



Installing Cisco VIM Unified Management



Note Cisco VIM Insight is also known as Cisco VIM Unified Management. They are interchangeable across the guide.

Cisco VIM offers a unified management solution which is available in the subsequent releases.

Cisco VIM Unified Management can be installed on two modes:

- Standalone/non-HA mode on a dedicated node to manage multiple VIM pods.
- Standalone/non-HA mode on the management node to manage a single VIM pod.

You can start the installation in a standalone/non-HA mode initially (on the management node of the pod) or a standalone (BOM) server. If VIM UM is hosted on the node where the VIM management service of a pod is running, ensure that the workspace for Insight is different from that of the installer. Rendition and migration from one install mode to another is easy as the UI interacts to each pod through REST API and very little RBAC information of both the admin and user is maintained in the database. As the UI interacts with the REST API, it is not necessary that the pod should be managed by Insight from day 0. You can register a pod, with an Insight instance after it is up and running.

Also, the UI has two types of Admin: UI Admin and Pod Admin. UI Admin is for the administrators who can add more folks as UI Admin or Pod admin. Pod Admin has privileges only at the pod level, whereas an UI Admin has privileges both at UI and pod level.

Complete the following procedure to install Cisco VIM Insight on the Cisco NFVI management node.

- [Cisco VIM UM with Internet Access, on page 2](#)
- [Installing Cisco VIM Unified Management without Internet Access , on page 6](#)
- [Installing Cisco VIM Unified Management with SDS, on page 9](#)
- [Installing Cisco VIM Unified Management Without SMTP, on page 9](#)
- [Cisco VIM Insight Post Bootstrap Validation Checks, on page 11](#)
- [VIM UM Admin Login for Standalone Setup, on page 14](#)
- [VIM UM Pod Admin Login for Standalone Setup, on page 15](#)

Cisco VIM UM with Internet Access

Complete the following steps to install Cisco VIM Insight on the Cisco NFVI management node. As security is paramount to pod management, the web-service hosting the single pane of glass is protected through TLS. Following are the steps to get the TLS certificate setup going.

You can select one of the following approaches for the TLS certificate configurations:

1. Provide your own certificate: You can bring in your certificate on the management node and provide the absolute path of .pem and CA certificate files in the insight_setup_data.yaml file. The path must be provided as a value for the key 'PEM_PATH' in the insight_setup_data.yaml file.
2. Generate a new certificate on the node: You can create a new certificate on the node by running the following command: `#!/tls_insight_cert_gen.py -f <path_to_insight_setup_data.yaml>/insight_setup_data.yaml`. This script searches for the 'PEM_PATH' inside the insight_setup_data.yaml. As the path is not provided, it creates a new certificate inside `install-dir/openstack-configs`.

Before you begin

Complete all Cisco NFVI preparation tasks that are described in [Preparing for Cisco NFVI Installation](#), and the management node that are described [Cisco VIM Management Node Networking](#). The procedure to bootstrap the node hosting the Insight is same as installing the buildnode.iso. Make sure that you plan for a standalone unified management node for production. Click the Yes option if the node is to be used in the production.

Step 1 Enter `ip a` to verify the `br_mgmt` and `br_api` interfaces are up and are bound to `bond0` and `bond1` respectively. For example:

```
$ ip a
br_api: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP link/ether 00:42:68:6f:79:f2
    brd ff:ff:ff:ff:ff:ff
inet nnn.nnn.nnn.nnn/25 brd nnn.nnn.nnn.nnn scope global br_api valid_lft forever preferred_lft
forever
inet6 fe80::3c67:7aff:fe9:6035/64 scope link valid_lft forever preferred_lft forever
bond1: <BROADCAST,MULTICAST,MASTER,UP,LOWER_UP> mtu 1500 qdisc noqueue master br_api state UP link/ether
    00:42:68:6f:79:f2 brd ff:ff:ff:ff:ff:ff
br_mgmt: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP link/ether 00:78:88:46:ee:6e
    brd ff:ff:ff:ff:ff:ff
inet nnn.nnn.nnn.nnn/24 brd nnn.nnn.nnn.nnn scope global br_mgmt valid_lft forever preferred_lft
forever
inet6 fe80::278:88ff:fe46:ee6e/64 scope link valid_lft forever preferred_lft forever
bond0: <BROADCAST,MULTICAST,MASTER,UP,LOWER_UP> mtu 1500 qdisc noqueue master br_mgmt state UP
link/ether 00:78:88:46:ee:6e brd ff:ff:ff:ff:ff:ff
```

Note The `br_mgmt` and `br_api` interfaces are created when you install the RHEL on the management node in [Installing the Management Node](#).

