	Number of Dedicated Hot Spare
volume_type	No	RAID 0	• RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10 • RAID 50 • RAID 60	Provide the required RAID level
disk_cache_policy	No	Default	• Default • Enabled • Disabled	Disk Cache Policy
write_cache_policy	No	WriteThrough	• WriteThrough • WriteBack • WriteBackForce	Write Cache Policy
read_cache_policy	No	NoReadAhead	• NoReadAhead • ReadAhead • AdaptiveReadAhead	Read Cache Policy
stripe_size	No	65536	NA	Provide stripe size value in multiples of 64 * 1024
controller_id	No	NA	NA	Fully Qualified Device Descriptor (FQDD) of the storage controller, for example: `RAID.Integrated.1-1` **NOTE: Controller FQDD is required for C(create) RAID configuration.**

Parameter	Required	Default	Choices	Comments
volume_id	No	NA	NA	Fully Qualified Device Descriptor (FQDD) of the virtual disk, for example: `Disk.virtual.0:RAID.Slot.1-1` **NOTE: This option is used to get the virtual disk information.**
media_type	No	None	• HDD • SDD	Media type
protocol	No	None	• SAS • SATA	Bus protocol
state	Yes	view	• create • delete • view	• C(create) performs **create** volume operations. • C(delete) performs **remove** volume operations. • C(view) returns the storage view.
volumes	No	NA	NA	A list of virtual disk-specific iDRAC attributes. This is applicable for C(create) and C(delete) operations. • For C(create) operation, name and drives are applicable options, other volume options can also be specified. **NOTE: The drives is a required option for C(create) operation and accepts either location (list of drive slot) or id (list of drive fqdd).** • For C(delete) operation, only name option is applicable.
capacity	No	NA	NA	Virtual disk size in GB
raid_reset_config	No	NA	NA	This option represents whether a Reset Config operation needs to be performed on the RAID controller. Reset Config operation deletes all the virtual disks present on the RAID controller.
raid_init_operation	No	None	• None • Fast	This option represents Initialization Configuration operation to be performed on the virtual disk.

Return Values

```
msg:
  type: str
  description: Overall status of the storage configuration operation.
  returned: always
  sample: "Successfully completed the view storage volume operation"
storage_status:
  type: dict
  description: Storage configuration job and progress details from the iDRAC.
  returned: success
  sample:
    {
```

```
      "Id": "JID_XXXXXXXXX",
      "JobState": "Completed",
      "JobType": "ImportConfiguration",
      "Message": "Successfully imported and applied Server Configuration Profile.",
      "MessageId": "XXX123",
      "Name": "Import Configuration",
      "PercentComplete": 100,
      "StartTime": "TIME_NOW",
      "Status": "Success",
      "TargetSettingsURI": null,
      "retval": true
    }
```

Examples

```
-name: Create single volume
   dellemc_idrac_storage_volume:
     idrac_ip:        "192.168.0.1"
     idrac_user:      "username"
     idrac_pwd:       "password"
     controller_id:   "RAID.Slot.1-1"
     state:           "create"
     volumes:
        - drives:
          location:    [5]
```

```
-name: Create multiple volume
   dellemc_idrac_storage_volume:
     idrac_ip:                   "192.168.0.1"
     idrac_user:                 "username"
     idrac_pwd:                  "password"
     raid_reset_config:          "True"
     state:                      "create"
     controller_id:              "RAID.Slot.1-1"
     volume_type:                 "RAID 1"
     span_depth:                  1
     span_length:                 2
     number_dedicated_hot_spare:  1
     disk_cache_policy:          "Enabled"
     write_cache_policy:         "WriteBackForce"
     read_cache_policy:          "ReadAhead"
     stripe_size:                 65536
     capacity:                    100
     raid_init_operation:        "Fast"
     volumes:
       - name:                   "volume_1"
         drives:
             id:                 ["Disk.Bay.1:Enclosure.Internal.0-1:RAID.Slot.1-1",
                                  "Disk.Bay.2:Enclosure.Internal.0-1:RAID.Slot.1-1"]
       - name:                   "volume_2"
         volume_type:            "RAID 5"
         span_length:             3
         span_depth:              1
         drives:
             location:           [7,3,5]
         disk_cache_policy:      "Disabled"
         write_cache_policy:     "WriteBack"
         read_cache_policy:      "NoReadAhead"
         stripe_size:             131072
         capacity:                200
         raid_init_operation:    "None"
```

```
-name: View all volume details
   dellemc_idrac_storage_volume:
     idrac_ip:   "192.168.0.1"
     idrac_user: "username"
```

```
    idrac_pwd:  "password"
    state:      "view"
```

```
-name: View specific volume details
   dellemc_idrac_storage_volume:
     idrac_ip:         "192.168.0.1"
     idrac_user:       "username"
     idrac_pwd:        "password"
     state:            "view"
     controller_id:    "RAID.Slot.1-1"
     volume_id:         "Disk.Virtual.0:RAID.Slot.1-1"
```

```
-name: Delete single volume
   dellemc_idrac_storage_volume:
     idrac_ip:    "192.168.0.1"
     idrac_user:  "username"
     idrac_pwd:   "password"
     state:       "delete"
     volumes:
       - name:    "volume_1"
```

```
-name: Delete multiple volume
   dellemc_idrac_storage_volume:
     idrac_ip:    "192.168.0.1"
     idrac_user:  "username"
     idrac_pwd:   "password"
     state:       "delete"
     volumes:
       - name: "volume_1"
       - name: "volume_2"
```

Configure Collect System Inventory on Restart

Module: dellemc_idrac_lc_attributes

Synopsis

This module is responsible for enabling or disabling of **Collect System Inventory on Restart (CSIOR)** property for all iDRAC or LC jobs. When you enable the **CSIOR** property, hardware inventory and part configuration information are discovered and compared with previous system inventory information on every system restart.

