



Configure NFSv4 file and record locking

ONTAP 9

NetApp
January 23, 2026

This PDF was generated from <https://docs.netapp.com/us-en/ontap/nfs-admin/nfsv4-file-record-locking-concept.html> on January 23, 2026. Always check docs.netapp.com for the latest.

Table of Contents

Configure NFSv4 file and record locking	1
Learn about NFSv4 file and record locking for ONTAP SVMs	1
Specify the NFSv4 locking lease period for ONTAP SVMs	1
Specify the NFSv4 locking grace period for ONTAP SVMs	1

Configure NFSv4 file and record locking

Learn about NFSv4 file and record locking for ONTAP SVMs

For NFSv4 clients, ONTAP supports the NFSv4 file-locking mechanism, maintaining the state of all file locks under a lease-based model.

[NetApp Technical Report 3580: NFSv4 Enhancements and Best Practices Guide Data ONTAP Implementation](#)

Specify the NFSv4 locking lease period for ONTAP SVMs

To specify the NFSv4 locking lease period (that is, the time period in which ONTAP irrevocably grants a lock to a client), you can modify the `-v4-lease-seconds` option. Shorter lease periods speed up server recovery while longer lease periods are beneficial for servers handling a very large amount of clients.

About this task

By default, this option is set to 30. The minimum value for this option is 10. The maximum value for this option is the locking grace period, which you can set with the `locking.lease_seconds` option.

Steps

1. Set the privilege level to advanced:

```
set -privilege advanced
```

2. Enter the following command:

```
vserver nfs modify -vserver vserver_name -v4-lease-seconds number_of_seconds
```

3. Return to the admin privilege level:

```
set -privilege admin
```

Specify the NFSv4 locking grace period for ONTAP SVMs

To specify the NFSv4 locking grace period (that is, the time period in which clients attempt to reclaim their locking state from ONTAP during server recovery), you can modify the `-v4-grace-seconds` option.

About this task

By default, this option is set to 45.

Steps

1. Set the privilege level to advanced:

```
set -privilege advanced
```

2. Enter the following command:

```
vserver nfs modify -vserver vserver_name -v4-grace-seconds number_of_seconds
```

3. Return to the admin privilege level:

```
set -privilege admin
```

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