Step 2 Run the following commands to copy the installer directory and the standalone `insight_setup_data.yaml`.

a) Copy the installer dir to a directory in `/root/`. Start the name of the new directory with `Insight-tag_id`.

```
# cd /root/
# cp -pr installer-<tag_id> <Insight-tag_id>
```

- b) Copy the Standalone insight_setup_data.yaml. Standalone_EXAMPLE file from the Insight-dir/openstack-configs to any other location on the management node or the BOM.

```
# cp /root/Insight-<tag_id>/openstack-configs/insight_setup_data.yaml.
Standalone_EXAMPLE /root/insight_setup_data.yaml
```

Step 3 Modify the insight setup data according to your requirements.

```
#Configuration File:

#####
# User Defined Configuration File.
# Information in this file is specific to the user setup.
#####

# This file is used as an inventory file to setup Insight Container.

#####
# Registry credentials

#####
REGISTRY_USERNAME: '<username>'
REGISTRY_PASSWORD: '<password>'

# Install Mode: connected/disconnected, Optional parameter; default is connected
INSTALL_MODE: connected

# https_proxy: <Name of the proxy server without https://> ; Optional Parameter for INSTALL_MODE
# Needed for connected install only and not required for disconnected mode.

#####
# Super Admin Username Password
#####

# This User is the default Super Admin of the System and can Grant Access to all other Users getting
  registered to PODs.
# This is a mandatory field and is required to be filled every time.
UI_ADMIN_USERNAME: '<username>'
UI_ADMIN_EMAIL_ID: '<email_id@domain.com>'

# Please define the mail server off which the Insight email alias works;
# For example, outbound.cisco.com
# Mandatory: Valid SMTP Server is required for sending mails to the customers.
INSIGHT_SMTP_SERVER: <smtp.domain.com>
#INSIGHT_SMTP_PORT: <port no.>
#optional, defaults to 25, if undefined

# for Insight UI, customer needs to create a mailer, so that automated mails come from that alias;
# For example, vim-insight-admin@cisco.com
# Mandatory: You need to create a valid email alias that would be responsible for sending email
notification for Users and UI Admin.
INSIGHT_EMAIL_ALIAS: <Email-Alias@domain.com>
# Optional: Insight Email Alias Password is required if log in on a SMTP server requires authentication.
INSIGHT_EMAIL_ALIAS_PASSWORD: <password> #Optional

#TLS certificate path;
#Absolute TLS certificate path, can also be generated using the script tls_insight_cert_gen.py located
  at
# installer-<tagid>/insight/; if generated by: tls_insight_cert_gen.py, then entry of the info is
optional;
# the script copies the certs to installer-<tagid>/openstack-configs/ dir
PEM_PATH: <abs_location_for_cert_path>
```

```
#If using tls_insight_cert_gen.py to create the cert, please define the following:
CERT_IP_ADDR: <br_api of the insight node> # Mandatory
CERT_HOSTNAME: <Domain name for Cert>      # Optional
And then execute:
# cd installer-<tagid>/insight
# ./tls_insight_cert_gen.py --file <absolute path of insight_setup_data.yaml>
```

The script generates the certs at installer-<tagid>/openstack-configs/ dir

If bringing in a 3rd part Cert, skip the above step and define the following

```
CERT_IP_ADDR: <br_api of the insight node> # Mandatory
CERT_HOSTNAME: <Domain name for Cert> # Optional
PEM_PATH in insight_setup_data.yaml, and go to step 4 instead of executing # ./tls_insight_cert_gen.py
```

As part of insight bootstrap the script copy the certs to installer-<tagid>/openstack-configs/ dir

Step 4 Save the edited insight_setup_data.yaml file.

