

Actiphy ImageReplicator Setup Guide

3rd Edition September, 2026



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1. Overview

Actiphy ImageReplicator, a standalone software add-on, automatically replicates ActiImage Protector backup images to different storages at remote site. Replication of backup data to remote storages can protect critical backup data, enhancing backup data protection and availability. This set-up guide will show you how to install and configure Actiphy ImageReplicator.

1. Please visit our online help for more detailed information at:

https://webhelp.actiphy.com/AIR/v1/en_US/help/

2. Please ensure your computer meets these minimum system requirements before using Actiphy ImageReplicator.

For the latest system requirements, please visit Actiphy's Web site at:

<https://www.actiphy.com/global/product/actiphy-imagereplicator/#system-requirements>

2. Installation

The following steps will show you how to install Actiphy ImageReplicator on the computer :

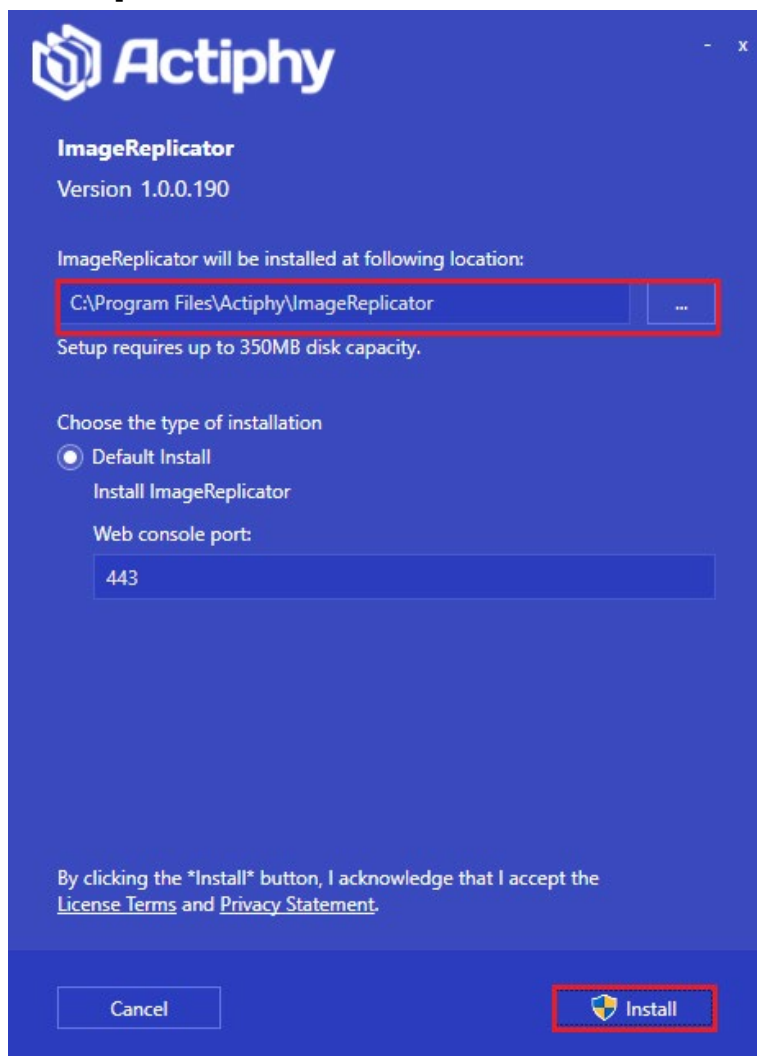
1. Double-click on the setup program (ImageReplicator_v100_bxxx.exe) for Actiphy ImageReplicator to launch the installer.

*The setup program is downloadable from Actiphy's Web site at:

<https://www.actiphy.com/global/download/update/>

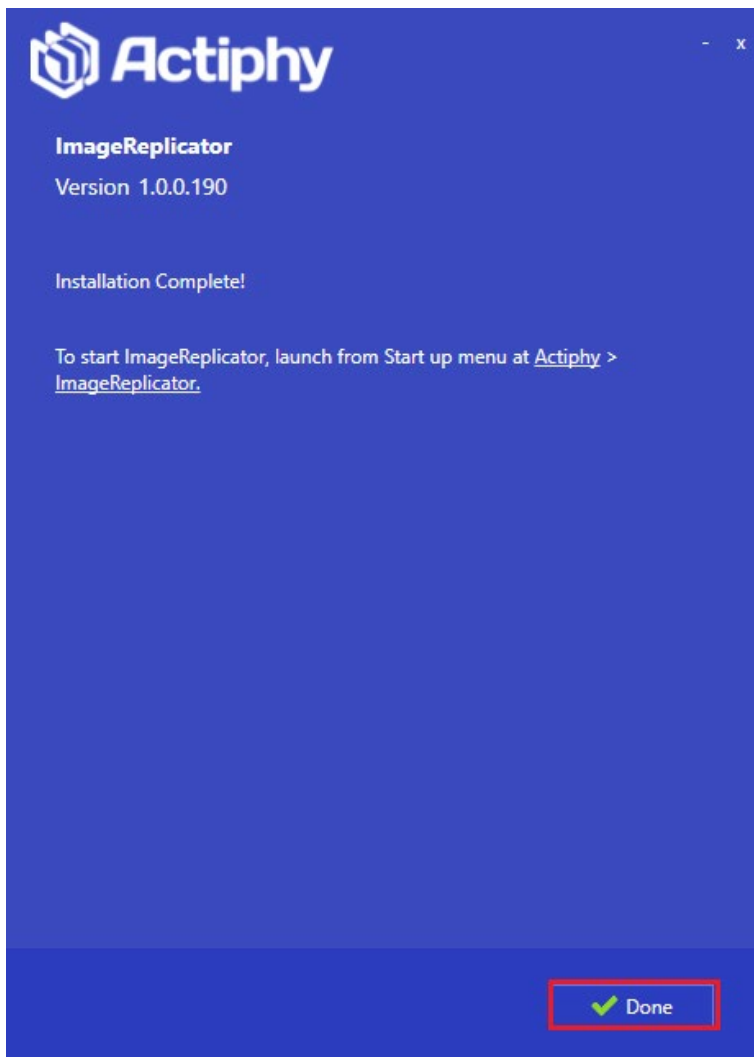
2. Once you have the Actiphy ImageReplicator install screen running, click **[Install]** button to start the installation process.

