

Configure LDAP or NIS server access

ONTAP 9

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Configure LDAP or NIS server access

Configure LDAP or NIS server access overview

You must configure LDAP or NIS server access to an SVM before LDAP or NIS accounts can access the SVM. The switch feature lets you use LDAP or NIS as alternative name service sources

Configure LDAP server access

You must configure LDAP server access to an SVM before LDAP accounts can access the SVM. You can use the vserver services name-service ldap client create command to create an LDAP client configuration on the SVM. You can then use the vserver services name-service ldap create command to associate the LDAP client configuration with the SVM.

What you'll need

- You must have installed a CA-signed server digital certificate on the SVM.
- You must be a cluster or SVM administrator to perform this task.

About this task

Most LDAP servers can use the default schemas provided by ONTAP:

- MS-AD-BIS (the preferred schema for most Windows 2012 and later AD servers)
- AD-IDMU (Windows 2008, Windows 2012 and later AD servers)
- AD-SFU (Windows 2003 and earlier AD servers)
- RFC-2307 (UNIX LDAP servers)

It is best to use the default schemas unless there is a requirement to do otherwise. If so, you can create your own schema by copying a default schema and modifying the copy. For more information, see the following documents.

- NFS configuration
- NetApp Technical Report 4835: How to Configure LDAP in ONTAP

Steps

1. Create an LDAP client configuration on an SVM: vserver services name-service ldap client create -vserver SVM_name -client-config client_configuration -servers LDAP server IPs -schema schema -use-start-tls true|false



Start TLS is supported for access to data SVMs only. It is not supported for access to admin

For complete command syntax, see the worksheet.

The following command creates an LDAP client configuration named corp on the SVMengData. The client makes anonymous binds to the LDAP servers with the IP addresses 172.160.0.100 and

172.16.0.101. The client uses the RFC-2307 schema to make LDAP queries. Communication between the client and server is encrypted using Start TLS.

```
cluster1::>vserver services name-service ldap client create
-vserver engData -client-config corp -servers 172.16.0.100,172.16.0.101
-schema RFC-2307 -use-start-tls true
```



Beginning with ONTAP 9.2, the field <code>-ldap-servers</code> replaces the field <code>-servers</code>. This new field can take either a hostname or an IP address for the LDAP server.

2. Associate the LDAP client configuration with the SVM: vserver services name-service ldap create -vserver SVM_name -client-config client_configuration -client-enabled true|false

For complete command syntax, see the worksheet.

The following command associates the LDAP client configuration corp with the SVMengData, and enables the LDAP client on the SVM.

```
cluster1::>vserver services name-service ldap create -vserver engData
-client-config corp -client-enabled true
```



Beginning with ONTAP 9.2, the vserver services name-service ldap create command performs an automatic configuration validation and reports an error message if ONTAP is unable to contact the name server.

3. Validate the status of the name servers by using the vserver services name-service Idap check command.

The following command validates LDAP servers on the SVM vs0.

The name service check command is available beginning with ONTAP 9.2.

Configure NIS server access

You must configure NIS server access to an SVM before NIS accounts can access the SVM. You can use the vserver services name-service nis-domain create

command to create an NIS domain configuration on an SVM.

What you'll need

- All configured servers must be available and accessible before you configure the NIS domain on the SVM.
- You must be a cluster or SVM administrator to perform this task.

About this task

You can create multiple NIS domains. Only one NIS domain can be set to active at a time.

Step

1. Create an NIS domain configuration on an SVM: vserver services name-service nis-domain create -vserver SVM_name -domain client_configuration -active true|false -nis -servers NIS server IPs

For complete command syntax, see the worksheet.



Beginning with ONTAP 9.2, the field -nis-servers replaces the field -servers. This new field can take either a hostname or an IP address for the NIS server.

The following command creates an NIS domain configuration on the SVM engData. The NIS domain nisdomain is active on creation and communicates with an NIS server with the IP address 192.0.2.180.

cluster1::>vserver services name-service nis-domain create
-vserver engData -domain nisdomain -active true -nis-servers 192.0.2.180

Create a name service switch

The name service switch feature lets you use LDAP or NIS as alternative name service sources. You can use the vserver services name-service ns-switch modify command to specify the look-up order for name service sources.

What you'll need

- · You must have configured LDAP and NIS server access.
- You must be a cluster administrator or SVM administrator to perform this task.

Step

1. Specify the lookup order for name service sources:

```
vserver services name-service ns-switch modify -vserver SVM_name -database name_service_switch_database -sources name_service_source_order
```

For complete command syntax, see the worksheet.

The following command specifies the lookup order of the LDAP and NIS name service sources for the passwd database on the engDataSVM.

cluster1::>vserver services name-service ns-switch
modify -vserver engData -database passwd -source files ldap,nis

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