

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 staus 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.



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.

L

- **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!

Rul	e Status Error	+		+
Che	ck Kernel Version PAS	S No	one	+
Che	ck Docker Version PAS	S No	one	
Che	ck Management Node Tag	PAS	SS No	one
Che	ck Bond Intf. Settings	PAS	SS No	one
Roc	t Password Check	PAS	SS No	one
Che	ck Boot Partition Settings	PAS	SS No	one
Che	ck LV Swap Settings	PAS	SS No	one
Che	ck Docker Pool Settings	PAS	SS No	one
Che	ck Home Dir Partition	PAS	SS No	one
Che	ck Root Dir Partition	PAS	SS No	one
Che	ck /var Partition	PAS	SS No	one
Che	ck LVM partition	PAS	SS No	one
Che	ck RHEL Pkgs Install State	PAS	SS No	one
+		+	+	+

Insight standalone Input Validations!

Rule Status Error	.+-			+	+
Insight standalone schema validation Valid key check in Insight Setup Data Duplicate key check In Insight Setup Data CVIM/Insight workspace conflict check Check registry connectivity Check Email server for Insight		PASS PASS PASS PASS PASS PASS	 	None None None None None 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> T. ------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/>tp_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 Managment 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) \boldsymbol{y}

Management node validation!

+ +	Rule Status Error
. +	Check Kernel Version PASS None Check Docker 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 BHEL Pkgs Install State PASS None
+	+

Insight standalone input validation!

+	+-		+-		- +
Rule		Status	L	Error	I
+	+-		+-		-+
Insight standalone schema validation		PASS	L	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!

++	+		•+
++		+	-+
VIM Insight UI URL	PASS	https:// <br_api:9000></br_api:9000>	T
VIM UI Admin Email ID	PASS	Check for info @: <abs insight_setup_data.yaml="" of="" path=""></abs>	
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml	
VIM Insight Workspace	PASS	/root/ <insight_ws></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> </date_time></release_tag>

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

--overwrite, -o
--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	1	PASS		None
Check Management Node Tag		PASS		None
Check Bond Intf. Settings		PASS		None
Root Password Check	1	PASS		None
Check Boot Partition Settings		PASS		None
Check LV Swap Settings	1	PASS		None
Check Docker Pool Settings		PASS		None
Check Home Dir Partition	1	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 ++
i	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

	T			
+			_ + +	
Rule		Status	Error	
+			_ + +	
T				

	Insight standalone schema validation		PASS	None	
I	Valid key check in Insight setup data		PASS	None	
	Duplicate key check In Insight setup data		PASS	None	
L	CVIM/Insight workspace conflict check		PASS	None	1
	Check registry connectivity		PASS	None	- 1
L	Check Email server for Insight		PASS	None	1
+.		+		+	+

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></br_api:9000>	
VIM UI Admin Email ID	PASS	Check for info @: <abs insight_setup_data.yaml="" of="" path=""></abs>	
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml	
VIM Insight Workspace	PASS	/root/ <insight_ws></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> </date_time></release_tag>

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 thrid-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		S	tatus		Error	:
Check Ke Check An Check Do Check Ma Check Bo Root Pas	rnel Version sible Version cker Version nagement Node Tag nd Intf. Settings sword Check	+ 	PASS PASS PASS PASS PASS PASS PASS	++ 	None None None None None	+
Check LV Check LO Check Ho Check Ro Check Ro Check LV Check RH	Swap Settings cker Pool Settings me Dir Partition ot Dir Partition ar Partition M partition EL Pkgs Install State	 	PASS PASS PASS PASS PASS PASS PASS		None None None None None None	

Insight standalone input validation

Rule	Status	Error
<pre> Insight standalone schema validation Valid key check in Insight setup data Duplicate key check In Insight setup data CVIM/Insight workspace conflict check Check registry connectivity Check Email server for Insight</pre>	PASS PASS PASS PASS PASS PASS PASS	None None None None None 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></br_api:9000>	
VIM UI Admin Email ID	PASS	Check for info 0: <abs data.yaml="" insight="" of="" path="" setup=""></abs>	
			I
VIM UI Admin Password	PASS	Check for info @ /opt/cisco/insight/secrets.yaml	
VIM Insight Workspace	PASS	/root/ <insight_ws></insight_ws>	

Cisco VIM Insight backup Info!