Or, you can specify any installation path at **[Actiphy ImageReplicator will be installed at the following location:]**.



Installation

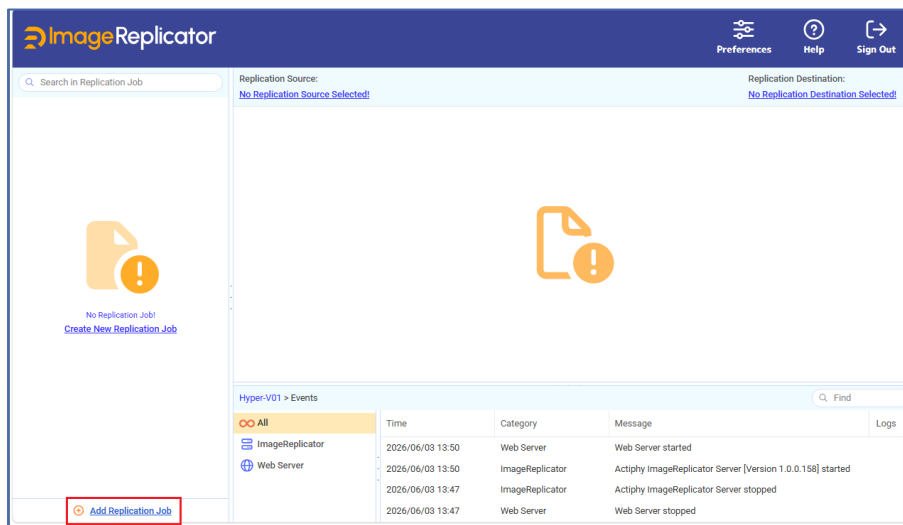
3. Click on the **[Done]** button when the installer has finished. You do not need to reboot your system after installation.



3. Create Replication Task

Please use the following steps to configure regularly scheduled Replication tasks.

1. Launch Web console for Actiphy ImageReplicator.
Start ImageReplicator by clicking on the Windows Start menu and selecting **[Actiphy] → [ImageReplicator]**.
Or, click on ImageReplicator icon on your desktop.
2. The following provides the operating procedures how to create Replication task.
Click **[Add Replication Job]** at the bottom of the left pane.

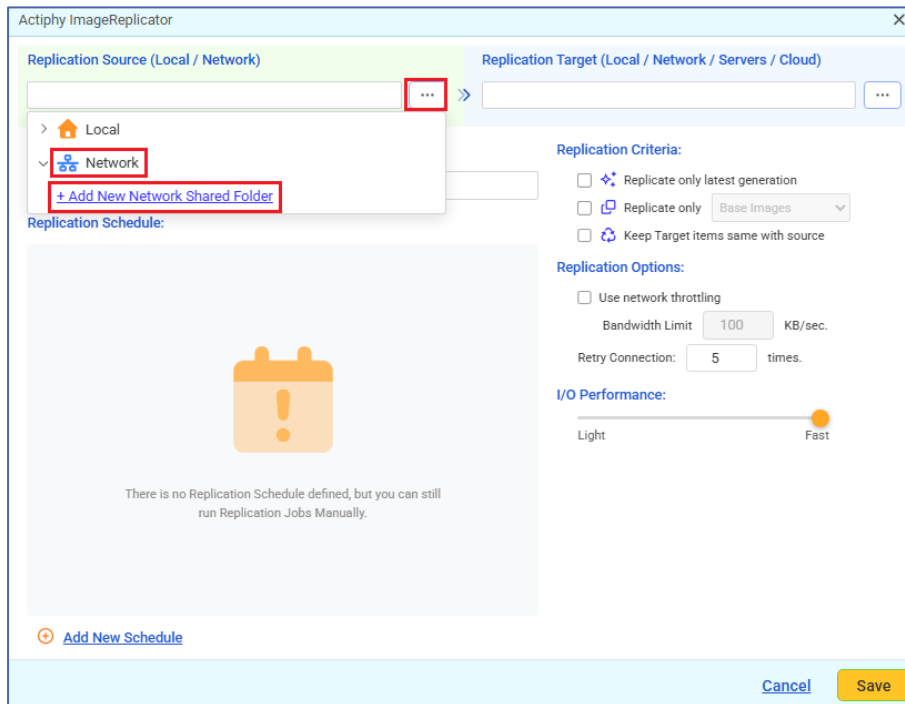


Create Replication Task

3. Please select the replication source folder.

Click [...] for **[Replication Source (Local / Network)]** in the upper-left of the console, select **[Local]** or **[Network]** for the source folder.

