# **■** NetApp

# Manage NVMe protocol

ONTAP 9

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# **Table of Contents**

| Manage NVMe protocol       |        | <br> | . 1 |
|----------------------------|--------|------|------|------|------|------|------|------|------|------|------|-----|
| Start the NVMe service for | an SVM | <br> | . 1 |
| Delete NVMe service from   | an SVM | <br> | . 1 |
| Resize a namespace         |        | <br> | . 2 |
| Convert a namespace into   | a LUN  | <br> | . 2 |

# Manage NVMe protocol

### Start the NVMe service for an SVM

Before you can use the NVMe protocol on your storage virtual machine (SVM), you must start the NVMe service on the SVM.

#### Before you begin

NVMe must be allowed as a protocol on your system.

The following NVMe protocols are supported:

Protocol	Beginning with	Allowed by						
TCP	ONTAP 9.10.1	Default						
FCP	ONTAP 9.4	Default						

#### Steps

1. Change the privilege setting to advanced:

```
set -privilege advanced
```

2. Verify that NVMe is allowed as a protocol:

```
vserver nvme show
```

3. Create the NVMe protocol service:

```
vserver nvme create
```

4. Start the NVMe protocol service on the SVM:

```
vserver nvme modify -status -admin up
```

### Delete NVMe service from an SVM

If needed, you can delete the NVMe service from your storage virtual machine (SVM).

#### **Steps**

1. Change the privilege setting to advanced:

```
set -privilege advanced
```

2. Stop the NVMe service on the SVM:

```
vserver nvme modify -status -admin down
```

3. Delete the NVMe service:

vserver nvme delete

## Resize a namespace

Beginning with ONTAP 9.10.1, you can use the ONTAP CLI to increase or decrease the size of a NVMe namespace. You can use System Manager to increase the size of a NVMe namespace.

#### Increase the size of a namespace

#### **System Manager**

- 1. Click Storage > NVMe Namespaces.
- 2. Hoover over the namespace you want to increase, click :, and then click Edit.
- 3. Under **CAPACITY**, change the size of the namespace.

#### CLI

1. Enter the following command: vserver nvme namespace modify -vserver SVM\_name -path path -size new size of namespace

#### Decrease the size of a namespace

You must use the ONTAP CLI to decrease the size of a NVMe namespace.

1. Change the privilege setting to advanced:

```
set -privilege advanced
```

2. Decrease the size of the namespace:

```
vserver nvme namespace modify -vserver SVM_name -path namespace_path -size new size of namespace
```

# Convert a namespace into a LUN

Beginning with ONTAP 9.11.1, you can use the ONTAP CLI to in-place convert an existing NVMe namespace to a LUN.

### Before you start

- Specified NVMe namespace should not have any existing maps to a Subsystem.
- Namespace should not be part of a snapshot or on the destination side of SnapMirror relationship as a read-only namespace.
- Since NVMe namespaces are only supported with specific platforms and network cards, this feature only works with specific hardware.

#### **Steps**

You enter the following command to convert an NVMe namespace to a LUN:

 $\verb|lun convert-from-namespace -vserver -namespace-path|\\$ 

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