

AXIS Camera Station Pro
Enable Wasabi Surveillance Cloud



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Overview

Wasabi Surveillance Cloud (Wasabi Surveillance Cloud) helps make video management systems, such as AXIS Camera Station Pro, cloud ready. It allows you to keep your existing recording server and day to day operating process, while also protecting or extending recorded video in Wasabi cloud storage. Wasabi Surveillance Cloud provides centralised configuration for managed recording servers and clear visibility of replication status and where footage is stored, locally or in the cloud. This supports longer retention, stronger resilience, and faster recovery without changing how operators use the VMS.

Wasabi capabilities and solution options

Wasabi Surveillance Cloud is designed to be simple to deploy and easy to run. It installs quickly, operates in the background, and can extend local storage to Wasabi buckets without adding extra complexity for users. It also supports immutability options to help protect footage from deletion or tampering. Wasabi Surveillance Cloud includes real time visibility of replication and data location so teams can confirm that retention and recovery objectives are being met.

Configuration options

Disaster recovery (Mirror copy)

This option creates a full copy of on premises video in the Wasabi cloud. Local retention remains the same, while the cloud copy provides redundancy and supports recovery if the recorder or local storage is lost.

Storage extension (tiering)

This option extends retention by keeping the newest footage locally and moving older footage to the cloud. After the configured number of days, older data can be removed from local disk to free capacity, while remaining available in Wasabi if needed.

Disaster recovery plus storage extension

This option combines both approaches. Footage is replicated to the cloud as it is recorded, and local storage can be kept to a shorter window, for example 7 days, while still meeting a longer overall retention target, for example 90 days.

Prerequisites.

Make sure you have:

1. A Windows server or PC that runs AXIS Camera Station Pro and is already recording.
2. A Wasabi Surveillance Cloud (Wasabi Surveillance Cloud) account and a Wasabi bucket created.
3. Your Access key and Secret key from Wasabi.
4. Administrator rights on the Windows machine to install software.

System requirements for the Wasabi Surveillance Cloud computer

A PC with a 64 bit (x64) processor.

- A supported 64 bit Windows version (Wasabi lists Windows 7 to Windows 11 and Windows Server 2008 R2 to Server 2022).
- At least 4 GB RAM.
- At least 100 MB free disk space for installation. Wasabi Surveillance Cloud also stores a local database that grows with the number of files it manages.
- Microsoft .NET Framework 4.8 installed.

Storage and permissions

- The recording server must be able to read, write, and delete objects in the target storage.
- Plan for at least 3 to 4 days of local retention as a buffer if your internet is slow or stops.
- For long retention, remember Wasabi Surveillance Cloud needs space for its database. Wasabi gives an example that 1 million files uses about 100 MB for the database.

Network and firewall

Your firewall must allow Wasabi Surveillance Cloud traffic. Wasabi lists the following:

- TCP 80 outbound only (HTTP to object storage).
- TCP 443 outbound only (activation and HTTPS to object storage).
- TCP 445 outbound only if you use an SMB network share target.
- TCP 443, 8536, 8537 open inbound and outbound (used for S3, licensing, and the configuration service).
- The wasabisys.com domain must be reachable through your network firewall.

Internet upload speed planning

Wasabi suggests a quick estimate:

- If you know the total camera bitrate, multiply it by **1.5**.
- If you know how many GB per day you generate, multiply **GB per day by 0.15** to estimate Mbps.

If you tell me how many cameras you have and either the total bitrate or GB per day, I can write one simple line for your document with the recommended upload speed.

Download and install wasabi surveillance Cloud.

You must create a 30-day free trial account to sign up for Wasabi Surveillance Cloud, as described below. Once you have created an account, continue to download and install the Wasabi Surveillance Cloud software.

Do this on the same Windows machine that holds the AXIS recordings.

1. Create a [Wasabi Surveillance account](#).
2. Follow the steps in [Signing Up](#) to create a trial Wasabi account. Once complete, return to this page.

Once you have created your Wasabi Surveillance Cloud storage account, you will set up your Wasabi Surveillance Cloud instance in three steps. Begin by downloading and installing the Wasabi Surveillance Cloud software. Be sure to download and install the software on the local Windows machine that hosts your recording server.

3. Download the Wasabi Surveillance Cloud installer.
4. Find the installer in your Downloads folder.
5. Right click the installer and choose Run as administrator.
6. Click Next.
7. Accept the licence agreement, then click Next.
8. When asked about VMS type, choose AXIS Camera Station
9. Keep the default components selected unless your company has a reason to change them.
10. Click Install.
11. Click Finish.

Activate Wasabi Surveillance Cloud.

