



Replacing a failed drive when using SW RAID

ONTAP Select

NetApp
October 18, 2021

This PDF was generated from https://docs.netapp.com/us-en/ontap-select/task_adm_replace_drives_swraid.html on October 27, 2021. Always check docs.netapp.com for the latest.

Table of Contents

- Replacing a failed drive when using SW RAID 1
 - Identify the failed drive 1
 - Remove the failed drive 1
 - Add the new spare drive 3

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

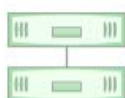
After you identify the drive that failed, remove the disk.

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.

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** 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**

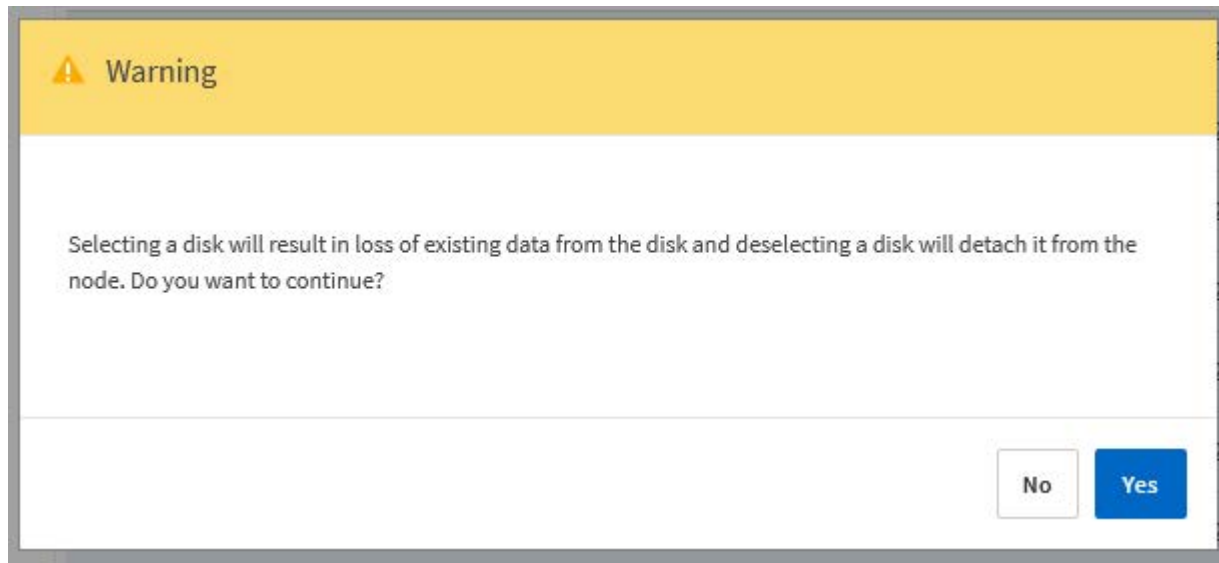
Cluster Password

••••••••

Cancel

Edit Storage

6. Confirm the operation.



Add the new spare drive

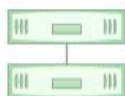
After you remove the failed drive, add the spare disk.

Steps

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

Node Details

> HA Pair 1



Node 1 sti-rx2540-345a — 8.73 TB + ⚡

Node 2 sti-rx2540-346a — 8.73 TB + ⚡

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

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

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

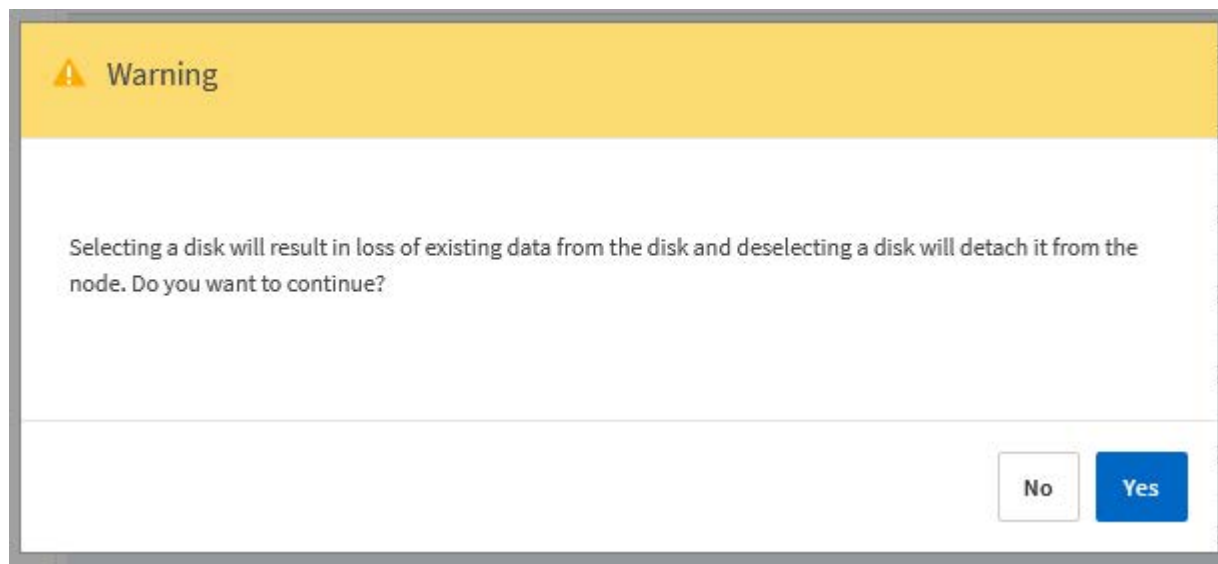
Cluster Username admin

Cluster Password

••••••••

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

6. Confirm the operation.



Copyright Information

Copyright © 2021 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.