



# **Generate an upgrade plan**

## Digital Advisor

NetApp

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# Generate an upgrade plan

## Learn about generating an ONTAP upgrade plan in Digital Advisor

Upgrade Advisor enables you to generate an upgrade plan that includes detailed and step-by-step information required for a successful ONTAP upgrade or revert.

You can generate automated nondisruptive upgrade plans for a single cluster and multiple clusters. You can view upgrade recommendations for a single cluster, which includes a list of risks associated with a cluster, a pre-upgrade check report containing a list of upgrade blockers and warnings, and information about new features and enhancements. The upgrade recommendations are unavailable for multiple clusters. To learn more, see [Generate an upgrade plan for single cluster and multiple clusters](#).



For each cluster in a MetroCluster configuration, generate an individual upgrade plan for complete upgrade instructions.

Before generating an upgrade plan, you should prepare for an ONTAP upgrade. Proper preparation helps in identifying and mitigating potential upgrade risks or blockers before you begin the upgrade process. To learn more, see [Prepare for an ONTAP upgrade](#).

## Generate an ONTAP upgrade plan for single and multiple clusters in Digital Advisor

You can use Upgrade Advisor to view the list of clusters that are eligible or ineligible for an upgrade. You can view upgrade recommendations for an eligible cluster and generate an upgrade plan. You can fix the issues with an ineligible cluster to make it eligible for an upgrade.

### Before you begin

Before generating an upgrade plan, you should:

- Ensure that AutoSupport (ASUP) is enabled and configured correctly, and all required sections are included. For more information, see [ONTAP AutoSupport Resolution Guide](#).
- Verify the AutoSupport's cluster members match the SAP cluster configuration. For more information, [open a non-technical case](#).

### Steps

You can follow these steps to generate an upgrade plan for a single cluster and multiple clusters:

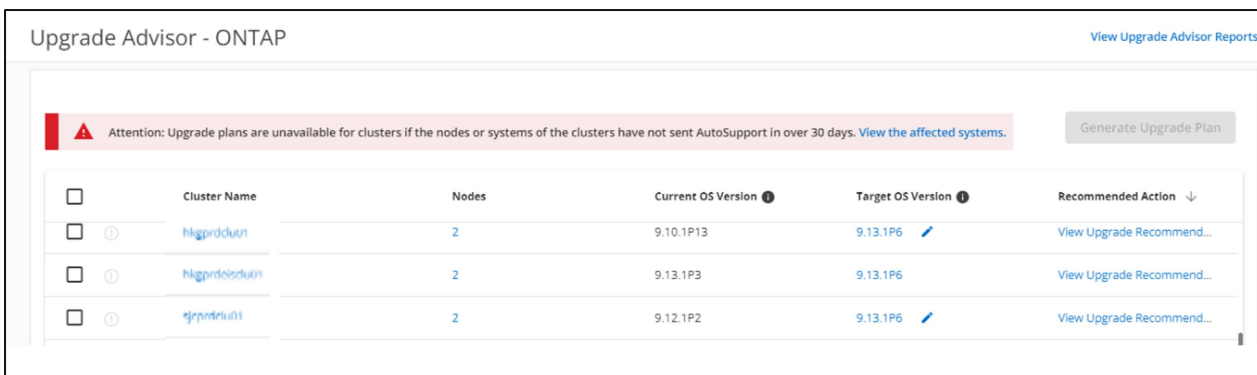
## Single cluster

1. On the dashboard, click number of clusters in the **Upgrade Advisor** widget.




The **Upgrade Advisor-ONTAP** page appears.

2. You can view a list of eligible and ineligible clusters for an upgrade.

The screenshot shows the "Upgrade Advisor - ONTAP" page. At the top right is a link "View Upgrade Advisor Reports". Below the header is a red warning banner: "Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#)" To the right of the banner is a "Generate Upgrade Plan" button. Below the banner is a table with the following columns: "Cluster Name", "Nodes", "Current OS Version", "Target OS Version", and "Recommended Action".

<input type="checkbox"/>	Cluster Name	Nodes	Current OS Version ⓘ	Target OS Version ⓘ	Recommended Action ↓
<input type="checkbox"/> ⓘ	hkgprodclun	2	9.10.1P13	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/> ⓘ	hkgprodclun	2	9.13.1P3	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/> ⓘ	qjprodclun01	2	9.12.1P2	9.13.1P6	<a href="#">View Upgrade Recommend...</a>

3. Select a cluster for an upgrade.

The **Target OS Version** column displays the recommended target OS version. You can click the  icon to select another target OS version of a cluster.

