



# Replacing a failed drive when using SW RAID

## ONTAP Select

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# Replacing a failed drive when using SW RAID

When a drive fails using software RAID, ONTAP Select uses a spare drive (if one is available) and starts the rebuild process automatically. This is similar to how ONTAP on FAS and AFF works. However, if no spare drive is available, you need to add one to the ONTAP Select node.



Both the removal of the failed drive and the addition of a new drive (marked as a spare) must be performed through ONTAP Deploy. Attaching a drive to the ONTAP Select VM using vSphere is not supported.

## Identify the failed drive

After a drive fails, use the Deploy utility CLI to identify the disk that failed.

### Steps

1. Sign in to the Deploy utility CLI using the administrator account.
2. Identify the disk that has failed.

```
<cluster name>::> storage disk show -container-type broken
Usable Disk Container Container
Disk Size Shelf Bay Type Type Name Owner
-----
NET-1.4 893.3GB - - SSD broken - sti-rx2540-346a'
```

## Remove the failed drive

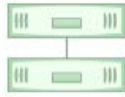
After you identify the drive that failed, remove the disk.

### Steps

1. Sign in to the Deploy web user interface using the administrator account.
2. Click the **Clusters** tab and select the relevant cluster.

## Node Details

### > HA Pair 1



**Node 1** sti-rx2540-345a — 8.73 TB + ⚡

**Host 1** sti-rx2540-345 — (Small (4 CPU, 16 GB Memory))

**Node 2** sti-rx2540-346a — 8.73 TB + ⚡

**Host 2** sti-rx2540-346 — (Small (4 CPU, 16 GB Memory))

3. Click + to expand the storage view.

Edit Node Storage

Node sti-rx2540-345a (Capacity: 135 GB, Licensed 50 TB)

Select License

### Storage Disks Details

Edit

Data Disks for sti-rx2540-345a

ONTAP Name	Device Name	Device Type	Adapter	Capacity	Used by
NFT-1.1	naa.5002538c40b4c044	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NET-1.2	naa.5002538c40b4d1b	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NCT-1.3	naa.5002538c40b4e042	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NFT-1.4	naa.5002538c40b4c049	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NET-1.5	naa.5002538c40b4e041	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NLT-1.6	naa.5002538c40b4d1f54	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NCT-1.7	naa.5002538c40b4d1f53	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NET-1.8	naa.5002538c40b4d14a	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NET-1.9	naa.5002538c40b4e03e	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...
NCT-1.10	naa.5002538c40b4e046	SSD	vmhba4	894.25 GB	sti-rx2540-345a =>...

4. Click **Edit** to make changes to the attached disks and uncheck the failed drive.

Node sti-rx2540-345a (Capacity: 135 GB, Licensed 50 TB)

[Select License](#)

### Storage Disks Details

Select Disks for sti-rx2540-345a

	ONTAP Na...	Device Name	Device Type	Adapter	Capacity	Used by
<input checked="" type="checkbox"/>	NET-1.1	naa.5002538c40b4e044	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.2	naa.5002538c40b4df4b	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.3	naa.5002538c40b4e042	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input type="checkbox"/>	NET-1.4	naa.5002538c40b4e049	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.5	naa.5002538c40b4e041	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.6	naa.5002538c40b4df54	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.7	naa.5002538c40b4df53	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.8	naa.5002538c40b4df4a	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.9	naa.5002538c40b4e03e	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...

