

ActiveImageTM 2022

PROTECTOR

ActiveImage Protector 2022 Server

System Protection Solution for Windows Server

~ Product Summary ~

March 8, 2023

Actiphy Inc.

System Protection Solution for on-premise virtual environment

- 1 . What is ActiveImage Protector 2022 Server?
- 2 . Benefits of ActiveImage Protector 2022 Server
 - Backup / Recovery
 - File / Folder Backup
 - A wide variety of backup destinations
 - Disaster recovery solution
 - System redundancy solution
- 3 . Main Features
 - Backup / Recovery
 - Flexible backup schedule setting

System Protection Solution for Windows Server

- Intuitive and user friendly GUI provides easy-to-use controls of backup operation for Windows Servers.
- Supported storages include S3-compatible object storage, Azure, SFTP server and LTO tape devices as backup destinations. **NEW**
- File / Folder Backup **NEW**

New Features of ActiveImage Protector 2022 Server

Supported public cloud storage services include S3-compatible object storage

LTO Tape Support

File / Folder Backup

Support for SFTP servers providing secure communication

Boot Environment Builder without installation of Windows ADK

Subscription and perpetual licenses are now available.

Support for Windows Server 2022



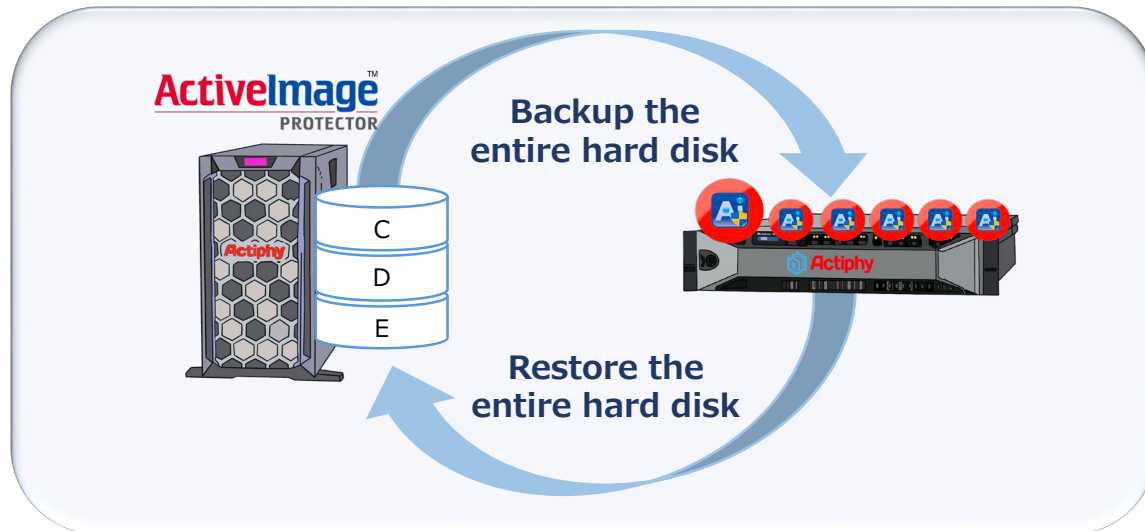
* As for the summary of the new main features, please refer to "ActiveImage Protector 2022 Summary of New Features."

Intuitive and user friendly GUI provides easy-to-use controls of backup operation

Protect the entire system

ActiveImage Protector Server backs up and protects your entire hard disk, including the live Windows operating system along with all your applications and data. **In the event of a system failure, backup images can be restored to restart the operation.**

Back up and restore the entire system

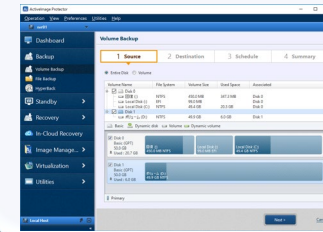


Simple backup and recovery operation

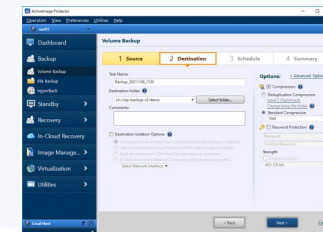
Intuitive and user friendly management console provides easy-to-use controls of backup settings and recovery operation. **Even an in-experienced system manager can easily start backup operation.**