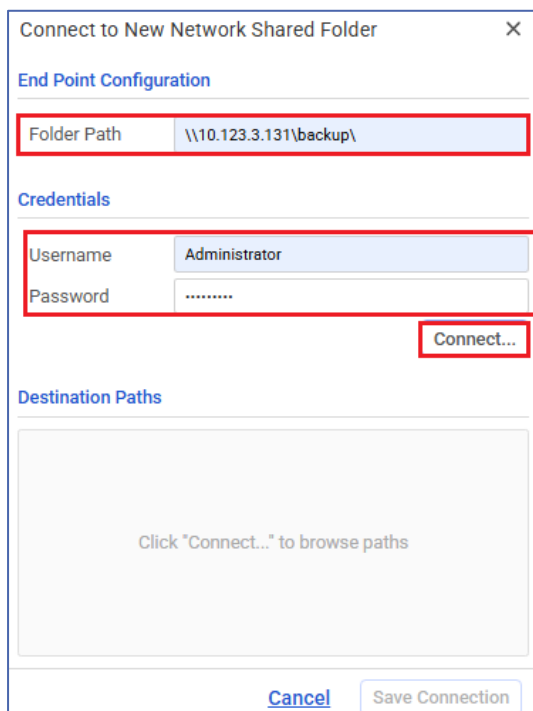
Select **[Network]** in this example and click **[Add New Network Shared Folder]**.



4. Select a destination folder for the backup images.

The following example shows that a network shared folder “¥10.123.3.131¥backup” is specified as the destination folder.

Enter “¥10.123.3.131¥backup” for the **[Folder Path]**, “Administrator” for **[User Name]** and **[Password]** you configured. Click **[Connect...]**.



Create Replication Task

5. Select the backup destination folder where backup files are located.

When accessing shared folder, the backup destination folders for the respective backup tasks are displayed in tree in **[Destination Paths]**. Select the backup destination folder for the replication source computer and click **[Save Connection]**.

The dialog box titled "Connect to New Network Shared Folder" contains the following sections:

- End Point Configuration:** Folder Path is set to "\\10.123.3.131\backup\".
- Credentials:** Username is "Administrator" and Password is masked with dots. A "Connect..." button is present.
- Destination Paths:** A tree view showing folders. The folder "\\10.123.3.131\backup\33b0b89c-7e09-4991-ae9d-48676dacffb_DE..." is selected and highlighted with a red box.
- At the bottom, there are "Cancel" and "Save Connection" buttons, with the latter highlighted by a red box.

6. The selected backup destination folder is added in **[Replication Source (Local/Network)]**.

The ActiPhy ImageReplicator window shows the configuration for a replication task:

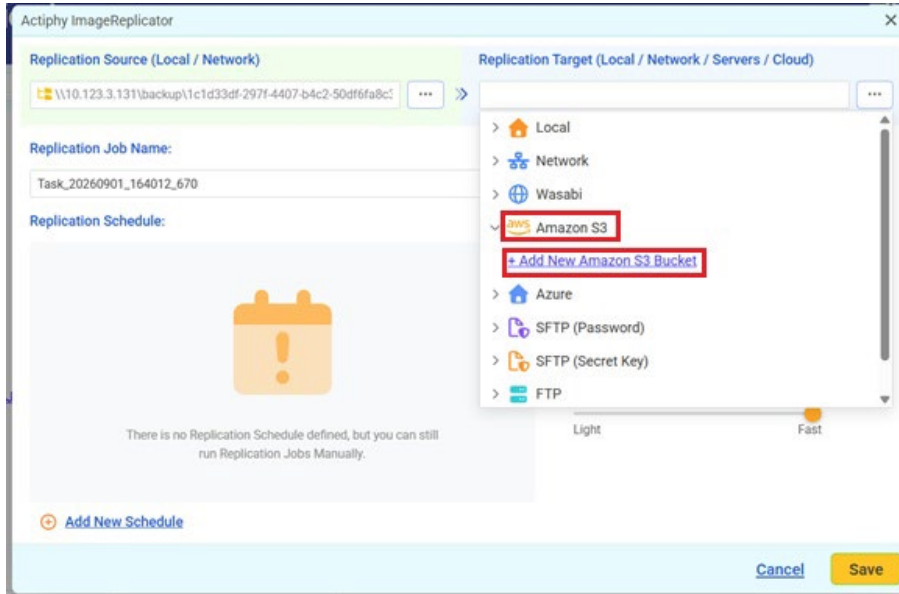
- Replication Source (Local / Network):** A tree view on the left shows the selected path "\\10.123.3.131\backup\33b0b89c-7e09-4991-ae9d-48676dac" highlighted with a red box. Below it is a link to "+ Add New Network Shared Folder".
- Replication Target (Local / Network / Servers / Cloud):** An empty text field with a dropdown arrow.
- Replication Criteria:** Includes checkboxes for "Replicate only latest generation", "Replicate only" (set to "Base Images"), and "Keep Target items same with source".
- Replication Options:** Includes "Use network throttling" (unchecked), "Bandwidth Limit" (100 KB/sec), and "Retry Connection" (5 times).
- I/O Performance:** A slider set to "Fast".
- A central message box states: "There is no Replication Schedule defined, but you can still run Replication Jobs Manually." with an "Add New Schedule" link below it.
- At the bottom right, there are "Cancel" and "Save" buttons.