-+

```
+----+
+ Description | Status| Details
+-----+
| 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 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
                  +----
                                                      | Status | Error |
          | Rule
```

L

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 Cisco VIM Insight Already	will hav	ve few secs	of Outag	e for I	nsight!	-+	
Description	Status	Details				Ì	
VIM Insight UI URL VIM UI Admin Email ID VIM UI Admin Password VIM UI Admin Password VIM Insight Workspace +	PASS PASS PASS PASS	https://< Check for Check for /root/ <ins< td=""><td>br_api:90 info @: info @ / sight_ws></td><td>00> <abs pa<br="">opt/cis</abs></td><th>th of insight_setup_data.yaml> co/insight/secrets.yaml</th><td>-+ </td><td> </td></ins<>	br_api:90 info @: info @ / sight_ws>	00> <abs pa<br="">opt/cis</abs>	th of insight_setup_data.yaml> co/insight/secrets.yaml	-+ 	

Cisco VIM Insight backup Info!

++ Insight backup Status PASS Backup done @ /var/cisco/insight_backup/backup- <release_tag>-<date_time> </date_time></release_tag>	+++ Description Sta	atus	Details	+
	+ Insight backup Status PAS 	+ SS 	Backup done @ /var/cisco/insight_backup/backup- <release_tag>-<date_time></date_time></release_tag>	+ +

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

+.			+-		-+	+		+
Ţ	Rule			Status		Errc	r	ļ
+.	Check	Kernel Version	+-	PASS		None		+
	Check	Ansible Version		PASS		None	1	

	Check Docker Version		PASS	None	
	Check Management Node Tag	1	PASS	None	
	Check Bond Intf. Settings	1	PASS	None	
T	Root Password Check	1	PASS	None	
	Check Boot Partition Settings	1	PASS	None	
	Check LV Swap Settings	1	PASS	None	
T	Check Docker Pool Settings	1	PASS	None	
	Check Home Dir Partition		PASS	None	
	Check Root Dir Partition	1	PASS	None	
	Check /var Partition		PASS	None	
	Check LVM partition	1	PASS	None	
Ι	Check RHEL Pkgs Install State		PASS	None	1
+-		+		+	+

Insight standalone input validation

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

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

Cisco VIM Insight Already Exists!

VIM Insight UI URL PASS https:// <br_api:9000> VIM UI Admin Email ID PASS Check for info @: <abs insight_setup_data.yaml="" of="" path=""> VIM UI Admin Password PASS Check for info @ /opt/cisco/insight/secrets.yaml VIM Insight Workspace PASS /root/<insight ws=""></insight></abs></br_api:9000>	De	scription	Status	Details	-+
VIM UI Admin Password PASS Check for info @ /opt/cisco/insight/secrets.yaml VIM Insight Workspace PASS /root/ <insight ws=""></insight>	VI VI VI	M Insight UI URL M UI Admin Email ID	PASS PASS	https:// <br_api:9000> Check for info @: <abs insight_setup_data.yaml="" of="" path=""></abs></br_api:9000>	
	 VI VI	M UI Admin Password M Insight Workspace	 PASS PASS		I

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 Check Ansible Version Check Docker Version Check Management Node Tag Check Bond Intf. Settings Root Password Check Check Boot Partition Settings Check LV Swap Settings Check Docker Pool Settings Check Home Dir Partition	PASS PASS	None 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 Valid key check in Insight setup data	PASS PASS	None None
I	Duplicate key check In Insight setup data	PASS	None
	CVIM/Insight workspace conflict check	PASS	None
I	Check registry connectivity	PASS	None
I	Check Email server for Insight	PASS	None
		1	

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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 acion.