Check_mode support: Yes

Options

Table 28. dellemc_idrac_lc_attributes

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.

Parameter	Required	Default	Choices	Comments
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
csior	Yes	NA	· Enabled · Disabled	Whether to Enable or Disable Collect System Inventory on Restart (CSIOR) property for all iDRAC or LC jobs

Table 29. Return Values

Name	Description	Returned	Type	Sample
iDRAC CSIOR	Configures CSIOR property for all iDRAC or LC jobs	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_idrac_lc_attributes.md

Example

```
-name: Set up iDRAC LC Attributes
   dellemc_idrac_lc_attributes:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
     share_name: "xx.xx.xx.xx:/share"
     share_user: "xxxxx"
     share_pwd:  "xxxxxxxx"
     share_mnt:  "/mnt/share"
     csior:      "xxxxxxx"
```

Configure syslog

Module: dellemc_setup_idrac_syslog

Synopsis

This module enables or disables syslog parameters for iDRAC.

Check_mode support: Yes

Options

Table 30. dellemc_setup_idrac_syslog

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS Network share or a local path

Parameter	Required	Default	Choices	Comments
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
syslog	Yes	NA	• Enabled • Disabled	Whether to Enable or Disable iDRAC syslog

Table 31. Return Values

Nam	Description	Returned	Type	Sample
iDRAC Syslog	Configures iDRAC Syslog parameters	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_setup_idrac_syslog.md

Example

```
-name: Configure iDRAC Syslog Parameters
   dellemc_setup_idrac_syslog:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
     share_name: "xx.xx.xx.xx:/share"
     share_user: "xxxx"
     share_pwd:  "xxxxxxxx"
     share_mnt:  "/mnt/share"
     syslog:     "xxxxxxx"
```

Deploying operating system

To provision a bare metal server, it is essential to deploy the required operating system in the device before you start using it. This section describes the process of deploying the operating system on the PowerEdge servers using Ansible.

To automate the process of operating system deployment in an unattended manner using Ansible, the iDRAC's capability is utilized to transfer the customized ISO to iDRAC for boot.

To perform OS deployment, ensure:

- Operating system image is injected with required Dell drivers, and unattended response file.
- iDRAC is enabled, configured, and reachable.
- RAID is configured.

Boot to a network ISO image

Module: dellemc_boot_to_network_iso

Synopsis

This module facilitates the operating system deployment. You can run this module to boot the target system to a bootable ISO image on a CIFS or NFS share. This module looks for the customized ISO in the configured share location and transfers the image to iDRAC to load it. On the system reboot, the OS deployment begins.

Check_mode support: No

Options

Table 32. dellemc_boot_to_network_iso

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC password
idrac_port	No	443	NA	iDRAC port
iso_image	Yes	NA	NA	Network ISO name
share_name	Yes	NA	NA	CIFS or NFS Network share
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.

Table 33. Return Values

Name	Description	Returned	Type	Sample
Boot to Network ISO	Boots to a network ISO Image	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_boot_to_network_iso.md

Example

```
-name: Boot to Network ISO
   dellemc_boot_to_network_iso:
     idrac_ip:    "xx.xx.xx.xx"
     idrac_user:  "xxxx"
     idrac_pwd:   "xxxxxxxx"
     share_name:  "xx.xx.xx.xx:/share"
     share_user:  "xxxx"
     share_pwd:   "xxxxxxxx"
     iso_image:   "uninterrupted_os_installation_image.iso"
```

Server Inventory

This section describes the process of retrieving the server inventory of the PowerEdge Servers using Ansible Modules.

View the system inventory

Module: dellemc_get_system_inventory

Synopsis

System inventory provides basic and component level detailed inventory information. You can run this module when you want to verify the asset, configured state, inventory, and health-related information for the system and its component.

Check_mode support: No

Options

Table 34. dellemc_get_system_inventory

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Table 35. Return Values

Name	Description	Returned	Type	Sample
System Inventory	Displays the PowerEdge Server System Inventory	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_get_system_inventory.md

Example

```
-name: Get System Inventory
   dellemc_get_system_inventory:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
```

Server administration tasks

This section describes the tasks that you can run using OpenManage Ansible Modules. Following are the tasks:

- Configure the power state on the PowerEdge servers
- Reset iDRAC
- View LC job status
- Export LC logs
- Delete LC job
- Delete LC job queue
- Configure System Lockdown Mode

Configure the power state on the PowerEdge servers

Module: dellemc_change_power_state

Synopsis

This module configures the power control options on a PowerEdge server. You can run this module:

- To turn on the server.
- To turn off the server.
- To reboot the server.
- For hard reset of the server.