Create Replication Task

7. Select Replication target.

Click [...] and select a replication target from **[Replication Target (Local / Network / Server / Cloud)]** at the upper-right corner of the console. You can select a replication target from local storage, shared folder or cloud storage.

In this example, we have selected cloud storage **[Amazon S3]** and **[Add New Amazon S3 Bucket]**.



Create Replication Task

8. This example shows that “Amazon S3” is selected.

Enter the **[Access Key]**, **[Secret Key]** and select **[Region]**. Click **[Connect....]**.

Select the bucket or a folder and click **[Save Connection]**.

Connect to New Amazon S3

End Point Configuration

Region: Asia Pacific (Tokyo)

Specified Provider: NIFCLOUD (east-1)

Credentials

Access Key: AKIA6GQKERN6ANNJRGNZ

Secret Key:

Connect...

Destination Paths

s3://

- demo-aip-backup
- s3-aip-backup

Cancel Save Connection

9. The selected replication target is added in **[Replication Target (Local / Network / Server / Cloud)]**.

Actiphy ImageReplicator

Replication Source (Local / Network)

Replication Job Name: Task_20260901_164416_232

Replication Schedule:

There is no Replication Schedule defined, but you can still run Replication Jobs Manually.

Add New Schedule

Replication Target (Local / Network / Servers / Cloud)

- Local
- Network
- Wasabi
- Amazon S3
 - s3://demo-aip-backup
 - + Add New Amazon S3 Bucket
- Azure
- SFTP (Password)
- SFTP (Secret Key)

Use network throttling

Bandwidth Limit: 100 KB/sec.

Retry Connection: 5 times.

I/O Performance:

Cancel Save

Create Replication Task

10. Select a replication criteria.

Select an criteria option from **[Replicate only latest generation]**, **[Replicate only (backup type)]** or **[Keep target items same with source]**.

In this example, we have selected **[Keep target items same with source]** option so that the backup files in the destination folder mirror the target files.

ActiPhy ImageReplicator

Replication Source (Local / Network) ... > Replication Target (Local / Network / Servers / Cloud) ...

Replication Job Name: Task_20260603_154508_162

Replication Schedule:

There is no Replication Schedule defined, but you can still run Replication Jobs Manually.

Add New Schedule

Destination Options:

Enable Immutable Images ☐ ?

Immutable Policy (Protect my image version for)

1 Days

Replication Criteria:

☐ + Replicate only latest generation

☐ + Replicate only Base Images

☒ + Keep Target items same with source

Replication Options:

☐ Use network throttling

Bandwidth Limit 100 KB/sec.

Retry Connection: 5 times.

I/O Performance:

Light Fast

Cancel Save

(1) Replicate only the last generation

Check the box to enable replication of only the last generation of backups.

* One generation is managed as a group of a base (full) backup together with the associated incremental chain.

(2) Replicate only xx

Check the box to enable replication of only base or incremental backups.

(3) Keep target items same with source

Check the box so that the target files mirror the files from the source.

11. Examples of the configuration settings

- (1) When saving backup image files of the latest generation only in replication target

Enable: **[Replicate only the latest generation]**, Disable: **[Replicate only xx]**, Enable: **[Keep target items same with source]**

When a new generation of backup is created in the source, the older generation of backup will be automatically deleted from the target upon execution of the subsequent replication task.

The screenshot shows the 'ActiPhy ImageReplicator' configuration window. The 'Replication Source (Local / Network)' is set to '\\10.123.3.131\backup\1c1d33df-297f-4407-b4c2-50df6fa8c1'. The 'Replication Target (Local / Network / Servers / Cloud)' is set to 's3://demo-aip-backup'. The 'Replication Job Name' is 'Task_20260901_164832_892'. The 'Replication Schedule' section shows a calendar icon and the text 'There is no Replication Schedule defined, but you can still run Replication Jobs Manually.' with an 'Add New Schedule' button. The 'Destination Options' section includes 'Enable Immutable Images' (disabled), 'Immutable Policy (Protect my image version for)' set to '1 Days', and 'Replication Criteria' (highlighted with a red box) with 'Replicate only latest generation' (checked), 'Replicate only' (unchecked) with a dropdown set to 'Base Images', and 'Keep Target Items same as source' (checked). The 'Replication Options' section includes 'Use network throttling' (unchecked), 'Bandwidth Limit' set to '100 KB/sec.', and 'Retry Connection' set to '5 times'. The 'I/O Performance' section has a slider. At the bottom are 'Cancel' and 'Save' buttons.

- (2) When saving the specified backup image type only in replication target

Enable: **[Replicate only the latest generation]**, Enable: **[Replicate only xx]**, Enable: **[Keep target items same with source]**.

When a new generation of base (full) or incremental backup file is created in the source, the older generation of backup in the replication target will be automatically deleted upon execution of the subsequent replication task.

