



Cisco Intersight with NetApp ONTAP Storage

FlexPod

NetApp
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Cisco Intersight with NetApp ONTAP Storage

Cisco Intersight with NetApp Storage Quick Start Guide

In partnership with:



Introduction

NetApp and Cisco have partnered to provide Cisco Intersight, a single-pane view of the FlexPod ecosystem. This simplified integration creates a unified management platform for all components in the FlexPod infrastructure and FlexPod solution. Cisco Intersight allows you to monitor NetApp storage, Cisco compute, and VMware inventory. It also allows you to orchestrate or automate workflows to accomplish storage and virtualization tasks in tandem.

Related information

To learn more, see the following documents and websites:

[TR 4883: FlexPod Datacenter with ONTAP 9.8, ONTAP Storage Connector for Cisco Intersight, and Cisco Intersight Managed Mode](#)

[Cisco Intersight help center](#)

[Cisco Intersight Getting Started Overview](#)

[Intersight Appliance Install and Upgrade Guide](#)

What's new

This section lists new features and functionality available for Cisco Intersight with NetApp ONTAP storage.

January 2024

- NetApp storage orchestration using reference workflows now available for download in GitHub through the [FlexPod Intersight Workflow repository](#). For more information on the new reference workflows in GitHub, see [Use case 2: NetApp storage orchestration using Reference Workflows](#).

November 2023

- Added NVMe Namespaces page under the Inventory section of the user interface.

August 2023



An upgrade to NetApp Active IQ Unified Manager 9.13GA is required to ensure compatibility and full functionality with the latest release.

- Improved the New NetApp Smart LUN task to clearly indicate the availability of selection options for either creating a new initiator group or selecting an existing initiator group. When users now select the box to create a new initiator group, the parameter for choosing an existing initiator group is no longer available. If users deselect the box to create a new initiator group, the existing initiator group parameter then becomes available.
- Enhanced the New NetApp LUN Map and Remove NetApp LUN Map tasks. The new relationship between the LUN and initiator group is now updated. The UI inventory is immediately updated for both the LUN and the initiator group upon task execution.
- The Checks page now loads properly the first-time users log in and no longer requires a refresh.

July 2023



An upgrade to NetApp Active IQ Unified Manager 9.13GA is required to ensure compatibility and full functionality with the latest release.

- Updated names for NetApp storage tasks. See Use case 3 Custom workflows using designer-free form for the complete list of renamed tasks.
- NFS Interface IP address was added as an output of the New NetApp NAS Smart Volume task.
- A check that ASUP transport is HTTPS was added to the Checks tab.
- The correct tier type for all tiers now displays properly under the Tiers user interface.
- All compliant licenses now display properly under the Licenses page.
- Accurate value for CIFS shares without or without a home directory now display on the Shares page.
- Sorting and filtering now enabled for the Mapped column on the LUNS page.
- Sorting and filtering now enabled the Authentication Enabled column on the NTP Servers page.
- Added new checks and the following corresponding categories to the Checks tab.
 - Security
 - Anti-Ransomware
 - Availability
 - Other
- Under the Inventory detail view, report now used instead of physical used capacity.

June 2023



An upgrade to NetApp Active IQ Unified Manager 9.13RC1 is required to ensure compatibility and full functionality with the latest release.

- Updated names for NetApp storage tasks. See [Use case 3 Custom workflows using designer-free form](#) for the complete list of renamed tasks.

April 2023

- Added Protection Policies (SnapMirror) and Snapshot Policies tabs under the Policies page within the Inventory section of the user interface.
- Added NFS Clients page under the Inventory section of the user interface.

- Added Protected column in the Storage VMs page under the Inventory section of the user interface.
- Modified how Data Reduction information is reported and displayed.
- Added Local Tier and Cloud Tier tabs under the Tiers page within the Inventory section of the user interface.
- Node column now displays after the Name column under the Ports page within the Inventory section of the user interface.

January 2023



An upgrade to NetApp Active IQ Unified Manager 9.12 GA is required to ensure compatibility and full functionality with the latest release. For a list of known issues related to this release, see [Known Issues](#).

- Intersight interoperability checks can now distinguish between UCSM and IMM firmware modes when carrying out compatibility checks.
- Protection Relationships will not display in Intersight for ONTAP 9.7. This issue was fixed in ONTAP 9.8RC1.

