



# **Generate an upgrade plan**

## Digital Advisor

NetApp  
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# Generate an upgrade plan

## Overview

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.
- For clusters running ONTAP 9.6 or older versions, you can view the information about new features and enhancements in upgrade recommendations. The pre-upgrade check report and risk summary are unavailable, and you can generate an upgrade plan in the older format.

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 upgrade plan for single cluster and multiple clusters

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.

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

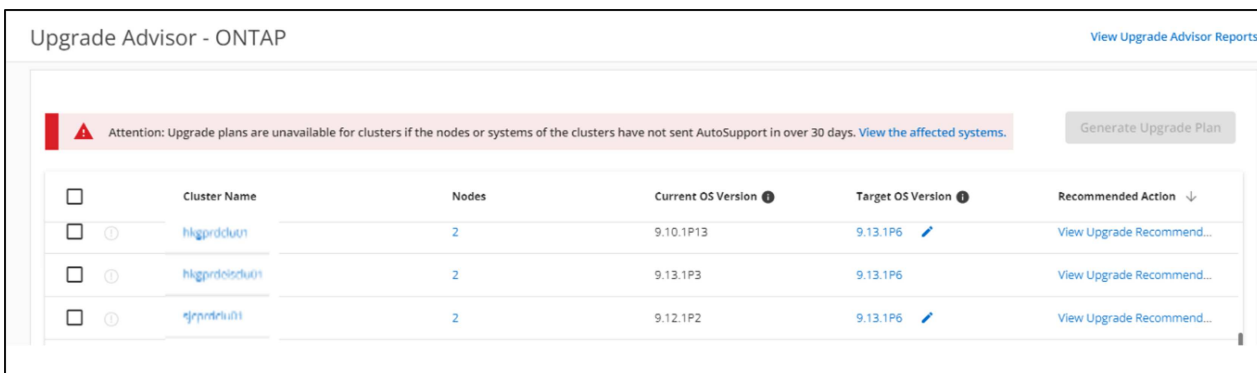
## Single cluster

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
hvgpndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
hvgpndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
avpndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
avpndu01	1	9.11.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
svvpndu02	2	9.10.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
avpndu01	4	9.10.1P8		<a href="#">Resolve Issue</a>
avpndu01	2	9.13.1P3		<a href="#">Resolve Issue</a>
avpndu01	5	9.12.1P4, 9.13.1P4		<a href="#">Resolve Issue</a>
avpndu01	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
hvgpndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
hvgpndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
avpndu01	1	9.13.1P6	9.13.1P6	<a href="#">View Upgrade Recommendation...</a>
avpndu01	1	9.11.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
svvpndu02	2	9.10.1P13	9.11.1P13	<a href="#">View Upgrade Recommendation...</a>
avpndu01	4	9.10.1P8		<a href="#">Resolve Issue</a>
avpndu01	2	9.13.1P3		<a href="#">Resolve Issue</a>
avpndu01	5	9.12.1P4, 9.13.1P4		<a href="#">Resolve Issue</a>
avpndu01	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

Recommended Release

☒ 9.13.1P6

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.

6. Click **Generate Upgrade Plan** from the **Upgrade Recommendation** page.

7. 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
cluster1	5	9.10.1P12	9.13.1P6	View Upgrade Recommendation...
cluster2	10	9.12.1P9	9.12.1P9	View Upgrade Recommendation...
cluster3	12	9.10.1P12	9.13.1P6	View Upgrade Recommendation...
cluster4	6	9.12.1P8	9.13.1P6	View Upgrade Recommendation...
cluster5	10	9.12.1P8	9.13.1P6	View Upgrade Recommendation...
cluster6	9	9.12.1P2	9.13.1P6	View Upgrade Recommendation...

- 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
cluster1	5	9.10.1P12	View Upgrade Recommendation...
cluster2	6	9.10.1P12	View Upgrade Recommendation...
cluster3	6	9.10.1P12	View Upgrade Recommendation...
cluster4	13	9.10.1P12	View Upgrade Recommendation...
cluster5	13	9.10.1P12	View Upgrade Recommendation...
cluster6	4	9.10.1P8	Resolve Issue
cluster7	2	9.13.1P3	Resolve Issue
cluster8	5	9.12.1P4, 9.13.1P4	Resolve Issue
cluster9	4	9.10.1P12	Resolve Issue

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="#">higprdduun</a>	2	9.10.1P13	9.13.1P6 <a href="#">✎</a>	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">higprdoisduun</a>	2	9.13.1P3	9.13.1P6	<a href="#">View Upgrade Recommend...</a>
<input type="checkbox"/>	<a href="#">higprdoisduu1</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](#).

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