Step 5 Start the insight installation process.

```
$ cd /root/Insight-<tag_id>/insight/
$ ./bootstrap_insight.py --help
usage: bootstrap_insight.py [-h] --action ACTION
                             [--regenerate_secrets] [--setpassword]
                             [--file INSIGHTSETUPDATA] [--keep] [--verbose]
                             [--backupdir BACKUPDIR] [-y]
```

Insight install setup helper.

optional arguments:

```
-h, --help                show this help message and exit
--action ACTION, -a ACTION
                           install - Install Insight UI
                           install-status - Display Insight Install Status
                           reconfigure - reconfigure - Reconfigure Insight DB password,
                           TLS Certificate, INSIGHT_SMTP_SERVER,
                           INSIGHT_EMAIL_ALIAS_PASSWORD,
                           INSIGHT_EMAIL_ALIAS, INSIGHT_SMTP_PORT
                           update - Update Insight UI
                           update-status - Display Insight Update Status
                           rollback - Rollback Insight UI update
                           commit - Commit Insight UI update
                           backup - Backup Insight UI
                           uninstall - Uninstall Insight UI
--regenerate_secrets, -r
                           System generated INSIGHT_DB_PASSWORD
--setpassword, -s         User supplied INSIGHT_DB_PASSWORD,
--file INSIGHTSETUPDATA, -f INSIGHTSETUPDATA
                           Location of insight_setup_data.yaml
--keep, -k                Preserve Insight artifacts during uninstall
--verbose, -v             Verbose on/off
--backupdir BACKUPDIR, -b BACKUPDIR
                           Path to backup Insight
-y, --yes                 Option to skip reconfigure or uninstall steps without prompt
```

```
$ ./bootstrap_insight.py -a install -f </root/insight_setup_data.yaml>
```

VIM Insight install logs are at: /var/log/insight/bootstrap_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 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 |
| Test Email Server for Insight | PASS | None |

```

Downloading VIM Insight Artifacts, takes time!!!

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-<tag_id>/insight/ |
+-----+-----+-----+

```

Cisco VIM Insight backup Info!

```

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

```

Cisco VIM Insight Autobackup Service Info!

```

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

```

Done with VIM Insight install!

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

Logs of Insight Bootstrap are generated at : /var/log/insight/bootstrap_insight/ on the management node. Log file name for Insight Bootstrap are in the following format : bootstrap_insight_<date>_<time>.log. Only ten bootstrap Insight log files are displayed at a time. Once the bootstrap process is completed a summary table preceding provides the information of the UI

URL and the corresponding login credentials. After first login, for security reasons, we recommend you to change the Password.

Insight autobackup takes place after an install and is located at default backup location `/var/cisco/insight_backup`; details of which is provided in the backup summary table.

To add a new UI Admin in a setup that just got created, login to VIM insight and add a new UI admin user from the Manage UI Admin Users menu. Without doing a fresh install (that is un-bootstrap, followed by bootstrap) of the insight application, the UI admin that was bootstrapped cannot be changed.

Refer Cisco VIM Insight Post Bootstrap Validation Checks section, to verify the bootstrap status of Cisco VIM Insight.

Installing Cisco VIM Unified Management without Internet Access

Complete the following steps to install Cisco VIM Insight on the Cisco NFVI management node.

Management Node setup (without Internet):

For many service providers, the infrastructure on which Management Node setup is run is air-gapped. This presents an additional dimension for the orchestrator to handle. To support install that is air-gapped, refer to the section [Preparing for Installation on Servers Without InternetAccess](#), on page 41 and follow the steps to prepare 64G USB 2.0.

Before you begin

You must complete all Cisco NFVI preparation tasks described in [Preparing for Cisco NFVI Installation](#), on page 47 and the management node as described in [Cisco VIM Management Node Networking](#), on page 22