Selected Capacity: 7.86 TB (9/10 disks)

5. Provide the cluster credentials and click **Edit Storage**.

Selected Capacity: 8.73 TB (10/10 disks)

### ONTAP Credentials

Cluster Username admin

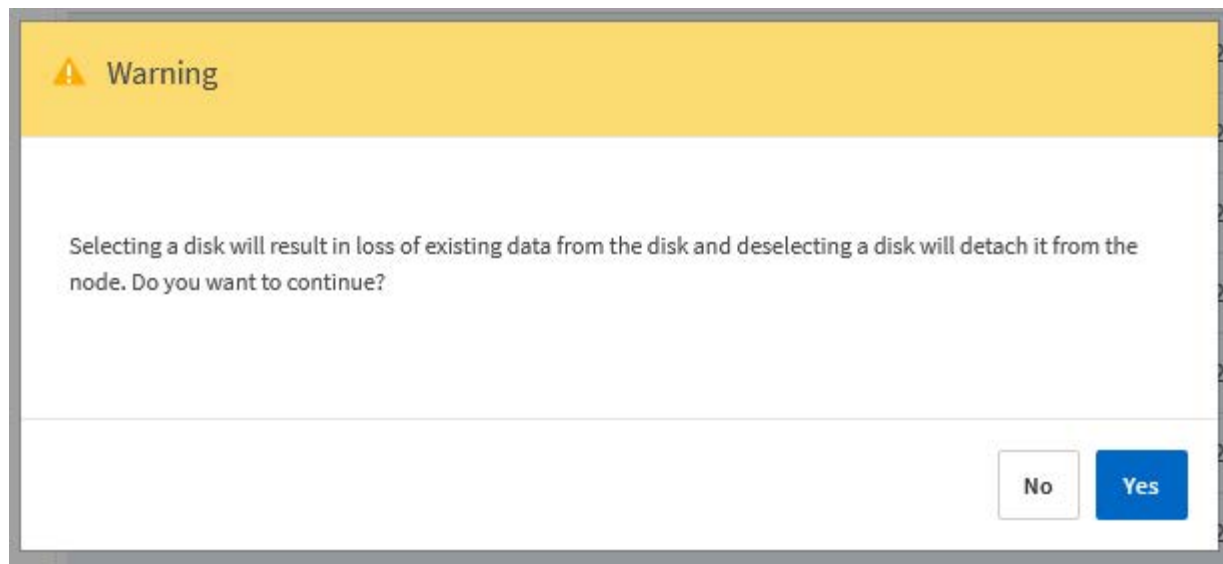
Cluster Password

••••••••

Cancel

Edit Storage

6. Confirm the operation.

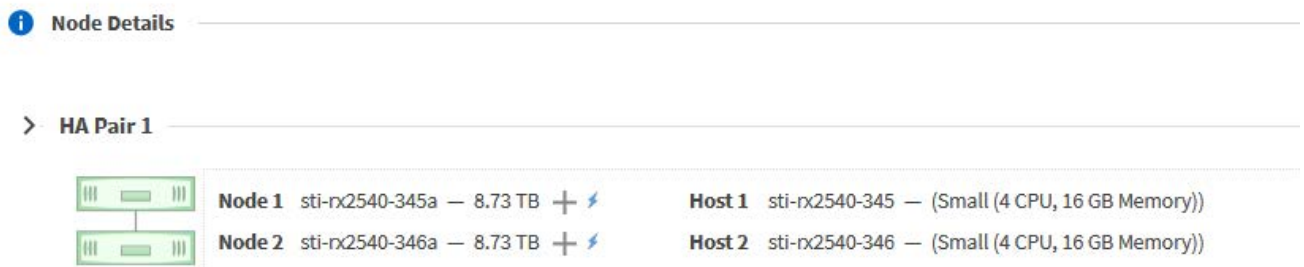


## Add the new spare drive

After you remove the failed drive, add the spare disk.

### Steps

1. Sign in to the Deploy web user interface using the administrator account.
2. Click the **Clusters** tab and select the relevant cluster.



3. Click + to expand the storage view.

Node sti-rx2540-345a (Capacity: 135 GB, Licensed 50 TB)

[Select License](#)**Storage Disks Details**[Edit](#)

Data Disks for sti-rx2540-345a

ONTAP Name	Device Name	Device Type	Adapter	Capacity	Used by
NET-1.1	naa.5002538c40b4e044	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.2	naa.5002538c40b4df4b	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.3	naa.5002538c40b4e042	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.4	naa.5002538c40b4e049	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.5	naa.5002538c40b4e041	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.6	naa.5002538c40b4df54	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.7	naa.5002538c40b4df53	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.8	naa.5002538c40b4df4a	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.9	naa.5002538c40b4e03e	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...
NET-1.10	naa.5002538c40b4e046	SSD	vmhba4	894.25 GB	sti-rx2540-345a=>...