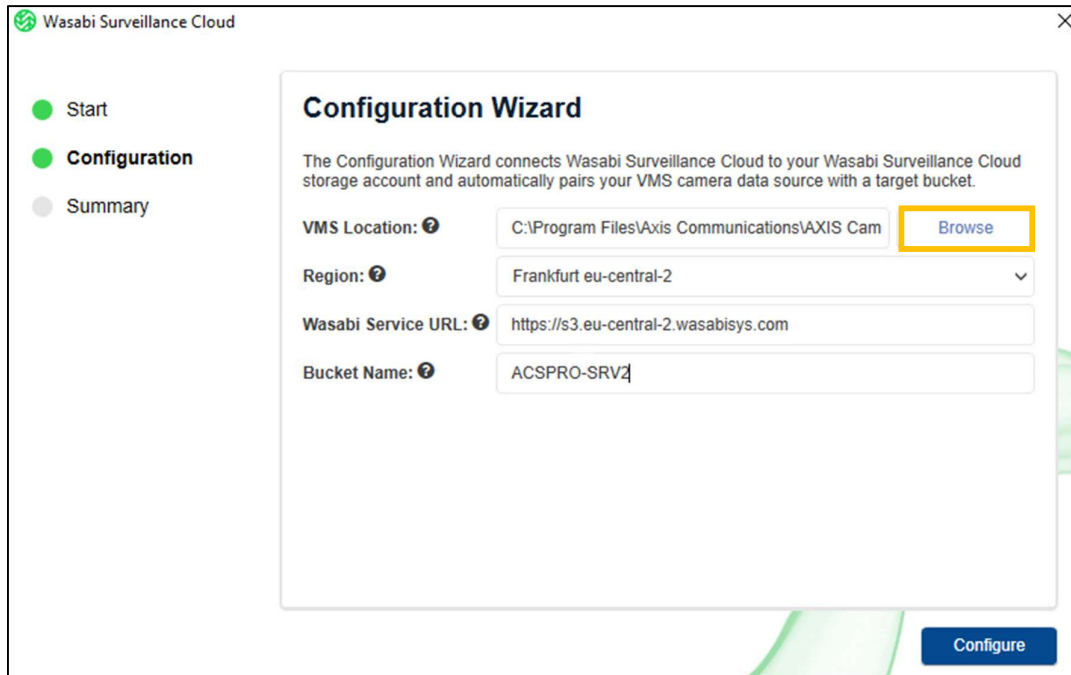
Activate the Wasabi Surveillance Cloud software for use with AXIS Camera Station Pro to establish the connection between your source and target.

1. Open **Wasabi Surveillance Cloud**.
2. Enter your **email address** and **password** for the Wasabi Surveillance Cloud account.
 - I. Optionally, if you have previously installed Wasabi Surveillance Cloud on a different server, click **Skip to manual configuration** to manually enter the S3 API keys.
3. Click **Submit**.
4. Wait for the configuration screen or wizard to open.

Wasabi Surveillance Cloud wizard

Follow the steps below to configure Wasabi Surveillance Cloud for use with AXIS Camera Station Pro.

1. In the Wasabi Surveillance Cloud Configuration Wizard, select Configuration.
2. In the VMS Location field, browse to your AXIS Camera Station Pro recordings directory (the source that is replicated to Wasabi) on your local machine, and click OK.



Wasabi Surveillance Cloud

Start
Configuration
Summary

Configuration Wizard

The Configuration Wizard connects Wasabi Surveillance Cloud to your Wasabi Surveillance Cloud storage account and automatically pairs your VMS camera data source with a target bucket.

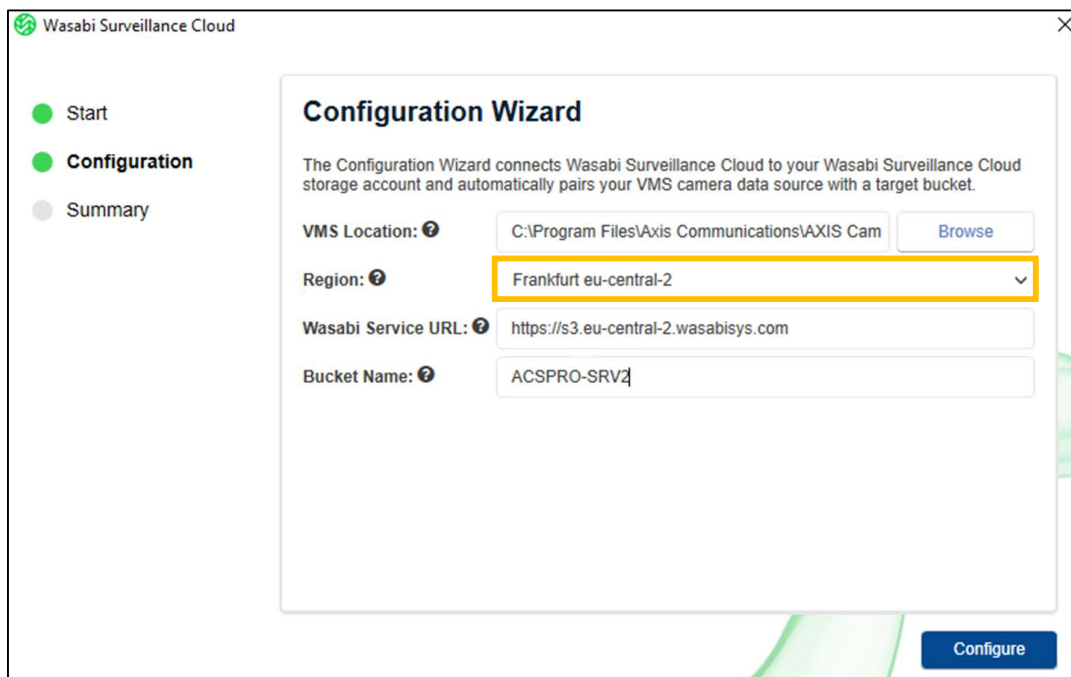
VMS Location:

Region:

Wasabi Service URL:

Bucket Name:

3. In the Region field, select the region where the server is located. The Wasabi Service URL field will automatically populate based on the selected region.



Wasabi Surveillance Cloud

Start
Configuration
Summary

Configuration Wizard

The Configuration Wizard connects Wasabi Surveillance Cloud to your Wasabi Surveillance Cloud storage account and automatically pairs your VMS camera data source with a target bucket.

