Manage storage VMs

AFX

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Table of Contents

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Display the AFX storage system SVMs

You can display the data storage VMs defined in your AFX cluster. Each SVM provides an isolated environment for organizing your data and providing client access.

Steps

1. In System Manager, select **Cluster** and then **Storage VMs**.
2. Hover over the desired SVM and select ⋮ to view the primary administrative options including starting and stopping the SVM.
3. Optionally select a specific SVM to view more details including overview, settings, replication, and file system.

Related information

- Configure an AFX system SVM
- Understand storage virtual machines

Create an AFX storage system SVM

You can create an SVM to provide isolation and improve security. You might do this for different groups or projects within your organization.

About this task

When you create an SVM, you must provide a name and configure at least one protocol for client access. After selecting a client protocol, you will be prompted for the networking configuration as well. You can change the SVM configuration as needed after it has been created.

Before you begin

You'll need the following:

- A minimum of four IP addresses
- Name of an IPspace

Steps

1. In System Manager, select **Cluster** and then **Storage VMs**.
2. Select + Add.
3. Provide a name for the SVM.
4. Select a protocol for client access and provide the configuration details as appropriate.
5. Add a network interfaces for the SVM including the IP addresses and subnet mask.
6. Under **Storage VM administration**, optionally:
   a. Enable a maximum capacity and select a value
   b. Manage an administrator account for the SVM
7. Select **Save**.

Related information

- Configure an AFX system SVM
- Manage AFX system cluster networking

Configure an AFX storage system SVM

After you create an SVM, you can update the configuration based on your requirements and clients needs.

About this task

There are four access paths to the SVM configuration as reflected in the tabs on the landing page for a specific SVM. These include:

- Overview

  This provides a quick dashboard overview of the current configuration details related to network interfaces and services, protocols, storage, and protection.

- Settings

  You can access and update the entire SVM configuration as organized in several areas, such as protocols, services, policies, and security.

- Replication

  This page provides a list of the current replication relationships defined for the SVM.

- File system

  You can track the activity and analytics for the SVM

Before you begin

You need to decide which SVM you are interested in displaying and updating.

Steps

1. In System Manager, select **Cluster** and then **Storage VMs**.
2. Select the desired SVM and then the **Settings** tab.
3. Review the configuration options on the page; select and update the settings as desired.

Migrate an AFX storage system SVM

You can migrate an SVM from one ONTAP cluster to another. SVM migration with AFX operates the same as with Unified ONTAP, although there are several interoperability considerations and restrictions. Refer to the Unified ONTAP documentation for details about performing an SVM migration.

Interoperability considerations

Before planning and performing an SVM migration, you should be aware of the interoperability considerations

including capabilities and limitations.

Use cases

Cluster administrators can relocate an SVM from a source cluster to a destination cluster. You might do this as part of capacity management and load balancing, or to allow for equipment upgrades or data center consolidations. Because the AFX storage system does not support in-place upgrades from Unified ONTAP, SVM migration is an important use case.

You can move your application workloads from a Unified ONTAP cluster to AFX clusters without disruption. In addition, SVMs can be migrated in other ways including from an AFX cluster to a Unified ONTAP cluster as well as among AFX clusters.

Version interoperability

The following table describes the allowable SVM migrations based on the ONTAP personality and release of the source and destination cluster.

Direction	Source version	Destination version
Unified to AFX	9.15.1 - 9.17.1	9.17.1
AFX to Unified	9.17.1	9.17.1
AFX to AFX	9.17.1	9.17.1

Prechecks

Unified ONTAP includes several prechecks that are also implemented with AFX. In addition, several new prechecks are added to flag features that aren’t supported with AFX, including:

- FabricPool (volumes residing on composite aggregates)
- Thick provisioned volumes

Volume provisioning

The volumes are provisioned to balance their placement across the Storage Availability Zone (SAZ) of the AFX cluster.

Space guarantee

AFX does not support thick provisioning. A precheck is used to fail a migration if any volume in the SVM being migrated is thick provisioned.

Encryption

An AFX system supports NetApp volume encryption (NVE) but not NetApp aggregate encryption (NAE). Because of this, any NAE volumes at a Unified ONTAP cluster are converted to NVE volumes when migrated to AFX. The following table summarizes the compatibility and conversion.

Source volume	Destination volume
Plain text	Plain text
NVE	NVE
NAE	NVE

Additional restrictions

There are additional restrictions you should consider before migrating an SVM.

MetroCluster

The AFX storage system does not support NetApp MetroCluster. This creates a limitation when migrating an SVM. You cannot migrate an AFX SVM to or from an AFF or FAS system (or any NetApp system running the Unified ONTAP personality) that is configured to use MetroCluster. While these migration scenarios are not supported, they are also not explicitly blocked by the AFX prechecks and so you need to be careful not to attempt them.

Related information

- ONTAP SVM data mobility
- Compare AFX storage system to AFF and FAS systems
- FAQ for AFX storage systems

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