Step 1 Enter ip a to verify the br_mgmt and br_api interfaces are up and are bound to bond1 and bond0. For example:

```
$ ip a
br_api: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP link/ether 00:42:68:6f:79:f2
    brd ff:ff:ff:ff:ff:ff
inet nnn.nnn.nnn.nnn/25 brd nnn.nnn.nnn.nnn scope global br_api valid_lft forever preferred_lft
forever
inet6 fe80::3c67:7aff:fef9:6035/64 scope link valid_lft forever preferred_lft forever
bond1: <BROADCAST,MULTICAST,MASTER,UP,LOWER_UP> mtu 1500 qdisc noqueue master br_api state UP link/ether
    00:42:68:6f:79:f2 brd ff:ff:ff:ff:ff:ff
br_mgmt: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP link/ether 00:78:88:46:ee:6e
    brd ff:ff:ff:ff:ff:ff
inet nnn.nnn.nnn.nnn/24 brd nnn.nnn.nnn.nnn scope global br_mgmt valid_lft forever preferred_lft
forever
inet6 fe80::278:88ff:fe46:ee6e/64 scope link valid_lft forever preferred_lft forever
bond0: <BROADCAST,MULTICAST,MASTER,UP,LOWER_UP> mtu 1500 qdisc noqueue master br_mgmt state UP
link/ether 00:78:88:46:ee:6e brd ff:ff:ff:ff:ff:ff
```

Note The br_mgmt and br_api interfaces are created when you install RHEL on the management node in [Installing the Management Node](#), on page 56

Step 2 Run the following commands to copy the installer directory and the standalone insight_setup_data.yaml.

- a) Copy the installer dir to a another directory in /root/. The name of the new directory should start with Insight-

```
# cd /root/
# cp -r installer-<tag_id> Insight-<tag_id>
```

- b) Copy the Standalone insight_setup_data.yaml.Standalone_EXAMPLE file from the Insight-dir/openstack-configs to any other location on the management node or the BOM.

```
# cp /root/Insight-<tag_id>/openstack-configs/insight_setup_data.yaml.Standalone_EXAMPLE
/root/insight_setup_data.yaml
```

Step 3 Modify the insight setup data according to the requirements. Refer to the insight_setup_data.yaml and cert generation as listed in step 5 of the preceding section.

Step 4 Save the edited insight_setup_data.yaml file.

Step 5 Run Import Artifacts:

```
$ cd /root/insight-<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', 'mariadb-app-K9.tar'.

Step 6 Start the insight installation process.

```
$ cd /root/Insight-<tag_id>/insight/
$ ./bootstrap_insight.py --help
usage: bootstrap_insight.py [-h] --action ACTION
```

```
        [--regenerate_secrets] [--setpassword]
        [--file INSIGHTSETUPDATA] [--keep] [--verbose]
        [--backupdir BACKUPDIR] [-y]
```

Insight install setup helper.

optional arguments:

```
-h, --help                show this help message and exit
--action ACTION, -a ACTION
                        install - Install Insight UI
                        install-status - Display Insight Install Status
                        reconfigure - reconfigure - Reconfigure Insight DB password,
                        TLS Certificate, INSIGHT_SMTP_SERVER,
                        INSIGHT_EMAIL_ALIAS_PASSWORD,
                        INSIGHT_EMAIL_ALIAS, INSIGHT_SMTP_PORT
                        update - Update Insight UI
                        update-status - Display Insight Update Status
                        rollback - Rollback Insight UI update
                        commit - Commit Insight UI update
                        backup - Backup Insight UI
                        uninstall - Uninstall Insight UI
--regenerate_secrets, -r
                        System generated INSIGHT_DB_PASSWORD
--setpassword, -s         User supplied INSIGHT_DB_PASSWORD,
--file INSIGHTSETUPDATA, -f INSIGHTSETUPDATA
                        Location of insight_setup_data.yaml
--keep, -k                Preserve Insight artifacts during uninstall
--verbose, -v             Verbose on/off
--backupdir BACKUPDIR, -b BACKUPDIR
                        Path to backup Insight
-y, --yes                 Option to skip reconfigure or uninstall steps without prompt
```