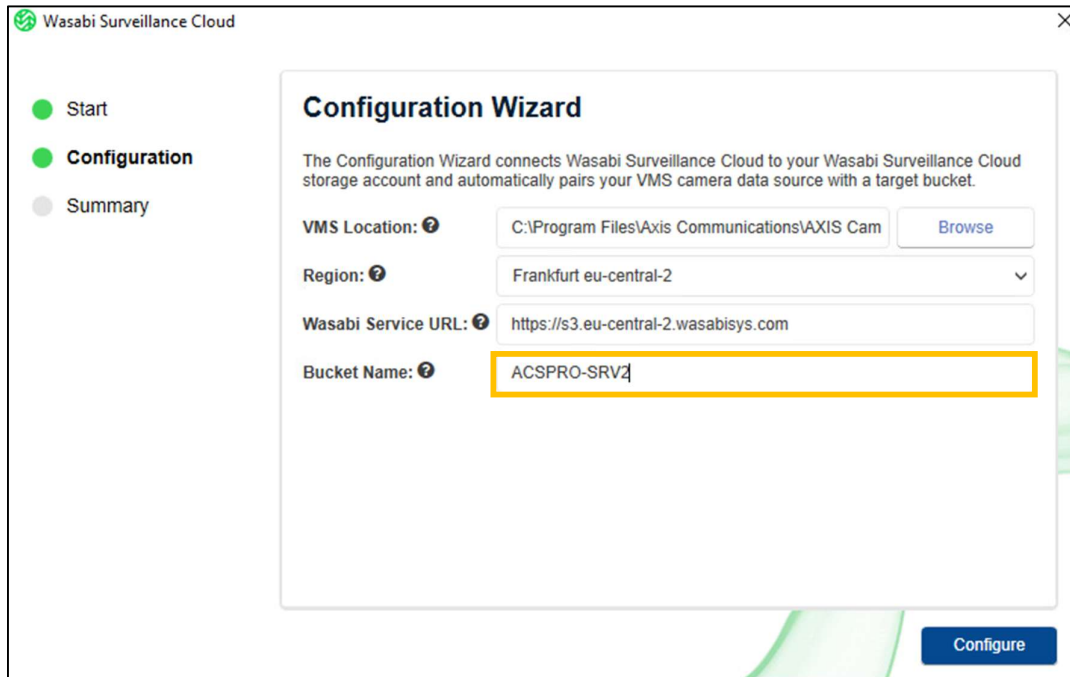
VMS Location:

Region:

Wasabi Service URL:

Bucket Name:

The Bucket Name field will automatically populate with a default bucket name, which you can change. If you provide a different bucket name, select a unique name according to the bucket naming conventions defined in [Bucket Naming Rules](#).

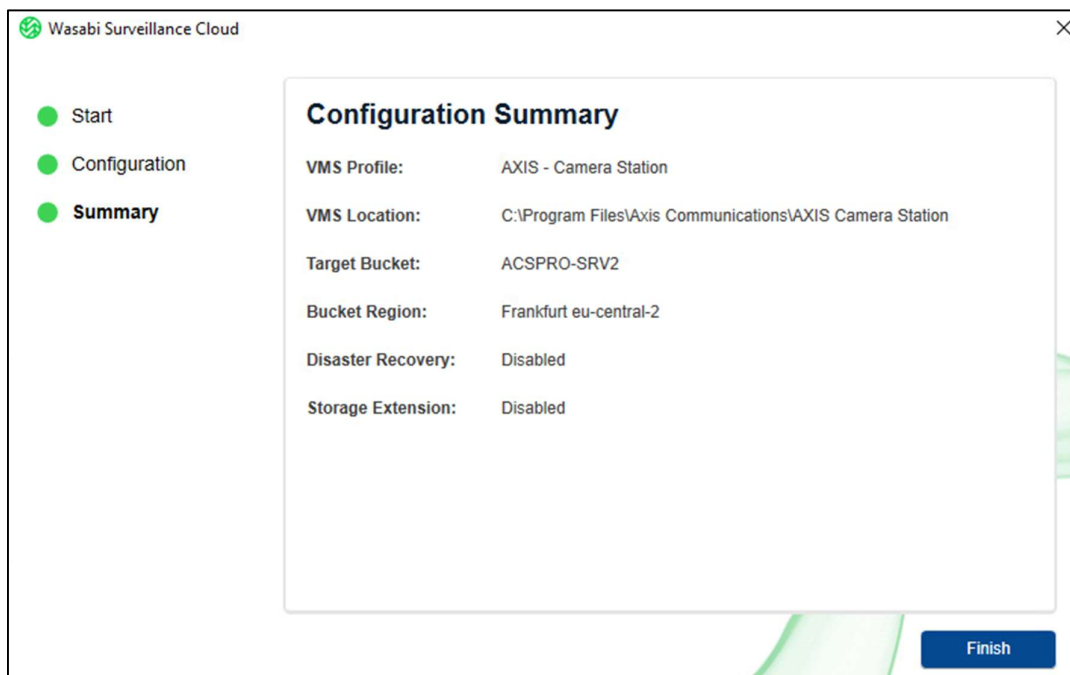


The screenshot shows the 'Configuration Wizard' window in the Wasabi Surveillance Cloud application. The window has a sidebar on the left with three steps: 'Start', 'Configuration', and 'Summary'. The 'Configuration' step is currently active. The main content area contains the following fields:

- VMS Location:** C:\Program Files\Axis Communications\AXIS Cam (with a 'Browse' button)
- Region:** Frankfurt eu-central-2 (dropdown menu)
- Wasabi Service URL:** https://s3.eu-central-2.wasabisys.com
- Bucket Name:** ACSPRO-SRV2 (highlighted with a yellow border)

A 'Configure' button is located at the bottom right of the wizard.

