



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 the upgrade recommendation only 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. 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.

You can generate automated nondisruptive, disruptive, and nondisruptive upgrade plans for nodes (storage systems). You can review the recommended upgrade paths and generate an upgrade plan. To learn more, see [Generate an upgrade plan for your nodes](#).

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 the upgrade recommendation 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:

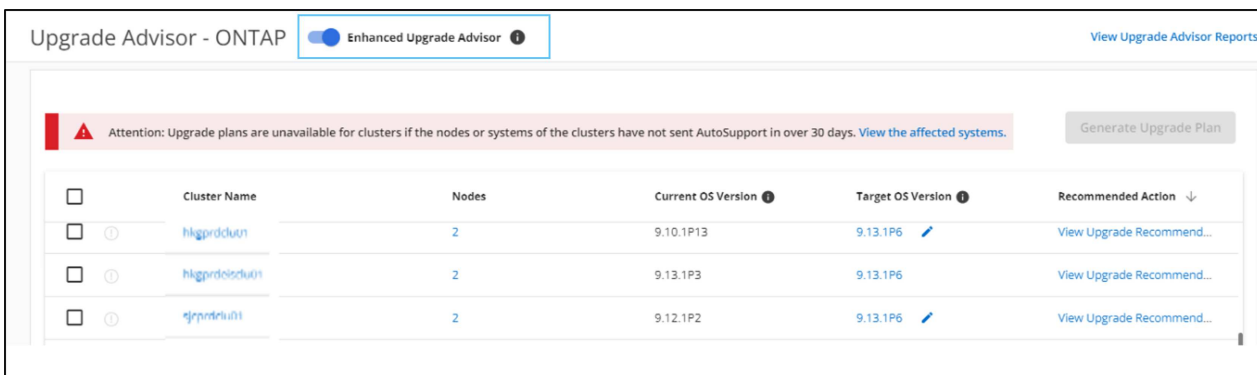
Single cluster

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




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

2. Verify that the **Enhanced Upgrade Advisor** toggle is enabled.



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

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 Enhanced Upgrade Advisor 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

	Cluster Name	Nodes	Version	Target OS Version	Recommended Action
<input type="checkbox"/>	hvgpndu01	1		9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	1		9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	1		9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	1		9.11.1P13	View Upgrade Recommendation...
<input checked="" type="checkbox"/>	hvgpndu02	2	9.10.1P13	9.11.1P13	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	4	9.10.1P8		Resolve Issue
<input type="checkbox"/>	hvgpndu01	2	9.13.1P3		Resolve Issue
<input type="checkbox"/>	hvgpndu01	5	9.12.1P4, 9.13.1P4		Resolve Issue
<input type="checkbox"/>	hvgpndu01	4	9.10.1P12		Resolve Issue

Select Target Version

Target OS Version

9.11.1P13 Recommended release

[View Upgrade Recommendation →](#)

OK

- 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 Enhanced Upgrade Advisor 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

	Cluster Name	Nodes	Version	Target OS Version	Recommended Action
<input type="checkbox"/>	hvgpndu01	1		9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	1		9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	1		9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	1		9.11.1P13	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu02	2	9.10.1P13	9.11.1P13	View Upgrade Recommendation...
<input type="checkbox"/>	hvgpndu01	4	9.10.1P8		Resolve Issue
<input type="checkbox"/>	hvgpndu01	2	9.13.1P3		Resolve Issue
<input type="checkbox"/>	hvgpndu01	5	9.12.1P4, 9.13.1P4		Resolve Issue
<input type="checkbox"/>	hvgpndu01	4	9.10.1P12		Resolve Issue

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

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.
- 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 Enhanced Upgrade Advisor ⓘ 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"/> ⓘ	hkgprdduun	2	9.10.1P13	9.13.1P6 ✓	View Upgrade Recommend...
<input type="checkbox"/> ⓘ	hkgprdduun	2	9.13.1P3	9.13.1P6	View Upgrade Recommend...
<input type="checkbox"/> ⓘ	hkgprdduun	2	9.12.1P2	9.13.1P6 ✓	View Upgrade Recommend...

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. Verify that the **Enhanced Upgrade Advisor** toggle is enabled.