Wizard-driven interface guides you through configuring backup settings

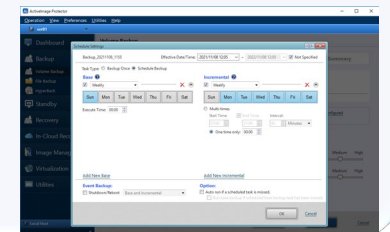
Select a backup source disk



Specify backup destination

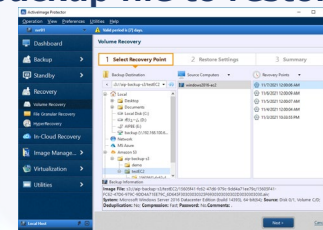


Configure backup schedule settings

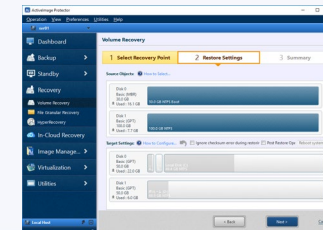


Wizard-driven interface guides you through restore operation

Select point-in-time backup file to restore



Specify restore target disk



Boot up the server and restart operation

Restore to the point-in-time state of the server.
No need to configure the respective settings, i.e., network, etc.

The new file / folder backup feature provides granular point-in-time backup of specific files and folders **NEW**

File / Folder Backup of changed blocks

Select a file / folder and configure the scheduled backup settings.
Daily incremental backup backs up only the changed blocks in the file, reducing the storage space requirements.

Incremental backup backs up only the changed blocks in the file

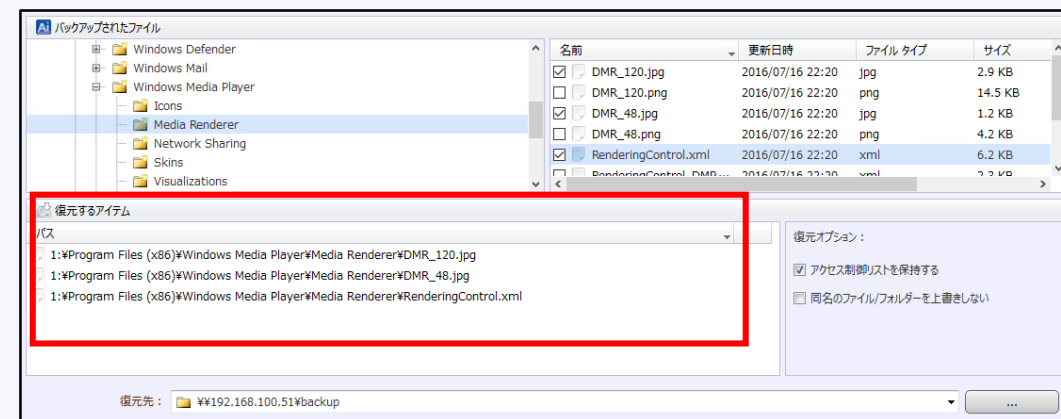


**Backs up
the changed blocks**

Restore a file / folder

Select a file / folder to restore from a backup file. The stream information and access rights assigned to files are inclusively restored.
Granular specific files and folders can be flexibly selected and restored.