```
$ ./bootstrap_insight.py -a install -f </root/insight_setup_data.yaml> Insight Schema Validation
would be initiated:
```

VIM Insight install 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 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
Test 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_<tag_id>/insight/

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 install!

VIM Insight install logs are at: /var/log/insight/bootstrap_insight/

Logs of Insight Bootstrap is generated at : /var/log/insight/bootstrap_insight/ on the management

node. Log file name for Insight Bootstrap is in the following format :
bootstrap_insight_<date>_<time>.log. Only ten bootstrap Insight log files are displayed at a time. Once the bootstrap process is completed a summary table preceding provides the information of the UI URL and the corresponding login credentials. After first login, for security reasons, we recommend you to change the Password.
Insight autobackup takes place after an install and is located at default backup location /var/cisco/insight_backup; details of which is provided in the backup summary table.

To add a new UI Admin in a setup that just got created, login to VIM insight and add a new UI admin user from the Manage UI Admin Users menu. Without doing a fresh install (that is un-bootstrap, followed by bootstrap) of the insight application, the UI admin that was bootstrapped with cannot be changed.

Refer Cisco VIM Insight Post Bootstrap Validation Checks , on page 128 to verify the bootstrap status of Cisco VIM Insight.

Installing Cisco VIM Unified Management with SDS

To reduce the logistics of the artifact distribution during an air-gapped installation, use SDS. To download the artifacts to the SDS server, follow the instructions available at [Installing SDS in Air-Gapped Mode](#). Then, you can use the connected way of installing Unified Management (UM) on the UM node.

To install UM on the UM node through SDS, you need REGISTRY_NAME as an additional field in the setup data for the UM node.

```
REGISTRY_NAME: '<registry_name>' #Mandatory Parameter when SDS is enabled.
```

For example, registry FQDN name [your.domain.com]. When SDS is not enabled, this parameter must not be used.

Once REGISTRY_NAME is defined in the setup data, the UM software fetches the artifacts from the SDS server as long as the INSTALL_MODE is defined to be connected or not defined in the insight_setup_data.yaml file. (By default, it is assumed to be connected).

To install Cisco VIM in connected mode, see the [Cisco VIM UM with Internet Access, on page 2](#).

Installing Cisco VIM Unified Management Without SMTP

By default, a SMTP infrastructure is required for Cisco VIM Unified Management service.

For releases starting from Cisco VIM 2.4.2, the Unified Management service is supported in the absence of SMTP.



Note The migration of the Unified Management service to SMTP enabled mode from the mode which does not require SMTP, is not supported.

To install Unified Management without SMTP, follow the below steps:

Step 1 Modify the insight_setup_data.yaml file and add following key:

```
SMTP_MODE: False
```

Step 2 Remove the following keys from the `insight_setup_data.yaml`:

```
INSIGHT_SMTP_SERVER
INSIGHT_EMAIL_ALIAS
INSIGHT_SMTP_PORT and
INSIGHT_EMAIL_ALIAS_PASSWORD
```

Step 3 Save the yaml file and begin the installation from the `insight` dir:

```
#!/bootstrap_insight.py -a install -f <path to insight_setup_data.yaml>
```

With SMTP disabled, bootstrap insight sets both the Super Admin and Pod Admin as the default user.

The user can login and register the Pod, but cannot perform the following:

- Add new user at POD Level.
- Add new Pod Admin.
- Add new Super Admin.

To add new user or update password for the existing user for Insight without SMTP, use the below script.

```
# ./user_populate.py --help
usage: user_populate.py [-h] [--username USERNAME] [--emailid EMAILID]
                        [--usertype USERTYPE] [--updatepass UPDATEPASS]
```

Optional arguments:

```
-h, --help                show the help message and exit
--username USERNAME, -u USERNAME
                           name of the user.
--emailid EMAILID, -e EMAILID
                           Email ID of the user.
--usertype USERTYPE, -t USERTYPE
                           User Type:
                           super_admin - User is Super User for Insight
                           pod_admin - User allowed to register new PODS
                           pod_user - User can only get associated with PODS
--updatepass UPDATEPASS, -p UPDATEPASS
                           Email ID of user whose password needs to be updated.
```

To add a user, enter the below command:

```
#!/user_populate.py -u abc -e abc@abc.com -t pod_user
```

- Note**
- **-t** can take one of the following values such as **super_admin**, **pod_admin**, and **pod_user** as an argument.
 - If the user already exists, an error stating "User already exists" is displayed. If the user is new, the script prompts to enter a new password and confirmation password.

To use forgot password functionality, use the below command:

```
#!/user_populate.py -p abc@abc.com
```

If the user is added or password has been changed using "-p" option, then on first login through Unified Management, the user is redirected to the **Change Password** page.

Cisco VIM Insight Post Bootstrap Validation Checks

1. After the VIM Insight bootstrap, you can view the status of Insight installation through install-status action using bootstrap.