4. Click Configure.
5. Review the Configuration Summary. Click Finish.

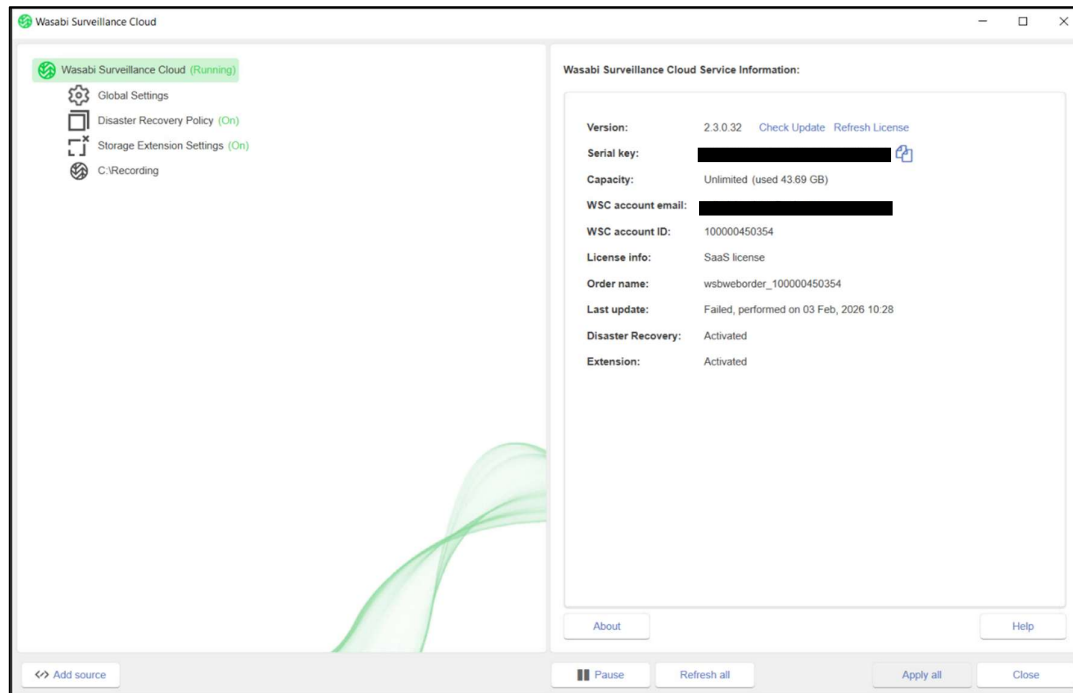


The screenshot shows the 'Configuration Summary' window in the Wasabi Surveillance Cloud application. The sidebar on the left now shows 'Summary' as the active step. The main content area displays the following configuration details:

VMS Profile:	AXIS - Camera Station
VMS Location:	C:\Program Files\Axis Communications\AXIS Camera Station
Target Bucket:	ACSPRO-SRV2
Bucket Region:	Frankfurt eu-central-2
Disaster Recovery:	Disabled
Storage Extension:	Disabled

A 'Finish' button is located at the bottom right of the summary window.

Wasabi Surveillance Cloud is now running and replicating data from the configured source to your target Wasabi bucket.



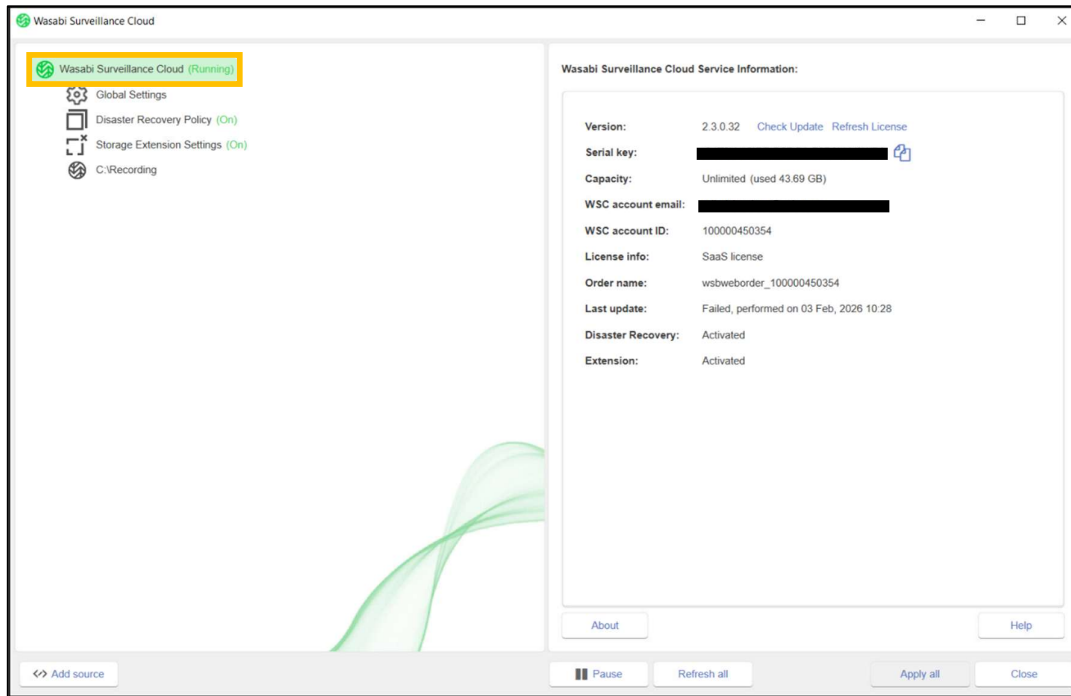
When you configured the Wasabi Surveillance Cloud software, you established an initial source-target pair when pairing your source (VMS) with a target (Wasabi bucket storage). However, you can establish additional source-target pairs, as needed.