Select and restore specific file/ folder

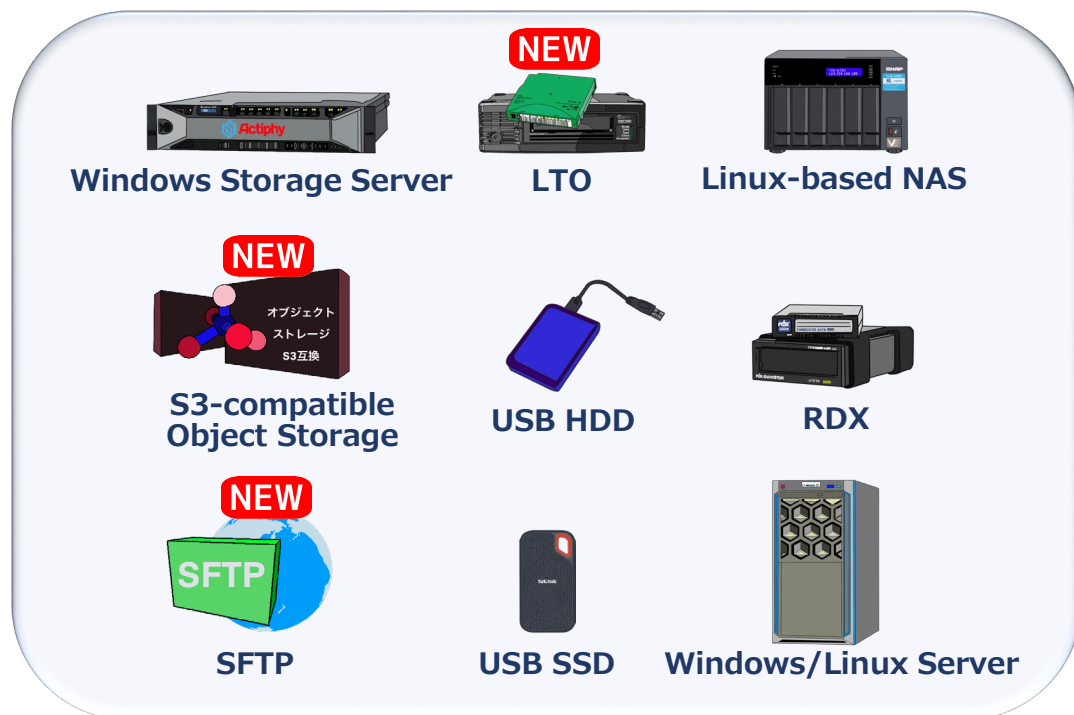


Flexibly select a backup destination depending on the system configuration

Support for a variety of Storage Media

Save your backups to any available storage location, including **USB HDD**, **cloud object storages**, etc., supporting a variety of system configuration and backup policies.

A variety of Storage Media are supported



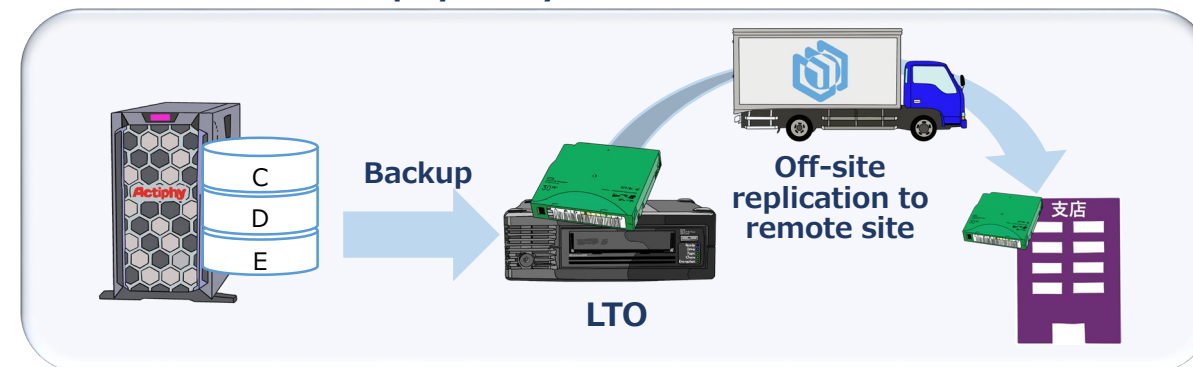
Save your backups to any available storage location **NEW**

Supported storages include **S3-compatible object storage**, **Azure**, **SFTP server** and **LTO tape devices** as backup destinations.