Check_mode support: Yes

Options

Table 36. dellemc_change_power_state

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
change_power	Yes	NA	• On • ForceOff • GracefulRestart • GracefulShutdown • PushPowerButton • Nmi	Desired power state

Table 37. Return Values

Name	Description	Returned	Type	Sample
Power state of a server	Configures the power control options on a PowerEdge server	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_change_power_state.md

Example

```
-name: Change Power State
   dellemc_change_power_state:
     idrac_ip:     "xx.xx.xx.xx"
     idrac_user:   "xxxx"
     idrac_pwd:    "xxxxxxxx"
     change_power: "xxxxxxx"
```

Reset iDRAC

Module: dellemc_idrac_reset

Synopsis

You can reset the iDRAC using this module.

Check_mode support: Yes

Options

Table 38. dellemc_idrac_reset

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Table 39. Return Values

Name	Description	Returned	Type	Sample
Reset iDRAC	Resets the iDRAC	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_idrac_reset.md

Example

```
-name: Reset iDRAC
   dellemc_idrac_reset:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
     idrac_port: "xxx"
```

View LC job status

Module: dellemc_get_lc_job_status

Synopsis

You can view the iDRAC or LC job status using this module. To view information about a job status, a job id is required. After a job is initiated, the system stages the job request information and sends a job id back to the system. You can query the progress and status of the job by using the job id.

Check_mode support: No

Options

Table 40. dellemc_get_lc_job_status

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password

Parameter	Required	Default	Choices	Comments
idrac_port	No	443	NA	iDRAC port
job_id	Yes	NA	NA	JOB ID in the format "JID_123456789012"

Table 41. Return Values

Name	Description	Returned	Type	Sample
LC Job Status	Displays the status of an LC job	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_get_lc_job_status.md

Example

```
-name: Get LC Job Status
   dellemc_get_lc_job_status
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
     job_id:     "JID_1234567890"
```

Export LC logs

Module: dellemc_export_lc_logs

Synopsis

LC logs provide records of past activities on a managed system. These log files are useful for the server administrators since they provide detailed information about recommended actions and some other technical information that is useful for troubleshooting purposes.

The various types of information available in LC logs are alerts-related, configuration changes on the system hardware components, firmware changes due to an upgrade or downgrade, replaced parts, temperature warnings, detailed timestamps of when the activity has started, severity of the activity, and so on.

Check_mode support: No

Options

Table 42. dellemc_export_lc_logs

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS Network share
share_user	No	NA	NA	Network share user in the format 'user@domain' or 'domain\user' if user is part of a domain else 'user'. This option is mandatory for CIFS Network share.
share_pwd	No	NA	NA	Network share user password. This option is mandatory for CIFS Network share.

Parameter	Required	Default	Choices	Comments
job_wait	Yes	NA	• True • False	• If the value is True, it waits for the job to complete and returns the job completion status • If the value is False, it returns immediately with a JOB ID after queuing the job in LC job queue

Table 43. Return Values

Name	Description	Returned	Type	Sample
LC logs	Exports the LC logs to the given network share	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_export_lc_logs.md

Example

```
-name: Export Lifecycle Controller Logs
   dellemc_export_lc_logs:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxxxxx"
     idrac_port: "xxx"
     share_name: "xx.xx.xx.xx:/share"
     share_user: "xxxx"
     share_pwd:  "xxxxxxxx"
     job_wait:   "True"
```

Delete LC job

Module: dellemc_delete_lc_job

Synopsis

This module deletes an LC job for a given valid JOB ID from the job queue.

You can delete an LC job:

- after the job is completed.
- if you do not want to perform the job or if it is taking long to execute.

Check_mode support: Yes

Options

Table 44. dellemc_delete_lc_job

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Parameter	Required	Default	Choices	Comments
job_id	Yes	NA	NA	JOB ID in the format "JID_XXXXXXXXX"

Table 45. Return Values

Name	Description	Returned	Type	Sample
Delete LC job	Deletes an LC job for a given a JOB ID	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_delete_lc_job.md

Examples

```
-name: Delete LC Job
   dellemc_delete_lc_job:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
     idrac_pwd:  "xxxxx"
     idrac_port: "xxx"
     job_id:     "JID_XXXXXXXX"
```

Delete LC job queue

Module: dellemc_delete_lc_job_queue

Synopsis

You can delete all the jobs in the LC job queue using this module. All the jobs in the job queue are terminated when you delete a job queue.

Check_mode support: No

Options

Table 46. dellemc_delete_lc_job_queue

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port

Table 47. Return Values

Name	Description	Returned	Type	Sample
LC Job Queue	Deletes the LC job queue	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_delete_lc_job_queue.md

Example

```
-name: Delete LC Job Queue
   dellemc_delete_lc_job_queue:
     idrac_ip:   "xx.xx.xx.xx"
     idrac_user: "xxxx"
```

```
    idrac_pwd:  "xxxxx"
    idrac_port: "xxx"
```

Configure System Lockdown Mode

Module: dellemc_system_lockdown_mode

Synopsis

System Lockdown Mode provides a mechanism to protect configuration from any unintentional or accidental changes after the system is provisioned to a certain level.

This module is responsible for enabling or disabling the lockdown mode of a system. When System Lockdown Mode is enabled, the system's configuration is locked and system cannot be configured or updated until the lockdown mode is disabled.

