



Day 2 Operations of Cisco VIM Unified Management

The following topic guides you the details about the Day 2 Operations of Cisco VIM Unified Management.

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Shutting Down Cisco VIM Unified Management

To stop the Cisco VIM Unified Management Container services, shut down Cisco UCS VIM Unified Management by running the `systemctl stop service` command.

Step 1 Log in to a server in which the Unified Management container is running.

Step 2 Stop the Unified Management service by running the following command from the Shell window:

```
systemctl stop docker-insight
```

a) Check the status of Unified Management Container by running the following command: `docker ps -a | grep insight`.

```
STATUS
Up 6 seconds
```

b) Check the status of the service by running the following command:

```
systemctl status docker-insight
```

The following information is displayed

```
Docker-insight.service - Insight Docker Service
Loaded: loaded (/usr/lib/systemd/system/docker-insight.service; enabled; vendor preset: disabled)
Active: inactive (dead) since <Date and Time since it was last active>
```

Restarting Cisco VIM Unified Management

Step 1 Log In to the server in which the Unified Management container was stopped.

Step 2 Restart the Unified Management service by running the following command from the shell window:

```
systemctl restart docker-insight
```

a) Check the status of Unified Management container by running the following command: **docker ps -a | grep insight**.

```
STATUS
Up 6 seconds
```

b) Check the status of the service by running the following command:

```
systemctl status docker-insight
```

The following output is displayed:

```
Docker-insight.service - Insight Docker Service
Loaded: loaded (/usr/lib/systemd/system/docker-insight.service; enabled; vendor preset: disabled)
Active: active (running) since <Date and Time when it got active.>
```

Restoring VIM Unified Management

Cisco VIM Unified Management can be restored to its previous running state which existed at the time of backup.



Note It is not recommended to run the Unified Management on the node on which restore operation is performed.

Step 1 Re-image the Unified Management management node with the ISO version with which you want to restore the node, and with the same IP address that is used before the failure of the node.

Note Skip Step 1 if re-image is done with the ISO during management node restore. Unified Management restore can also be performed without re-image with ISO. Uninstall the Unified Management through `bootstrap_insight.py` and then restoring it by following below mentioned steps but this needs to be only done when you face issues with Unified Management and not in case of management node failure.

Step 2 Navigate to `/var/cisco/insight_backup/` directory at the remote server where the backup directory was copied during the backup operation.

Step 3 Copy the backup file to the `/var/cisco/insight_backup/` directory of the re-imaged management node. For example, to copy the backup directory from the remote host 20.0.0.5 to the management node `/var/cisco/insight_backup/directory`, execute the following command sequence: `rsync -e ssh -go -rtvpX --numeric-ids root@20.0.0.5:/var/cisco/insight_backup/backup_2017-01-09_14-04-38 /var/cisco/insight_backup.`

Step 4 In `/var/cisco/insight_backup/backup_<date-time>` directory, execute the following command:

```

# ./insight_restore -h

insight_restore : Cisco VIM Insight Restore Script
-----

Usage: ./insight_restore

-v          : Enable verbose mode

-h          : To display this help message

# ./insight_restore
This will initiate an Insight install with the backed up data.

VIM Insight restore logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log

Management Node Validations!
+-----+-----+-----+
| Rule           | Status | Error |
+-----+-----+-----+
| Check Kernel Version | PASS | None |
| Check Docker Version | PASS | None |
| Check Management Node Tag | PASS | None |
| Check Bond Intf. Settings | PASS | None |
| Root Password Check | PASS | None |
| Check Boot Partition Settings | PASS | None |
| Check LV Swap Settings | PASS | None |
| Check Docker Pool Settings | PASS | None |
| Check Home Dir Partition | PASS | None |
| Check Root Dir Partition | PASS | None |
| Check /var Partition | PASS | None |
| Check LVM partition | PASS | None |
| Check RHEL Pkgs Install State | PASS | None |
+-----+-----+-----+

Insight standalone Input Validations!
+-----+-----+-----+
| Rule           | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS | None |
| Valid key check in Insight Setup Data | PASS | None |
| Duplicate key check In Insight Setup Data | PASS | None |
| CVIM/Insight workspace conflict check | PASS | None |
| Check registry connectivity | PASS | None |
| Check Email server for Insight | PASS | None |
+-----+-----+-----+

Setting up Insight, Kindly wait!!!
Cisco VIM Insight Installed successfully!
+-----+-----+-----+
| Description           | Status | Details |
+-----+-----+-----+
| VIM Insight UI URL | PASS | https://<br_api:9000> |
| VIM UI Admin Email ID | PASS | Check for info @: <abs path of insight_setup_data.yaml> |
| | | |
| VIM UI Admin Password | PASS | Check for info @ /opt/cisco/insight/secrets.yaml |
| VIM Insight Workspace | PASS | /root/<insight_ws> |
+-----+-----+-----+

Cisco VIM Insight Autobackup Service Info!
+-----+-----+-----+
| Description           | Status | Details |
+-----+-----+-----+

```

```

+-----+
| VIM Insight Autobackup | PASS | [ACTIVE]: Running 'insight-autobackup.service' |
+-----+

VIM Insight restore successfully completed!

Done with VIM Insight restore!
VIM Insight restore logs are at: /var/log/insight/bootstrap_insight/

As the summary table describes, your VIM Insight workspace is restored and hence you need to use
bootstrap_insight.py from the mentioned workspace for performing any actions from here on.

