



NFS transition: supported and unsupported configurations, and required manual steps

ONTAP 7-Mode Transition

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NFS transition: supported and unsupported configurations, and required manual steps

Some NFS configurations are not transitioned to ONTAP because they are not supported in ONTAP, there are functionality differences from 7-Mode, or they must be manually transitioned. You should verify all of the precheck errors and warning messages to evaluate the impact of such configurations on transition.

Supported configurations for transition

At a high level, the following NFS configurations are transitioned by the 7-Mode Transition Tool:

- NFS options:

- `nfs.udp.xfersize`
- `nfs.v4.id.domain`
- `nfs.v4.acl.max.aces`
- `nfs.tcp.xfersize`
- `nfs.rpcsec.ctx.high`
- `nfs.rpcsec.ctx.idle`
- `nfs.response.trigger`
- `wapl.default_nt_user`
- `nfs.mount_rootonly`
- `nfs.tcp.enable`
- `nfs.udp.enable`
- `nfs.response.trace`
- `nfs.v4.read_delegation`
- `nfs.v4.write_delegation`
- `nfs.v4.acl.enable`
- `nfs.vstorage.enable`
- `nfs.v3.enable`
- `nfs.v4.enable`

- NFS export rule:

If the export rule is configured with the `-actual` option, the exported path (alias path) is ignored and the export rule is configured with the actual path.

- Export rules with Kerberos security `krb5p`

See the precheck results for details about these NFS configurations.

Unsupported configurations in ONTAP

The following NFS configurations are not supported in ONTAP:

- Subvolume NFS exports other than qtree-level NFS exports
- WebNFS
- PC-NFS
- NFSv2
- Fencing of NFS clients from one or more file system paths
- Some NFS options

See the precheck warning messages for a complete list of unsupported options.

Configurations that must be manually transitioned

There are some NFS configurations that are supported in ONTAP, but are not transitioned by the 7-Mode Transition Tool.

The following NFS configurations generate a warning message in the precheck operation, and you must manually apply the configurations on the SVM:

- NFS audit configuration
- NFS options:
 - `rpc.nsm.tcp.port`
 - `rpc.nsm.udp.port`
 - `rpc.mountd.tcp.port`
 - `rpc.mountd.udp.port`
 - `nfs.export.neg.timeout`
 - `nfs.export.pos.timeout`
 - `nfs.export.harvest.timeout` Use the `vserver nfs modify` command to modify the configuration of an NFS-enabled storage virtual machine (SVM).
- Kerberos configuration

Configurations that are functionally different in ONTAP

The following NFS configurations are functionally different in ONTAP:

- NFS export rules
- NFS export access cache
- NFS diagnostic commands
- Support for the `showmount` command
- NFS Kerberos encryption

- NLM version support

Related information

[Customizing the transition of 7-Mode configurations](#)

[NFS management](#)

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