



# **Configure local UNIX users and groups**

## **ONTAP 9**

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# Table of Contents

- Configure local UNIX users and groups . . . . . 1
  - Configure local UNIX users and groups overview . . . . . 1
  - Create a local UNIX user . . . . . 1
  - Load local UNIX users from a URI . . . . . 1
  - Create a local UNIX group . . . . . 2
  - Add a user to a local UNIX group . . . . . 3
  - Load local UNIX groups from a URI . . . . . 3

# Configure local UNIX users and groups

## Configure local UNIX users and groups overview

You can use local UNIX users and groups on the SVM for authentication and name mappings. You can create UNIX users and groups manually, or you can load a file containing UNIX users or groups from a uniform resource identifier (URI).

There is a default maximum limit of 32,768 local UNIX user groups and group members combined in the cluster. The cluster administrator can modify this limit.

## Create a local UNIX user

You can use the `vserver services name-service unix-user create` command to create local UNIX users. A local UNIX user is a UNIX user you create on the SVM as a UNIX name services option to be used in the processing of name mappings.

### Step

1. Create a local UNIX user:

```
vserver services name-service unix-user create -vserver vserver_name -user user_name -id integer -primary-gid integer -full-name full_name
```

`-user user_name` specifies the user name. The length of the user name must be 64 characters or fewer.

`-id integer` specifies the user ID that you assign.

`-primary-gid integer` specifies the primary group ID. This adds the user to the primary group. After creating the user, you can manually add the user to any desired additional group.

### Example

The following command creates a local UNIX user named johnm (full name "John Miller") on the SVM named vs1. The user has the ID 123 and the primary group ID 100.

```
node::> vserver services name-service unix-user create -vserver vs1 -user johnm -id 123 -primary-gid 100 -full-name "John Miller"
```

## Load local UNIX users from a URI

As an alternative to manually creating individual local UNIX users in SVMs, you can simplify the task by loading a list of local UNIX users into SVMs from a uniform resource identifier (URI) (`vserver services name-service unix-user load-from-uri`).

### Steps

1. Create a file containing the list of local UNIX users you want to load.

The file must contain user information in the UNIX `/etc/passwd` format:

```
user_name: password: user_ID: group_ID: full_name
```

The command discards the value of the `password` field and the values of the fields after the `full_name` field (`home_directory` and `shell`).

The maximum supported file size is 2.5 MB.

2. Verify that the list does not contain any duplicate information.

If the list contains duplicate entries, loading the list fails with an error message.

3. Copy the file to a server.

The server must be reachable by the storage system over HTTP, HTTPS, FTP, or FTPS.

4. Determine what the URI for the file is.

The URI is the address you provide to the storage system to indicate where the file is located.

5. Load the file containing the list of local UNIX users into SVMs from the URI:

```
vserver services name-service unix-user load-from-uri -vserver vserver_name  
-uri {ftp|http|ftps|https}://uri -overwrite {true|false}  
  
-overwrite {true|false} specifies whether to overwrite entries. The default is false.
```

### Example

The following command loads a list of local UNIX users from the URI `ftp://ftp.example.com/passwd` into the SVM named `vs1`. Existing users on the SVM are not overwritten by information from the URI.

```
node::> vserver services name-service unix-user load-from-uri -vserver vs1  
-uri ftp://ftp.example.com/passwd -overwrite false
```

## Create a local UNIX group

You can use the `vserver services name-service unix-group create` command to create UNIX groups that are local to the SVM. Local UNIX groups are used with local UNIX users.

### Step

1. Create a local UNIX group:

```
vserver services name-service unix-group create -vserver vserver_name -name  
group_name -id integer
```

`-name group_name` specifies the group name. The length of the group name must be 64 characters or fewer.

`-id integer` specifies the group ID that you assign.

### Example

The following command creates a local group named `eng` on the SVM named `vs1`. The group has the ID 101.

```
vs1::> vserver services name-service unix-group create -vserver vs1 -name
eng -id 101
```

## Add a user to a local UNIX group

You can use the `vserver services name-service unix-group adduser` command to add a user to a supplemental UNIX group that is local to the SVM.

### Step

1. Add a user to a local UNIX group:

```
vserver services name-service unix-group adduser -vserver vserver_name -name
group_name -username user_name
```

`-name group_name` specifies the name of the UNIX group to add the user to in addition to the user's primary group.

### Example

The following command adds a user named `max` to a local UNIX group named `eng` on the SVM named `vs1`:

```
vs1::> vserver services name-service unix-group adduser -vserver vs1 -name
eng
-username max
```

## Load local UNIX groups from a URI

As an alternative to manually creating individual local UNIX groups, you can load a list of local UNIX groups into SVMs from a uniform resource identifier (URI) by using the `vserver services name-service unix-group load-from-uri` command.

### Steps

1. Create a file containing the list of local UNIX groups you want to load.

The file must contain group information in the UNIX `/etc/group` format:

```
group_name: password: group_ID: comma_separated_list_of_users
```

The command discards the value of the `password` field.

The maximum supported file size is 1 MB.

The maximum length of each line in the group file is 32,768 characters.

2. Verify that the list does not contain any duplicate information.

The list must not contain duplicate entries, or else loading the list fails. If there are entries already present in the SVM, you must either set the `-overwrite` parameter to `true` to overwrite all existing entries with the new file, or ensure that the new file does not contain any entries that duplicate existing entries.

3. Copy the file to a server.

The server must be reachable by the storage system over HTTP, HTTPS, FTP, or FTPS.

4. Determine what the URI for the file is.

The URI is the address you provide to the storage system to indicate where the file is located.

5. Load the file containing the list of local UNIX groups into the SVM from the URI:

```
vserver services name-service unix-group load-from-uri -vserver vserver_name  
-uri {ftp|http|https|https}://uri -overwrite {true|false}
```

`-overwrite {true|false}` specifies whether to overwrite entries. The default is `false`. If you specify this parameter as `true`, ONTAP replaces the entire existing local UNIX group database of the specified SVM with the entries from the file you are loading.

### Example

The following command loads a list of local UNIX groups from the URI `ftp://ftp.example.com/group` into the SVM named `vs1`. Existing groups on the SVM are not overwritten by information from the URI.

```
vs1::> vserver services name-service unix-group load-from-uri -vserver vs1  
-uri ftp://ftp.example.com/group -overwrite false
```

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