Secure client access with Kerberos

ONTAP System Manager

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This PDF was generated from https://docs.netapp.com/us-en/ontap/task_nas_secure_client_access_with_kerberos.html on December 09, 2020. Always check docs.netapp.com for the latest.



Table of Contents

Secure client access with Kerberos		. 1
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Secure client access with Kerberos

Enable Kerberos to secure storage access for NAS clients.

This procedure configures Kerberos on an existing storage VM enabled for NFS or SMB.

Before beginning you should have configured DNS, NTP, and LDAP on the storage system.



Steps

- 1. At the ONTAP command line, set UNIX permissions for the storage VM root volume.
 - a. Display the relevant permissions on the storage VM root volume: volume show -volume root_vol_name-fields user,group,unix-permissions

The root volume of the storage VM must have the following configuration:

Name	Setting
UID	root or ID 0
GID	root or ID 0
UNIX permissions	755

- b. If these values are not shown, use the volume modify command to update them.
- 2. Set user permissions for the storage VM root volume.
 - a. Display the local UNIX users: vserver services name-service unix-user show -vserver vserver_name

The storage VM should have the following UNIX users configured:

User name	User ID	Primary group ID
nfs	500	0
root	0	0

Note: The NFS user is not required if a Kerberos-UNIX name mapping exists for the SPN of the NFS client user; see step 5.

- b. If these values are not shown, use the vserver services name-service unix-user modify command to update them.
- 3. Set group permissions for the storage VM root volume.
 - a. Display the local UNIX groups: vserver services name-service unix-group show -vserver vserver name

The storage VM should have the following UNIX groups configured:

Group name	Group ID
daemon	1
root	0

- b. If these values are not shown, use the vserver services name-service unix-group modify command to update them.
- 4. Switch to System Manager to configure Kerberos
- 5. In ONTAP System Manager, click **Storage > Storage VMs** and select the storage VM.
- 6. Click Settings.
- 7. Click \rightarrow under Kerberos.
- 8. Click **Add** under Kerberos Realm, and complete the following sections:
 - · Add Kerberos Realm

Enter configuration details depending on KDC vendor.

• Add Network Interface to Realm

Click Add and select a network interface.

- 9. If desired, add mappings from Kerberos principal names to local user names.
 - a. Click **Storage** > **Storage** VMs and select the storage VM.
 - b. Click **Settings**, and then click \rightarrow under **Name Mapping**.
 - c. Under Kerberos to UNIX, add patterns and replacements using regular expressions.

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