Upgrade Advisor - ONTAP

View Upgrade Advisor Reports

Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) [Generate Upgrade Plan](#)

1 cluster selected. 57 clusters selected

**Select Target Version**

Target OS Version

9.11.1P13 Recommended release

[View Upgrade Recommendation](#) →

OK

Cluster Name	Nodes	Current OS Version	Target OS Version	Recommended Action
higgrndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	1	9.11.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
higgrndu02	2	9.10.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	4	9.10.1P8		<a href="#">Resolve Issue</a>
higgrndu01	2	9.13.1P3		<a href="#">Resolve Issue</a>
higgrndu01	5	9.12.1P4, 9.13.1P4		<a href="#">Resolve Issue</a>
higgrndu01	4	9.10.1P12		<a href="#">Resolve Issue</a>

- You can click the number of nodes in the **Nodes** column to see the node summary of a cluster.
- You can click **Resolve Issues** from the **Recommended Action** column to fix the issues with an ineligible cluster to make it eligible for an upgrade.

Upgrade Advisor - ONTAP

View Upgrade Advisor Reports

Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) [Generate Upgrade Plan](#)

**Resolve Issue**

Type:

Some nodes in this cluster have not sent AutoSupport in 30 days or longer and cannot be upgraded

Resolution:

Enable AutoSupport for all nodes in this cluster using the following options:

[Set up AutoSupport](#) [Manual AutoSupport upload](#)

OK

Cluster Name	Nodes	Current OS Version	Target OS Version	Recommended Action
higgrndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	1	9.11.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
higgrndu02	2	9.10.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
higgrndu01	4	9.10.1P8		<a href="#">Resolve Issue</a>
higgrndu01	2	9.13.1P3		<a href="#">Resolve Issue</a>
higgrndu01	5	9.12.1P4, 9.13.1P4		<a href="#">Resolve Issue</a>
higgrndu01	4	9.10.1P12		<a href="#">Resolve Issue</a>

4. Click **Generate Upgrade Plan**.  
You will be redirected to the **Upgrade Recommendation** page.
5. On the **Upgrade Recommendation** page, you can view the details of the risks associated with a cluster through the **Risk Advisor** tab. You can view the upgrade blockers, upgrade warnings, and required actions through the **Pre-upgrade Check** tab, and information about the new features and enhancements that are relevant to the selected target OS version through the **Enhanced and Updated ONTAP Features** tab.

Upgrade Recommendation

View Upgrade Advisor Reports

[← Back to all clusters](#)

Cluster Name

Customer Name

cluster1

Select an OS version for upgrade

Select to see upgrade recommendation for each version. Your latest selection is automatically saved.

Generate Upgrade Plan

Current OS

Target OS

9.11.1P10

Latest Patch

☐ 9.11.1P13
 ☒ 9.13.1P6

Recommended Release

Select an OS version

Select an OS from this dropdown ▾

⚠

You are unable to review the risk advisor and pre-upgrade check because one or more of the systems in this cluster has not sent a weekly AutoSupport. [Resolve Issue](#)

Risk Advisor

Pre-upgrade Check

Enhanced and Updated ONTAP Features

- You can select another target OS version and view the risk summary, pre-upgrade check report, and information on new features and enhancements related to that target OS version.
  - You can click the [Export](#) icon to export the risk summary to an Excel sheet.
- Click **Generate Upgrade Plan** from the **Upgrade Recommendation** page.
  - Provide the details in the displayed pop-up.

## Generate Single-Cluster Upgrade Plan



Report Name \*

Required  
Style

Automated Non Disruptive Upgrade

Type

ROLLING

Method

HTTP

Format

PDF

Email \*

Cancel

Generate

8. Click **Generate**.

You will be redirected to the **Reports** page.

9. You can download the upgrade plan from the **Reports** page once it is available.

You can click **View Upgrade Advisor Reports** to go to the **Reports** page.



Upgrade Advisor - ONTAP

[View Upgrade Advisor Reports](#)

**Attention:** Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#)

[Generate Upgrade Plan](#)

<input type="checkbox"/>	Cluster Name	Nodes	Current OS Version ⓘ	Target OS Version ⓘ	Recommended Action ↓
<input type="checkbox"/>	<a href="#">hkgprdduun</a>	2	9.10.1P13	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">hkgprdduun</a>	2	9.13.1P3	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">hkgprdduun</a>	2	9.12.1P2	9.13.1P6	<a href="#">View Upgrade Recommend...</a>

There are some tasks you should perform to confirm the readiness of the cluster after you upgrade ONTAP. To learn more, see [What to do after an ONTAP upgrade](#).

### Multiple clusters

1. On the dashboard, click number of clusters in the **Upgrade Advisor** widget.

Upgrade Advisor

[ONTAP](#) E-Series

57  
Clusters

Upgrade plans are available at a cluster level. Not all clusters are available for the upgrade. [Learn more about eligible clusters.](#)

The **Upgrade Advisor-ONTAP** page appears.