Upgrade Advisor - ONTAP Enhanced Upgrade Advisor ⓘ View Upgrade Advisor Reports

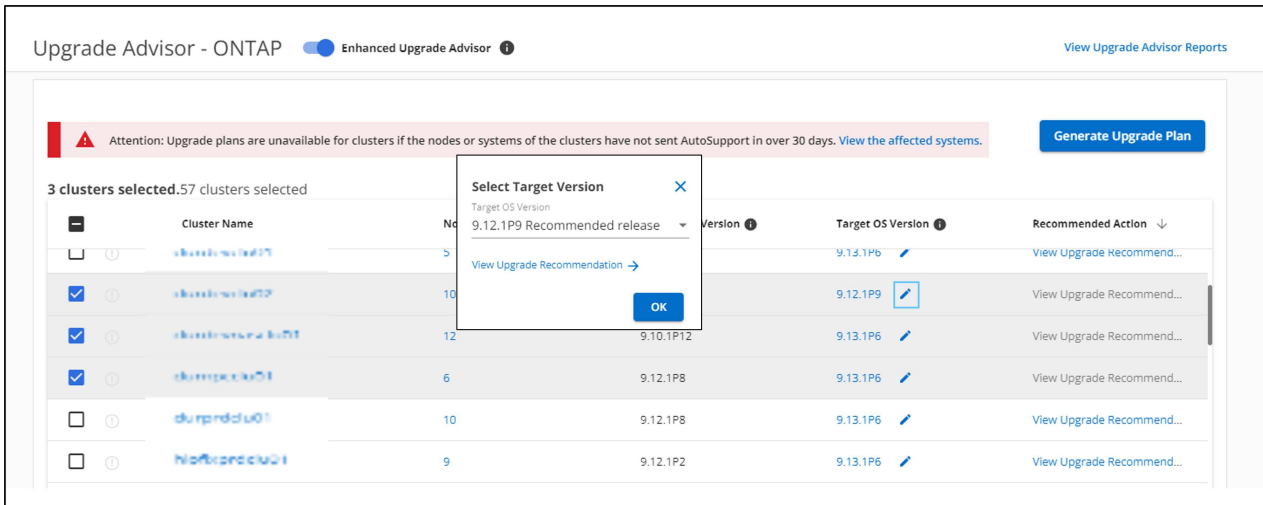
Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) Generate Upgrade Plan

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

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

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 Enhanced Upgrade Advisor View Upgrade Advisor Reports

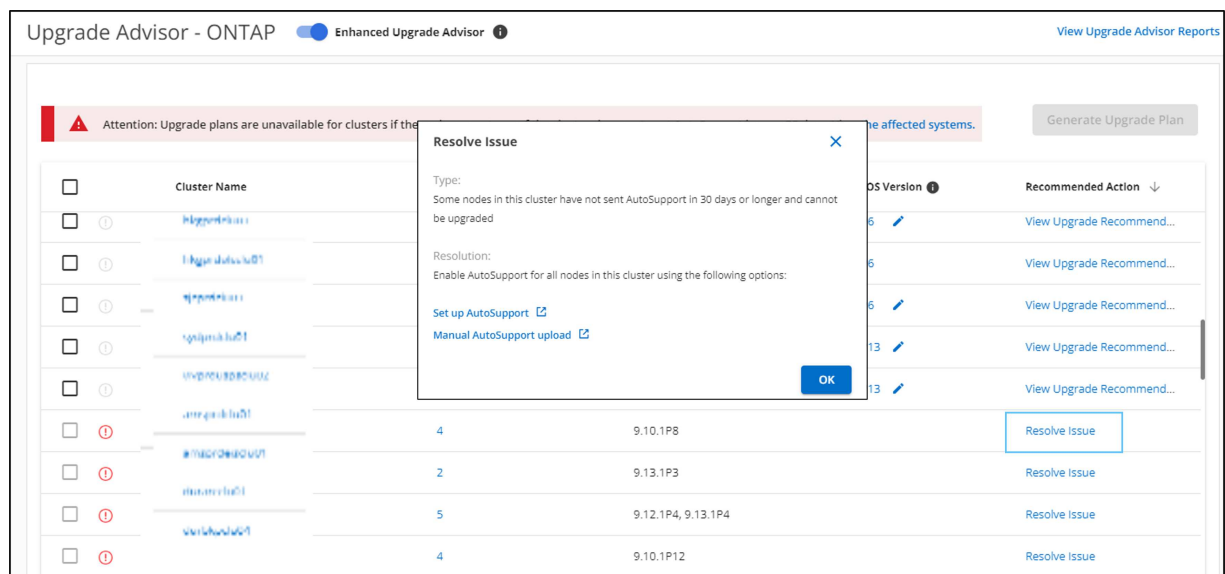
Attention: Upgrade plans are unavailable for clusters if the nodes or systems of the clusters have not sent AutoSupport in over 30 days. [View the affected systems.](#) Generate Upgrade Plan