```
$ 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 Autobackup | PASS | [ACTIVE]: Running 'insight-autobackup.service' |
| VIM Insight Workspace | PASS | /root/installer-<tag_id>/insight |
+-----+
```

2. You can also verify if the Insight and Mysql containers are up or not by running the following command:

```
$ docker ps -a
CONTAINER ID          IMAGE
COMMAND              CREATED              STATUS              NAMES
cbe582706e50         cvim-registry.com/mercury-rhel7-osp10/insight:7434
"/start.sh"         10 hours ago       Up 10 hours        insight_7321
68e3c3a19339         cvim-registry.com/mercury-rhel7-osp10/mariadb-app:7434
"/usr/bin/my_init /ma" 10 hours ago       Up 10 hours        mariadb <tag-id>
```

3. Check the status of Insight by running the following command :

```
$ systemctl status docker-insight
docker-insight.service - Insight Docker Service
Loaded: loaded (/usr/lib/systemd/system/docker-insight.service; enabled; vendor preset: disabled)
Active: active (running) since Fri 2017-04-07 13:09:25 PDT; 36s ago Main PID: 30768 (docker-current)
Memory: 15.2M
CGroup: /system.slice/docker-insight.service
└─30768 /usr/bin/docker-current start -a insight_<tag-id>

Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: Tables_in_rbac
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: buildnode_master
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: permission_master
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: role_master
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: role_permission
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: user_master
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: user_role
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: user_session
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: Starting the apache httpd
Apr 07 13:09:26 i11-tb2-ins-3 docker[30768]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 2.2.2.6.
Set the 'ServerName' directive gl... this message
Hint: Some lines were ellipsized, use -l to show in full.
```

4. Check if the Insight is up by running the following command:

```
$curl https://br_api:9000 -k (or --insecure)
Your response of curl should show the DOCTYPE HTML:
<!DOCTYPE html>
<!--[if lt IE 7]>    <html lang="en" ng-app="myApp" class="no-js lt-ie9 lt-ie8 lt-ie7">
  <![endif]-->
<!--[if IE 7]>      <html lang="en" ng-app="myApp" class="no-js lt-ie9 lt-ie8">
  <![endif]-->
<!--[if IE 8]>      <html lang="en" ng-app="myApp" class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html lang="en" ng-app="mercuryInstaller" class="no-js">
<!--<![endif]-->
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <title>Cisco VIM Installer</title>
    <meta name="description" content="">
    <meta name="viewport" content="width=device-width, initial-scale=1,
maximum-scale=1, user-scalable=0"/>
    <link rel="stylesheet"
href="../static/lib/html5-boilerplate/dist/css/normalize.css">
    <link rel="stylesheet" href="../static/lib/html5-boilerplate/dist/css/main.css">

    <link rel="stylesheet" href="../static/lib/bootstrap/bootstrap.min.css">
    <link rel="stylesheet" href="../static/lib/font-awesome/font-awesome.min.css">
    <!--<link
href="http://maxcdn.bootstrapcdn.com/font-awesome/4.1.0/css/font-awesome.min.css"
rel="stylesheet">-->
    <link rel="stylesheet" href="../static/lib/bootstrap/bootstrap-theme.min.css">
    <link rel="stylesheet" href="../static/lib/ui-grid/ui-grid.min.css">
    <link rel="stylesheet" href="../static/lib/chart/angular-chart.min.css">
    <script
src="../static/lib/html5-boilerplate/dist/js/vendor/modernizr-2.8.3.min.js"></script>
    <link rel="stylesheet" href="../static/css/app.css">
    <!--new dashboard css starts-->
    <link rel="stylesheet" href="../static/css/dashboard.css">
    <!--new dashboard css end-->
  </head>
  <body class="skin-blue sidebar-collapse" ng-controller="DashboardCtrl"
id="ToggleNavbar">
    <div class="wrapper" id="wrapper">

      <div class="content-wrapper" id="contentclass">
        <mi-header></mi-header>
        <mi-left-side-navbar></mi-left-side-navbar>
        <message-box> </message-box>
        <div class=" viewheight" ng-view autoscroll="true"></div>
      </div>