August 2022



An upgrade to NetApp Active IQ Unified Manager 9.11 GA is required to ensure compatibility and full functionality with the latest release. For a list of known issues related to this release, see [Known Issues](#).

- Updated cluster available capacity calculation to match System Manager
- Updated cluster General page to hide the performance metrics summary until performance data is populated
- Fixed cluster General page UI issue that occasionally caused the page to hang
- Added CIFS shares, CIFS services, Qtrees, and SVM SnapMirror policies to backend inventory.
- Added Shares and Qtrees to the UI navigation menu under the Logical inventory section
- Added Shares as a tab from a selected Storage VM
- Added CIFS Service information on the Storage VM General tab if the Storage VM is CIFS enabled
- Added a cluster Checks page that allow users to validate the configuration of NetApp storage systems adhere to best practices

July 2022

- Improved visuals for Cluster Data Reduction ratio now available under the Capacity Widget
- Added FC Interfaces tab to the Network Interfaces page
- Creating a new volume using the generic “New Storage Volume” task now sets volume space guarantee to none and snapshot reserve percent to 0%
- Comment field under the Edit Snapshot Policy task now optional and no longer mandatory
- Improved UI inventory and orchestration consistency
- Intersight capacity information under Cluster Capacity now consistent with System Manager

- Added checkbox under New Storage Virtual Machine task to display all parameters when creating a new management interface to improve usability
- Moved Protocols below Client Match, now consistent with System Manager
- Export policy general page now displaying Access Protocol(s)
- igroup removal now conditionally logged
- Added “Failover Policy” and “autorevert” parameters for NAS under New Storage NAS Data Interface and New Storage iSCSI Data Interface
- Rollback for New Storage NAS Smart Volume task now removes export policy if no other volumes are attached
- Made enhancements for Smart Volume and Smart LUN tasks

April 2022



To ensure compatibility and complete functionality with future releases, it is recommended that you upgrade your NetApp Active IQ Unified Manager to version 9.10P1.

- Added Broadcast Domain to Ethernet Port Detail page
- Changed the term “Aggregate” to “Tier” for the Aggregate and SVM within the user interface
- Changed the term “Cluster Status” to “Array Status”
- MTU filter now works for <, >, =, <=, >= characters
- Added Network Interface Page to Cluster Inventory
- Added AutoSupport to Cluster Inventory
- Added `cdpd.enable` option to node
- Added an object for CDP neighbor
- Added NetApp workflow storage tasks within Cisco Intersight. See [Use case 3 Custom workflows using designer-free form](#) for a complete list of NetApp storage tasks.

January 2022

- Added event-based Intersight alarms for NetApp Active IQ Unified Manager 9.10 or above.



To ensure compatibility and complete functionality with future releases, it is recommended that you upgrade your NetApp Active IQ Unified Manager to version 9.10.

- Explicitly set each protocol enabled (true or false) for Storage Virtual Machine
- Mapped clusterHealthStatus state ok-with-suppressed to OK
- Renamed Health column to Cluster Status column under the Cluster list page
- Showing storage array “Unreachable” if the cluster is down or otherwise unreachable
- Renamed Health column to Array Status column under the Cluster General page
- SVM now has a “Volumes” tab that shows all the volumes for the SVM
- Volume has a snapshot capacity section
- Licenses now display correctly

October 2021

- Updated list of NetApp storage tasks available within Cisco Intersight. See [Use case 3 Custom workflows using designer-free form](#) for a complete list of NetApp storage tasks.
- Added Health column under the Cluster list page.
- Expanded details now available under the General page for a selected cluster.
- NTP Server table now accessible through the navigation pane.
- Added a new Sensors tab containing the General page for the Storage Virtual Machine.
- VLAN and link aggregation group summary now available under the Port General page.
- Total Data Capacity column added under the Volume Total Capacity table.
- Latency, IOPS, and Throughput columns added under Average Volume Statistics, Average LUN Statistics, Average Aggregate Statistics, Average Storage VM Statistics, and Average Node Statistics tables



The above performance metrics are only available for storage arrays monitored through NetApp Active IQ Unified Manager 9.9 or above.