Before pairing a source with a target, it is best practice to create a bucket in your Wasabi Surveillance Cloud storage account for each source that you intend to pair with your target. You can create a new bucket directly from the Wasabi Surveillance Cloud software, as described below.

If you have a recording server with only a Recording volume (no Archive volume), the same bucket is used for storing a single copy of all data as well as for Disaster Recovery (DR) and Extension. DR contains all camera data as well as XML and index files necessary to recreate the VMS database. Extension only requires a subset (camera data). If you have more than one volume configured on your recording server, each volume requires its own bucket.

Adding an additional Source

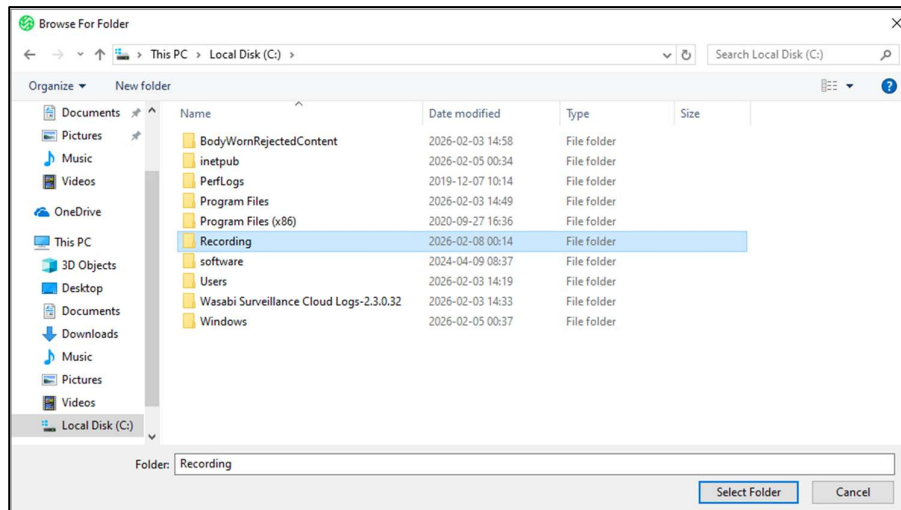
1. Click **Wasabi Surveillance Cloud**.



2. Click **Add source**.
3. Navigate to the location of the folder from which Wasabi will replicate data. This should be the folder that contains the video recordings.

If the parent folder of the selected folder is already paired with a target, the selected folder cannot be used as a new source.

4. Optionally, create a new folder.
5. Click **Select Folder**.



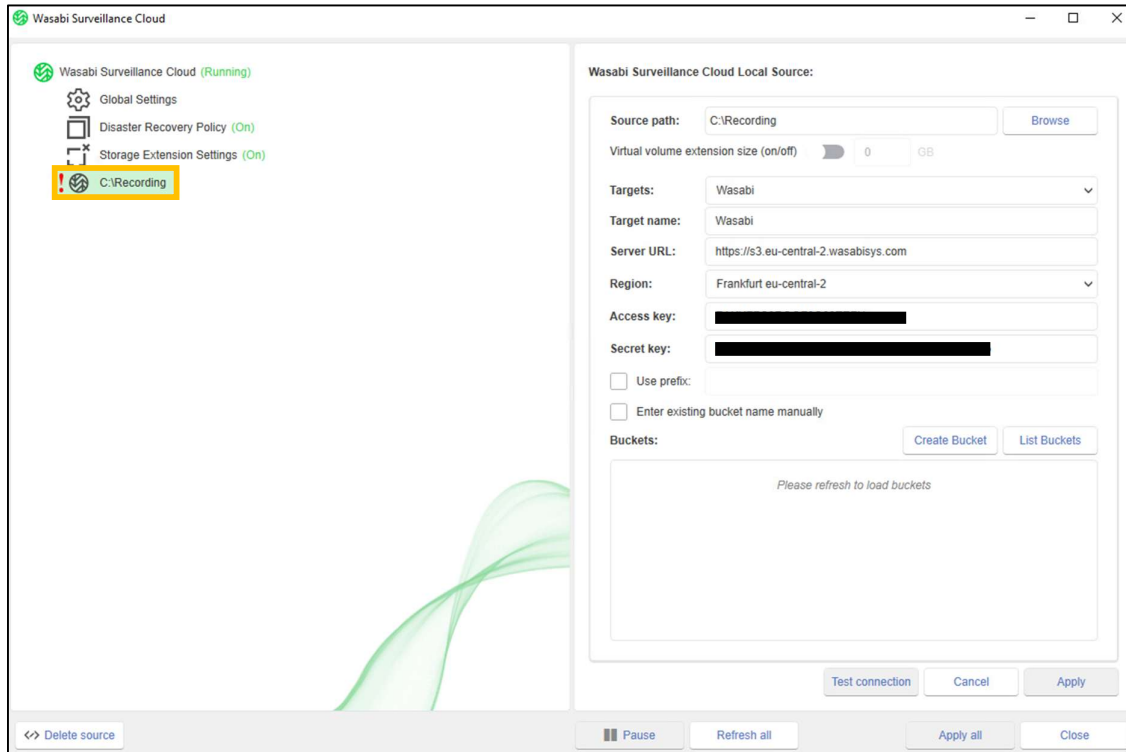
6. Continue to [Pairing a Target](#), below.