```

Step 5 Run the following command, to verify Unified Management status after the restore operation.

```

# cd /root/<insight_ws>
# ./bootstrap_insight.py -a install-status
Cisco VIM Insight Install Status!
+-----+
| Description          | Status  | Details                                     |
+-----+
| VIM Insight Setup    | PASS   | Success                                   |
| VIM Insight Version  | PASS   | <release_tag>                             |
| VIM Insight UI URL   | PASS   | https://<br_api:9000>                       |
| VIM Insight Container | PASS   | insight_<tag_id>                           |
| VIM Mariadb Container | PASS   | mariadb_<tag_id>                           |
| VIM Insight Autobackup | PASS   | [ACTIVE]: Running 'insight-autobackup.service'|
| VIM Insight Workspace | PASS   | /root/installer-<tag_id>/insight           |
+-----+

```

Reconfiguring VIM Unified Management

UM reconfigure action provides you with three major functionalities:

1. Reconfigure Unified Management TLS Certificate.
2. Switch from Self Signed TLS Certificate to third-party TLS Certificate.
3. Reconfigure Unified Management MySQL Database Password.



Note Unified Management reconfiguration is not allowed after an update as the update is an intermediate stage between rollback and commit.

Reconfiguring Unified Management TLS Certificate

As the Unified Management web-service is protected by TLS, hence reconfigure action provides flexibility to change the existing TLS Certificate. As there were two approaches to configure it, there are also two approaches to change it.

Reconfiguring Third-party TLS Certificate

If you had provided your own TLS Certificate before Insight Installation through PEM_PATH key in insight_setup_data.yaml, then perform the following steps to reconfigure it.

- Step 1** Enter the command: `# cd <path insight_setup_data.yaml>`
- Step 2** Open the insight_setup_data.yaml file using the command `# vi insight_setup_data.yaml`
- Step 3** Edit the insight_setup_data.yaml to change the value of PEM_PATH and/or SSL_CERT_CHAIN_FILE key to point to the path of your new valid TLS/Cert Chain File Certificate. Then, save the file.

For example:

```
PEM_PATH: "/root/new_tls.pem"
SSL_CERT_CHAIN_FILE: "/root/new_ssl.crt"
```

- Step 4** Enter the following commands:

```
# cd <insight_ws>

# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml>

VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log

Perform the action. Continue (Y/N)y

Management node validation!
+-----+-----+-----+
| Rule | Status | Error |
+-----+-----+-----+
| Check Kernel Version | PASS | None |
| Check Docker Version | PASS | None |
| Check Management Node Tag | PASS | None |
| Check Bond Intf. Settings | PASS | None |
| Root Password Check | PASS | None |
| Check Boot Partition Settings | PASS | None |
| Check LV Swap Settings | PASS | None |
| Check Docker Pool Settings | PASS | None |
| Check Home Dir Partition | PASS | None |
| Check Root Dir Partition | PASS | None |
| Check /var Partition | PASS | None |
| Check LVM partition | PASS | None |
| Check RHEL Pkgs Install State | PASS | None |
+-----+-----+-----+

Insight standalone input validation!
+-----+-----+-----+
| Rule | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS | None |
| Valid key check in Insight setup data | PASS | None |
| Duplicate key check In Insight setup data | PASS | None |
| CVIM/Insight workspace conflict check | PASS | None |
| Check registry connectivity | PASS | None |
| Check Email server for Insight | PASS | None |
+-----+-----+-----+

WARNING!! reconfigure will have few secs of Outage for Insight!
```

Cisco VIM Insight Already Exists!

Description	Status	Details
VIM Insight UI URL	PASS	https://<br_api:9000>
VIM UI Admin Email ID	PASS	Check for info @: <abs path of insight_setup_data.yaml>
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml
VIM Insight Workspace	PASS	/root/<insight_ws>

Cisco VIM Insight backup Info!

Description	Status	Details
Insight backup Status	PASS	Backup done @ /var/cisco/insight_backup/backup-<release_tag>-<date_time>

Done with VIM Insight reconfigure!

VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

As the summary table describes Insight gets autobacked up after reconfigure at /var/cisco/insight_backup to preserve the latest state of Insight.

Reconfiguring Self Signed TLS Certificate

If you had created a new TLS Certificate through `tls_insight_cert_gen.py` before Unified Management Installation, follow the steps to reconfigure it.

Step 1 Run the following commands to reconfigure the self signed TLS certificate:

```
# cd <insight_ws>
# ./tls_insight_cert_gen.py -h
usage: tls_insight_cert_gen.py [-h] [--overwrite] --file INSIGHTSETUPDATA
TLS cert generator Insight

optional arguments:
  -h, --help            show this help message and exit
--overwrite, -o        Overwrite Insight certificates if already present in openstack config directory
--file INSIGHTSETUPDATA, -f INSIGHTSETUPDATA
                        Location of insight_setup_data.yaml
  # ./tls_insight_cert_gen.py -f <path insight_setup_data.yaml> --overwrite
                        This will overwrite the existing TLS certificate.
```

Management node validation

Rule	Status	Error
Check Kernel Version	PASS	None
Check Ansible Version	PASS	None
Check Docker Version	PASS	None
Check Management Node Tag	PASS	None
Check Bond Intf. Settings	PASS	None
Root Password Check	PASS	None
Check Boot Partition Settings	PASS	None
Check LV Swap Settings	PASS	None

```

| Check Docker Pool Settings      | PASS | None |
| Check Home Dir Partition        | PASS | None |
| Check Root Dir Partition        | PASS | None |
| Check /var Partition            | PASS | None |
| Check LVM partition             | PASS | None |
| Check RHEL Pkgs Install State   | PASS | None |
+-----+-----+-----+

```

Insight standalone input validation

```

+-----+-----+-----+
| Rule                                | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS   | None   |
| Valid key check in Insight setup data | PASS   | None   |
| Duplicate key check In Insight setup data | PASS   | None   |
| CVIM/Insight workspace conflict check | PASS   | None   |
| Check registry connectivity          | PASS   | None   |
| Check Email server for Insight       | PASS   | None   |
+-----+-----+-----+

