



Storage NFS Tasks

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Mount NFS Share

Summary

Mount an NFS export on a Linux machine.

Description

This task mounts an NFS share on a Linux machine. You provide comma-separated host IP addresses or FQDNs specifying where to mount the share on the hosts. All the hosts should share the same user name, password, and mount binary location (for example, `/usr/bin/mount` if not set in the path on the host machine). Scenario for Mounting the NFS Share:

1. This task creates a new mount directory on the path given by user, mounts the share on the directory, and updates the entry in the `/etc/fstab` file.
2. If the mount directory already exists, the task throws a warning, mounts the share on the directory, and updates the entry in the `/etc/fstab` file. The rollback is registered only for the `/etc/fstab` update and will not delete the directory.
3. If the mount directory already exists and had an entry in in the `/etc/fstab` file for the same share name, then the task mounts the share and and throws a warning. The rollback is registered only for unmount and will not delete the directory.
4. If the `/etc/fstab` file is already updated and the mount directory does not exist, the task creates the directory and mounts it. Rollback is registered only for unmounting and deleting the directory.
5. If the mount directory already exists and has an entry in the `/etc/fstab` file for the share name and a mount present on the Linux machine, the task throws a warning and registers for rollback.

Failure: This task fails if any of the mounts fail on any host. All the hosts that are successful are be registered for rollback. The mount fails if:

- The mount directory already exists and is mounted on some other NFS Share.
- There is an entry in the `/etc/fstab` for the same mount directory for some other NFS Share.
- The task cannot create the directory, update the entry in `/etc/fstab`, or mount the NFS share directory.

Inputs

Input	Description	Mappable To Type	Mandatory
Host IP Address(s)	Comma Separated IP address(s)/FQDN of the hosts where NFS share need to be mounted. For Example 10.2.2.2,10.3.3.3,bigbox.mynetwork.com	gen_text_input	Y
Username	Username	gen_text_input	Y
Password	Password	password	Y
NFS Export Path	NFS Export Path	gen_text_input	Y
Mount Directory	Mount Directory on which NFS Shares to be mounted. The path should start with slash (/) and parent directory for creating mount directory should exist	gen_text_input	Y
FileSystem Type	Select NFS FileSystem Type of the Mount Directory	NFSFileSystemType	Y

Input	Description	Mappable To Type	Mandatory
Optional Parameters	Optional parameters to be passed while mounting NFS Share. Please make sure the mount options are valid.	gen_text_input	
Mount Utility Path	Mention the complete path of mount binary, ignore if it is already set in the PATH environment variable	gen_text_input	

Outputs

No Outputs

Unmount NFS Share

Summary

Unmount an NFS share directory on a Linux machine.

Description

This task unmounts an NFS share on a Linux machine. You provide comma-separated Host IP Addresses or FQDNs specifying the shares to be unmounted from the hosts. All the hosts should share same user name, password, and umount binary location (for example, /usr/bin/umount if not set in the path on the host machine). Failure: This task fails if any of the unmounts fail on any host. The task throws an error for the failed host and moves to the next host.

Inputs

Input	Description	Mappable To Type	Mandatory
Host IP Address(s)	Comma Separated IP address(s)/FQDN of the hosts where NFS share need to be unmounted. For Example 10.2.2.2,10.3.3.3,bigbox.mynetwork.com	gen_text_input	Y
Username	Username	gen_text_input	Y
Password	Password	password	Y
Unmount Utility Path	Mention the complete path of umount binary, ignore if it is already set in path	gen_text_input	
NFS Export Path	NFS Export Path	gen_text_input	Y
Unmount Location	Unmount Location	gen_text_input	Y

Outputs

No Outputs