Backup systems directly to cloud storage



Backup data saved on LTO tape device can be physically isolated in safe

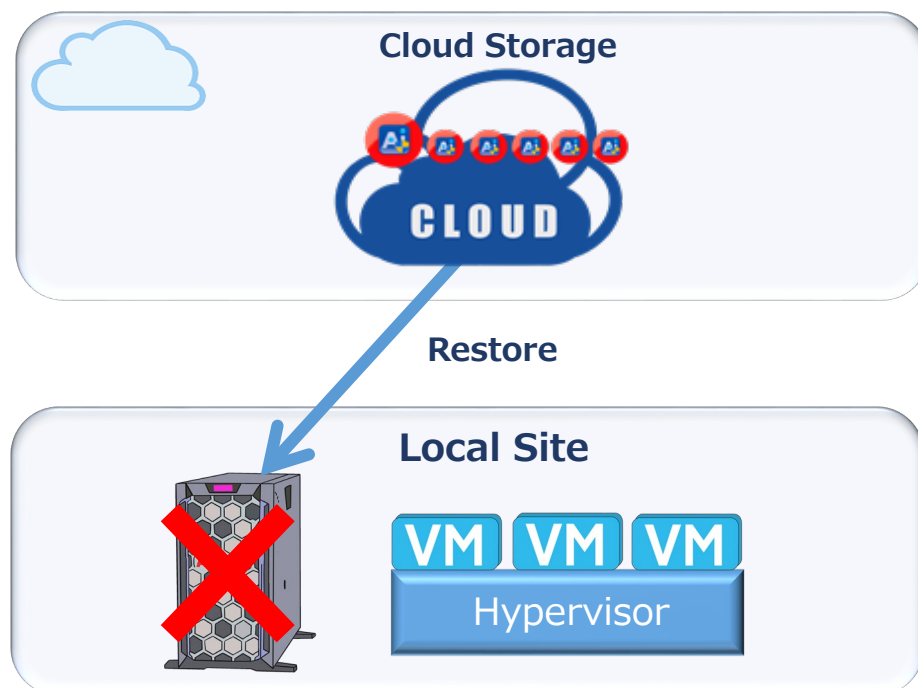


Disaster recovery solution supports public cloud storage services. **NEW**

Restore to local site

Direct-To-Cloud Backup saves the created backups directly to cloud storage. **Backup of on-premise Windows machines can be directly restored to the point-in-time state before the system failure took place.** You do not need to have a storage at local site to download a backup file from the cloud storage.

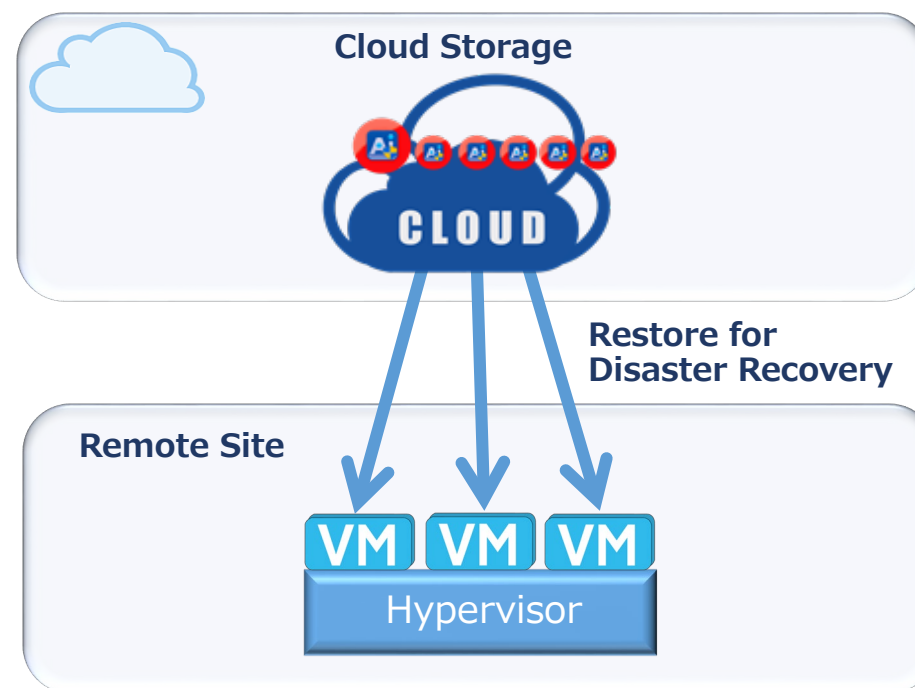
Restore the failed server from a backup file



Restore to remote site

In the event of emergency, **directly restore the backup to the virtual machine at remote site.** It provides support for Disaster Countermeasures at low cost.

