



Concepts

Converged Systems Advisor

NetApp
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Concepts

Converged Systems Advisor overview

Converged Systems Advisor validates the deployment of your FlexPod infrastructure and provides continuous monitoring and notifications to ensure business continuity.

Watch the following video for an overview of Converged Systems Advisor:



Converged Systems Advisor

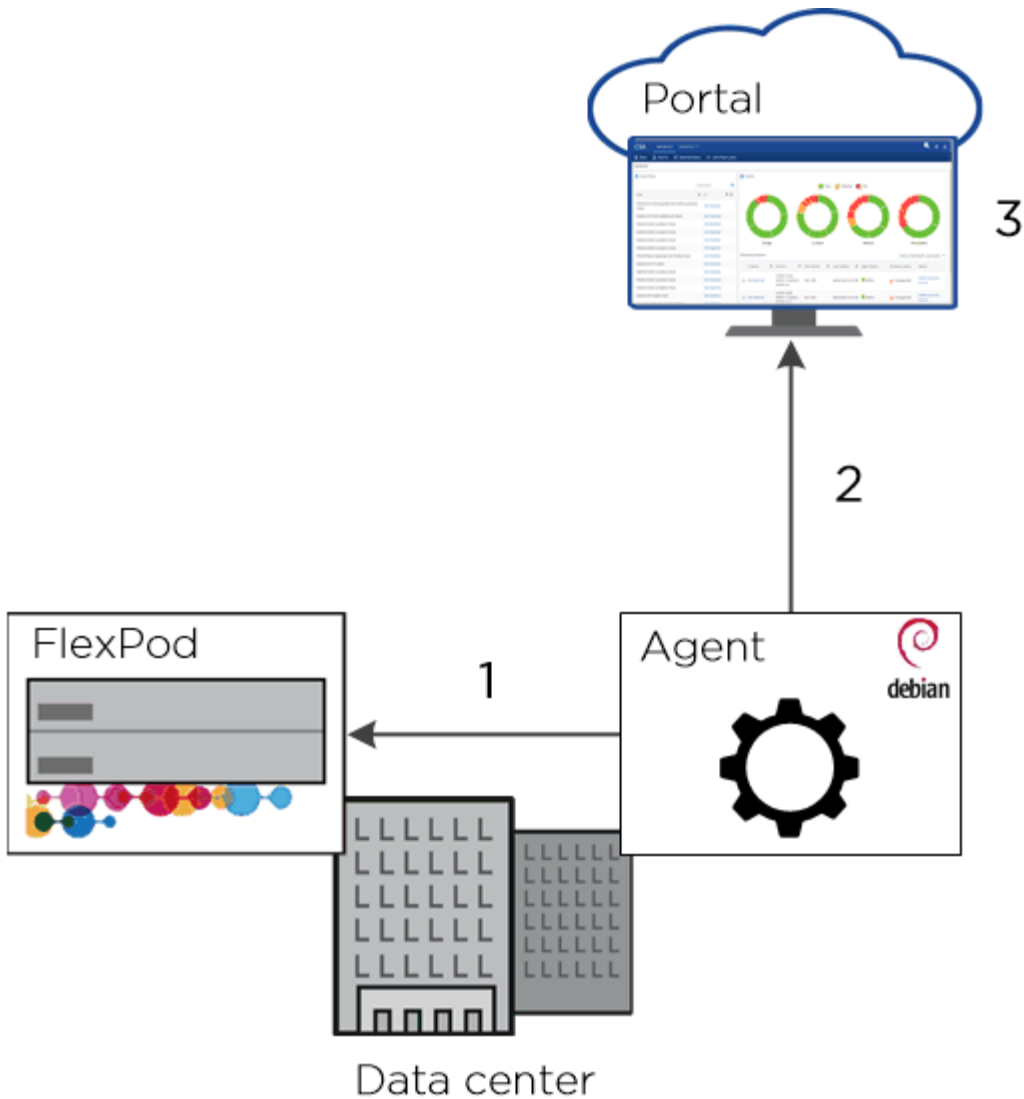
Providing lifecycle management for FlexPod

For more details about the value that Converged Systems Advisor provides, [read the datasheet](#).

How Converged Systems Advisor works

Converged Systems Advisor is a software-as-a-service (SaaS) platform that consists of an on-premises agent and a cloud-based portal.

The following image shows the relationship between Converged Systems Advisor components:



1. The Converged Systems Advisor agent, which resides on your premises, collects configuration data from a FlexPod converged infrastructure using credentials that you provide.
2. The agent sends the data to the Converged Systems Advisor portal.
3. Users log in to the Converged Systems Advisor portal using a web browser to validate, monitor, and optimize their FlexPod converged infrastructure.