Known Issues

- If you are using a version of AIQUM 9.11 or earlier, a discrepancy will occur between the displayed values on the Storage List page and capacity bar chart on the Storage general page. To resolve this issue, upgrade to AIQUM 9.12 or greater to ensure the accuracy of the displayed capacity values.
- If you are using AIQUM 9.11 or earlier, any checks performed by the "Interoperability" tab under the "Integrated Systems" page will fail to distinguish IMM and UCSM Cisco components accurately. To resolve this issue, upgrade to AIQUM 9.12 to ensure all components are properly identified.
- To ensure Intersight storage inventory data is unaffected during the data collection process, any unsupported ONTAP clusters (i.e., versions below ONTAP 9.7P1) must be removed from the Active IQ Unified Manager (AIQUM).
- All claimed targets require a minimum AIQUM version of 9.11 for FlexPod Integrated System Interoperability queries to complete successfully.
- The Storage Inventory Checks page will not populate if the ONTAP cluster is added to AIQUM using an FQDN. Users must add ONTAP clusters to AIQUM using an IP address.

Requirements

Verify that you meet the hardware, software, and licensing requirements for NetApp ONTAP storage integration with Cisco Intersight.

Hardware and software requirements

These are the minimum hardware and software components required to implement the solution. The components that are used in any particular implementation of the solution might vary based on customer requirements.

| Component | Requirement details |
|----------------------------------|--|
| NetApp ONTAP | ONTAP 9.7P1 and later |
| NetApp Active IQ Unified Manager | Latest version of NetApp Active IQ Unified Manager is required (currently 9.14RC1) |
| NetApp Storage Array | All ONTAP ASA, AFF, and FAS storage arrays supported for ONTAP 9.7P1 and later |
| Virtualization Hypervisor | vSphere 7.0 and later |



Refer to [Cisco Intersight supported systems](#) for the minimum requirements of Cisco UCS Compute Components and UCSM version.

Cisco Intersight licensing requirements

Cisco Intersight offers services such as Infrastructure Service and Cloud Orchestrator service to manage, automate, and optimize physical storage (NetApp storage). You can use these services to manage Cisco UCS server and Cisco HyperFlex system. The Infrastructure Service and Cloud Orchestrator service use a subscription-based licensing model with multiple tiers. You can choose the required Cisco UCS Server volume tier for the selected subscription term.

Licensing Model

The Cisco Intersight Infrastructure Services licensing model has been simplified and now offers the following two tiers:

- **Cisco Intersight Infrastructure Services Essentials** - The Essentials license tier offers server management including global health monitoring functionality, inventory, proactive support through Cisco TAC integration, multi-factor authentication, along with providing SDK and API access.
- **Cisco Intersight Infrastructure Services Advantage** - The Advantage license tier offers advanced server management with extended visibility, ecosystem integration, automation of Cisco and third-party hardware and software, along with providing multi-domain solutions.

For more information about the features covered by various licensing tiers, go to [Infrastructure Services license](#).

Before you begin

To monitor and orchestrate NetApp storage from Cisco Intersight, you need NetApp Active IQ Unified Manager and Cisco Intersight Assist Virtual Appliance installed in the vCenter environment.

Install or Upgrade NetApp Active IQ Unified Manager

Install or upgrade to Active IQ Unified Manager (latest version is required, currently 9.14RC1) if you have not done so. For instructions, go to the [NetApp Active IQ Unified Manager Documentation](#).

Install Cisco Intersight Assist Virtual Appliance

Ensure that you meet the [Cisco Intersight Virtual Appliance Licensing, System, and Network requirements](#).

Steps

1. Create a Cisco Intersight Account.
Visit <https://intersight.com/> to create your Intersight account. You must have a valid Cisco ID to create a Cisco Intersight account.
2. Download the Intersight Virtual Appliance at software.cisco.com. For more information, go to the [Intersight Appliance Install and Upgrade Guide](#).
3. Deploy the OVA. DNS and NTP are required to deploy the OVA.
 - a. Configure DNS with A/PTR and CNAME Alias records prior to deploying the OVA. See the example below.