4. Click **Edit** and confirm that the new drive is available and select it.

Node sti-rx2540-345a (Capacity: 135 GB, Licensed 50 TB)

[Select License](#)**Storage Disks Details**

Select Disks for sti-rx2540-345a

	ONTAP Na...	Device Name	Device Type	Adapter	Capacity	Used by
<input checked="" type="checkbox"/>		naa.5002538c40b4e049	SSD	vmhba4	894.25 GB	
<input checked="" type="checkbox"/>	NET-1.1	naa.5002538c40b4e044	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.2	naa.5002538c40b4df4b	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.3	naa.5002538c40b4e042	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.5	naa.5002538c40b4e041	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.6	naa.5002538c40b4df54	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.7	naa.5002538c40b4df53	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.8	naa.5002538c40b4df4a	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...
<input checked="" type="checkbox"/>	NET-1.9	naa.5002538c40b4e03e	SSD	vmhba4	894.25 GB	sti-rx2540-345a=...

5. Provide the cluster credentials and click **Edit Storage**.

Selected Capacity: 8.73 TB (10/10 disks)

**ONTAP Credentials**

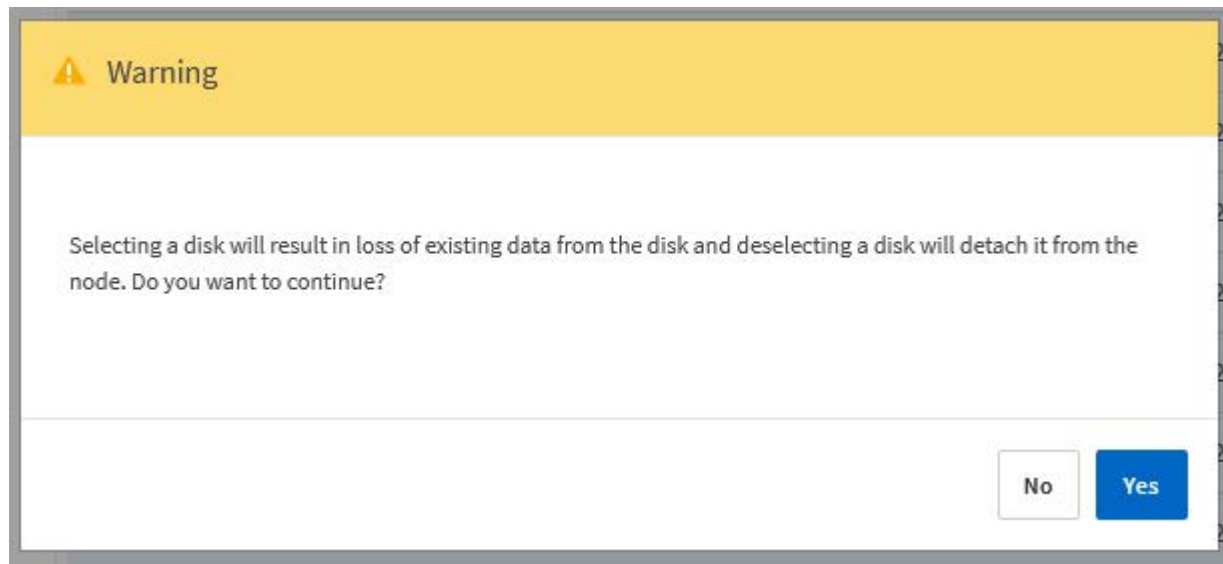
Cluster Username admin

Cluster Password

••••••••

[Cancel](#)[Edit Storage](#)

6. Confirm the operation.





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