```

Generating a 4096 bit RSA private key

```

.....++
writing new private key to '../openstack-configs/insight.key'
```

Step 2 Use the following command, to run the bootstrap:

```
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml>
VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_date>_<time>.log
```

Perform the action. Continue (Y/N)y

Management node validations

```

+-----+-----+-----+
| Rule                                | Status | Error |
+-----+-----+-----+
| Check Kernel Version              | PASS   | None   |
| Check Ansible Version              | PASS   | None   |
| Check Docker Version              | PASS   | None   |
| Check Management Node Tag          | PASS   | None   |
| Check Bond Intf. Settings          | PASS   | None   |
| Root Password Check                | PASS   | None   |
| Check Boot Partition Settings      | PASS   | None   |
| Check LV Swap Settings             | PASS   | None   |
| Check Docker Pool Settings         | PASS   | None   |
| Check Home Dir Partition           | PASS   | None   |
| Check Root Dir Partition           | PASS   | None   |
| Check /var Partition               | PASS   | None   |
| Check LVM partition                | PASS   | None   |
| Check RHEL Pkgs Install state      | PASS   | None   |
+-----+-----+-----+

```

Insight standalone input validation

```

+-----+-----+-----+
| Rule                                | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS   | None   |
| Valid key check in Insight setup data | PASS   | None   |
| Duplicate key check In Insight setup data | PASS   | None   |
| CVIM/Insight workspace conflict check | PASS   | None   |
| Check registry connectivity          | PASS   | None   |
| Check Email server for Insight       | PASS   | None   |
+-----+-----+-----+

```

Switch from Self Signed TLS Certificate to Third-party TLS Certificate

```
WARNING!! Reconfiguration will have few secs of outage for Insight
Cisco VIM Insight Already Exists!
```

Description	Status	Details
VIM Insight UI URL	PASS	https://<br_api:9000>
VIM UI Admin Email ID	PASS	Check for info @: <abs path of insight_setup_data.yaml>
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml
VIM Insight Workspace	PASS	/root/<insight_ws>

```
Cisco VIM Insight backup Info!
```

Description	Status	Details
Insight backup Status	PASS	Backup done @ /var/cisco/insight_backup/insight_backup_<release_tag>_<date_time>

```
Done with VIM Insight reconfigure!
```

```
VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"
```

```
Insight gets autobacked up after reconfiguration at /var/cisco/insight_backup, to preserve the latest state of Insight.
```

Switch from Self Signed TLS Certificate to Third-party TLS Certificate

If you had created a new TLS certificate through `tls_insight_cert_gen.py` before Insight Installation and want to switch to your own TLS Certificate, then perform the following steps.



Note You cannot switch from third-party TLS certificate to Self-signed TLS certificate.

Step 1 To switch from self-signed TLS certificate to third-party TLS certificate, open the `insight_setup_data.yaml` using the following command:

```
# cd <path insight_setup_data.yaml>
# vi insight_setup_data.yaml
```

Step 2 Edit the `insight_setup_data.yaml` to add `PEM_PATH` and `SSL_CERT_CHAIN_FILE` key to point to path of your new valid TLS and `SSL_CERT_CHAIN` certificate. Save the file after editing.

For example:

```
PEM_PATH: "/root/new_tls.pem"
SSL_CERT_CHAIN_FILE: "/root/new_ssl.crt"
```


Step 3 Following is the command to run the bootstrap:

```
# cd <insight_ws>
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml>
```

VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_date>_<time>.log
Perform the action. Continue (Y/N)y

Management node validation

Rule	Status	Error
Check Kernel Version	PASS	None
Check Ansible Version	PASS	None
Check Docker Version	PASS	None
Check Management Node Tag	PASS	None
Check Bond Intf. Settings	PASS	None
Root Password Check	PASS	None
Check Boot Partition Settings	PASS	None
Check LV Swap Settings	PASS	None
Check Docker Pool Settings	PASS	None
Check Home Dir Partition	PASS	None
Check Root Dir Partition	PASS	None
Check /var Partition	PASS	None
Check LVM partition	PASS	None
Check RHEL Pkgs Install State	PASS	None

Insight standalone input validation

Rule	Status	Error
Insight standalone schema validation	PASS	None
Valid key check in Insight setup data	PASS	None
Duplicate key check In Insight setup data	PASS	None
CVIM/Insight workspace conflict check	PASS	None
Check registry connectivity	PASS	None
Check Email server for Insight	PASS	None

WARNING!! Reconfiguration will have few secs of outage for Insight!

Cisco VIM Insight Already Exists!

Description	Status	Details
VIM Insight UI URL	PASS	https://<br_api:9000>
VIM UI Admin Email ID	PASS	Check for info @: <abs path of insight_setup_data.yaml>
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml
VIM Insight Workspace	PASS	/root/<insight_ws>

Cisco VIM Insight backup Info!

Description	Status	Details
Insight backup Status	PASS	Backup done @
		/var/cisco/insight_backup/insight_backup_<release_tag>_<date_time>

Done with VIM Insight reconfigure!
 VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

Insight gets autobacked up after reconfiguration at /var/cisco/insight_backup to preserve the latest state of Insight.