The screenshot shows the 'ActiPhy ImageReplicator' configuration window. The 'Replication Source (Local / Network)' is set to '\\10.123.3.131\backup\1c1d33df-297f-4407-b4c2-50df6fa8c1'. The 'Replication Target (Local / Network / Servers / Cloud)' is set to 's3://demo-aip-backup'. The 'Replication Job Name' is 'Task_20260901_165310_727'. The 'Replication Schedule' section shows a calendar icon and the text 'There is no Replication Schedule defined, but you can still run Replication Jobs Manually.' with an 'Add New Schedule' button. The 'Destination Options' section includes 'Enable Immutable Images' (disabled), 'Immutable Policy (Protect my image version for)' set to '1 Days', and 'Replication Criteria' (highlighted with a red box) with 'Replicate only latest generation' (checked), 'Replicate only' (checked) with a dropdown set to 'Base Images', and 'Keep Target Items same as source' (checked). The 'Replication Options' section includes 'Use network throttling' (unchecked), 'Bandwidth Limit' set to '100 KB/sec.', and 'Retry Connection' set to '5 times'. The 'I/O Performance' section has a slider. At the bottom are 'Cancel' and 'Save' buttons.

Create Replication Task

12. Please use the following steps to configure regularly scheduled replication tasks.

Schedule type options include **[Immediately]**, **[Monthly]**, **[Weekly]**, **[Specific Days]**.

In this example, we are configuring our replication to run weekly at 5:00 a.m.

After configuring the schedule, click **[Save]** to save the configured task settings. Thereafter, the replication tasks automatically run according to the predefined schedule.

The screenshot shows the 'Actiphy ImageReplicator' configuration window. The 'Replication Source (Local / Network)' is set to '\\10.123.3.131\\backup\\33b0b89c-7e09-4991-ae9d-48676dac'. The 'Replication Target (Local / Network / Servers / Cloud)' is set to 's3://s3-aip-backup'. The 'Replication Job Name' is 'Task_20260603_154508_162'. The 'Replication Schedule' is set to 'Weekly' with a 'Schedule 1' toggle. The 'Weekly' schedule is highlighted with a red box, showing the days 'SUN', 'MON', 'TUE', 'WED', 'THU', 'FRI', and 'SAT'. The 'Execute Time' is set to '05:00' and the 'Interval' is '60 min.'. The 'Destination Options' include 'Enable Immutable Images' (disabled) and 'Immutable Policy (Protect my image version for)' set to '1 Days'. The 'Replication Criteria' include 'Replicate only latest generation' (unchecked), 'Replicate only' (Base Images), and 'Keep Target items same with source' (checked). The 'Replication Options' include 'Use network throttling' (unchecked), 'Bandwidth Limit' (100 KB/sec), and 'Retry Connection' (5 times). The 'I/O Performance' is set to 'Fast'. The 'Save' button is highlighted with a red box.

Actiphy ImageReplicator

Replication Source (Local / Network) Replication Target (Local / Network / Servers / Cloud)

Task_20260603_154508_162

Replication Schedule:

Schedule 1

Immediately Monthly **Weekly** Specific Days

SUN MON TUE WED THU FRI SAT

Execute Time: 05:00 ~ 21:00 Interval: 60 min.

Destination Options:

Enable Immutable Images

Immutable Policy (Protect my image version for)

1 Days

Replication Criteria:

Replicate only latest generation

Replicate only Base Images

Keep Target items same with source

Replication Options:

Use network throttling

Bandwidth Limit 100 KB/sec.

Retry Connection: 5 times.

I/O Performance:

Light Fast

Add New Schedule

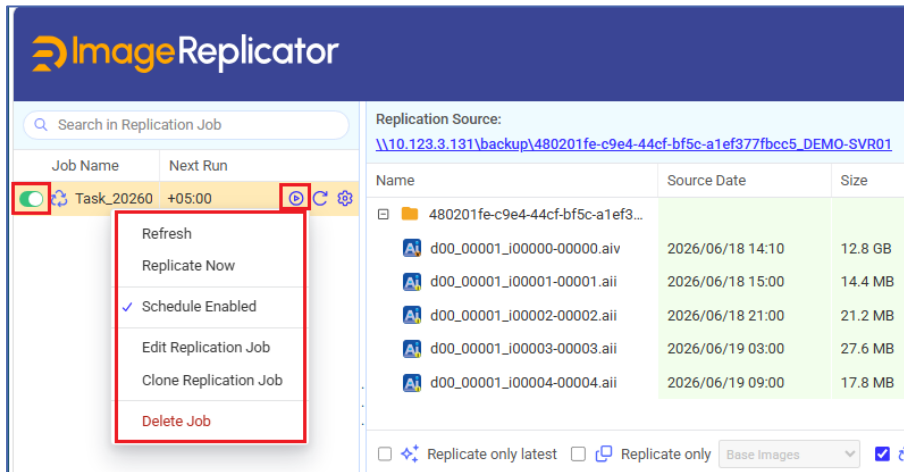
Cancel Save

4. Management of Replication Tasks

The created tasks are listed in the console window and you can monitor the information displayed for **[Job Name]** and **[Next Run]**. The following provides the explanation of operating procedures for managing the created tasks.

1. How to manage Replication Tasks

Hover the cursor over the task name, then right-click an item in the menu to manage the tasks.



(1) Manually run / stop task

When you manually run a created task for operation check, etc., select **[Replicate Now]** from the right-click menu or click the **[Play]** button on the right side. If stopping a task, select **[Stop Replication Job]**.