Pairing a Target

Once you have added a new VMS source, continue to pair a Wasabi bucket with the source, as described below.

While adding a source and target pair, all replication jobs and operations will be paused.

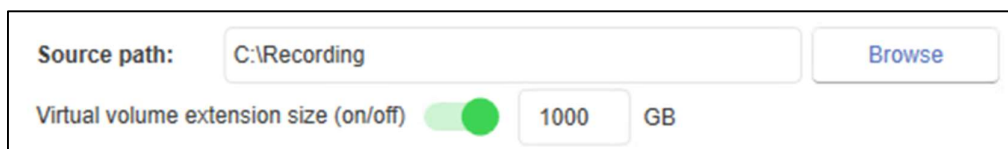
1. Select the newly added source.



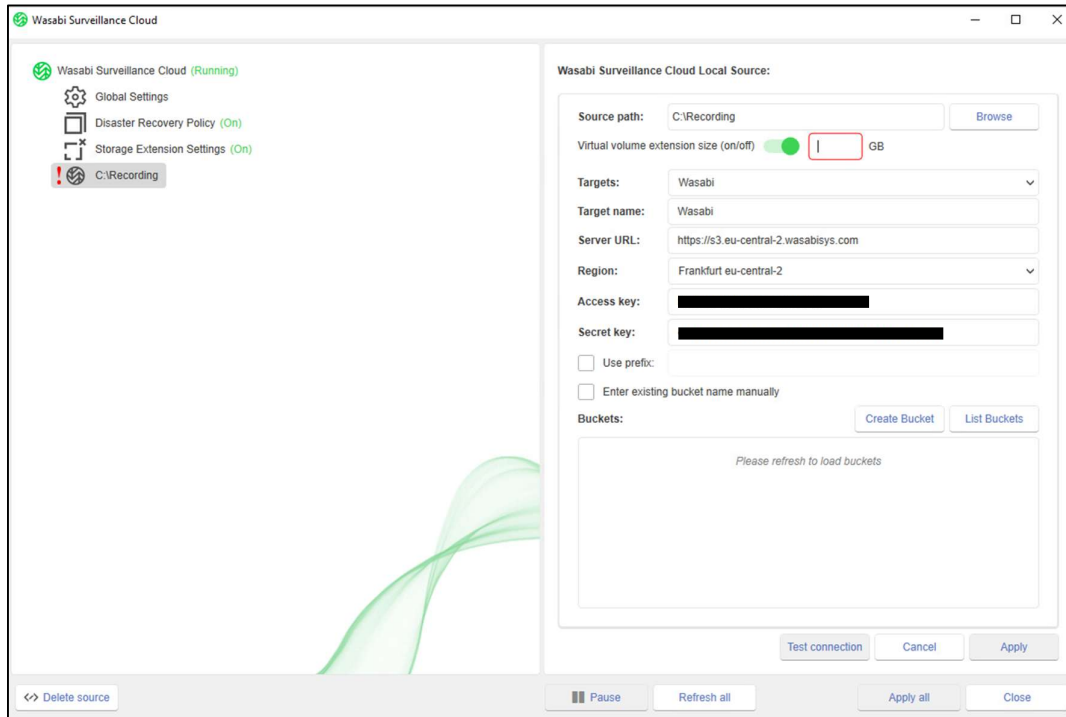
2. On the right pane, the Source path will be auto-populated according to the location of your source. To modify the source location, click **Browse**.

Virtual volume extension size enables the cloud to act as a virtual extension of your local storage (source volume) and preserves recordings even if local disk capacity is exceeded. This setting is required when you are using Wasabi Surveillance Cloud to extend the local storage using the **Storage Extension feature**. For example, if your local storage has a capacity of 100 GB but you intend to store 1 TB of recordings, you must enable Storage Extension so that Wasabi Surveillance Cloud will keep 100 GB of the newest data locally and the remaining 900 GB of older data in Wasabi.

AXIS Camera Station will issue deletions of the older data when it detects that the size of the recordings is getting close to the size of the local drive (even though the majority of the data is only stored in Wasabi). To protect the recordings from incorrect deletion by the VMS, you can "virtually expand" the local drive to a size that matches your total retention size (local and cloud). In the example below, set this to 1000 GB. Once you set this and complete the remaining configuration steps, the local drive will reflect this new size in Windows Explorer.