Reconfiguring Unified Management MySQL Database Password

There are two approaches to reconfigure the MySQL DB password:

1. System generated Unified Management DB password.
2. User supplied Unified Management DB password.

System-generated Unified Management DB Password

Following are the steps to generate MySQL Unified Management DB password:

Step 1 To generate the Unified Management DB Password run the following command:

```
# cd <insight_ws>
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml> --regenerate_secrets
```

VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log
 Perform the action. Continue (Y/N)y
 Management node validation

Rule	Status	Error
Check Kernel Version	PASS	None
Check Docker Version	PASS	None
Check Management Node Tag	PASS	None
Check Bond Intf. Settings	PASS	None
Root Password Check	PASS	None
Check Boot Partition Settings	PASS	None
Check LV Swap Settings	PASS	None
Check Docker Pool Settings	PASS	None
Check Home Dir Partition	PASS	None
Check Root Dir Partition	PASS	None
Check /var Partition	PASS	None
Check LVM partition	PASS	None
Check RHEL Pkgs Install State	PASS	None

Insight standalone input validation

Rule	Status	Error
Insight standalone schema validation	PASS	None
Valid key check in Insight setup data	PASS	None
Duplicate key check in Insight setup data	PASS	None
CVIM/Insight workspace conflict check	PASS	None
Check registry connectivity	PASS	None
Check Email server for Insight	PASS	None

WARNING!! reconfiguration will have few secs of Outage for Insight!

Cisco VIM Insight Already Exists!

Description	Status	Details
VIM Insight UI URL	PASS	https://<br_api:9000>
VIM UI Admin Email ID	PASS	Check for info @: <abs path of insight_setup_data.yaml>
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml
VIM Insight Workspace	PASS	/root/<insight_ws>

Cisco VIM Insight backup Info!

Description	Status	Details
Insight backup Status	PASS	Backup done @ /var/cisco/insight_backup/backup-<release_tag>-<date_time>

Done with VIM Insight reconfigure!

VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

As the summary table describes Insight gets autobacked up after reconfigure at /var/cisco/insight_backup to preserve the latest state of Insight.

Step 2 Verify the password change by running the following command:

```
# cat /opt/cisco/insight/secrets.yaml
DB_ROOT_PASSWORD: <new_db_password>
```

User-supplied Unified Management DB Password

Step 1 To provide your own MYSQL DB Password follow the below steps:

Note Your new DB password must contain alphanumeric characters and should be at least 8 characters long.

```
# cd <insight_ws>
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml> --setpassword
```

VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log

Perform the action. Continue (Y/N)y

Password for DB_ROOT_PASSWORD: <enter_valid_db_password>

Management node validation

Rule	Status	Error
Check Kernel Version	PASS	None
Check Ansible Version	PASS	None
Check Docker Version	PASS	None
Check Management Node Tag	PASS	None
Check Bond Intf. Settings	PASS	None
Root Password Check	PASS	None
Check Boot Partition Settings	PASS	None
Check LV Swap Settings	PASS	None
Check Docker Pool Settings	PASS	None
Check Home Dir Partition	PASS	None
Check Root Dir Partition	PASS	None

```

| Check /var Partition          | PASS | None |
| Check LVM partition          | PASS | None |
| Check RHEL Pkgs Install State | PASS | None |
+-----+-----+

```

Insight standalone input validation

```

+-----+-----+-----+
| Rule                                     | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation    | PASS   | None  |
| Valid key check in Insight setup data   | PASS   | None  |
| Duplicate key check In Insight setup data | PASS   | None  |
| CVIM/Insight workspace conflict check   | PASS   | None  |
| Check registry connectivity             | PASS   | None  |
| Check Email server for Insight          | PASS   | None  |
+-----+-----+-----+

```

WARNING!!Reconfiguration will have few secs of Outage for Insight!

Cisco VIM Insight Already Exists!

```

+-----+-----+-----+
| Description                            | Status | Details |
+-----+-----+-----+
| VIM Insight UI URL                     | PASS   | https://<br_api:9000> |
| VIM UI Admin Email ID                  | PASS   | Check for info @: <abs path of insight_setup_data.yaml> |
|                                         |        |         |
| VIM UI Admin Password                  | PASS   | Check for info @ /opt/cisco/insight/secrets.yaml |
| VIM Insight Workspace                  | PASS   | /root/<insight_ws> |
+-----+-----+-----+

```

Cisco VIM Insight backup Info!

```

+-----+-----+-----+
| Description                            | Status | Details |
+-----+-----+-----+
| Insight backup Status                  | PASS   | Backup done @ |
|                                         |        |         |
|                                         |        | /var/cisco/insight_backup/insight_backup_<release_tag>_<date_time>|
+-----+-----+-----+

```

Done with VIM Insight reconfigure!

VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

As the summary table describes Insight gets autobacked up after reconfigure at /var/cisco/insight_backup to preserve the latest state of Insight.

Step 2 Verify the password change by running the following command:

```

# cat /opt/cisco/insight/secrets.yaml
DB_ROOT_PASSWORD: <new_db_password>

```

Reconfiguring Unified Management SMTP Server

Unified Management requires a valid SMTP Server to send mails to users (Pod-Admin, UI-Admin, and regular users). If SMTP Server goes down, you can reconfigure it.