Check_mode support: No

Options

Table 48. dellemc_system_lockdown_mode

Parameter	Required	Default	Choices	Comments
idrac_ip	Yes	NA	NA	iDRAC IP Address
idrac_user	Yes	NA	NA	iDRAC username
idrac_pwd	Yes	NA	NA	iDRAC user password
idrac_port	No	443	NA	iDRAC port
share_name	Yes	NA	NA	CIFS or NFS network share or a local path
share_user	No	NA	NA	Network share user in the format 'user@domain' or user\domain if user is part of a domain else 'user'. This field is mandatory for CIFS Network Share.
share_pwd	No	NA	NA	Network share user password. This field is mandatory for CIFS Network Share.
share_mnt	No	NA	NA	Local mount path of the network share with read-write permission for Ansible user. This option is mandatory for CIFS or NFS Network share.
lockdown_mode	Yes	NA	• Enabled • Disabled	Whether to Enable or Disable system lockdown mode

Table 49. Return Values

Name	Description	Returned	Type	Sample
System Lockdown Mode	Configures lockdown mode of the system	Success	String	https://github.com/dell/Dell-EMC-Ansible-Modules-for-iDRAC/blob/master/samples/dellemc_system_lockdown_mode.md

Example

```
-name: Configure System Lockdown Mode
   dellemc_system_lockdown_mode:
```

```
    idrac_ip:      "xx.xx.xx.xx"
    idrac_user:    "xxxx"
    idrac_pwd:     "xxxxxxxx"
    share_name:    "xx.xx.xx.xx:/share"
    share_user:    "xxxx"
    share_pwd:     "xxxxxxxx"
    share_mnt:     "/mnt/share"
    lockdown_mode: "xxxxxxx"
```

4

Modules for OpenManage Enterprise (OME)

How OpenManage Ansible Modules for OME works

OpenManage Enterprise (OME) is a system management and monitoring application that provides rich sets of features to manage the Dell EMC servers, chassis, storage, and network switches in an enterprise data center or IT environment. Using the comprehensive set of REST APIs provided by OME, system administrators and software developers can discover, configure, provision, update, and manage their entire Dell EMC infrastructure.

OpenManage Ansible modules for OME simplifies and automates the PowerEdge server and modular infrastructure provisioning, deployment, and updates supported by OME. Leveraging the repeatable template configuration and deployment feature provided by OME, administrators can automatically deploy the changes, ensure consistency and thereby significantly improve productivity by reducing manual interactions and errors.

Running your first OME Playbook

Before you run a playbook to manage your iDRACs using OME, you need to have an inventory file that contains the target OME server details. For more information on inventory, see Ansible documentation

1 Install OpenManage Ansible Modules either from the dell.com/support or the https://github.com/dell/dellemc-openmanage-ansible-modules.git repository. For more details, see *Dell EM C OpenManage Ansible Modules Installation Guide*.

2 Create an inventory file containing a list of the OMEs. In the following inventory example, we are using the inventory variables to store the OME IP addresses and the user credentials. For more information on variables, see Ansible documentation.

```
inventory:

[PowerEdge]
ome.example.com
ome_ipaddress= '192.168.1.1'
ome_username='root'
ome_password='calvin'
```

3 Define a playbook to fetch the server inventory managed by the OME. Create the playbook in the same directory where you created the inventory. Following is a playbook example:

```
playbook.yml

---
- hosts: PowerEdge
  connection: local
  gather_facts: False

  tasks:
  - name: Get server inventory
    dellemc_ome_device_facts:
      hostname:  "{{ ome_ipaddress }}"
      username:  "{{ ome_username }}"
      password:  "{{ ome_password }}"
    system_query_options:
      filter:  "Type eq 1000"
```

4 Now run the playbook. Run the following command from the directory where you created the inventory and the playbook:

```
ansible-playbook playbook.yml -i inventory
```

5 Press **Enter**.

With OpenManage Ansible Modules, you can construct a playbook with a set of modules resulting in an automation workflow for configuration, deployments, and updates of PowerEdge and modular servers.

To view the list of all available OME modules:

1 Run the following command on the Ansible control machine:

```
ansible-doc -l | grep "ome"
```

2 Press **Enter**.

List of the available OME modules is displayed.

To view the documentation of a module:

1 Run the following command on the Ansible control machine:

```
ansible-doc <module name>
```

2 Press **Enter**.

View device inventory

Module: dellemc_ome_device_facts

Synopsis

This module retrieves the list of all devices with the exhaustive inventory of each device discovered using OME.

Options

Table 50. dellemc_ome_device_facts

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target device HTTPS port
fact_subset	No	basic_inventory	• basic_inventory • detailed_inventory • subsystem_health	• C(basic_inventory) returns the list of the devices. • C(detailed_inventory) returns the inventory details of specified devices. • C(subsystem_health) returns the health status of specified devices.
system_query_options	No	NA	• device_id: A list of unique identifier is applicable for C(detailed_inventory) and C(subsystem_health). • device_service_tag: A list of service tags are applicable for C(detailed_inventory) and C(subsystem_health). • inventory_type: For C(detailed_inventory), it returns details of the specified inventory type.	I(system_query_options) is applicable for the choices of the fact_subset. Either I(device_id) or I(device_service_tag) is mandatory for C(detailed_inventory) and C(subsystem_health) or both can be applicable.

Parameter	Required	Default	Choices	Comments
			• filter: For C(basic_inventory), it filters the collection of devices. I(filter) query format should be aligned with OData standards.	