      <mi-footer></mi-footer>
    </div>
    <!--new dashboard js starts-->
    <script src="../static/lib/bootstrap/jquery.min.js"></script>
    <script src="../static/lib/jquery/jquery-ui.js"></script>
    <script src="../static/lib/bootstrap/progressbar.js"></script>
    <!--new dashboard js ends-->
    <script src="../static/lib/chart/Chart.min.js"></script>
    <script src="../static/lib/bootstrap/bootstrap.min.js"></script>
    <script src="../static/lib/angular/angular.js"></script>
    <script src="../static/lib/chart/angular-chart.min.js"></script>
    <script src="../static/lib/ui-grid/angular-touch.js"></script>
    <script src="../static/lib/ui-grid/angular-animate.js"></script>
```

```

    <script src="../../static/lib/uigrid/csv.js"></script>
    <script src="../../static/lib/uigrid/pdfmake.js"></script>
    <script src="../../static/lib/uigrid/vfs_fonts.js"></script>
    <script src="../../static/lib/uigrid/ui-grid.js"></script>
    <script src="../../static/lib/angular/smart-table.min.js"></script>
    <script src="../../static/lib/angular-route/angular-route.js"></script>
    <script src="../../static/lib/angular-cookies/angular-cookies.js"></script>
    <script src="../../static/lib/angular/angular-translate.js"></script>
    <script
src="../../static/lib/angular/angular-translate-loader-static-files.min.js"></script>
    <script
src="../../static/lib/angular/angular-translate-storage-cookie.min.js"></script>
    <script
src="../../static/lib/angular/angular-translate-storage-local.min.js"></script>
    <script src="../../static/lib/yamltojson/yaml.js"></script>
    <script src="../../static/lib/yaml/js-yaml.min.js"></script>
    <script src="../../static/lib/d3/d3min.js"></script>
    <script src="../../static/utility/utility.js"></script>
    <script src="../../static/widgets/widgets.js"></script>
    <script src="../../static/app.js"></script>
    <script src="../../static/layout/layout.js"></script>
    <script src="../../static/login/login.js"></script>
    <script src="../../static/globals/globals.js"></script>
    <script src="../../static/dashboard/dashboard.js"></script>
    <script src="../../static/cloudpulse/cloudpulse.js"></script>
<script src="../../static/blueprintsetup/physicalsetupwizard/ucsmcommon.js"></script>

<script src="../../static/blueprintsetup/physicalsetupwizard/cimcommon.js"></script>

    <script src="../../static/vmtp/runvmtp.js"></script>

<script src="../../static/blueprintsetup/physicalsetupwizard/networking.js"></script>

    <script
src="../../static/blueprintsetup/physicalsetupwizard/serverandroles.js"></script>
    <script src="../../static/blueprintsetup/openstacksetupwizard/cephsetup.js"></script>

    <script
src="../../static/blueprintsetup/openstacksetupwizard/cinderssetup.js"></script>
    <script
src="../../static/blueprintsetup/openstacksetupwizard/glancessetup.js"></script>
    <script src="../../static/blueprintsetup/openstacksetupwizard/haproxy.js"></script>

    <script
src="../../static/blueprintsetup/openstacksetupwizard/keystonesetup.js"></script>
    <script
src="../../static/blueprintsetup/openstacksetupwizard/swiftstack.js"></script>
    <script
src="../../static/blueprintsetup/openstacksetupwizard/neutronsetup.js"></script>
    <script src="../../static/blueprintsetup/openstacksetupwizard/vmtpsetup.js"></script>

    <script
src="../../static/blueprintsetup/physicalsetupwizard/physicalsetupwizard.js"></script>
    <script src="../../static/blueprintsetup/servicesSetupWizard/systemlog.js"></script>

<script src="../../static/blueprintsetup/servicesSetupWizard/nfvbench.js"></script>

    <script
src="../../static/blueprintsetup/servicesSetupWizard/servicesSetupWizard.js"></script>
    <script
src="../../static/blueprintsetup/openstacksetupwizard/openstacksetupwizard.js"></script>
    <script src="../../static/blueprintsetup/blueprintsetup.js"></script>
    <script src="../../static/blueprintmanagement/blueprintmanagement.js"></script>

```

```

<script src="../../static/topology/topology.js"></script>
<script src="../../static/monitoring/monitoring.js"></script>
<script src="../../static/horizon/horizon.js"></script>
<script src="../../static/podmanagement/podmanagement.js"></script>
<script
src="../../static/blueprintsetup/openstacksetupwizard/tlssupport.js"></script>
<script src="../../static/blueprintsetup/openstacksetupwizard/elksetup.js"></script>