Following values can be reconfigured:

- INSIGHT_SMTP_SERVER

- INSIGHT_EMAIL_ALIAS_PASSWORD (only needed for Authenticated SMTP server)
- INSIGHT_EMAIL_ALIAS
- INSIGHT_SMTP_PORT (optional, defaults to 25)

Step 1 Run the following command to reconfigure the SMTP server:

```
# cd <path insight_setup_data.yaml>
Open insight_setup_data.yaml file
# vi insight_setup_data.yaml
Edit the insight_setup_data.yaml to change value of INSIGHT_SMTP_SERVER key. Save the file after editing.
```

Step 2 Run the bootstrap command as follows:

```
# cd <insight_ws>
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml>
VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log
Perform the action. Continue (Y/N)y
```

Management node validation

Rule	Status	Error
Check Kernel Version	PASS	None
Check Ansible Version	PASS	None
Check Docker Version	PASS	None
Check Management Node Tag	PASS	None
Check Bond Intf. Settings	PASS	None
Root Password Check	PASS	None
Check Boot Partition Settings	PASS	None
Check LV Swap Settings	PASS	None
Check Docker Pool Settings	PASS	None
Check Home Dir Partition	PASS	None
Check Root Dir Partition	PASS	None
Check /var Partition	PASS	None
Check LVM partition	PASS	None
Check RHEL Pkgs Install State	PASS	None

Insight standalone input validation

Rule	Status	Error
Insight standalone schema validation	PASS	None
Valid key check in Insight setup data	PASS	None
Duplicate key check In Insight setup data	PASS	None
CVIM/Insight workspace conflict check	PASS	None
Check registry connectivity	PASS	None
Check Email server for Insight	PASS	None

WARNING!! Reconfiguration will have few secs of Outage for Insight!

Cisco VIM Insight Already Exists!

Description	Status	Details
VIM Insight UI URL	PASS	https://<br_api:9000>
VIM UI Admin Email ID	PASS	Check for info @: <abs path of insight_setup_data.yaml>
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml

```

| VIM Insight Workspace | PASS | /root/<insight_ws> |
+-----+-----+-----+
Cisco VIM Insight backup Info!
+-----+-----+-----+
| Description          | Status | Details
|
+-----+-----+-----+
| Insight backup Status| PASS  | Backup done @
|
|                    |       | /var/cisco/insight_backup/insight_backup_<release_tag>_<date_time>|
+-----+-----+-----+

Done with VIM Insight reconfigure!
VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

Insight gets autobacked up after reconfiguration at /var/cisco/insight_backup to preserve the latest
state of Insight.

```

Reconfiguring Unified Management LDAP Server

Unified Management supports both LDAP and LDAP over SSL (LDAPS) for an Active Directory (AD) environment. If the LDAP server is down or if you need to change any of its configuration, execute Unified Management reconfigure action.

Step 1 Reconfigure the LDAP(s) server:

a) Run the following command to open `insight_setup_data.yaml` file:

```
# cd <path insight_setup_data.yaml>
```

b) Edit the `insight_setup_data.yaml`, using the following command, to change the value of LDAP keys.

```
:
```

```
# vi insight_setup_data.yaml
```

LDAP keys are listed below:

- `LDAP_MODE`: This key can be reconfigured only to 'True', to allow the user to switch only from No-LDAP to LDAP, and not vice-versa.
- `LDAP_SERVER`: This key is reconfigurable to switch to new LDAP server.
- `LDAP_PORT`: Reconfiguration of this key is allowed.
- `LDAP_ADMIN`: Reconfiguration of this key is allowed.
- `LDAP_ADMIN_PASSWORD`: Reconfiguration of this key is allowed.
- `LDAP_SECURE`: This key can be reconfigured only to 'True', to allow the user to switch from non-secure LDAP to secure LDAP connection, and not vice-versa.
- `LDAP_CERT_PATH`: This key can be reconfigured, to switch from Self-signed certificate to CA-signed certificate, and not vice-versa.
- `LDAP_USER_ID_ATTRIBUTE`: This key can be reconfigured to point to new LDAP user id attribute.

- LDAP_GROUP_SEARCH_FILTER: This key be reconfigured to set new group search filter.
- LDAP_GROUP_USER_SEARCH_FILTER: This key can be reconfigured to set new group-user search filter.

c) Save the edited file.

Step 2 Run the bootstrap command

```
# cd <insight_ws>
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml>

VIM Insight reconfigure logs are at: /var/log/insight/<bootstrap_insight_date>_<time>.log
Perform the action. Continue (Y/N)y
```

Management node validation

Rule	Status	Error
Check Kernel Version	PASS	None
Check Ansible Version	PASS	None
Check Docker Version	PASS	None
Check Management Node Tag	PASS	None
Check Bond Intf. Settings	PASS	None
Root Password Check	PASS	None
Check Boot Partition Settings	PASS	None
Check LV Swap Settings	PASS	None
Check Docker Pool Settings	PASS	None
Check Home Dir Partition	PASS	None
Check Root Dir Partition	PASS	None
Check /var Partition	PASS	None
Check LVM partition	PASS	None
Check RHEL Pkgs Install State	PASS	None

Insight standalone input validation

Rule	Status	Error
Insight standalone schema validation	PASS	None
Valid key check in Insight setup data	PASS	None
Duplicate key check In Insight setup data	PASS	None
CVIM/Insight workspace conflict check	PASS	None
Check registry connectivity	PASS	None
Check LDAP connectivity	PASS	None
Check Email server for Insight	PASS	None

WARNING!! Reconfiguration will have few secs of Outage for Insight!

Cisco VIM Insight Already Exists!

Description	Status	Details
VIM Insight UI URL	PASS	https://<br_api:9000>
VIM UI Admin Email ID	PASS	Check for info @: <abs path of insight_setup_data.yaml>
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml
VIM Insight Workspace	PASS	/root/<insight_ws>

Cisco VIM Insight backup Info!

Description	Status	Details
-------------	--------	---------

```

|
+-----+-----+-----+
| Insight backup Status| PASS | Backup done @
|
|                               | /var/cisco/insight_backup/insight_backup_<release_tag>_<date_time>|
+-----+-----+-----+

Done with VIM Insight reconfigure!
VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

Insight gets autobacked up after reconfiguration at /var/cisco/insight_backup to preserve the latest
state of Insight.