The screenshot shows a DNS zone file for the domain 'tmedemo.cisco.com'. A callout box highlights the record types used for the Intersight Virtual Appliance deployment.

example hostname used for A / PTR records:

A/PTR Record:
intersightassist (172.28.224.100)

CNAME requires dc- with FQDN hostname
CNAME Record:
dc-intersightassist (intersightassist.tmedemo.cisco.com)

| Record Name | Type | Value | Static/Dynamic |
|------------------------|---------------|------------------------------------|----------------|
| dc-grewilki-intersight | Alias (CNAME) | dc-intersight | static |
| dc-intersight | Alias (CNAME) | intersight.tmedemo.cisco.com. | static |
| grewilki-intersight | Host (A) | 172.28.224.97 | static |
| intersight | Host (A) | 172.28.224.79 | static |
| intersightassist | Host (A) | 172.28.224.100 | static |
| dc-intersightassist | Alias (CNAME) | intersightassist.tmedemo.cisco.com | static |

- b. Choose the appropriate configuration size (Tiny, Small, or Medium) based on your OVA deployment requirements for Intersight Virtual Appliance.

TIP: For a two-node ONTAP cluster with a large number of storage objects, NetApp recommends that you use the Small (16 vCPU, 32 Gi RAM) option.

Deploy OVF Template

✓ 1 Select an OVF template

✓ 2 Select a name and folder

✓ 3 Select a compute resource

✓ 4 Review details

5 Configuration

6 Select storage

7 Select networks

8 Customize template

9 Ready to complete

Configuration

Select a deployment configuration

☐ Small(16 vCPU, 32 Gi RAM)

☐ Medium(24 vCPU, 64 Gi RAM)

☒ Tiny(8 vCPU, 16 Gi RAM)

3 items

Description

Deployment size supports
Intersight Assist only

CANCEL

BACK

NEXT

- c. On the **Customize Template** page, customize the deployment properties of the OVF template. The administrator password is used for the local users: admin(webUI/cli/ssh).

Deploy OVF Template

- ✓ 1 Select an OVF template
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Review details
- ✓ 5 Configuration
- ✓ 6 Select storage
- ✓ 7 Select networks
- 8 Customize template**
- 9 Ready to complete

Customize template

Customize the deployment properties of this software solution.

✓ All properties have valid values

| Uncategorized | 8 settings |
|-----------------|---|
| Enable DHCP | Use DHCP for networking. All static params will be ignored. <input type="checkbox"/> |
| IP Address | IPv4 address (Must have PTR record in your DNS) <input type="text"/> |
| Net Mask | IPv4 Network Mask <input type="text" value="255.255.255.0"/> |
| Default Gateway | IPv4 Default Gateway <input type="text"/> |
| DNS Domain | DNS Search Domain <input type="text"/> |
| DNS Servers | Comma-separated list of DNS servers <input type="text"/> |

CANCEL

BACK

NEXT

Deploy OVF Template

- ✓ 1 Select an OVF template
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Review details
- ✓ 5 Configuration
- ✓ 6 Select storage
- ✓ 7 Select networks
- 8 Customize template**
- 9 Ready to complete

| | |
|------------------------|---|
| Net Mask | IPv4 Network Mask |
| | 255.255.255.0 |
| Default Gateway | IPv4 Default Gateway |
| | |
| DNS Domain | DNS Search Domain |
| | |
| DNS Servers | Comma-separated list of DNS servers |
| | |
| Administrator password | Password for local admin account |
| | Password |
| | Confirm Password |
| NTP Server | Comma-separated list of NTP servers. If no servers are provided, NIST servers will be configured. |
| | |

CANCEL
BACK
NEXT

d. Click **Next**.

4. Post-deploy the Intersight Assist Appliance.

a. Navigate to <https://FQDN-of-your-appliance> to complete the post-install set-up of your appliance.

The installation process automatically begins. Installation can take up to one hour depending on bandwidth to Intersight.com. It can also take several seconds for the secure site to be operational after the VM powers on.

b. During the post-deployment process, select the following option:

- **Intersight Assist.** This deployment enables SaaS model to connect to Cisco Intersight.



When selecting Intersight Assist, take note of the device ID and claim code before you continue.

What would you like to Install ?