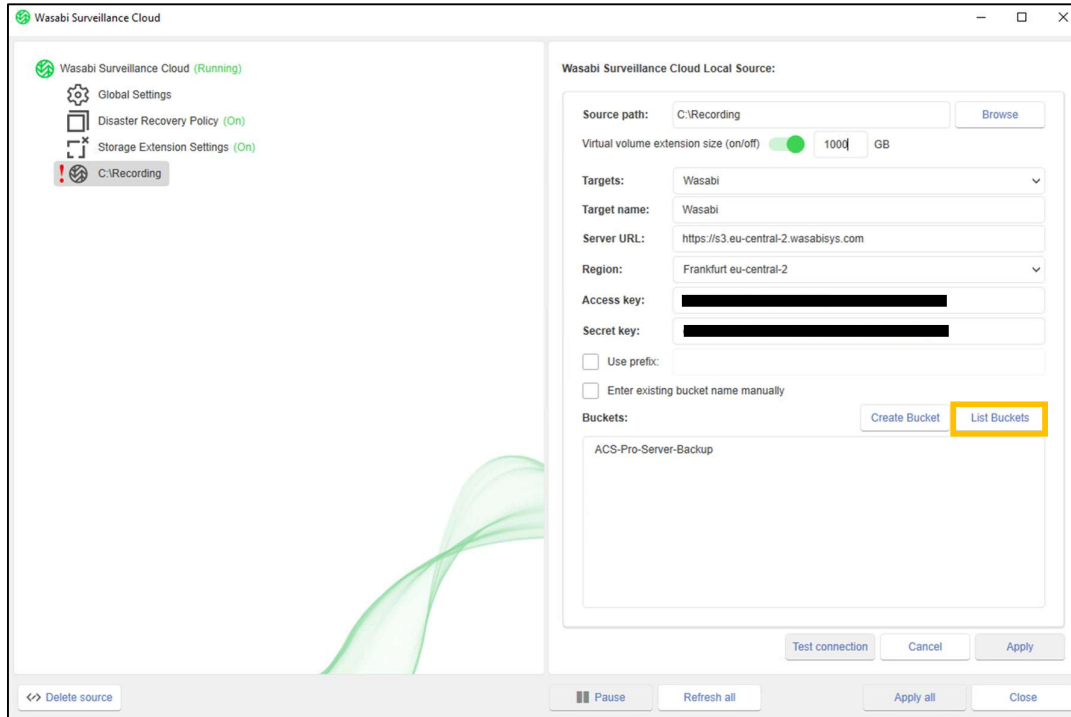
3. Click the toggle to enable virtual storage extension:
4. Enter a size.



5. Click the **Targets** drop-down to select a target.
6. Enter a name for the target.

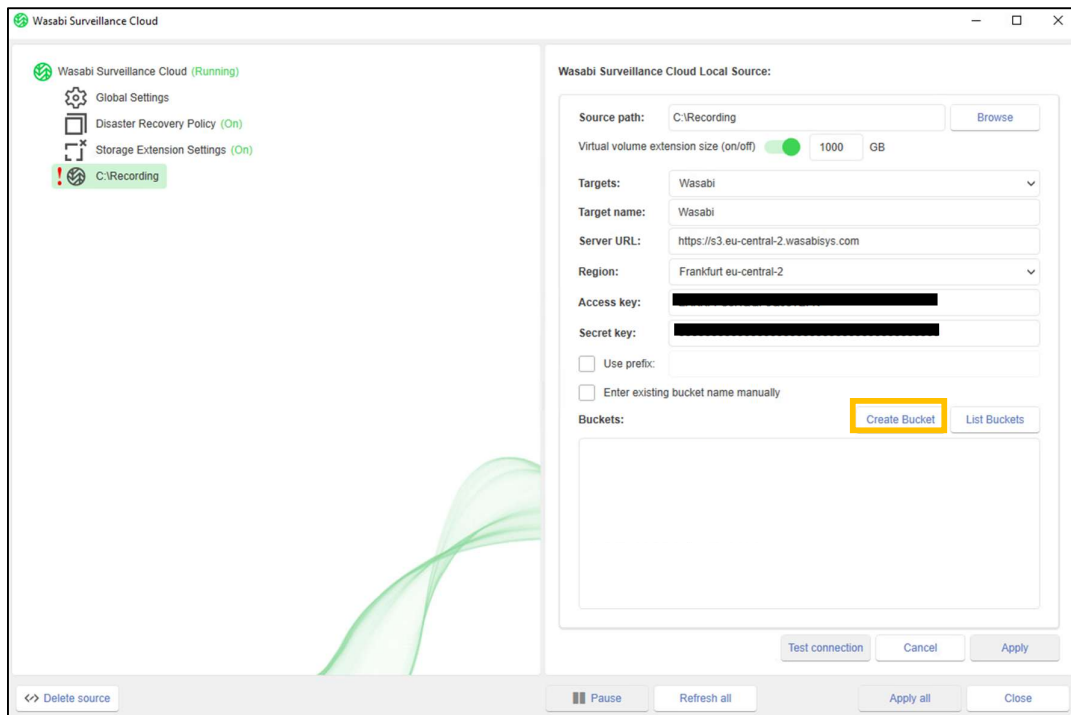
Be sure to use a unique target name. A unique target name enables you to reuse the parameters if you pair another source with the same target. When you reuse the target name, the name (and its parameters) will appear as an option to select in the Targets drop-down list.

7. Keep the default for the Server URL. The Server URL field will auto-populate once you select a region.
8. Select the appropriate region in which to store your data.
9. Enter the following API keys for your Wasabi Surveillance Cloud storage account bucket.
 - Access key
 - Secret key
10. To pair a target bucket, you can either select an existing bucket or create a new bucket. To select an existing bucket, click **List Buckets**.
11. Wasabi Surveillance Cloud will display all buckets that are available in your account. Select the bucket from the auto-populated list of your buckets.



