

# Restore a Backup - AWS Backup

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## Overview

General guidance of how to restore a backup from AWS Backup.

## Content

After a resource has been backed up at least once, it is considered protected and is available to be restored using AWS Backup. Follow these steps to restore a resource using the AWS Backup console.

For information about restore parameters for specific services, or restoring a backup using the AWS CLI or the AWS Backup API, see [Restoring a Backup](#).

### To restore a resource

1. Open the AWS Backup console at <https://console.aws.amazon.com/backup>
  - In the navigation pane, choose **Protected resources** and the resource ID you want to restore.
  - A list of your recovery points, including the resource type, is displayed by **Resource ID**. Choose a resource to open the **Resource details** page.
  - To restore a resource, in the **Backups** pane, choose the radio button next to the recovery point ID of the resource. In the upper-right corner of the pane, choose **Restore**.
  - Specify the restore parameters. The restore parameters shown are specific to the resource type that is selected.

Note:

*If you only keep one backup, you can only restore to the state of the file system at the time you took that backup. You can't restore to prior incremental backups.*

## Amazon Elastic Block Store (Amazon EBS)

For example, if you are restoring an Amazon EBS snapshot, you can choose to restore the snapshot as an EBS volume or as an AWS Storage Gateway volume. This is because AWS Backup integrates with both services, and any Amazon EBS snapshot can be restored to either an EBS volume or an AWS Storage Gateway volume.

For more information about restoring with Amazon EBS, see [Replacing an Amazon EBS volume using a previous snapshot](#) in the *Amazon EC2 User Guide for Linux Instances*.

## Amazon Elastic File System (Amazon EFS)

If you are restoring an Amazon EFS instance, you can perform a **Full restore**, which restores the entire file system. Or, you can restore specific files and directories using an **Item-level restore**.

For more information, including restoring an Amazon EFS recovery point to a different directory in case of a disaster recovery situation, see the *Restore a Recovery Point* section in [Using AWS Backup with Amazon EFS](#).

### Full restore

To perform a full restore, follow the instructions at [Using AWS Backup with Amazon EFS](#) in the *Amazon EFS User Guide*.

### Item-level restore

To restore a specific file or directory, you must specify the relative path related to the mount point.

For example, if the file system is mounted to `/user/home/myname/efs` and the file path is `user/home/myname/efs/file1`, enter `/file1`.

Paths are case sensitive and cannot contain special characters, wildcards, and regex strings.

For more information, see the *Restore a Recovery Point* section in [Using AWS Backup with Amazon EFS](#).

## AWS Storage Gateway

To restore a Storage Gateway volume using AWS Backup, see [Backing Up Your Volumes](#) in the *AWS Storage Gateway User Guide*.

## Amazon RDS and Amazon Aurora

To restore an Amazon RDS database using AWS Backup, see [Backing Up and Restoring an Amazon RDS DB Instance](#) in the *Amazon RDS User Guide*.

To restore an Aurora cluster using AWS Backup, see [Overview of Backing Up and Restoring an Aurora DB Cluster](#) in the *Amazon Aurora User Guide*.

## DynamoDB

To restore a DynamoDB table, see [Restoring a DynamoDB Table from a Backup](#) in the *Amazon DynamoDB Developer Guide*.

## Amazon Elastic Compute Cloud (Amazon EC2)

To restore an Amazon EC2 instance, see [Replacing an Amazon EBS volume using a previous snapshot](#) in the *Amazon EC2 User Guide for Windows Instances*.

- For **Restore role**, choose **Default role**.

1. Note

If the AWS Backup default role is not present in your account, a role is created for you with the correct permissions.

2. Choose **Restore backup**.

The **Restore jobs** pane appears. A message at the top of the page provides information about the restore job.

**Note:**

*When you perform a restore to restore specific items within an Amazon EFS instance, you can restore those items to either a new or an existing file system. If you restore the items to an existing file system, AWS Backup creates a new Amazon EFS directory off of the root directory to contain the items. The full hierarchy of the specified items is preserved in the recovery directory. For example, if directory A contains subdirectories B, C, and D, AWS Backup retains the hierarchical structure when A, B, C, and D are recovered.*

*Regardless of whether you perform an Amazon EFS partial restore to an existing file system or to new file system, each restore attempt creates a new recovery directory off of the root directory to contain the restored files. If you attempt multiple restores for the same path, several directories containing the restored items might exist.*

### To restore an EFS instance

If you are restoring an Amazon EFS instance, you can perform a **Full restore**, which restores the entire file system. Or, you can restore specific files and directories using **Item-level restore**. For information about restoring a specific resource, see [Restoring a Backup Using the Console](#).

For detailed information about restore, see [Restoring a Backup](#).

### Relevant materials

[AWS Backup - Restore a backup](#)