[Read how Converged Systems Advisor keeps the data secure.](#)

Licensing

A license is required to unlock features in Converged Systems Advisor. You can choose from a few licensing options for each FlexPod converged infrastructure.

License	Features	Terms
No license	Limited version to demonstrate product capabilities: <ul style="list-style-type: none"> Monitoring of FlexPod configurations for a 24-hour trial period Health dashboards to view FlexPod best practice compliance Limited inventory and remediation (available in licensed versions) 	<ul style="list-style-type: none"> Free Single use (24 hours)
Standard	<ul style="list-style-type: none"> Continuous monitoring of FlexPod configurations Health dashboards to view FlexPod best practice compliance Firmware interoperability for compute, network, storage, and hypervisor Lifecycle management tools to identify changes and prevent configuration drift Detailed inventory and system diagrams for advanced troubleshooting Support provided directly by NetApp 	Subscription-based license: <ul style="list-style-type: none"> 12 months minimum 60 months maximum
Premium	All functionality included in the Standard license, plus: <ul style="list-style-type: none"> Reporting <p>Comprehensive, real-time reporting of FlexPod health, interoperability, and inventory</p> Notification and alerting <p>Regular notifications of configuration health and changes in status</p> 	Subscription-based license: <ul style="list-style-type: none"> 12 months minimum 60 months maximum

Security

Converged Systems Advisor collects configuration data about your FlexPod converged infrastructure to help you validate and monitor the system. You might want to understand how the data is collected, how it is transferred to NetApp, and how it is kept secure and private.

How the data is collected

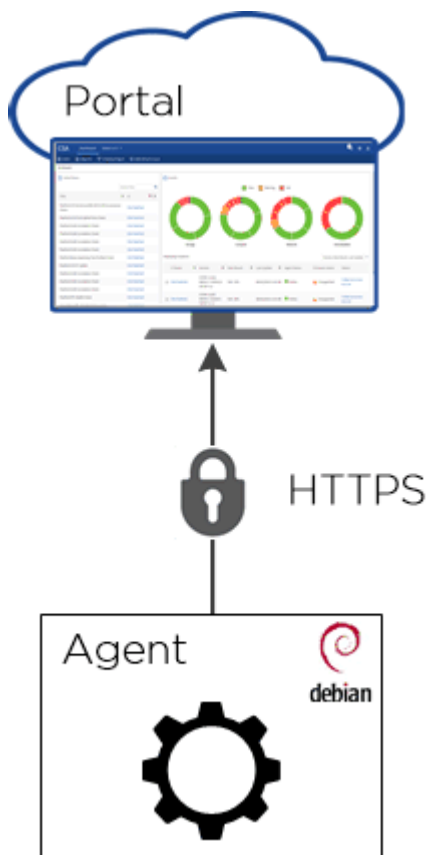
The Converged Systems Advisor agent requires credentials to access the devices in your FlexPod converged infrastructure. Read-only credentials are required for Cisco UCS and Nexus switches, while admin credentials are required for ONTAP. The credentials are encrypted and stored locally on the agent—they are not sent to the cloud-based portal.

After you provide the credentials, the agent collects *configuration* data from the devices. *Customer* data that resides on the devices is never accessed or transferred. A representative sample of the configuration data that the agent collects includes the following:

- Capacity
- CPU and memory
- Device connectivity
- Device names and IDs
- Device state
- Firmware versions
- IP addresses
- iSCSI targets
- Licenses
- MAC addresses
- Model numbers
- Serial numbers

How the data is transferred

After the agent discovers configuration data from your FlexPod converged infrastructure, it sends the data to the Converged Systems Advisor portal using HTTPS. The communication is encrypted using NetApp's TLS 1.2 certificate.



How the data is kept secure and private

The configuration data resides within the NetApp network and is managed by NetApp IT. The data is secured by a data access layer that requires positive identification of each user who requests access.

The user who deployed the agent can access the data from the Converged Systems Advisor portal by logging in with a NetApp Support Site account. This user has *owner* privileges to the converged infrastructure. The owner can share the converged infrastructure with other users by granting read-only, write, or owner privileges. Those users must also have a registered NetApp Support Site account to log in to the portal.

[Review the differences between read-only, write, and owner privileges.](#)

User roles

When you share a converged infrastructure with another user, you must provide read-only, write, or owner privileges.

The following table identifies the tasks that each user role can perform.

Task	Read-only	Write	Owner
View a system	Yes	Yes	Yes
Update a system's name	No	Yes	Yes
Update support contract details	No	Yes	Yes
Edit the data collection interval	No	Yes	Yes
Request a new data collection	No	Yes	Yes
Share a system	No	Yes, with read-only or write access	Yes, with read-only, write, or owner access
Modify the components of a system	No	No	Yes
Delete a system	No	No	Yes

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