3 clusters selected. 57 clusters selected

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

Select Target Version (Pop-up dialog):
 Target OS Version: 9.12.1P9 Recommended release
[View Upgrade Recommendation](#)
 OK

- 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 Enhanced Upgrade Advisor 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

	Cluster Name	Nodes	Current OS Version	Target OS Version	Recommended Action
<input type="checkbox"/>	clustername1	6	9.10.1P8	9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	clustername2	6	9.10.1P8	9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	clustername3	6	9.10.1P8	9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	clustername4	13	9.10.1P8	9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	clustername5	13	9.10.1P8	9.13.1P6	View Upgrade Recommendation...
<input type="checkbox"/>	clustername6	4	9.10.1P8	9.13.1P6	Resolve Issue
<input type="checkbox"/>	clustername7	2	9.13.1P3	9.13.1P6	Resolve Issue
<input type="checkbox"/>	clustername8	5	9.12.1P4, 9.13.1P4	9.13.1P6	Resolve Issue
<input type="checkbox"/>	clustername9	4	9.10.1P12	9.13.1P6	Resolve Issue

Resolve Issue (Pop-up dialog):
 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

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 Enhanced Upgrade Advisor 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"/>	higprdduun	2	9.10.1P13	9.13.1P6	View Upgrade Recommend...
<input type="checkbox"/>	higprdduun	2	9.13.1P3	9.13.1P6	View Upgrade Recommend...
<input type="checkbox"/>	higprdduun	2	9.12.1P2	9.13.1P6	View Upgrade Recommend...

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](#).

Generate an upgrade plan for nodes

You can use Upgrade Advisor to view recommended upgrades and generate an upgrade plan for nodes (storage systems). You can view the list of risks in the Risk Advisor tab associated with nodes and mitigate these risks if you upgrade to a newer version of ONTAP.

Steps

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

Upgrade Advisor

ONTAP E-Series

57
Clusters

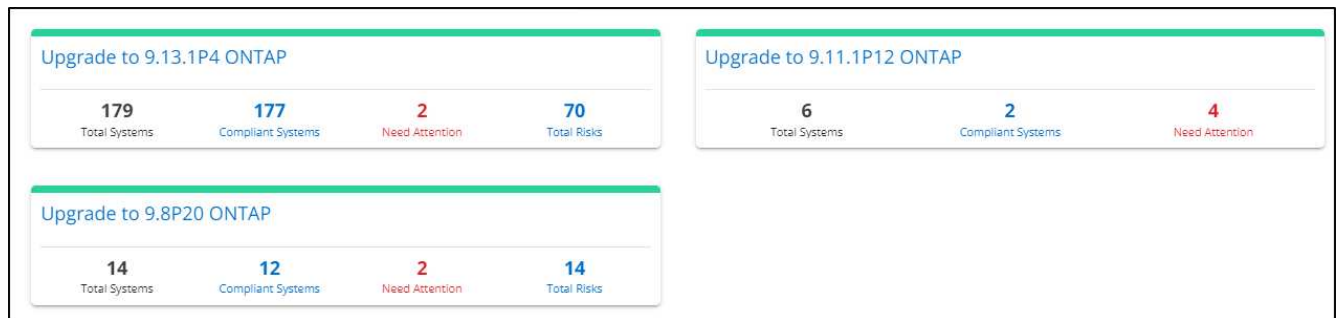
Upgrade plans are available at a cluster level. Not all clusters are available for the upgrade. [Learn more about eligible clusters.](#)

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

2. Disable the **Enhanced Upgrade Advisor** toggle.

Upgrade Advisor - ONTAP Enhanced Upgrade Advisor

3. Select the upgrade option.



- Click the number of compliant systems to generate an upgrade plan.
The **Upgrade Details** page is displayed.


