



## **Get started**

### **BlueXP operational resiliency**

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# Get started

## Learn about BlueXP operational resiliency

BlueXP operational resiliency is a service that helps you analyze alerts and events to maintain the health, uptime, and performance of services and solutions. Using the operational resiliency service and its automated IT operational risk remediation suggestions, you can implement suggested remediations before an outage or failure occurs.

This BlueXP service implements remediations to NetApp ONTAP clusters based on BlueXP digital advisor (Active IQ) guidance. The service detects security vulnerabilities, such as firmware and software configuration issues.

### Benefits of using BlueXP operational resiliency

BlueXP operational resiliency offers the following benefits:

- Automated procedures for corrections on the cluster
- Summary view in the Dashboard showing the state of each risk remediation
- Log that lets you track the different actions taken

### What you can do with BlueXP operational resiliency

Using the operational resiliency service, you can accomplish the following goals:

- Use automated workflows that help you detect risks impacting your storage environment and take actions to mitigate them.
- Review and act on operational recommendations, such as issues related to security vulnerabilities.

### Cost

NetApp doesn't charge you for using the service.

### Supported environments

BlueXP operational resiliency analyzes on-premises NetApp ONTAP clusters.

## BlueXP operational resiliency prerequisites

Get started by verifying the readiness of your operational environment, login, network access, and web browser.

To use the operational resiliency service, you should ensure that your environment meets all requirements.

- Your environment must meet all BlueXP requirements including a login and network access from a web browser.

Refer to the [BlueXP Quick start](#) and [BlueXP networking information](#).

- The service requires that all clusters are monitored by BlueXP digital advisor (Active IQ), which requires AutoSupport enabled on the asset. Refer to [BlueXP digital advisor documentation](#).
- You need to have access credentials to the clusters.
- For automatic remediation, a BlueXP Connector is required. It is helpful if the BlueXP Connector is in place and enabled and the ONTAP system is discovered before you initiate the remediation using BlueXP operational resiliency. If the Connector is not in place, the operational resiliency service walks you through those processes. If instead you remediate using an Ansible file, the BlueXP Connector is not required.

## Quick start for BlueXP operational resiliency

Here's an overview of the steps needed to get started with BlueXP operational resiliency. The links within each step take you to a page that provides more details.

1

### Review prerequisites

[Ensure your environment meets these requirements.](#)

2

### Set up the operational resiliency service

[Complete steps to set up the service.](#)

3

### What's next?

After you finish setting up the service, here's what you might do next.

- [Review and remediate security risk issues.](#)
- [Remediate automatically.](#)
- [Remediate with an Ansible playbook.](#)
- [Determine the risk remediation status.](#)

## Set up BlueXP operational resiliency

The first step on the path to using BlueXP operational resiliency is making data available from the monitoring tools in your environment.

Setting up the service involves the following steps:

- Review [prerequisites](#) to ensure that your environment is ready
- Optionally before using the service, create a Connector in BlueXP
- Optionally before using the service, discover the cluster in BlueXP

### Create a Connector in BlueXP

A BlueXP Connector includes credentials to NetApp ONTAP machines so that the Operational resiliency service can advise on security risks and execute remediations.

You can create a Connector directly in BlueXP and use that Connector in the operational resiliency service. Or, you can initiate the process of looking at the cluster and in the middle of that process, deploy the Connector.

To create a Connector in BlueXP before using the service, refer to BlueXP documentation that describes [how to create a Connector](#).

## Discover the cluster in BlueXP

Part of the setup involves identifying the cluster name, IP, user name, and password within BlueXP.

For instructions, refer to BlueXP documentation that explains [how to identify the cluster](#).

## Access BlueXP operational resiliency

You can use BlueXP operational resiliency by logging in to NetApp BlueXP.

To log in to BlueXP, you can use your NetApp Support Site credentials or you can sign up for a NetApp cloud login using your email and a password. [Learn more about logging in](#).

### Steps

1. Open a web browser and go to the [BlueXP console](#).

The NetApp BlueXP login page appears.

2. Log in to BlueXP.
3. From the BlueXP left navigation, select **Health > Operational resiliency**.

## Frequently asked questions for BlueXP operational resiliency

This FAQ can help if you're just looking for a quick answer to a question.

### Access to BlueXP operational resiliency

#### What's the BlueXP operational resiliency URL?

For the URL, in a browser, enter: <https://console.bluexp.netapp.com/>

### Licensing

#### Do you need a license to use BlueXP operational resiliency?

A NetApp License File (NLF) is not required.

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