Restore backup to virtual machine at remote site



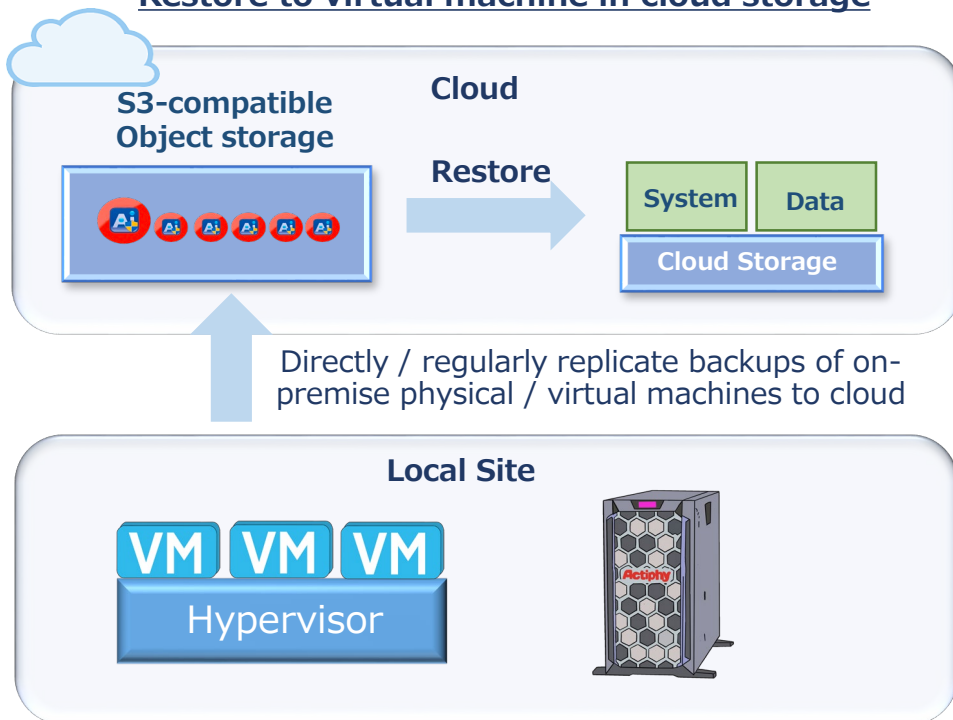
Use cloud storage as DR site when the deployment of DR site is otherwise difficult.

NEW

Temporarily use cloud storage as DR site

Directly or regularly replicate backups of on-premise physical / virtual machines to cloud storage. **In the event of emergency, restore a backup to virtual machine in cloud storage.**