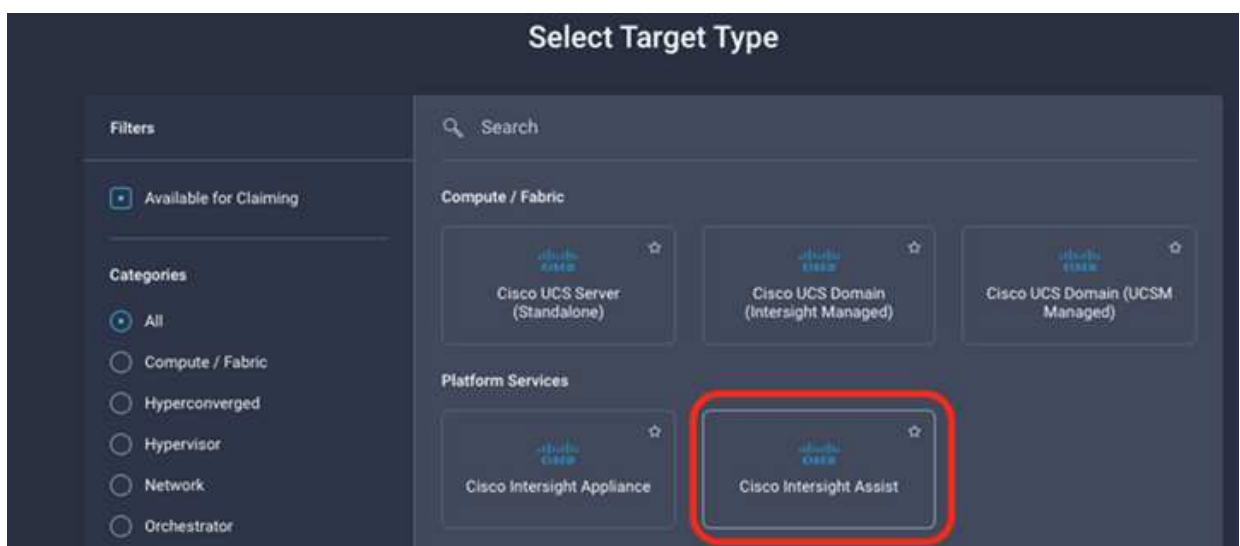
☐ Intersight Connected Virtual Appliance

☐ Intersight Private Virtual Appliance

☐ Intersight Assist

[Recover from backup](#) Proceed

- c. Click **Proceed**.
- d. Select **Intersight Assist** and complete the following steps:
 - i. Navigate to your SaaS Intersight account at <https://intersight.com>.
 - ii. Click **Targets**, **Cisco Intersight Assist**, and then **Start**.
 - iii. Claim the **Cisco Intersight Assist** appliance by copying and pasting the device ID and claim code from your newly deployed Intersight Assist virtual appliance.



- iv. Return to the **Cisco Intersight Assist** appliance and click **Continue**. You might need to refresh the browser.

The download and installation process begins. The binaries are transferred from Intersight Cloud to your on-prem appliance. Completion time varies depending on your bandwidth to the Intersight Cloud.

Configure AIQ UM proxy server for IMT service

If you are using a proxy server with AIQ UM for Cisco Intersight with NetApp ONTAP storage, you must configure the setup through the command line interface (CLI) to utilize the interoperability matrix tool service (IMT). The IMT service is available under the **Interoperability** tab of the **Integrated Systems** page. You must use the Active IQ Unified Manager Virtual Machine (OVA) Diag shell to configure the AIQ UM proxy server settings.



For information on how to access the AIQ UM Diag shell, see [How to access Active IQ Unified Manager Virtual Machine \(OVA\) DIAG shell](#)

Steps

1. Log into the AIQ UM terminal and run the following command to log into um.

```
um cli login -u <um maintenance user name>
```

Example

```
um cli login -u admin
```

2. Set the `imt_proxy_host` and `imt_proxy_port` by running the following commands.



The IMT proxy is a separate configuration from AutoSupport (ASUP) proxy configurations.

```
um option set imt.https.proxy.host=<IMT_PROXY_HOST>
um option set imt.https.proxy.port=<IMT_PROXY_PORT>
```

Example

```
um option set imt.https.proxy.host=example-proxy.cls.eng.com
um option set imt.https.proxy.port=8200
```



IMT proxy server configurations do not support authentication.

3. View the IMT proxy details to verify the `proxy_host` and `proxy_port` settings through the following command.

```
um option list |grep imt
```

Claim targets

After Cisco Intersight Assist is installed, you can claim your NetApp storage and virtualization devices. Return to the **Intersight Targets** page and add your vCenter and NetApp Active IQ Unified Manager targets.



Make sure that the NetApp Active IQ Unified Manager (AIQ UM) API Gateway is enabled.


From the NetApp IQ Unified Manager, navigate to **Settings > General > Feature Settings**.