<script src="../../static/systemupdate/systemupdate.js"></script>
<script
src="../../static/blueprintsetup/physicalsetupwizard/registrysetup.js"></script>
<script src="../../static/registerstestbed/registerstestbed.js"></script>
<script src="../../static/registerstestbed/registerstestbed.js"></script>
<script src="../../static/useradministration/managers.js"></script>
<script src="../../static/useradministration/rolemanagement.js"></script>
<script src="../../static/saasadmin/saasadmin.js"></script>
<script src="../../static/saasadmin/buildnodes.js"></script>
<script src="../../static/saasadmin/buildnodeusers.js"></script>
<script src="../../static/saasadmin/managesaasuser.js"></script>
<script src="../../static/saasadmin/usermanagement/saasadminusermgmt.js"></script>
<script src="../../static/blueprintsetup/physicalsetupwizard/nfvsetup.js"></script>

<script src="../../static/blueprintsetup/physicalsetupwizard/torswitch.js"></script>

<script src="../../static/blueprintsetup/openstacksetupwizard/vtssetup.js"></script>

<script src="../../static/rbacutilities/rbacutility.js"></script>
<script src="../../static/forgotpassword/forgotpassword.js"></script>
<script src="../../static/changepassword/changepassword.js"></script>
<script src="../../static/passwordreconfigure/passwordreconfigure.js"></script>
<script
src="../../static/openstackconfigreconfigure/openstackconfigreconfigure.js"></script>
<script
src="../../static/reconfigureoptionalservices/reconfigureoptionalservices.js"></script>
</body>

```

5. VIM Insight Autobackup: Insight will invoke Insight Autobackup as a daemon process. Autobackup is taken as an incremental backups of database and /opt/cisco/insight/mgmt_certs dir if there is any change.

You can check the status of Insight Autobackup service:

```

systemctl status insight-autobackup
insight-autobackup.service - Insight Autobackup Service
   Loaded: loaded (/usr/lib/systemd/system/insight-autobackup.service; enabled; vendor
   preset: disabled)
   Active: active (running) since Mon 2017-09-04 05:53:22 PDT; 19h ago
   Process: 21246 ExecStop=/bin/kill ${MAINPID} (code=exited, status=0/SUCCESS)
   Main PID: 21287 (python)
   Memory: 9.2M
   CGroup: /system.slice/insight-autobackup.service
           └─21287 /usr/bin/python
             /var/cisco/insight_backup/insight_backup_2.1.10_2017-08-31_03:02:06/root
             /rohan/installer-10416/insight/playbooks/./insight_autobackup.py

Sep 04 05:53:22 F23-insight-4 systemd[1]: Started Insight Autobackup Service.
Sep 04 05:53:22 F23-insight-4 systemd[1]: Starting Insight Autobackup Service...

```

VIM UM Admin Login for Standalone Setup

For security reasons, the Insight Admin logs in to the UI with which UM is bootstrapped and Add users. Insight Admin needs to add new users as Pod Admin.

Registration of UM Admin to UM

- Step 1** Enter the following address on the browser: `https://<br_api>:9000`.
- Step 2** Enter the Email ID and the Password. Email ID should be the one specified as 'UI_ADMIN_EMAIL_ID' in `insight_setup_data.yaml` during bootstrap. Password for UI Admins that are generated at: `/opt/cisco/insight/secrets.yaml` and key are 'UI_ADMIN_PASSWORD'.
- Step 3** Click **Login as UI Admin User**. You will be redirected to Insight UI Admin Dashboard.
-

VIM UM Pod Admin Login for Standalone Setup

- Step 1** Log in as Insight UM.
- Step 2** Navigate to **Manage Pod Admin** and click **Add Pod Admin**.
- Step 3** Enter a new Email ID in **Add Pod Admin** pop-up.
- Step 4** Enter the username of the Pod Admin.
- Step 5** Click **Save**. User Registration mail is sent to a newly added Pod Admin with a token.
- Step 6** Click the URL with token and if token is valid then Pod Admin is redirected to Insight-Update Password page.
- Step 7** Enter new password and then confirm the same password.
- Step 8** Click **Submit**.
-