Return Values

```
msg:
  type: str
  description: Over all device_facts status.
  returned: on error
  sample: "Failed to fetch the device facts"
ansible_facts:
  type: dict
  description: Device inventory details.
  returned: success
  sample: {
        "value": [
            {
                "Actions": null,
                "AssetTag": null,
                "ChassisServiceTag": null,
                "ConnectionState": true,
                "DeviceManagement": [
                    {
                        "DnsName": "dnsname.host.com",
                        "InstrumentationName": "MX-12345",
                        "MacAddress": "11:10:11:10:11:10"
                        "ManagementId": 12345,
                        "ManagementProfile": [
                            {
                                "HasCreds": 0,
                                "ManagementId": 12345,
                                "ManagementProfileId": 12345,
                                "ManagementURL": "https://192.168.0.1:443",
                                "Status": 1000,
                                "StatusDateTime": "2019-01-21 06:30:08.501"
                            }
                        ],
                       "ManagementType": 2,
                       "NetworkAddress": "192.168.0.1"
                    }
                ],
                "DeviceName": "MX-0003I",
                "DeviceServiceTag": "MXL1234",
                "DeviceSubscription": null,
                "LastInventoryTime": "2019-01-21 06:30:08.501",
                "LastStatusTime": "2019-01-21 06:30:02.492",
                "ManagedState": 3000,
                "Model": "PowerEdge MX7000",
                "PowerState": 17,
                "SlotConfiguration": {},
                "Status": 4000,
                "SystemId": 2031,
                "Type": 2000
            }
        ]
    }
```

Examples

```
- name: Retrieve basic inventory of all devices.
  dellemc_ome_device_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
```

```
- name: Retrieve basic inventory for devices identified by IDs 33333 or 11111 using filtering.
  dellemc_ome_device_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    fact_subset: "basic_inventory"
    system_query_options:
      filter: "Id eq 33333 or Id eq 11111"


- name: Retrieve inventory details of specified devices identified by IDs 11111 and 22222.
  dellemc_ome_device_facts:
     hostname:  "192.168.0.1"
     username: "username"
     password: "password"
     fact_subset: "detailed_inventory"
     system_query_options:
       device_id:
        - 11111
        - 22222


- name: Retrieve inventory details of specified devices identified by service tags MXL1234 and
MXL4567.
  dellemc_ome_device_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    fact_subset: "detailed_inventory"
    system_query_options:
      device_service_tag:
        - MXL1234
        - MXL4567


- name: Retrieve details of specified inventory type of specified devices identified by ID and
service tags.
  dellemc_ome_device_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    fact_subset: "detailed_inventory"
    system_query_options:
      device_id:
        - 11111
      device_service_tag:
        - MXL1234
        - MXL4567
      inventory_type: "serverDeviceCards"


- name: Retrieve subsystem health of specified devices identified by service tags.
  dellemc_ome_device_facts:
    hostname:  "192.168.0.1"
    username:  "username"
    password:  "password"
    fact_subset: "subsystem_health"
    system_query_options:
      device_service_tag:
        - MXL1234
        - MXL4567
```

Manage device configuration templates

This section describes the specifications for viewing, creating, modifying and deploying templates on devices managed by OME for hardware configuration and deployment operations.

Following are the tasks for managing device configuration templates:

1 View templates
2 Create, modify or deploy a template

View templates

Module: dellemc_ome_template_facts

Synopsis

This module retrieves the list and details of all templates or details of a specific template.

Options

Table 51. dellemc_ome_template_facts

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target device HTTPS port
template_id	No	Na	Na	Unique ID of the template

Return Values

```
msg:
  type: str
  description: Over all template facts status.
  returned: on error
  sample: "Failed to fetch the template facts"
ansible_facts:
  type: dict
  description: Details of the templates.
  returned: success
  sample: {
        "192.168.0.1": {
            "CreatedBy": "system",
            "CreationTime": "1970-01-31 00:00:56.372144",
            "Description": "Tune workload for Performance Optimized Virtualization",
            "HasIdentityAttributes": false,
            "Id": 1,
            "IdentityPoolId": 0,
            "IsBuiltIn": true,
            "IsPersistencePolicyValid": false,
            "IsStatelessAvailable": false,
            "LastUpdatedBy": null,
            "LastUpdatedTime": "1970-01-31 00:00:56.372144",
            "Name": "iDRAC 14G Enable Performance Profile for Virtualization",
            "SourceDeviceId": 0,
```

```
            "Status": 0,
            "TaskId": 0,
            "TypeId": 2,
            "ViewTypeId": 4
        }
    }
```

Examples

```
- name: Retrieve basic details of all templates.
  dellemc_ome_template_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"

- name: Retrieve details of a specific template identified by its template ID.
  dellemc_ome_template_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    template_id: 1
```

Create, modify or deploy a template

Module: dellemc_ome_template

Synopsis

This module creates, modifies or deploys a template.

Options

Table 52. dellemc_ome_template

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target device HTTPS port
state	No	create	· create · modify · deploy	· C(create) creates a new template. · C(modify) modifies an existing template. · C(deploy) deploys an existing template.
template_id	No	NA	NA	Unique ID of the template to be modified or deployed. This option is mandatory for C(modify) and C(deploy) operations.
device_id	No	[ ]	NA	List of targeted device id(s) for C(deploy) or a single id for C(create) operation. Either I(device_id) or I(device_service_tag) is mandatory or both can be applicable.
device_service_tag	No	[ ]	NA	List of targeted device service tag(s) for C(deploy) or a single service tag for C(create) operation. Either I(device_id) or I(device_service_tag) is mandatory or both can be applicable.
template_view_type	No	Deployment	· Deployment, · Compliance · Inventory	The features that support template operations. This is applicable only for C(create) operation.