```

Reconfiguring Unified Management Optional Features

Unified Management supports reconfiguration of optional features.

Step 1 Reconfigure the UM optional feature:

a) Run the following command to open `insight_setup_data.yaml` file.

```
# cd <path insight_setup_data.yaml>
```

b) Edit the `insight_setup_data.yaml`, using the following command, to change the value of optional feature keys

```
# vi insight_setup_data.yaml
```

Optional features keys are listed below:

- **UM_ADMIN_AS_POD_ADMIN**: When set to True, all UM-Admins are added as pod-users with **Full-Pod-Access** during pod registration.
- **DISPLAY_ALL_POD_USERS**: If set to True, a drop-down appears in the user-registration form with a list of all the users with pod-user permissions while adding a new pod-user.

c) Save the edited file

Step 2 Run the bootstrap command:

```
# cd <insight_ws>
# ./bootstrap_insight.py -a reconfigure -f <path_to insight_setup_data.yaml>
```

VIM Insight reconfigure logs are at: `/var/log/insight/<bootstrap_insight_<date>_<time>.log` Perform the action. Continue (Y/N)y

```

Management node validation
+-----+-----+-----+
| Rule                               | Status | Error |
+-----+-----+-----+
| Check Kernel Version               | PASS  | None  |
| Check Ansible Version               | PASS  | None  |
| Check Docker Version                | PASS  | None  |
| Check Management Node Tag           | PASS  | None  |
| Check Bond Intf. Settings           | PASS  | None  |
| Root Password Check                 | PASS  | None  |
| Check Boot Partition Settings       | PASS  | None  |

```



```

| Check LV Swap Settings          | PASS | None |
| Check Docker Pool Settings     | PASS | None |
| Check Home Dir Partition       | PASS | None |
| Check Root Dir Partition       | PASS | None |
| Check /var Partition           | PASS | None |
| Check LVM partition            | PASS | None |
| Check RHEL Pkgs Install State  | PASS | None |
+-----+-----+-----+

```

Insight standalone input validation

```

+-----+-----+-----+
| Rule                               | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS   | None  |
| Valid key check in Insight setup data | PASS   | None  |
| Duplicate key check In Insight setup data | PASS   | None  |
| CVIM/Insight workspace conflict check | PASS   | None  |
| Check registry connectivity          | PASS   | None  |
| Check LDAP connectivity              | PASS   | None  |
| Check Email server for Insight       | PASS   | None  |
+-----+-----+-----+

```

WARNING!! Reconfiguration will have few secs of Outage for Insight

Cisco VIM Insight Already Exists!

```

+-----+-----+-----+
| Description                          | Status | Details |
+-----+-----+-----+
| VIM Insight UI URL                   | PASS   | https://<br_api:9000> |
| VIM UI Admin Email ID                | PASS   | Check for info @: <abs path of insight_setup_data.yaml> |
|                                       |        |          |
| VIM UI Admin Password                | PASS   | Check for info @ /opt/cisco/insight/secrets.yaml |
| VIM Insight Workspace                | PASS   | /root/<insight_ws> |
+-----+-----+-----+

```

Cisco VIM Insight backup Info!

```

+-----+-----+-----+
| Description                          | Status | Details |
+-----+-----+-----+
| Insight backup Status                | PASS   | Backup done @ |
|                                       |        |          |
|                                       |        | /var/cisco/insight_backup/insight_backup_<release_tag>_<date_time> |
+-----+-----+-----+

```

Done with VIM Insight reconfigure!

VIM Insight reconfigure logs are at: "/var/log/insight/bootstrap_insight/"

Insight gets autobacked up after reconfiguration at /var/cisco/insight_backup to preserve the latest state of Insight.

Step 3 c).

Update VIM Unified Management

VIM Unified Management update allows you to switch to a new Unified Management release.

The update action makes the old docker containers of Unified Management and mariadb in exit state, and brings up new ones with the new tag. The old containers and images are restored until you perform the **Commit** action.

Update is an intermediate action and allows you to do either a **Commit** action to settle for the current version or do a **Rollback** to revert back to the old version.

The old workspace is preserved, if you want to do a rollback to the previous version.

After an update:

- Your Unified Management workspace is set as the new workspace that you just extracted out of the tarball.
- Backup and reconfigure action are not allowed either from old or new Unified Management workspace.

Update Scenarios

Following are the update scenarios:

- Insight and mariadb containers gets updated to a new tag.
- Either insight or mariadb container gets updated to a new tag.

Update VIM Unified Management with Internet Access

Following are the steps to update VIM Unified Management:

Step 1 Get the new installer tar ball, which will be available after each release.

Extract the tar ball to get the new Unified Management workspace by running the following command:

```
# tar -xvzf mercury-installer.tar.gz
```

Step 2 Update the VIM Unified Management by running the following commands:

```
# cd /root/<new_insight_ws>/insight/  
/bootstrap_insight.py -a update
```

VIM Insight update logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log
Management Node validation!

```
+-----+-----+-----+  
| Rule                                     | Status | Error |  
+-----+-----+-----+  
| Check Kernel Version                   | PASS   | None  |  
| Check Docker Version                   | PASS   | None  |  
| Check Management Node Tag              | PASS   | None  |  
| Check Bond Intf. Settings              | PASS   | None  |  
| Root Password Check                    | PASS   | None  |  
| Check Boot Partition Settings          | PASS   | None  |  
| Check LV Swap Settings                 | PASS   | None  |  
| Check Docker Pool Settings             | PASS   | None  |  
| Check Home Dir Partition                | PASS   | None  |  
| Check Root Dir Partition                | PASS   | None  |  
| Check /var Partition                    | PASS   | None  |  
| Check LVM partition                     | PASS   | None  |  
| Check RHEL Pkgs Install State          | PASS   | None  |  
+-----+-----+-----+
```