The following example shows the NetApp AIQ UM target being claimed from Cisco Intersight.



When you claim the NetApp AIQ UM target, all clusters managed by Active IQ Unified Manager are automatically added to Intersight.



NetApp Active IQ Unified Manager

To claim any on-premises target an Intersight Assist Appliance is required. Deploy and claim an Assist Appliance if needed before claiming the target

This target is intended for the functionality of Intersight Orchestrator

Intersight Assist *
isassist.cie.netapp.com

Hostname/IP Address *
NTAPAIQUM.fp.netapp.com

Username *
admin

Password *

☒ Secure

Monitor NetApp storage from Cisco Intersight

After targets are claimed, NetApp storage widgets, storage inventory, and virtualization tabs become available if you have an Advantage tier license. Orchestration tabs are available if you have a Premier tier license.

Storage inventory overview

The following screenshot displays the **Operate > Storage** screen.

OPERATE > Storage

The Trial period for Intersight is active. During the Trial period, the Premier tier features of Intersight are available. [Go to Licensing](#)

* All Storage

Export 8 items found 10 per page 1 of 1

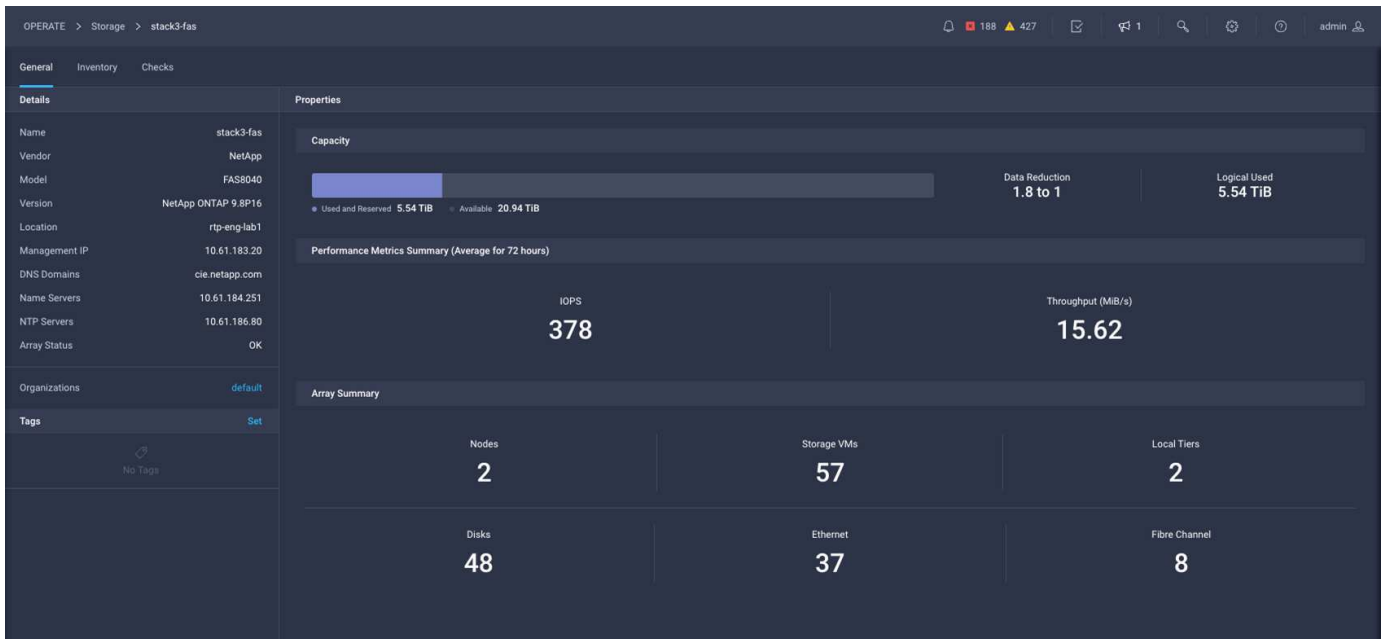
| | Name | Vendor | Model | Version | Capacity | Capacity Utilization | |
|--------------------------|------------------|--------|----------|----------------------|------------|----------------------|-----|
| <input type="checkbox"/> | stack1-fas | NetApp | FAS2552 | NetApp ONTAP 9.7P8 | 27.61 TiB | 98.5% | ... |
| <input type="checkbox"/> | aaron | NetApp | FAS8020 | NetApp ONTAP 9.8X28 | 1.76 TiB | 46.7% | ... |
| <input type="checkbox"/> | cle-na2750-g1344 | NetApp | FAS2750 | NetApp ONTAP 9.7P8 | 104.34 TiB | 98.8% | ... |
| <input type="checkbox"/> | stack3-fas | NetApp | FAS8040 | NetApp ONTAP 9.7P8 | 38.73 TiB | 40.6% | ... |
| <input type="checkbox"/> | AFF8060-51-130 | NetApp | AFF8060 | NetApp ONTAP 9.8X22 | 3.77 TiB | 0.1% | ... |
| <input type="checkbox"/> | niefas2650 | NetApp | FAS2650 | NetApp ONTAP 9.7P8 | 3.24 TiB | 0.0% | ... |
| <input type="checkbox"/> | a220-f0234 | NetApp | AFF-A220 | NetApp ONTAP 9.9.1P1 | 5.77 TiB | 7.1% | ... |
| <input type="checkbox"/> | rajeshcluster-1 | NetApp | SIMBOX | NetApp ONTAP 9.8.0 | 9.93 GiB | 0.1% | ... |