Parameter	Required	Default	Choices	Comments
			• Sample • None	
attributes	No	{ }	NA	• Name: Name of the template. This is mandatory for C(create) and C(modify) operations. • Description: Description of the template. This is applicable for C(create) and C(modify) operations. • Fqdds: This provides functionality to copy only certain areas of system configuration from the specified reference server. One or more of the following values may be specified in a comma-separated string: iDRAC, System, BIOS, NIC, LifeCycleController, RAID, EventFilters, All. Default value is 'All'. This is applicable for C(create) operation. • Options: Options to control device shutdown or end power state during template deployment. This is applicable for C(deploy) operation. • Schedule: Options to schedule the deployment task immediately or at a specified time. This is applicable for C(deploy) operation. • NetworkBootIsoModel: Payload to specify the ISO deployment details. This is applicable for C(deploy) operation. • Attributes: list of dictionaries of attribute values (if any) to be modified in the template to be deployed. This is applicable for C(deploy) operation. **NOTE: See OpenManage Enterprise API Reference Guide for more details.**

Return Values

```
msg:
  description: Overall status of the template operation.
  returned: always
  type: str
  sample: "Successfully created a Template with id 123"
return_id:
  description: id of the template for C(create) and C(modify) or task created in case of
C(deploy)
  returned: success
  type: int
  sample: 124
template_status:
  description: Details of the HTTP Error.
  returned: on HTTP error
  type: dict
  sample: {
    "error": {
      "code": "Base.1.0.GeneralError",
      "message": "A general error has occurred. See ExtendedInfo for more information.",
      "@Message.ExtendedInfo": [
        {
          "MessageId": "GEN1234",
          "RelatedProperties": [],
          "Message": "Unable to process the request because an error occurred.",
          "MessageArgs": [],
          "Severity": "Critical",
          "Resolution": "Retry the operation. If the issue persists, contact your system
administrator."
        }
      ]
    }
  }
```

Examples

```
- name: create template.
  dellemc_ome_template:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_id: 25123
    attributes:
      Name: "New Template"
      Description: "New Template description"


- name: modify template
  dellemc_ome_template:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    state: "modify"
    template_id: 1234
    attributes:
      Name: "New Custom Template"
      Description: "Custom Template Description"


- name: deploy template.
  dellemc_ome_template:
    hostname:  "192.168.0.1"
    username: "username"
    password: "password"
    state: "deploy"
    template_id: 1234
    device_id:
      - 12345
      - 45678
    device_service_tag: ['SVTG123', 'SVTG456']
    attributes:
      NetworkBootIsoModel:
        BootToNetwork: false
        ShareType: "NFS"
        IsoPath: "bootToIsoPath.iso"
        ShareDetail:
          IpAddress: "192.168.0.2"
          ShareName: "/nfsshare"
          User: null
          Password: null
      Attributes:
        - Id: 1234
          Value: "Test Attribute"
          IsIgnored: false
      Options:
        EndHostPowerState: 1
        ShutdownType: 0
        TimeToWaitBeforeShutdown: 300
      Schedule:
        RunLater: true
        RunNow: false
```

Manage the device firmware

This section describes the process of updating firmware on the devices managed by OME using OpenManage Ansible Modules.

You can update the device firmware using the following task:

- Update device firmware

Update device firmware

Module: dellemc_ome_firmware

Synopsis

This module updates the device firmware and all its components.

Options

Table 53. dellemc_ome_firmware

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target HTTPS port
device_service_tag	No	NA	NA	List of targeted device service tags.
device_id	No	NA	NA	List of targeted device ids.
dup_file	Yes	NA	NA	Executable file to apply on the targets.

Return Values

```
msg:
  type: str
  description: "Overall firmware update status."
  returned: always
  sample: "Successfully updated the firmware."
update_status:
  type: dict
  description: "Firmware Update job and progress details from the OME."
  returned: success
  sample: {
    'LastRun': None,
    'CreatedBy': 'user',
    'Schedule': 'startnow',
    'LastRunStatus': {
      'Id': 1111,
      'Name': 'NotRun'
    },
    'Builtin': False,
    'Editable': True,
    'NextRun': None,
    'JobStatus': {
      'Id': 1111,
      'Name': 'New'
    },
    'JobName': 'Firmware Update Task',
    'Visible': True,
    'State': 'Enabled',
    'JobDescription': 'dup test',
    'Params': [{
      'Value': 'true',
```

```
      'Key': 'signVerify',
      'JobId': 11111}, {
      'Value': 'false',
      'Key': 'stagingValue',
      'JobId': 11112}, {
      'Value': 'false',
      'Key': 'complianceUpdate',
      'JobId': 11113}, {
      'Value': 'INSTALL_FIRMWARE',
      'Key': 'operationName',
      'JobId': 11114}],
    'Targets': [{
      'TargetType': {
      'Id': 1000,
      'Name': 'DEVICE'},
      'Data': 'DCIM:INSTALLED#701__NIC.Mezzanine.1A-1-1=1111111111111',
      'Id': 11115,
      'JobId': 11116}],
    'StartTime': None,
    'UpdatedBy': None,
    'EndTime': None,
    'Id': 11117,
    'JobType': {
      'Internal': False,
      'Id': 5,
      'Name': 'Update_Task'}
}
```

Examples

```
- name: "Update firmware from DUP file using device ids."
  dellemc_ome_firmware:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_id:
      - 11111
      - 22222
    dup_file: "/path/Chassis-System-Management_Firmware_6N9WN_WN64_1.00.01_A00.EXE"


- name: "Update firmware from DUP file using device service tags."
  dellemc_ome_firmware:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_service_tag:
      - KLBR111
      - KLBR222
   dup_file: "/path/Network_Firmware_NTRW0_WN64_14.07.07_A00-00_01.EXE"
```

Manage jobs

This section describes the modules using which you can manage job operations.