(2) Enabled/Disabled a schedule

To temporarily disable a schedule for maintenance or other reasons, clear the check mark next to **[Schedule Enabled]** in the context menu, or switch the toggle button on the left to OFF. To enable the schedule again, select **[Schedule Enabled]** from the context menu, or switch the toggle button on the left to ON.

(3) Edit task settings

When editing replication task settings, select **[Edit Replication Job]** in the right-click menu.

(4) Copy tasks

When copying a replication task, select **[Clone Replication Job]** in the right-click menu.

(5) Delete tasks

When deleting a replication task, select **[Delete Job]** from the right-click menu.

Once a task is deleted, it cannot be undone. Please make sure you want to delete the task before proceeding.

5. Object Lock Settings

Object Lock support for AWS S3, Wasabi, and Microsoft Azure storages helps protect the buckets. Enable **[Enable Immutable Images]** under **[Destination Options]**. The bucket's Object Lock settings are overwritten. Governance Mode retention period is applied to each backup image set.

1. Retention Period for Amazon S3

You can use **[Destination Options]** to specify the period to protect the backup image set. In this example, **[60 Days]** is selected to safely protect the backup image set from tampering or deletion.

The screenshot shows the 'Actiphy ImageReplicator' window. The 'Replication Target (Local / Network / Servers / Cloud)' section is highlighted with a red box. It shows the target path 'wasabi://test-tanu-objectlock'. Below this, the 'Destination Options' section is also highlighted with a red box. It includes a toggle for 'Enable Immutable Images' which is turned on, and a dropdown for 'Immutable Policy (Protect my image version for)' set to '60 Days'. Underneath, 'Governance Mode' is selected with a radio button, and 'Compliance Mode' is unselected. The 'Replication Criteria' section has three checkboxes: 'Replicate only latest generation' (unchecked), 'Replicate only' (checked, with a dropdown set to 'Base Images'), and 'Keep Target items same as source' (unchecked). The 'Replication Options' section has a checkbox for 'Use network throttling' (unchecked), a 'Bandwidth Limit' of '100 KB/sec.', and a 'Retry Connection' of '5 times'. At the bottom right are 'Cancel' and 'Save' buttons.

2. Example: Configuring Immutable Policy for Wasabi

The following is the example for configuring Destination Options. For example, when **[60]** days is specified for Immutable Policy and **[Governance Mode]** is selected, Governance Mode prevents the backup data from being modified or deleted, helping to keep it secure.

This screenshot is identical to the one above, showing the 'Actiphy ImageReplicator' window with the 'Destination Options' section highlighted. It confirms the configuration: 'Enable Immutable Images' is on, 'Immutable Policy' is '60 Days', 'Governance Mode' is selected, and the other options are as previously noted.

3. Usage Example

Preconditions :

- Backup Schedule : Weekly (Sunday: Full, Monday to Saturday: Incremental)
- Generation Management : 3 generations
- Replication Type : **[Keep target items same with source]**
- Replication Schedule: Once a day
- Retention Period : 60 days

(1) June 1: Replicate full backup

Retention period: 60 days

Replication Source	Execution Date	Expiration Date
Base (Full) backup	June 1, 2026	August 1, 2026

(2) June 2: Replicate incremental backups

The retention period is extended for each backup image set when new incremental backups are replicated.

Replication Source	Execution Date	Expiration Date
Base (Full) backup	June 1, 2026	August 2, 2026
Incremental backup	June 2, 2026	August 2, 2026

(3) June 7: Replicate the last incremental backup in a week

The retention period is extended for each backup image set when a new incremental backup is created.

Replication Source	Execution Date	Expiration Date
Base (Full) backup	June 1, 2026	August 7, 2026
Incremental backup	June 2, 2026	August 7, 2026
Incremental backup	June 3, 2026	August 7, 2026
Incremental backup	June 4, 2026	August 7, 2026
Incremental backup	June 5, 2026	August 7, 2026
Incremental backup	June 6, 2026	August 7, 2026
Incremental backup	June 7, 2026	August 7, 2026

4. Operation Flow

Once the 60-day retention period has expired, the backup files are deleted from the replication target on the backup image set basis when the next replication is performed.

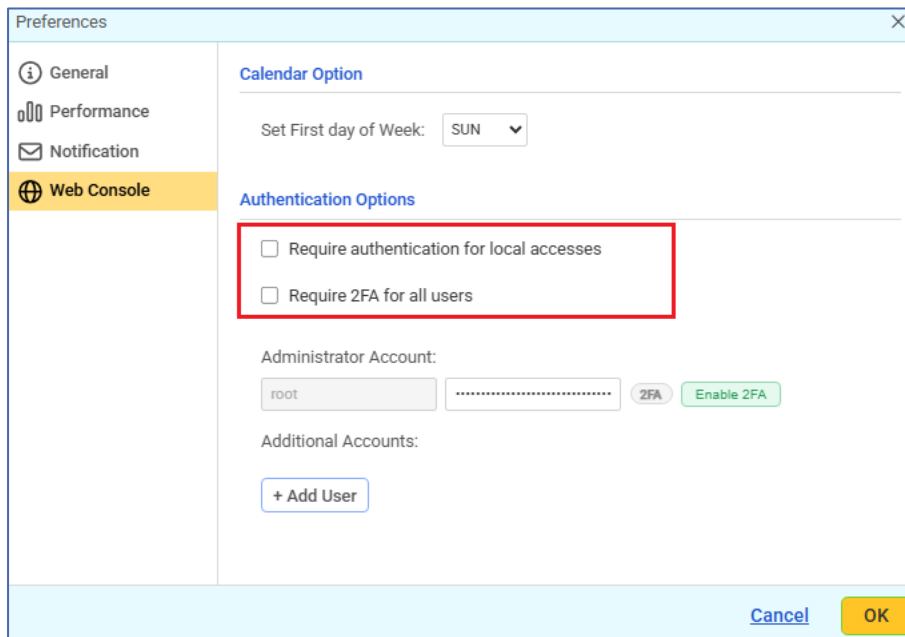
(Ex: The backup set is deleted when the replication is executed on or after August 8, 2026.)