1 of 1

The following screenshot shows the storage cluster overview.



The following performance metric summary information will only display if the storage array is monitored through NetApp Active IQ Unified Manager 9.9 or above.



Storage widgets

To view storage widgets, navigate to **Monitoring > Dashboards > View NetApp storage widgets**.

- The following screenshot shows the Storage Version Summary widget.



- This screenshot shows the Top 5 Storage Arrays by Capacity Utilization widget.

| Top 5 Storage Arrays by Capacity Utilization ✎ ✕ | | | | |
|---|---------------------|--------|-----------|------------------------------|
| # | Name | Vendor | Capacity | Utilization |
| 1 | Warriors_Controller | NetApp | 13.83 TiB | <div><div></div></div> 89.4% |
| 2 | stack3-fas | NetApp | 8.95 TiB | <div><div></div></div> 66.2% |
| 3 | aaron | NetApp | 4.71 TiB | <div><div></div></div> 44.1% |
| 4 | aff-a400 | NetApp | 40.62 TiB | <div><div></div></div> 0.2% |

- This screenshot shows the Top 5 Storage Volumes by Capacity Utilization widget.

| Top 5 Storage Volumes by Capacity Utilization | | | | |
|---|------------------|--------|------------|------------------------------|
| # | Name | Vendor | Capacity | Utilization |
| 1 | test_1_vol | NetApp | 10.31 GiB | <div><div></div></div> 98.6% |
| 2 | test_lun_vol | NetApp | 10.31 GiB | <div><div></div></div> 97.9% |
| 3 | vmware_server_1 | NetApp | 50.00 GiB | <div><div></div></div> 95.0% |
| 4 | vmware_server_2 | NetApp | 50.00 GiB | <div><div></div></div> 82.3% |
| 5 | VM_Datastore_vol | NetApp | 150.00 GiB | <div><div></div></div> 67.0% |

Use cases

These are a few use case examples for monitoring and orchestration of NetApp storage from Cisco Intersight.

Use case 1: Monitoring NetApp storage inventory and widgets

When the NetApp storage environment is available in Cisco Intersight, you can monitor NetApp storage objects in detail from storage inventory and get an overview from storage widgets.

1. Deploy Intersight Assist OVA (OnPrem task in vCenter Environment).
2. Add NetApp AIQ UM devices in Intersight Assist.
3. Go to **Storage** and navigate through NetApp storage inventory.
4. Add **Widgets** for NetApp storage to your **Monitor Dashboard**.

Use case 2: NetApp storage orchestration using reference workflows

When NetApp storage and vCenter environments are available in Cisco Intersight, you can use end-to-end reference workflows available in GitHub through the [FlexPod Intersight Workflow repository](#).

The reference workflows include storage and virtualization tasks. The README file for the repository provides the prerequisites needed for executing workflows, links to helpful resources (including documentation on how to import a workflow), and documentation links for each reference workflow.

Each workflow has a folder in the repository containing two files:

- The JSON file to download and import into Intersight,
- A documentation file that provides a view of the tasks in the workflow, workflow inputs, and an example execution of the workflow.