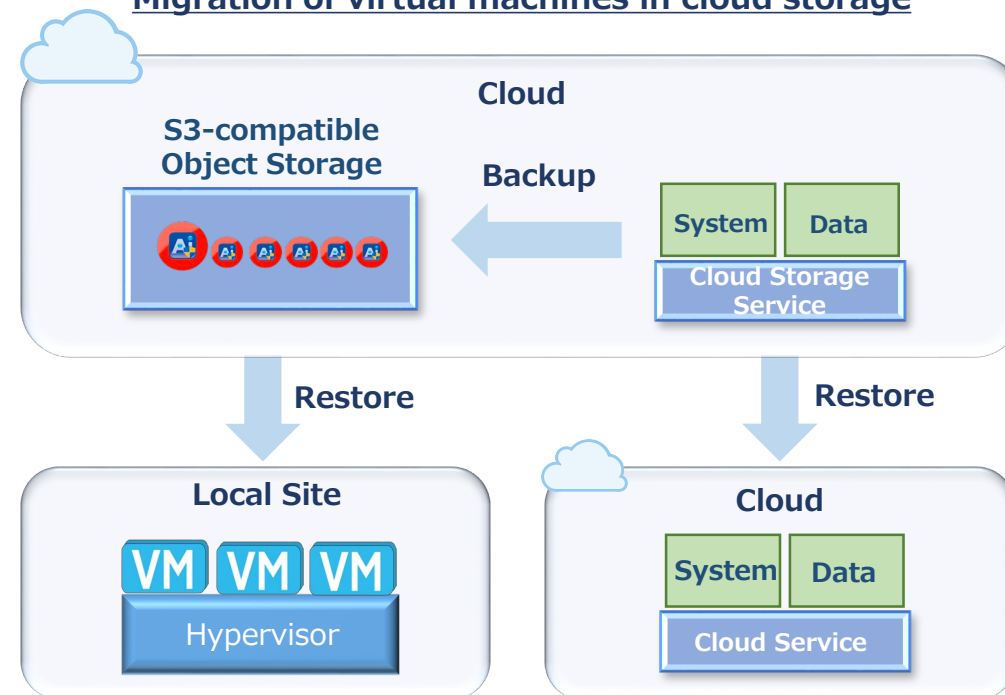
Restore to virtual machine in cloud storage



Migrate virtual machines in cloud storage to on-premise environment

Offers an easy system migration of virtual machines in cloud environment directly to on-premise environment. Backup of virtual machines in cloud storage can be restored and migrated to virtual machines in on-premise environment.

Migration of virtual machines in cloud storage

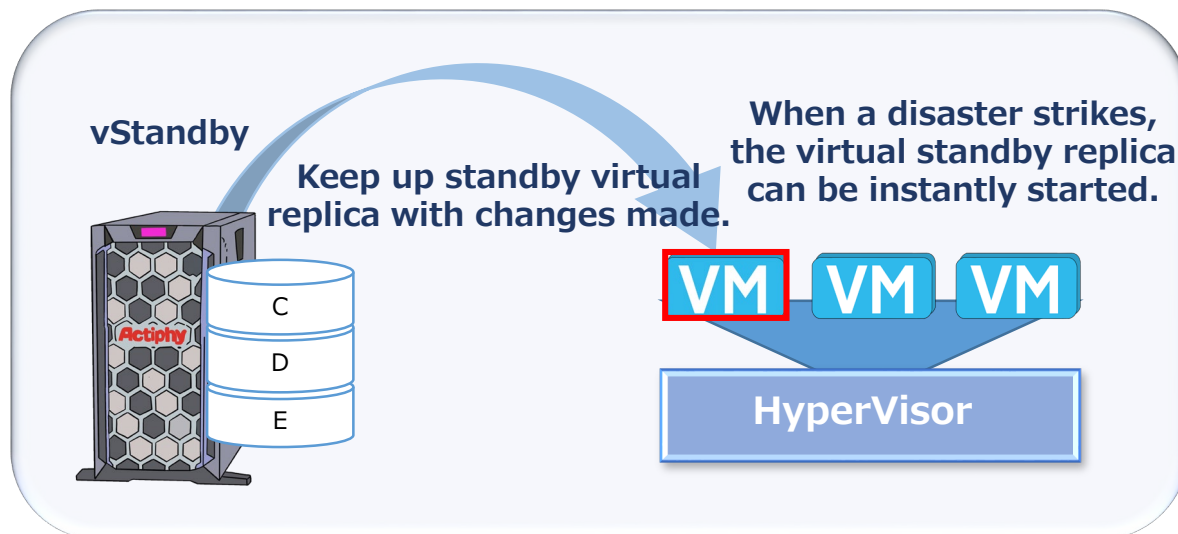


Featuring support for reduction of RTO

Create and maintain standby virtual replica

In an emergency, it may take lengthy time to restore a large volume of backup file. **Use vStandby, add-on tool for ActiveImage Protector, to specify the source disk of your machine and automatically replicate your machine according to the pre-defined schedule on a target virtual host.** When a disaster strikes, the virtual standby replica can be instantly started to continue the operation. ActiveImage Protector enables you to deploy affordable standby availability solution.