6. Web Console

[Web Console] is provided to configure the authentication settings for establishing connection via Web console and to create and manage user accounts.

1. Authentication Settings

Go to **[Preference] – [Web Console]** and select an authentication option. In addition to password authentication, you can enhance security by enabling two-factor authentication (2FA).



The screenshot shows the 'Preferences' window with the 'Web Console' tab selected. Under the 'Authentication Options' section, two checkboxes are highlighted with a red box: 'Require authentication for local accesses' and 'Require 2FA for all users'. Below these, the 'Administrator Account' section shows the 'root' user with a password field and '2FA' and 'Enable 2FA' buttons. The 'Additional Accounts' section has a '+ Add User' button. The window has 'Cancel' and 'OK' buttons at the bottom right.

(1) Require authentication for local accesses

When enabled, you will be requested to enter the authentication information even when accessing the local Web console.

(2) Require 2FA for all users

When enabled, two-factor authentication (2FA) using an authenticator app such as Google Authenticator is required to access either the local or remote Web consoles.

2. Administrator Account

The password can be changed to any desired value for administrator account.

Click **[Enable 2FA]** to configure two-factor authentication or **[Add User]** to add a new additional user account.

Preferences

General

Performance

Notification

Web Console

Calendar Option

Set First day of Week: SUN

Authentication Options

☐ Require authentication for local accesses

☐ Require 2FA for all users

Administrator Account:

root 2FA Enable 2FA

Additional Accounts:

+ Add User

Cancel OK

(1) Default administrator user account **[root]** and password

The initial password for the default administrator is **[root]**. The password can be changed to any desired value.

(2) Two-factor authentication (2FA)

Click **[Enable 2FA]** to configure two-factor authentication using an authenticator application such as Google Authenticator.

Administrator Account:

root 2FA

1. Scan this QR code with your Authenticator app (Google Authenticator, Authy, etc.):

Or enter the key manually:

6JT7H3BXH5WI3ZUUR26S6YM2GFY7T2PZ

2. Enter the 6-digit code shown in your app to confirm binding:

000000 Confirm Cancel

(3) Additional Account

Additional administrator users can be added as needed.

*When signed in as an additional administrator, you cannot modify or delete existing users, nor can add new users.

7. Notification

E-mail notification can be sent to an email address of your choice. Notifications include successfully completed replication, replication failure or the occurrence of errors. This enables early detection of system status and potential issues, allowing rapid response and troubleshooting.

1. E-Mail Notification

To configure your email settings, go to **[Preferences]** → **[Notification]**.

The screenshot shows the 'Preferences' dialog box with the 'E-mail Notification' tab selected. The 'From' and 'To' fields are populated with email addresses ending in '@actiphy.com'. The 'Subject' field contains 'Actiphy ImageReplicator'. The 'Use this SMTP Server' checkbox is checked, and the 'SMTP Port' is set to 25. The 'Enable SSL/TLS' checkbox is also checked. A 'Test E-mail Notification' button is visible. Under the 'Events' section, 'Task Fail' is selected. The 'Send Task Summary' checkbox is unchecked. At the bottom, the 'Daily' radio button is selected, with a time of 21:00 and a day of SUN.

(1) **[From]** and **[To]**

Specify email addresses in the **[From]** and **[To]** fields. E-mail notifications are enabled.

(2) Use this SMTP Server

Enable **[Use this SMTP server]** to use a specific SMTP server for notifications.

(3) Events

Select the events **[Task Success]** or **[Task Fail]** that trigger email notifications. An email notification is sent when the selected event occurs.

(4) Test E-Mail Notification

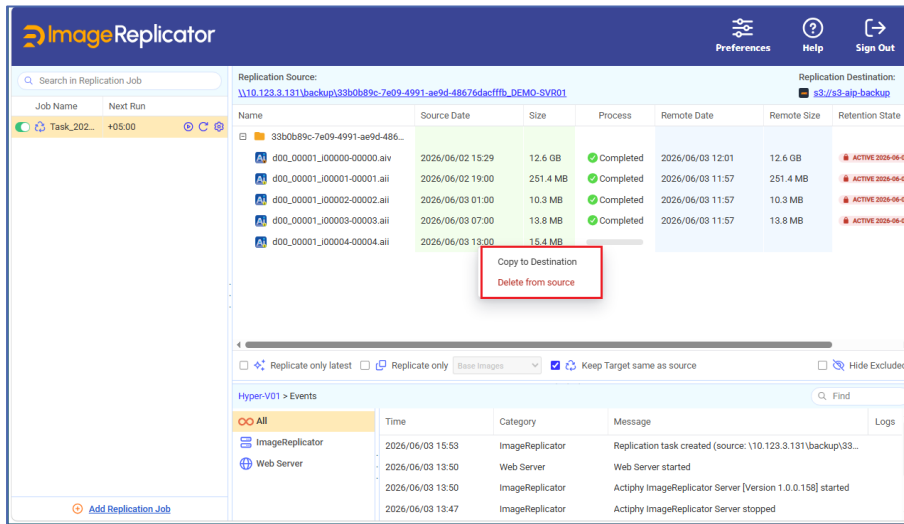
Enable **[Test E-Mail Notification]** to send a test email. To confirm receipt of the test email, click **[OK]**.