Upgrade Details

Risk Advisor **Upgrade Advisor**

[← Back to Actions](#)

3 Systems. Selected for Upgrade Generate Upgrade Plan

	Hostname	Cluster Name	Serial Number	Last AutoSupport Date	Current OS Vers...	Target OS Version	Qua...
<input checked="" type="checkbox"/>	cluster11-01	cluster11	722045000155	2023-12-06T17:12:59.000Z	9.11.1P10	9.13.1P1	9.1
<input checked="" type="checkbox"/>	cluster12-01	cluster12	721901000040	2023-12-01T15:12:13.000Z	9.10.1P12	9.13.1P1	9.1
<input checked="" type="checkbox"/>	cluster13-01	cluster13	721741000192	2023-12-13T18:12:16.000Z	9.10.1P12	9.13.1P1	9.1
<input type="checkbox"/>	cluster14-01	cluster14	721744000191	2023-12-07T11:12:26.000Z	9.10.1P12	9.13.1P1	9.1
<input type="checkbox"/>	cluster15-01	cluster15	721744000191	2023-12-13T19:12:26.000Z	9.10.1P12	9.13.1P1	9.1
<input type="checkbox"/>	cluster16-01	cluster16	721945000053	2023-12-13T13:12:03.000Z	9.10.1P12	9.13.1P1	9.1

- You can click the  icon from the **Target OS Version** to select another target OS version of a cluster.
- You can go to the **Risk Advisor** tab to view the list of risks along with their severity level.

Upgrade Details

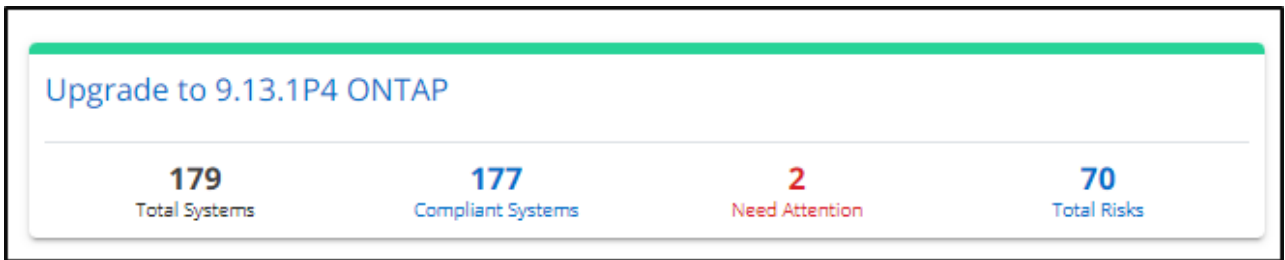
Risk Advisor Upgrade Advisor

[← Back to Actions](#)

View potential risks in target version ☐ Target OS Version 9.13.1P4

Risk Name	Systems	Impact
ONTAP 9 (formerly Clustered Data ONTAP) has been determined to have a version or configuration exposed to a vulnerability. Advisory ID: NTAP-2022...	10	High
Clustered Data ONTAP has been determined to have a version or configuration exposed to a vulnerability. Advisory ID: NTAP-2022...	10	High
ONTAP 9 (formerly Clustered Data ONTAP) has been determined to have a version or configuration exposed to a vulnerability. Advisory ID: NTAP-2022...	10	Medium
ONTAP 9 (formerly Clustered Data ONTAP) has been determined to have a version or configuration exposed to a vulnerability. Advisory ID: NTAP-2022...	10	Medium

- You can click the number of total risks to view the list of risks in the **Risk Advisor** tab if the upgrade option includes **Total Risks**.



5. In the **Upgrade Advisor** tab, select systems for an upgrade.
6. Click **Generate Upgrade Plan**.
7. Provide the details in the displayed pop-up. You can also select the **Revert Plan** checkbox to include the backout plan in the upgrade plan.

Generate Upgrade Plan

☒ Revert Plan

Report Name *

Style
Automated Non Disruptive Upgrade

Type
ROLLING

Method
HTTP

Format
PDF

Email *

Required

Cancel Submit

This is a screenshot of the 'Generate Upgrade Plan' pop-up form. The form has a title bar with a close button (X). It contains a checkbox for 'Revert Plan' which is checked. Below this are four dropdown menus: 'Report Name *', 'Style' (set to 'Automated Non Disruptive Upgrade'), 'Type' (set to 'ROLLING'), and 'Method' (set to 'HTTP'). There is also a 'Format' dropdown set to 'PDF'. At the bottom, there is an 'Email *' field with a red 'Required' message below it. Two buttons, 'Cancel' and 'Submit', are at the bottom right.

8. Click **Submit**.
You will be redirected to the **Reports** page.
9. You can download the upgrade plan from the **Reports** page once it is available.

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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