Following are the tasks for managing jobs:

- View job details
- Manage power state operations

View job details

Module: dellemc_ome_job_facts

Synopsis

This module retrieves job details for a given job ID or the entire job queue.

Options

Table 54. dellemc_ome_job_facts

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target HTTPS port
job_id	No	NA	NA	Unique ID of the job
system_query_options	No	NA	• top: Number of records to return. Default value is 100. • skip: Number of records to skip. Default value is 0. • filter: Filter records by the values supported.	Options for pagination of the output

Return Values

```
msg:
  description: Overall status of the job facts operation.
  returned: always
  type: str
job_facts:
  description: Details of the OpenManage Enterprise jobs.
  returned: success
  type: dict
  sample: {
    "value": [
    {
      "Builtin": false,
      "CreatedBy": "system",
      "Editable": true,
      "EndTime": null,
      "Id": 12345,
      "JobDescription": "Refresh Inventory for Device",
      "JobName": "Refresh Inventory for Device",
      "JobStatus": {
        "Id": 2080,
        "Name": "New"
      },
      "JobType": {
        "Id": 8,
        "Internal": false,
        "Name": "Inventory_Task"
      },
      "LastRun": "2000-01-29 10:51:34.776",
      "LastRunStatus": {
        "Id": 2060,
        "Name": "Completed"
      },
      "NextRun": null,
      "Params": [],
      "Schedule": "",
      "StartTime": null,
      "State": "Enabled",
      "Targets": [
```

```
        {
          "Data": "''",
          "Id": 123123,
          "JobId": 12345,
          "TargetType": {
            "Id": 1000,
            "Name": "DEVICE"
          }
        }
      ],
      "UpdatedBy": null,
      "Visible": true
    }
  ]}
```

Examples

```
- name: Get all jobs details.
  dellemc_ome_job_facts:
    hostname:  "192.168.0.1"
    username: "username"
    password:  "password"


- name: Get job details for id.
  dellemc_ome_job_facts:
    hostname:  "192.168.0.1"
    username: "username"
    password:  "password"
    job_id: 12345


- name: Get filtered job details.
  dellemc_ome_job_facts:
    hostname:  "192.168.0.1"
    username: "username"
    password:  "password"
    system_query_options:
      top: 2
      skip: 1
      filter: "JobType/Id eq 8"
```

Manage power state operations

Module: ome_power_state

Synopsis

This module performs the supported power state management operations.

Options

Table 55. ome_power_state

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target device HTTPS port
power_state	Yes	NA	• on	Desired end power state

Parameter	Required	Default	Choices	Comments
			• off • coldboot • warmboot • shutdown	
device_id	No	NA	NA	Targeted device id. **NOTE: I(device_id) is mutually exclusive with I(device_service_tag).**
device_service_tag	No	NA	NA	Targeted device service tag. **NOTE: I(device_service_tag) is mutually exclusive with I(device_id).**

Return Values

```
msg:
  type: str
  description: "Overall power state operation job status."
  returned: always
  sample: "Power State operation job submitted successfully."
job_status:
  type: dict
  description: "Power state operation job and progress details from the OME."
  returned: success
  sample: {
    "Builtin": false,
    "CreatedBy": "user",
    "Editable": true,
    "EndTime": null,
    "Id": 11111,
    "JobDescription": "DeviceAction_Task",
    "JobName": "DeviceAction_Task_PowerState",
    "JobStatus": {
      "Id": 1111,
      "Name": "New"
      },
    "JobType": {
      "Id": 1,
      "Internal": false,
      "Name": "DeviceAction_Task"
      },
    "LastRun": "2019-04-01 06:39:02.69",
    "LastRunStatus": {
      "Id": 1112,
      "Name": "Running"
      },
    "NextRun": null,
    "Params": [
      {
        "JobId": 11111,
        "Key": "powerState",
        "Value": "2"
      },
      {
        "JobId": 11111,
        "Key": "operationName",
        "Value": "POWER_CONTROL"
      },
    ],
    "Schedule": "",
    "StartTime": null,
```

```
    "State": "Enabled",
    "Targets": [
      {
        "Data": "",
        "Id": 11112,
        "JobId": 11111,
        "TargetType": {
          "Id": 0000,
          "Name": "DEVICE"
        },
      },
    ],
    "UpdatedBy": null,
    "Visible": true
  }
```

Examples

```
- name: Power state operation based on device id.
  ome_powerstate:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_id: 11111
    power_state: "off"


- name: Power state operation based on device service tag.
  ome_powerstate:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_service_tag: "KLBR111"
    power_state: "on"


- name: Power state operation based on list of device ids.
  ome_powerstate:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_id: "{{ item.device_id }}"
    power_state: "{{ item.state }}"
  with_items:
    - { "device_id": 11111, "state": "on" }
    - { "device_id": 22222, "state": "off" }


- name: Power state operation based on list of device service tags.
  ome_powerstate:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    device_service_tag: "{{ item.service_tag }}"
    power_state: "{{ item.state }}"
  with_items:
    - { "service_tag": "KLBR111", "state": "on" }
    - { "service_tag": "KLBR222", "state": "off" }
```

Manage users

The following tasks are responsible for managing user accounts:

- View user account details
- Configure user accounts

View user account details

Module: dellemc_ome_user_facts

Synopsis

This module retrieves the list and basic details of all user accounts or details of a specific user account.