8. Copy / Delete a backup copy

Backup files saved in the backup destination folder (replication source) and the replication target can be deleted or copied between the two locations.

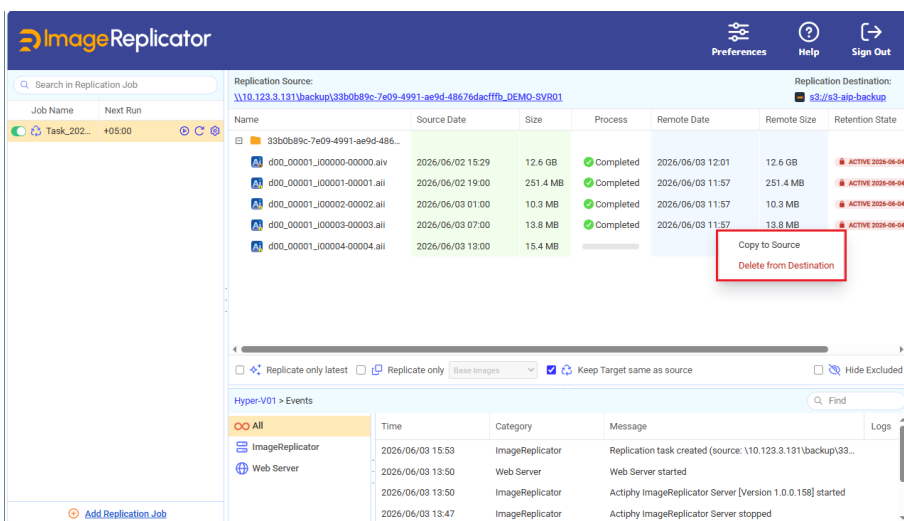
1. Copying / deleting backup files from the backup destination (replication source) to the replication target

Hover the cursor over the source information (such as update date and file size) of the source backup files in the item list, then right-click and select **[Copy to Destination]** or **[Delete from source]** in the context menu.



2. Copying / deleting backup files from the replication target to the backup destination folder

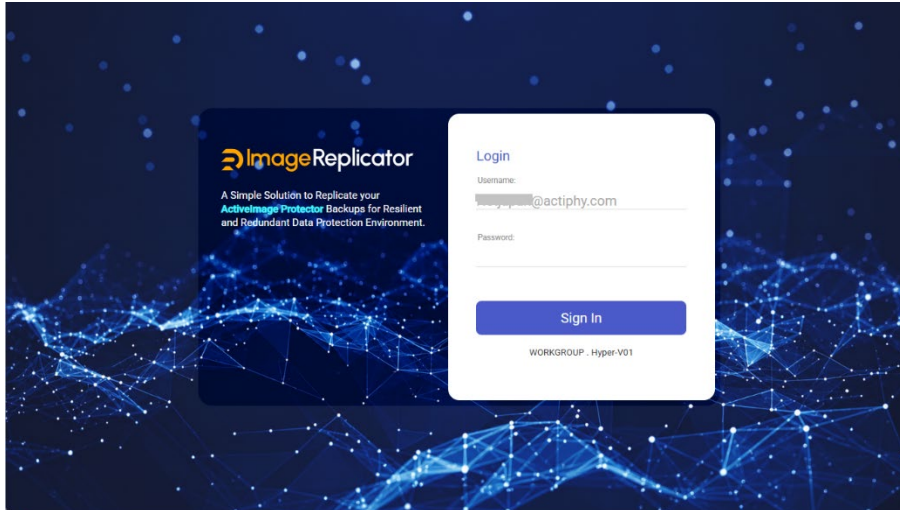
In the item list, hover the cursor over the target information of the backup files (such as update date and file size), then right-click and select **[Copy to Source]** or **[Delete from Destination]** in the context menu.



9. Remote Web Console

You can remotely connect to and operate the ImageReplicator Web Console using an SSL connection. The default port number is “**443**”.

1. On a PC with a web browser installed, enter the IP address of the computer running ImageReplicator to access the Web Console. The use of Web Console allows remote management and operation over network, providing a more flexible system administration.



10.Reference

- **Actiphy's Web site:**

Actiphy's Web site provides access to comprehensive information, including product information, related documents, technical support, updates, etc.

<https://www.actiphy.com/global>

- **Knowledge Base**

<https://actiphyhelp.zendesk.com/hc/en-us/sections/13451053396761-Knowledge-Base>

- **ActiveImage Protector Help Center**

Support information is accessible at the following web site.

<https://actiphyhelp.zendesk.com/hc/en-us>

- **For any inquiries about ActiveImage Protector, please contact:**

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