2. You can view a list of eligible and ineligible clusters for an upgrade.

Upgrade Advisor - ONTAP

[View Upgrade Advisor Reports](#)

**Attention:** Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#)

[Generate Upgrade Plan](#)

<input type="checkbox"/>	Cluster Name	Nodes	Current OS Version ⓘ	Target OS Version ⓘ	Recommended Action ↓
<input type="checkbox"/>	<a href="#">hkgprdduun</a>	2	9.10.1P13	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">hkgprdduun</a>	2	9.13.1P3	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">hkgprdduun</a>	2	9.12.1P2	9.13.1P6	<a href="#">View Upgrade Recommend...</a>

3. Select clusters for an upgrade.

The **Target OS Version** column displays the recommended target OS version. You can click the icon to select another target OS version of a cluster.



Upgrade Advisor - ONTAP

View Upgrade Advisor Reports

Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) [Generate Upgrade Plan](#)

3 clusters selected. 57 clusters selected

**Select Target Version**

Target OS Version

9.12.1P9 Recommended release

[View Upgrade Recommendation](#)

**OK**

	Cluster Name	Nodes	Current OS Version	Target OS Version	Recommended Action
<input type="checkbox"/>	clustername1	5	9.10.1P12	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
<input checked="" type="checkbox"/>	clustername2	10	9.12.1P9	9.12.1P9	<a href="#">View Upgrade Recommendation...</a>
<input checked="" type="checkbox"/>	clustername3	12	9.10.1P12	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
<input checked="" type="checkbox"/>	clustername4	6	9.12.1P8	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername5	10	9.12.1P8	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername6	9	9.12.1P2	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>

- You can click the number of nodes in the **Nodes** column to see the node summary of a cluster.
- You can click **Resolve Issues** from the **Recommended Action** column to fix the issues with ineligible clusters to make them eligible for an upgrade.

Upgrade Advisor - ONTAP

View Upgrade Advisor Reports

Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) [Generate Upgrade Plan](#)

**Resolve Issue**

Type:

Some nodes in this cluster have not sent AutoSupport in 30 days or longer and cannot be upgraded

Resolution:

Enable AutoSupport for all nodes in this cluster using the following options:

[Set up AutoSupport](#)

[Manual AutoSupport upload](#)

**OK**

	Cluster Name	Nodes	Current OS Version	Recommended Action
<input type="checkbox"/>	clustername1	5	9.10.1P12	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername2	6	9.10.1P12	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername3	6	9.10.1P12	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername4	13	9.10.1P12	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername5	13	9.10.1P12	<a href="#">View Upgrade Recommendation...</a>
<input type="checkbox"/>	clustername6	4	9.10.1P8	<a href="#">Resolve Issue</a>
<input type="checkbox"/>	clustername7	2	9.13.1P3	<a href="#">Resolve Issue</a>
<input type="checkbox"/>	clustername8	5	9.12.1P4, 9.13.1P4	<a href="#">Resolve Issue</a>
<input type="checkbox"/>	clustername9	4	9.10.1P12	<a href="#">Resolve Issue</a>

4. Click **Generate Upgrade Plan**.
5. Provide the details in the displayed pop-up.

## Generate Multiple-Cluster Upgrade Plan



Upgrade recommendations like risk advisory, pre-upgrade check report, updated and enhanced features report are not available for multiple-cluster selection to generate upgrade plans.

Report Name \*

Required  
Style

Automated Non Disruptive Upgrade

Type

ROLLING

Method

HTTP

Format

PDF

Email \*

Cancel

Generate

6. Click **Generate**.

You will be redirected to the **Reports** page.

7. You can download the upgrade plan from the **Reports** page once it is available.

You can click **View Upgrade Advisor Reports** to go to the **Reports** page.



Upgrade Advisor - ONTAP

[View Upgrade Advisor Reports](#)

**Attention:** Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) [Generate Upgrade Plan](#)

<input type="checkbox"/>	Cluster Name	Nodes	Current OS Version ⓘ	Target OS Version ⓘ	Recommended Action ↓
<input type="checkbox"/>	<a href="#">higprddun</a>	2	9.10.1P13	9.13.1P6 <a href="#">✎</a>	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">higprddun</a>	2	9.13.1P3	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">higprddun</a>	2	9.12.1P2	9.13.1P6 <a href="#">✎</a>	<a href="#">View Upgrade Recommend...</a>

There are some tasks you should perform to confirm the readiness of the cluster after you upgrade ONTAP. To learn more, see [What to do after an ONTAP upgrade](#).

## View firmware update recommendations in Digital Advisor

Customers can now save time and effort by allowing Control Tower to automatically update their systems with the latest firmware versions, eliminating the need for manual intervention or scheduling. This update reduces the risk of encountering issues due to outdated or incompatible firmware versions, ensuring optimal system performance, stability, and security.

Customers will receive timely notifications and alerts about the status of the firmware updates, with options to enable AutoSupport and auto-update settings.

### Steps

1. On the dashboard page, click **Other recommendations** in the **Upgrade Advisor** widget.
2. Click **View recommendations** to view the list of recommendations.
3. In the **Update Status** column, click **See progress** to view the clusters that are eligible for an update.
4. In case of any issues, click on the respective links to view the steps to mitigate the issues.

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