Insight standalone input validation

```
+-----+-----+-----+
```

```

| Rule | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS | None |
| Valid key check in Insight setup data | PASS | None |
| Duplicate key check In Insight setup data | PASS | None |
| CVIM/Insight workspace conflict check | PASS | None |
| Check registry connectivity | PASS | None |
| Check Email server for Insight | PASS | None |
+-----+-----+-----+

Downloading Updated VIM Insight Artifacts, will take time!!!
Cisco VIM Insight update Info!
+-----+-----+-----+
| Description | Status | Details |
+-----+-----+-----+
| VIM Insight Container: insight_<new_tag> | PASS | Updated from insight_<old_tag>|
| VIM Mariadb Container: mariadb_<new_tag> | PASS | Updated from mariadb_<old_tag>|
+-----+-----+-----+

Done with VIM Insight update!
VIM Insight update logs are at: "/var/log/insight/bootstrap_insight/"

```

Step 3 Verify the Unified Management Update.

```

# ./bootstrap_insight.py -a update-status
Cisco VIM Insight Update Status!
+-----+-----+-----+
| Description | Status | Details |
+-----+-----+-----+
| VIM Insight Container: insight_<new_tag> | PASS | Updated from insight_<old_tag> |
| VIM Mariadb Container: insight_<new_tag> | PASS | Updated from mariadb_<old_tag> |
+-----+-----+-----+

```

VIM Unified Management without Internet Access

Step 1 Copy the new installer tar ball to the Unified Management Management Node.

Extract the tar ball to get the new Unified Management workspace by running the following command:

```
# tar -xvzf mercury-installer.tar.gz
```

Step 2 To download the new Unified Management artifacts, follow the steps given in section Preparing to Install Cisco NFVI on Management Nodes Without Internet Access, of *Cisco VIM Install Guide*.**Step 3** Run Import Artifacts:

```
# cd /root/installer_<tag_id>/tools
# ./import_artifacts.sh
```

This verifies that /var/cisco/artifacts on the management node has the following Insight artifacts, along with the other components 'insight-K9.tar' and 'mariadb-app-K9.tar'.

Step 4 Update the Unified Management by running the following command:

```
# cd ../insight/
```

```
# ./bootstrap_insight.py -a update

VIM Insight update logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log
Management node validations!
+-----+-----+-----+
| Rule                               | Status | Error |
+-----+-----+-----+
| Check Kernel Version               | PASS   | None  |
| Check Ansible Version               | PASS   | None  |
| Check Docker Version               | PASS   | None  |
| Check Management Node Tag          | PASS   | None  |
| Check Bond Intf. Settings          | PASS   | None  |
| Root Password Check                | PASS   | None  |
| Check Boot Partition Settings      | PASS   | None  |
| Check LV Swap Settings              | PASS   | None  |
| Check Docker Pool Settings         | PASS   | None  |
| Check Home Dir Partition            | PASS   | None  |
| Check Root Dir Partition            | PASS   | None  |
| Check /var Partition                | PASS   | None  |
| Check LVM partition                 | PASS   | None  |
| Check RHEL Pkgs Install State      | PASS   | None  |
+-----+-----+-----+

Insight standalone input validation
+-----+-----+-----+
| Rule                               | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation | PASS   | None  |
| Valid key check in Insight setup data | PASS   | None  |
| Duplicate key check In Insight setup data | PASS   | None  |
| CVIM/Insight workspace conflict check | PASS   | None  |
| Check registry connectivity         | PASS   | None  |
| Check Email server for Insight      | PASS   | None  |
+-----+-----+-----+

Updating VIM Insight, Kindly wait!!!
Cisco VIM Insight update Info!
+-----+-----+-----+
| Description                         | Status | Details |
+-----+-----+-----+
| VIM Insight UI URL                  | PASS   | https://<br_api:9000> |
| VIM Insight Container: insight_<new_tag> | PASS   | Updated from insight_<old_tag> |
| VIM Mariadb Container: mariadb_<new_tag> | PASS   | Updated from mariadb_<old_tag> |
| VIM Insight Workspace                | PASS   | /root/<new_insight_ws> |
+-----+-----+-----+

Done with VIM Insight update!
VIM Insight update logs are at: "/var/log/insight/bootstrap_insight/"
```

Step 5 Verify Unified Management update by running the following command:

```
# ./bootstrap_insight.py -a update-status
Cisco VIM Insight Update Status!
+-----+-----+-----+
| Description                         | Status | Details |
+-----+-----+-----+
| VIM Insight Container: insight_<new_tag> | PASS   | Updated from insight_<old_tag> |
| VIM Mariadb Container: insight_<new_tag> | PASS   | Updated from mariadb_<old_tag> |
+-----+-----+-----+
```

Rollback VIM Unified Management

VIM Unified Management Rollback provides feature to revert to the old UM release which is used before the update.

Following are some of the key points:

- The rollback action removes the new docker containers of Unified Management and mariadb which is created after an update and bring up old ones with the old tag.
- The new workspace is used to update the operation later or the VIM may be running from it.
- After rollback, your Unified Management workspace is the old workspace which you were using before the update.