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_MEMBER: This key can be reconfigured to set new attribute used on LDAP server for defining user-group association.
- LDAP_GROUP_USER_SEARCH_FILTER: This key can be reconfigured to set new group-user search filter.
- UM_ADMIN_GROUP: This key can be reconfigured to map LDAP role/group to Insight UM-Admin(s). This key is used when Insight authorization is via LDAP server.
- POD_ADMIN_GROUP: This key can be reconfigured to map LDAP role/group to Insight Pod-Admin(s). This key is used when Insight authorization is via LDAP server.
- POD_USER_GROUP: This key can be reconfigured to map LDAP role/group to Insight pod users with 'Full-pod-access'. This key is used, when Insight authorization is via LDAP server.
- READ_ONLY_POD_USER_GROUP: This key can be reconfigured to map LDAP role/group to Insight pod users with 'Read-only-access'. This key is used when Insight authorization is via LDAP server.
- LDAP_ROLE_MEMBER: This key can be reconfigured to set new attribute used on LDAP server for defining user-role/group-role association.
- 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
```

+		L	_	
+ +	Rule	Status	- -	Error
	Check Kernel Version Check Ansible Version Check Docker Version	PASS PASS PASS	 	None None None
	Check Management Node Tag Check Bond Intf. Settings	PASS PASS		None None
	Root Password Check Check Boot Partition Settings Check LV Swap Settings	PASS PASS PASS		None None
	Check Docker Pool Settings Check Home Dir Partition	PASS PASS		None None
	Check Root Dir Partition Check /var Partition Check LVM partition	PASS PASS PASS		None None 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 1 1 | Duplicate key check In Insight setup data | PASS | None | | CVIM/Insight workspace conflict check | PASS | None | | Check registry connectivity | PASS | None | | PASS | None | PASS | None 1 1 ---+----+----+ 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! +-----| Status| Details | Description +-----+ | Insight backup Status| PASS | Backup done @ 1 /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 Check Ansible Version Check Docker Version Check Management Node Tag Check Bond Intf. Settings Root Password Check Check Boot Partition Settings Check LV Swap Settings	PASS PASS PASS PASS PASS PASS PASS PASS	None None None None None None None
	Check LV Swap Settings Check Docker Pool Settings Check Home Dir Partition Check Root Dir Partition Check /var Partition Check LVM partition Check RHEL Pkgs Install State	PASS PASS PASS PASS PASS PASS	None None None None None None

Insight standalone input validation

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

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

Cisco VIM Insight Already Exists!

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

state of Insight.

Adding and Reconfiguring VIM Administrators

Cisco VIM UM supports management of the VIM Administrators.VIM administrator can log into the unified management node through SSH or the console using the configured password. By configuring to one VIM admin account, administrators do not have to share credentials. Administrators have individual accountability.

To enable one or more VIM administrators, perform the following steps:

Step 1 Take a backup of the setupdata file and update the file manually with the configurations listed as below:

```
vim_admins:
- vim_admin_username: <username>
vim_admin_password_hash: <sha512-password-hash>
- vim_admin_username: <username>
vim_admin_password_hash: <sha512-password-hash>
- vim_admin_username: <username>
vim_admin_password_hash: <sha512-password-hash>
The value of password_hash must be in the standard sha512 format. # To generate the hash
admin_password_hash should be the output from on the management node
# python -c "import crypt; print crypt.crypt('<plaintext password>')"
```

Step 2 Run the following reconfiguration commands:

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

Note Cisco VIM administrators can manage their own passwords using the Linux passwd command. You can add or remove Cisco VIM administrator through the reconfigure option, while the passwords for their existing accounts remain unchanged.

Enabling Root Login Post UM Node Installation

To complement the management of VIM administrators, Cisco VIM supports an option to enable/disable root access at login. By default, this option is set to True. You can optionally disable this facility through reconfiguration.

Following are the steps to enable root login:

Step 1 Take a backup of the setupdata file and update the file manually with the configurations listed below:

```
permit_root_login: <True or False> # if set to false, one has to use su to drop down to root and
execute administrator functionalities.
```

Step 2 Run the following reconfiguration commands:

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

Enabling Banner During SSH Login

Cisco VIM supports enabling of banner during ssh login to the management node. To enable banner during login, perform the following steps:

Step 1 Take a backup of the setupdata file and update the file manually with the configuration listed below:

```
ssh_banner:
    <your Banner Text>
```

Step 2 Run the following commands for reconfiguration:

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

Adding and Reconfiguring UM Administrators

Cisco VIM UM supports management of the UM Administrators whose access to the management node can be authenticated through an external LDAP server. For the users to obtain sudo access, you need to manually add the root user or any user with root privileges to the wheel group in the external LDAP server. Also, you must enable the pod with external TLS. To enable UM administrators with LDAP authentication, perform the following steps:

To enable one or more UM administrators, perform the following steps:

Step 1 Take a backup of the setupdata file and update the file manually with the configuration listed below:

```
UM LDAP ADMINS:
```

```
- domain name: corp ldap2
                                            # Required
   ldap uri: "ldaps://172.29.84.231"
                                            # Required For multiple ldap server pass comma separated
value.
    ldap search base: "dc=cisco,dc=com"
                                            # Required
    ldap schema: rfc2307
                                            # Optional
    ldap user object class: posixAccount # optional
    ldap user uid number: uidNumber
                                           # Optional
    ldap user gid number: uidNumber
                                          # Optional
   ldap_group_member: memberUid# Optionalldap_default_bind_dn: "<string>"# Optionalldap_default_authtok: "<string>"# Optional
    ldap_default_authtok_type: "<string>" # Optional (password|obfuscated password)
    ldap group search base: "<string>" # Optional
    ldap_user_search_base: "<string>"
                                           # Optional
    access provider: "<string>"
                                            # Optional
                                          # Optional
    simple_allow_groups: "<string>"
    ldap_cert_path: "<cert_path>"
                                           # Required
    ldap id use start tls: <boolean>
                                          # Optional
    ldap tls reqcert: "<string>"
                                           # Optional (never|allow|try|demand)
    chpass provider: "<string>"
                                            # Optional (ldap|krb5|ad|none)
```

- **Note** Multiple entries of the LDAP domain are allowed. For each entry, only domain_name and ldap_uri info are mandatory. Ensure that the ldap_uri is secured over ldaps. As part of reconfiguration, you can add new domain_name, but cannot change the domain_name once it is configured.
- Step 2 To reconfigure the UM LDAP admin, run the following commands:

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

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.

Upgrade Scenarios

L

Following are the upgrade scenarios:

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

Update VIM UM with Internet Access from 3.2.x to 3.4.1

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** Create an empty directory for Insight workspace: insight-<tag id>
- Step 3 Copy that extracted directory installer-<tag ig> inside insight-<tag id>
- **Step 4** Update the VIM UM 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 Check Docker Version Check Management Node Tag Check Bond Intf. Settings Root Password Check Check Boot Partition Settings Check LV Swap Settings Check Docker Pool Settings Check Home Dir Partition Check Root Dir Partition Check /var Partition Check LVM partition	PASS PASS	None None None None None None None None None None None
Check KHEL Pkgs Install State	PASS +	None

Insight standalone input validation

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

Downloading Updated VIM Insight Artifacts, will take time !!!

sco VIM Insight update Info! +	+	++
Description	Status	Details
<pre>/ VIM Insight Container: insight_<new_tag> / VIM Mariadb Container: mariadb_<new_tag></new_tag></new_tag></pre>	PASS PASS PASS	Updated from insight_ <old_tag> Updated from mariadb_<old_tag> </old_tag></old_tag>

Done with VIM Insight update!

VIM Insight update logs are at: "/var/log/insight/bootstrap insight/"

Step 5 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> |
+-----+
```

Upgrade VIM UM without Internet Access from 3.2.x to 3.4.2

Step 1 Copy the new installer tar ball to the Unified 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 |
+-----+
| Rule | Status | Error |
+-----+
| Check Kernel Version | PASS | None |
| Check Ansible Version | PASS | None |
| Check Docker Version | PASS | None |
| Check Management Node Tag | PASS | None |
```

L

Check Bond Intf. Settings	1	PASS		None	
Root Password Check		PASS		None	
Check Boot Partition Settings	1	PASS		None	
Check LV Swap Settings		PASS		None	
Check Docker Pool Settings	1	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 Valid key check in Insight setup data Duplicate key check In Insight setup data CVIM/Insight workspace conflict check Check registry connectivity Check Email server for Insight 	PASS PASS PASS PASS PASS PASS	None None None None None None

Updating VIM Insight, Kindly wait !!!

Cisco VIM Insight update Info!

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

Upgrade Cisco VIM UM from 2.4.x to 3.4.2

Following are the steps to upgrade Cisco VIM Unified Management from 2.4.x to 3.4.2.

Step 1 Get the installer tar ball for 3.4.2 release. Extract the tar ball to get the new UM workspace by running the following command:

tar -xvzf mercury-installer.tar.gz

- **Step 2** Create an empty directory to take a backup of Cisco VIM UM node.
- **Step 3** Run Insight upgrade script with '-b'[backup] option:
 - # cd /root/installer_<tag_id>/tools
 # ./insight_upgrade.sh -b -d <path of backup directory>
- Step 4 Copy the backup directory to the remote server. For example, to copy the backup directory /var/cisco/insight_upgrade_backup/ from the management node to the remote host 20.0.0.5, execute the following command sequence:

rsync -e ssh -go -rtvpX --numeric-ids /var/cisco/insight_upgrade_backup/ root@20.0.0.5:/var/cisco/insight upgrade backup/

- **Note** Ensure that the path root@20.0.0.5:/var/cisco/insight_upgrade_backup/ is available at the remote location.
- **Step 5** Re-image the UM node with the 3.4.2 ISO release version and with the same IP address.
- **Step 6** Copy the backup directory from the remote server to the management node. For example, to copy the backup directory /var/cisco/insight_upgrade_backup/ from remote host 20.0.0.5 to the management node, execute the following command sequence.

rsync -e ssh -go -rtvpX --numeric-ids root@20.0.0.5:/var/cisco/insight_upgrade_backup/ /var/cisco/insight_upgrade_backup/.

- Ensure that the path /var/cisco/insight upgrade backup/ is present on UM node.
 - For installation with Internet access, skip Step 7 and Step 8.
- Step 7To download the new UM artifacts, follow the steps given in section Preparing to Install Cisco NFVI on Management
Nodes Without Internet Access of Cisco Virtualiuzed Infrastructure Manager Installation Guide.

Step 8 Run Import artifacts:

```
#cd /root/installer_<tag_id>/tools
# ./import_artifacts.sh
This verifies that /var/cisco/artifacts on the management node contains the following Insight
artifacts, along with the other components 'insight-K9.tar' and 'mariadb-app-K9.tar'.'
```

Step 9 Run Insight upgrade with '-r'[restore] option:

```
# cd /root/installer_<tag_id>/tools
    # ./insight upgrade.sh -r -d <path of backup directory>
```

Step 10 After successful execution of upgrade, use 'reconfigure' option of bootstrap_insight to enable new Insight features or 'install-status' to check Insight installation status:

```
# cd ../insight/
    # ./bootstrap_insight.py -a install-status
    # ./bootstrap_insight.py -a reconfigure -f <insight_setup_data.yaml>
```

Rollback VIM Unified Management

Cisco VIM Unified Management rollback feature allows you 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 UM workspace is the old workspace which you were using before the update.

Following are the steps to perform UM rollback:

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

cd /root/<new insight ws>

Insight standalone input validation

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

VIM Insight rollback in progress, Kindly wait!!! Cisco VIM Insight rollback Info!

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

```
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:

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 is not deleted and retained 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:

L

Insight standalone Input Validation!					
Rule Stat	tus Erro				
<pre> Insight standalone Schema Validation Valid Key Check in Insight Setup Data Duplicate Key Check In Insight Setup Data CVIM/Insight workspace conflict Check registry connectivity Check Email server for Insight +</pre>	PASS PASS PASS PASS PASS PASS	None None None None None None			
Description	Status	Details			
VIM Insight UI URL VIM Insight Container: insight_ <old_tag> VIM Mariadb Container: mariadb_<old_tag> VIM Insight Workspace</old_tag></old_tag>	PASS PASS PASS PASS	<pre> https://<br_api:9000> Old container: insight-<old_tag> removed> Old container: mariadb-<old_tag> removed> /root/<old_insight_ws></old_insight_ws></old_tag></old_tag></br_api:9000></pre>			
Done with VIM Insight commit! VIM Insight commit logs are at: "/var/log/insight/bootstrap_insight/"					

Note If update is done from 3.0.x to 3.4.2, the following warning message to reconfigure Insight is displayed.

Warning: Insight setup-data key 'UM_ADMIN_AS_POD_ADMIN' is deprecated from version 3.4.2 and Please 'reconfigure' using 'UM_ADMIN_WITH_FULL_POD_ACCESS' as a new name of the key

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

Uploading Glance Images

On Day0, all the Glance Images to be uploaded are kept in a folder. To view those images under **Pod Image Management**, copy those images using the glance_image_copy.sh script.

1. The glance image copy.sh script is available in the insight folder, same as the bootstrap insight.py level.

'ploop' -h : To display this help

2. Use **-d** option, which represents the directory path of Glance Images to be uploaded, and copy the Glance Images by running the following command:

```
[root@gg34-bn insight]# ./glance_image_copy.sh -d /root/ImagesDir/
Copying /root/ImagesDir/mini.iso ...
Copying /root/ImagesDir/xenial-server-cloudimg-amd64-disk1.vmdk ...
Copying /root/ImagesDir/cirros-0.4.0-x86_64-disk.img ...
Copying /root/ImagesDir/CentOS-7-x86_64-GenericCloud-1905.raw ...
```

After copying images using the glance_image_copy.sh script, refresh Cisco VIM Unified Management appliance to view the Glance Images under Pod Image Management. Now, you can select multiple images and upload it.