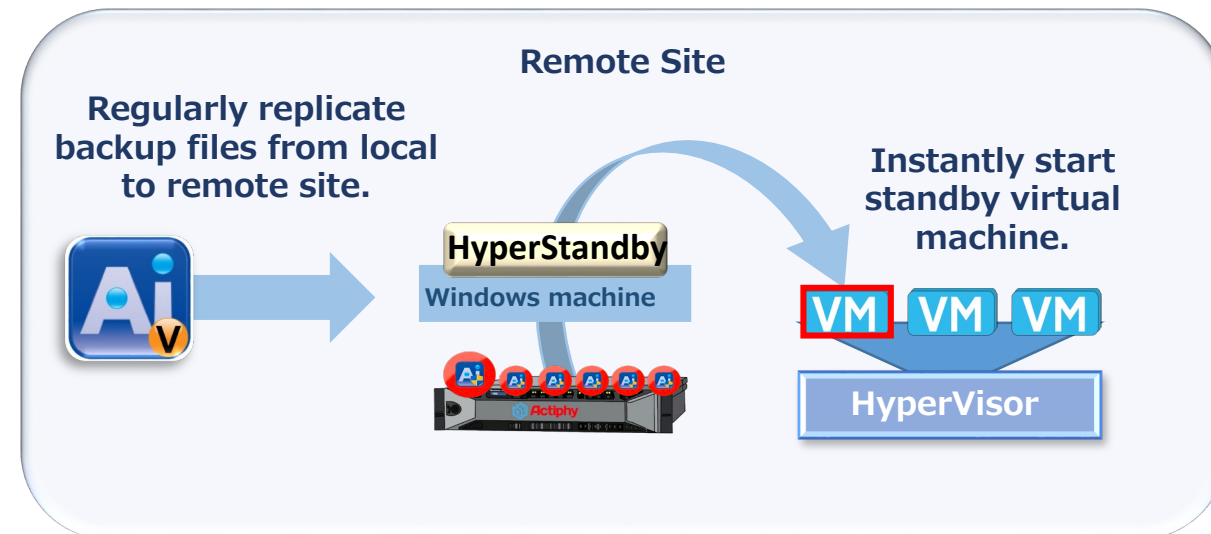
Create and maintain standby virtual replica from backup image



DR Solution

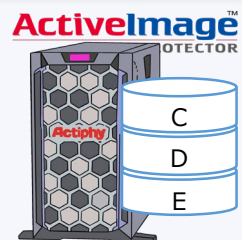
Replicate backup images to target hypervisor at remote site on regular basis. **HyperStandby, add-on tool for ActiveImage Protector, creates and regularly maintain standby virtual machine according to pre-defined schedule on hypervisor at remote site.** When a disaster strikes, the virtual standby replica can be instantly started to continue the system operation. ActiveImage Protector enables you to deploy backup solution providing disaster countermeasures at low cost.

Restore the system at remote site



Back up your entire hard disk including OS along with all your applications and data

ActiveImage Protector backs up your entire machine, including the OS, applications and data files, while the machine is active and running



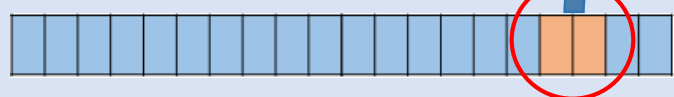
Backs up your entire machine, including the OS, applications and data files



