



# Amazon S3 Support

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## Information About Amazon S3 Support

In Cisco Catalyst devices, the need for storage capacity is growing due to factors such as larger software images and increased logging rates demanded by customers. Additionally, there is a growing need to distribute software images, provide service maintenance updates (SMUs), and run diverse scripts across numerous devices. The built-in persistent storage available in the devices falls short of meeting these demands. In such situations, a reliable cloud storage solution becomes crucial for enhancing the existing onboard storage by seamlessly incorporating cloud-based storage solutions.

From IOS-XE 17.13.1 release, Amazon S3 or Amazon Simple Storage Service is supported for Cisco Catalyst 9800 Series Wireless Controllers. The Amazon S3 is a service offered by Amazon Web Services (AWS) that provides scalable storage infrastructure through a web service interface. Using Amazon S3, you can seamlessly supplement built-in persistent storage with cloud-based storage.

### Restrictions and Guidelines

- The cloud storage is accessible only to the active device.
- Cloud reachability can be established through any service port, including device management ports, or forwarding interfaces on the device.
- Multiple cloud storage configuration profiles can be created for the same S3 bucket with different configuration parameters.
- Virtual device instances (like C9800-CL) hosted on AWS can use the Identity and Access Management (IAM) role infrastructure to access S3 storage.

## Configuring Amazon S3 Support

### Before you begin

- Ensure that connectivity to the cloud is established.

- Ensure that you have the AWS Identity and Access Management (IAM) access key ID and the secret key ID.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Device# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>cloud-services aws s3 profile <i>profile-name</i></b>  <b>Example:</b> Device(config)# cloud-services aws s3 profile 9800_XT_HD	Configures an Amazon S3 cloud services profile.  Use only alphanumeric characters for the profile name. Underscore ( _ ) is the only special character that is supported.
<b>Step 3</b>	<b>bucket <i>bucket-name</i> mount-point <i>mount-point</i></b>  <b>Example:</b> Device(config-s3fs-profile)# bucket 9800-B1 mount-point s3-mount	Configures the Amazon S3 storage bucket and its mountpoint.  A bucket is a container for objects stored in Amazon S3.  The mountpoint refers to the directory on your local file system where you mount your Amazon S3 bucket.
<b>Step 4</b>	<b>description <i>profile-description</i></b>  <b>Example:</b> Device(config-s3fs-profile)# description 9800-External-Storage	(Optional) Adds a description to the Amazon S3 cloud services profile, which can be up to 255 alphanumeric characters.
<b>Step 5</b>	<b>vrf mgmt-intf</b>  <b>Example:</b> Device(config-s3fs-profile)# vrf mgmt-Intf	(Optional) Configures the management interface as the VRF interface. The default interface is the forwarding interface.
<b>Step 6</b>	<b>access-key key-id <i>iam-id</i> secret-key {0 8}<i>secret-key</i></b>  <b>Example:</b> Device(config-s3fs-profile)# access-key key-id iam-key-id secret-key 0 *****	Configures the AWS S3 access credentials.  Use the same access key ID and the secret key created for the IAM role on the AWS console.
<b>Step 7</b>	<b>permissions read-write</b>  <b>Example:</b> Device(config-s3fs-profile)# permissions read-write	(Optional) Sets the Amazon S3 bucket permission as read and write. By default, read-only permission is enabled.
<b>Step 8</b>	<b>region <i>region</i></b>  <b>Example:</b>	Specifies the Amazon S3 region where the cloud-based storage is used.

	Command or Action	Purpose
	Device(config-s3fs-profile)# region us-west-1	
<b>Step 9</b>	<b>proxy {http-server   https-server} url-ip port port-num</b>  <b>Example:</b> Device(config-s3fs-profile)# proxy https-server 192.0.2.1 port 12	(Optional) Configures HTTP or HTTPS server URL or IPv4 address, along with the port details.
<b>Step 10</b>	<b>no shutdown</b>  <b>Example:</b> Device(config-s3fs-profile)# no shutdown	Saves the configuration and enables it for Amazon S3 services.
<b>Step 11</b>	<b>exit</b>  <b>Example:</b> Device(config-s3fs-profile)# exit	Returns to global configuration mode.

## Verifying Amazon S3 Support

To view a summary of all the Amazon S3 profiles, use the following command.

```
Device# show cloud-services aws s3 summary
```

```
Profile Name           Profile Status  Service Status
-----
test                   Started        Active
test2                  Started        Active
```

To view the operational information of a Amazon S3 profile, use the following command.

```
Device# show cloud-services aws s3 profile s1
```

```
Profile Details
```

```
Profile Name      : s1
Bucket Name      : pb-s3-test1
Mount Point      : test
Bucket Permission : Read-Only
Region           : us-west-1
VRF              : Global
```

```
S3 Service Details
```

```
Service Status    : Active
Service PID       : 31934
Mount Time        : 09/28/23 17:06:25
Service Log Level : Notice
```