Following are the steps to perform Unified Management rollback:

Step 1 Run the following command to rollback VIM Unified Management:

```
# cd /root/<new_insight_ws>
# ./bootstrap_insight.py -a rollback

VIM Insight rollback logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log

Management node validation!
+-----+-----+-----+
| Rule                                     | Status | Error |
+-----+-----+-----+
| Check Kernel Version                    | PASS   | None  |
| Check Ansible Version                   | PASS   | None  |
| Check Docker Version                     | PASS   | None  |
| Check Management Node Tag                | PASS   | None  |
| Check Bond Intf. Settings                | PASS   | None  |
| Root Password Check                      | PASS   | None  |
| Check Boot Partition Settings            | PASS   | None  |
| Check LV Swap Settings                   | PASS   | None  |
| Check Docker Pool Settings               | PASS   | None  |
| Check Home Dir Partition                 | PASS   | None  |
| Check Root Dir Partition                 | PASS   | None  |
| Check /var Partition                     | PASS   | None  |
| Check LVM partition                      | PASS   | None  |
| Check RHEL Pkgs Install State            | PASS   | None  |
+-----+-----+-----+

Insight standalone input validation
+-----+-----+-----+
| Rule                                     | Status | Error |
+-----+-----+-----+
| Insight standalone schema validation     | PASS   | None  |
| Valid key check in Insight setup data    | PASS   | None  |
| Duplicate key check In Insight setup data | PASS   | None  |
| CVIM/Insight workspace conflict check   | PASS   | None  |
| Check registry connectivity              | PASS   | None  |
| Check Email server for Insight           | PASS   | None  |
+-----+-----+-----+

VIM Insight rollback in progress, Kindly wait!!!
```

```

Cisco VIM Insight rollback Info!
+-----+-----+-----+
| Description          | Status | Details          |
+-----+-----+-----+
| VIM Insight UI URL   | PASS   | https://<br_api:9000> |
| VIM Insight Container: insight_<old_tag> | PASS   | Rollback from insight_<new_tag>|
| VIM Mariadb Container: mariadb_<old_tag> | PASS   | Rollback from mariadb_<new_tag>|
| VIM Insight Workspace | PASS   | /root/<old_insight_ws> |
+-----+-----+-----+
Done with VIM Insight rollback!
VIM Insight rollback logs are at: "/var/log/insight/bootstrap_insight/"

```

Step 2 Verify the rollback status by running the following command:

```

# ./bootstrap_insight.py -a install-status
Cisco VIM Insight Install Status!
+-----+-----+-----+
| Description          | Status | Details          |
+-----+-----+-----+
| VIM Insight Version  | PASS   | <release_tag>    |
| VIM Insight UI URL   | PASS   | https://<br_api:9000> |
| VIM Insight Container | PASS   | insight_<tag_id>  |
| VIM Mariadb Container | PASS   | mariadb_<tag_id>  |
| VIM Insight Workspace | PASS   | /root/<insight_ws> |
+-----+-----+-----+

```

Commit VIM Unified Management

VIM Insight commit supports for a new Insight release after an update.

Following are some of the key points:

- The old workspace will not be deleted and remain as it is.
- After the commit, your Unified Management workspace which has been used for the update is the new workspace.

Step 1 Run the following command to commit VIM Insight:

```

# cd /root/<new_insight_ws>
# ./bootstrap_insight.py -a commit
VIM Insight commit logs are at: /var/log/insight/<bootstrap_insight_<date>_<time>.log
Management Node Validation!
+-----+-----+-----+
| Rule                  | Status | Error |
+-----+-----+-----+
| Check Kernel Version  | PASS   | None |
| Check Ansible Version | PASS   | None |
| Check Docker Version  | PASS   | None |
| Check Management Node Tag | PASS   | None |
| Check Bond Intf. Settings | PASS   | None |
| Root Password Check   | PASS   | None |

```

```

| Check Boot Partition Settings | PASS | None |
| Check LV Swap Settings       | PASS | None |
| Check Docker Pool Settings  | PASS | None |
| Check Home Dir Partition     | PASS | None |
| Check Root Dir Partition     | PASS | None |
| Check /var Partition         | PASS | None |
| Check LVM partition          | PASS | None |
| Check RHEL Pkgs Install State | PASS | None |
+-----+-----+-----+

```

Insight standalone Input Validation!

```

+-----+-----+-----+
| Rule                                     | Status | Error |
+-----+-----+-----+
| Insight standalone Schema Validation     | PASS   | None   |
| Valid Key Check in Insight Setup Data   | PASS   | None   |
| Duplicate Key Check In Insight Setup Data | PASS   | None   |
| CVIM/Insight workspace conflict         | PASS   | None   |
| Check registry connectivity             | PASS   | None   |
| Check Email server for Insight          | PASS   | None   |
+-----+-----+-----+

```

VIM Insight commit in progress, Kindly wait!!!

Cisco VIM Insight commit Info!

```

+-----+-----+-----+
| Description                               | Status | Details |
+-----+-----+-----+
| VIM Insight UI URL                       | PASS   | https://<br_api:9000> |
| VIM Insight Container: insight_<old_tag> | PASS   | Rollback from insight_<new_tag> |
| VIM Mariadb Container: mariadb_<old_tag> | PASS   | Rollback from mariadb_<new_tag> |
| VIM Insight Workspace                    | PASS   | /root/<old_insight_ws> |
+-----+-----+-----+

```

Done with VIM Insight commit!

VIM Insight commit logs are at: "/var/log/insight/bootstrap_insight/"

Step 2 Verify the commit status by running the following command:

```

# ./bootstrap_insight.py -a install-status
Cisco VIM Insight Install Status!
+-----+-----+-----+
| Description                               | Status | Details |
+-----+-----+-----+
| VIM Insight Version                       | PASS   | <release_tag> |
| VIM Insight UI URL                       | PASS   | https://<br_api:9000> |
| VIM Insight Container                    | PASS   | insight_<tag_id> |
| VIM Mariadb Container                    | PASS   | mariadb_<tag_id> |
| VIM Insight Workspace                    | PASS   | /root/<insight_ws> |
+-----+-----+-----+

```