Perform the following to import and use a reference workflow:

1. Deploy Intersight Assist OVA (OnPrem task in vCenter Environment).
2. Add NetApp AIQ UM devices in Intersight Assist.
3. Add the vCenter target to Intersight via Intersight Assist.
4. Download the JSON file for a reference workflow from the FlexPod-Intersight-Workflow repository.
5. Import the workflow into Intersight, then execute the workflow.

Here is a list of workflows available in the GitHub FlexPod-Intersight-Workflow repository:

- Add Initiators to NetApp Initiator Group
- New Export Policy for NetApp Volume
- New NAS Datastore Using NetApp Smart Volume
- New NetApp FC Data Interface
- New NetApp Initiator Group
- New NetApp iSCSI Data Interface
- New NetApp NAS Data Interface

- New NetApp Storage Virtual Machine
- New VMFS Datastore Using NetApp Smart LUN
- Remove Initiators from NetApp Initiator Group
- Remove NAS Datastore Using NetApp Smart Volume
- Remove NetApp Export Policy
- Remove NetApp Initiator Group
- Remove VMFS Datastore Using NetApp Smart LUN
- Update NAS Datastore Using NetApp Smart Volume
- Update VMFS Datastore Using NetApp Smart LUN

Use case 3: Custom workflows using designer-free form

When the NetApp Storage and vCenter environments are available in Cisco Intersight, you can build custom workflows using the NetApp storage and virtualization tasks.

1. Deploy Intersight Assist OVA (OnPrem task in vCenter Environment)
2. Add NetApp AIQ UM devices in Intersight Assist.
3. Add vCenter target to Intersight via Intersight Assist.
4. Navigate to the **Orchestration** tab in Intersight.
5. Select **Create Workflow**.
6. Add storage and virtualization tasks to your workflows.

Here are the NetApp storage tasks that are available from Cisco Intersight:

- Add ACL to NetApp CIFS Share
- Add Client Match to NetApp Export Policy Rule
- Add Export Policy to NetApp Volume
- Add Initiators to NetApp Initiator Group
- Add Rule to NetApp Export Policy
- Add Schedule to NetApp Snapshot Policy
- Confirm NetApp License Status
- Confirm NetApp Storage Virtual Machine FCP Protocol Status
- Edit NetApp Aggregates for Storage Virtual Machine
- Edit NetApp Asynchronous SnapMirror Policy
- Edit NetApp CIFS Share ACL Permission
- Edit NetApp Export Policy Rule
- Edit NetApp Snapshot Policy
- Edit NetApp Snapshot Policy Schedule
- Edit NetApp Volume Security Style
- Edit NetApp Volume Snapshot Policy
- Enable NetApp CIFS Services

- Expand NetApp LUN
- New NetApp Asynchronous SnapMirror Policy
- New NetApp CIFS Server
- New NetApp CIFS Share
- Find NetApp Initiator Group LUN Map
- Find NetApp LUN by ID
- Find NetApp Volume by ID
- New NetApp Export Policy
- New NetApp FC Data Interface
- New NetApp Initiator Group
- New NetApp iSCSI Data Interface
- New NetApp Load-Sharing Mirrors for SVM Root Volume
- New NetApp LUN
- New NetApp LUN Map
- New NetApp NAS Data Interface
- New NetApp NAS Smart Volume
- New NetApp Smart LUN
- New NetApp SnapMirror Relationship for Volume
- New NetApp Snapshot Policy
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- New NetApp Volume Snapshot
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- Remove NetApp Export Policy
- Remove NetApp FC Data Interface
- Remove NetApp Initiator Group
- Remove NetApp IP Interface
- Remove NetApp Load-Sharing Mirrors for SVM Root Volume
- Remove NetApp LUN
- Remove NetApp LUN Map
- Remove NetApp NAS Smart Volume

- Remove NetApp Smart LUN
- Remove NetApp Snapmirror Relationship for Volume
- Remove NetApp Snapmirror Policy
- Remove NetApp Snapshot Policy
- Remove NetApp Storage Virtual Machine
- Remove NetApp Volume
- Remove NetApp Volume Snapshot
- Remove Rule from NetApp Export Policy
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- Rename NetApp Volume Snapshot
- Update NetApp Load-Sharing Mirrors for SVM Root Volume
- Update NetApp Volume Capacity

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