Options

Table 56. dellemc_ome_user_facts

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target device HTTPS port
account_id	No	NA	NA	Unique ID of the account

Return Values

```
msg:
  type: str
  description: Over all status of fetching user facts.
  returned: on error
  sample: "Failed to fetch the user facts"
ansible_facts:
  type: dict
  description: Details of the users.
  returned: success
  sample: {
        "192.168.0.1": {
            "Id": "1814",
            "UserTypeId": 1,
            "DirectoryServiceId": 0,
            "Description": "user name description",
            "Name": "user_name",
            "Password": null,
            "UserName": "user_name",
            "RoleId": "10",
            "Locked": false,
            "IsBuiltin": true,
            "Enabled": true
        }
    }
```

Examples

```
- name: Retrieve basic details of all accounts.
  dellemc_ome_user_facts:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"


- name: Retrieve details of a specific account identified by its account ID.
  dellemc_ome_user_facts:
  hostname: "192.168.0.1"
```

```
username: "username"
password: "password"
account_id: 1
```

Configure user accounts

Module: ome_user

Synopsis

This module:

- creates a new user account.
- modifies or deletes an existing user account.

Options

Table 57. ome_user

Parameter	Required	Default	Choices	Comments
hostname	Yes	NA	NA	Target IP Address or hostname
username	Yes	NA	NA	Target username
password	Yes	NA	NA	Target user password
port	No	443	NA	Target device HTTPS port
state	No	present	• present • absent	• C(present) creates a user in case the I(UserName) provided inside I(attributes) does not exist . • C(present) modifies a user in case the I(UserName) provided inside I(attributes) exists . • C(absent) deletes an existing user.
user_id	No	NA	NA	Unique ID of the user to be deleted. **NOTE: This option is mandatory for C(absent) operations.**
attributes	No	{ }	NA	Payload data for the user operations. It can take the following attributes for C(present): • UserTypeId • DirectoryServiceId • Description • Name • Password • UserName • RoleId • Locked • Enabled **NOTE: OME will throw an error message if required parameter is not provided for the operation.** **NOTE: See OpenManage Enterprise API Reference Guide for more details.**

Return Values

```
msg:
  description: Overall status of the user operation.
  returned: always
  type: str
  sample: "Successfully created a User"
user_status:
  description: Details of the user operation, when I(state) is C(present).
  returned: When I(state) is C(present).
  type: dict
  sample:
    {
        "Description": "Test user creation",
        "DirectoryServiceId": 0,
        "Enabled": true,
        "Id": "61546",
        "IsBuiltin": false,
        "Locked": false,
        "Name": "test",
        "ObjectGuid": null,
        "Oem": null,
        "Password": null,
        "PlainTextPassword": null,
        "RoleId": "10",
        "UserName": "test",
        "UserTypeId": 1
    }
```

Examples

```
- name: create user with required parameters.
  ome_user:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    attributes:
      UserName: "user1"
      Password: "UserPassword"
      RoleId: "10",
      Enabled: True

- name: create user with all parameters
  ome_user:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    attributes:
      UserName: "user2"
      Description: "user2 description"
      Password: "UserPassword"
      RoleId: "10"
      Enabled: True
      DirectoryServiceId: 0
      UserTypeId: 1
      Locked: False
      Name: "user2"

- name: modify existing user
  ome_user:
    hostname: "192.168.0.1"
    username: "username"
    password: "password"
    state: "present"
    attributes:
      UserName: "user3"
      RoleId: "10"
      Enabled: True
```

```
      Description: "Modify user Description"

- name: delete existing user.
  ome_user:
    hostname:  "192.168.0.1"
    username: "username"
    password: "password"
    state: "absent"
    user_id: "1234"
```

5

Troubleshooting

- While creating new iDRAC users, the provided values are not getting applied completely on 14G servers.

— In case the user is not created with all the required user settings, change the user setting with action option **modify** in the **dellemc_configure_idrac_users** module.

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Accessing documents from the Dell EMC support site

You can access the required documents using the following links:

- For Dell EMC Enterprise Systems Management documents — www.dell.com/esmmanuals
- For Dell EMC OpenManage documents — www.dell.com/openmanagemanuals
- For Dell EMC Remote Enterprise Systems Management documents — www.dell.com/esmmanuals
- For iDRAC and Dell Lifecycle Controller documents — www.dell.com/idracmanuals
- For Dell EMC OpenManage Connections Enterprise Systems Management documents — www.dell.com/esmmanuals
- For Dell EMC Serviceability Tools documents — www.dell.com/serviceabilitytools
- a Go to www.dell.com/support.

  b Click **Browse all products**.

  c From **All products** page, click **Software**, and then click the required link from the following:
  - **Analytics**
  - **Client Systems Management**
  - **Enterprise Applications**
  - **Enterprise Systems Management**
  - **Public Sector Solutions**
  - **Utilities**
  - **Mainframe**
  - **Serviceability Tools**
  - **Virtualization Solutions**
  - **Operating Systems**
  - **Support**

  d To view a document, click the required product and then click the required version.
- Using search engines:
  - Type the name and version of the document in the search box.