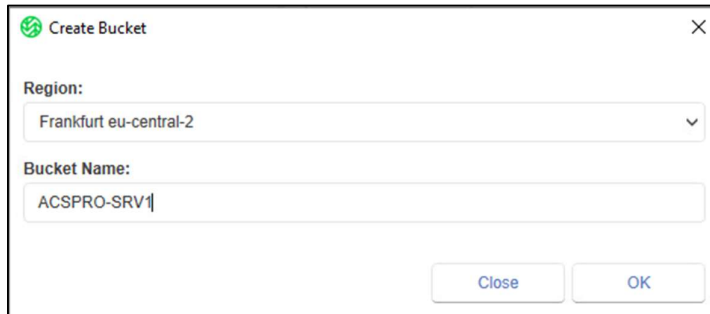
12. Optionally, check the box to **Enter a bucket name manually**.
13. Enter the bucket name.
14. Optionally, to create a new bucket, click **Create Bucket**.

If you create a new bucket, be sure to follow the bucket naming conventions defined in [Bucket Naming Rules](#).



Choose a different bucket for each repository for each recording server.

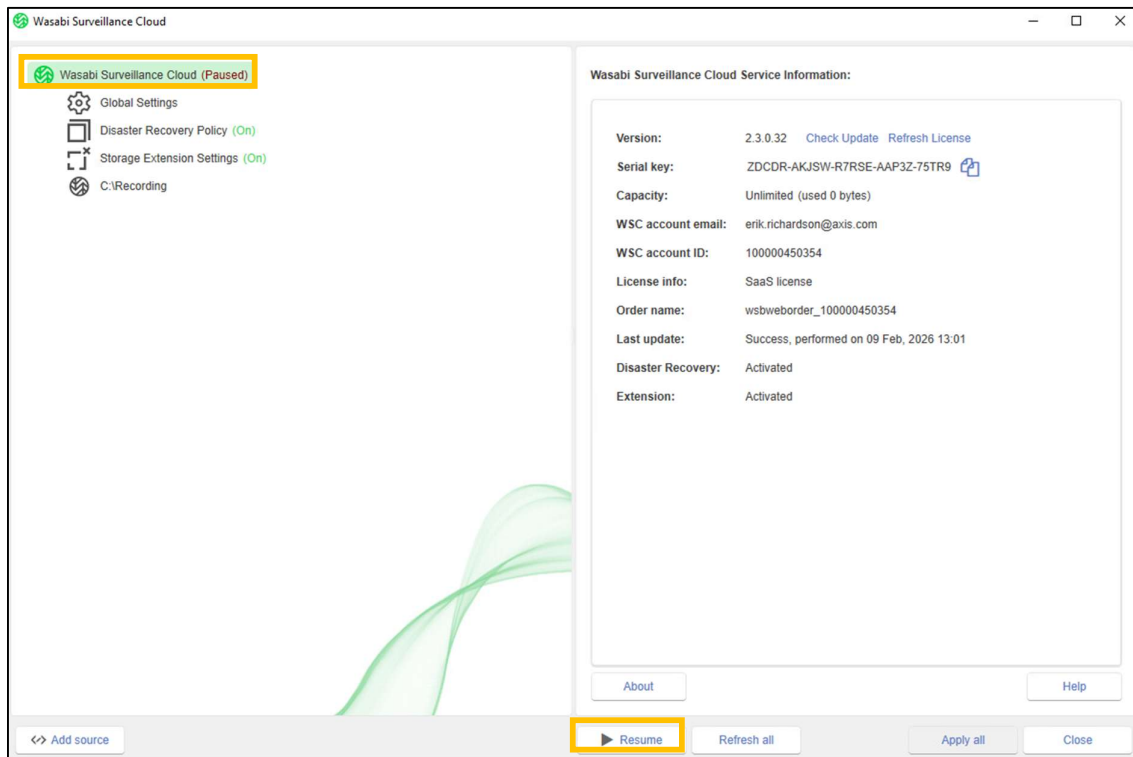
15. Select a region from the drop-down.



- 16. Enter a bucket name.
- 17. Click **OK**.
- 18. Click **Apply**.

Notice that Wasabi Surveillance Cloud is in a Paused state. When pairing a target, Wasabi Surveillance Cloud operations are paused.

19. To resume operations, click **Wasabi Surveillance Cloud**.



20. Click **Resume**.

Wasabi Surveillance Cloud is now successfully configured and camera data from your source folder will automatically begin replicating to the cloud.

AXIS Camera Station Pro database backup folder

AXIS Camera Station Pro automatically creates system database backups every night and before upgrades. These backups are valuable because they capture the configuration and database content needed for the system to function (for example, devices, users/roles, settings, and system metadata). If the recording server or system disk is lost, having these backup files stored off-site makes it much faster to rebuild the server and restore the system to a known working state.

The backup location is configured in AXIS Camera Station Pro Service Control → Modify settings → Database. If the configured path is wrong or unreachable, AXIS Camera Station Pro uses the default folder:

C:\ProgramData\Axis Communications\AXIS Camera Station Server\backup

You can also configure how long backups are kept (1–30 days, default 14). For full details, see the AXIS Camera Station Pro online [user manual](#).

To protect these database backups with Wasabi, add the database backup folder as an additional Source in Wasabi Surveillance Cloud and pair it to a separate bucket (recommended) or a dedicated prefix/target just like you do for recordings. This ensures the nightly System and Pre Upgrade backup files are replicated automatically to Wasabi, providing an off-site copy.

What's included: the backup .zip typically contains the core database backup and related metadata, and may also include component database backups (for example Secure Entry and Smart Search if used).

If you want to back up your AXIS Camera Station Pro database backups to Wasabi, follow the steps in *Adding an additional Source* and select the database backup folder as the Source.