Back up only changes made since the last backup

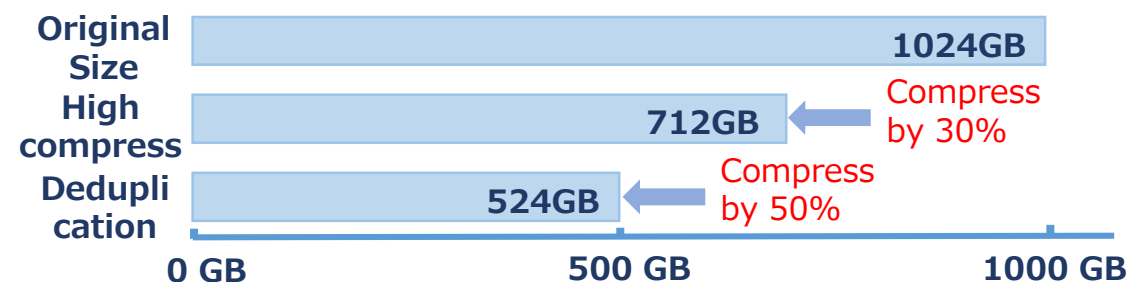
Incremental backup includes only the changes made since the last backup and is scheduled on regular basis according to the predefined schedule. ActiveImage Protector only runs backup tasks according to the predefined schedule, minimizing the consumption of the system resources on the machine.

Back up only changed blocks



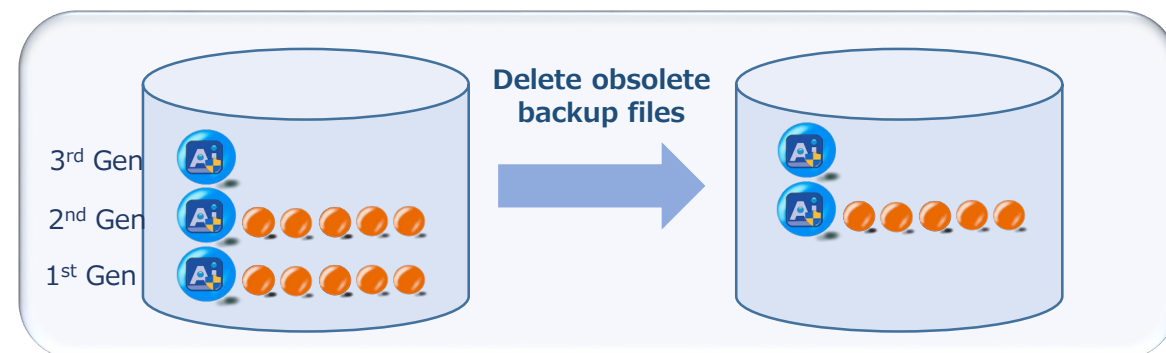
Deduplication Compression reduces storage requirements

Our Inline Data Deduplication Compression (IDDC) feature eliminates duplicate data while simultaneously compressing it, resulting in a significant reduction in backup storage requirements and network load.



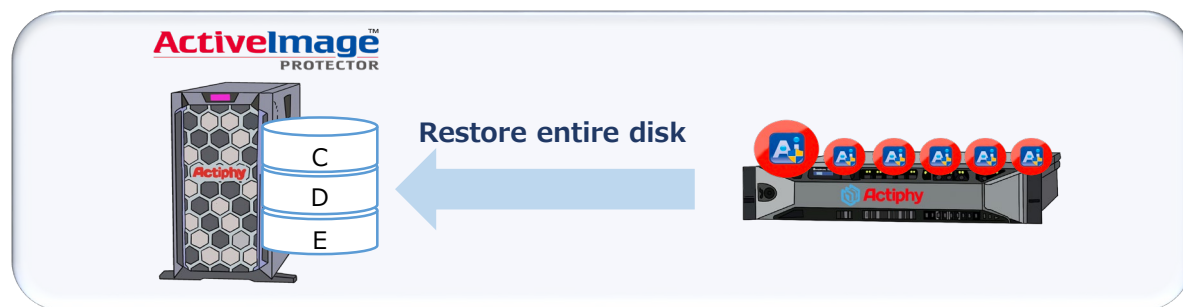
Use Retention Policy to delete obsolete backup image files, resulting in reduction of the storage space.

Retention Policy feature allows you to **automatically delete the obsolete backup image set** when the number of backup image sets reaches the preset limitation and reduce the storage space requirements.



Restore the entire disk

Select the most up-to-date incremental backup file, specify the restore target disk and your system is restored to the most updated state. The restore target may be on-premise virtual environment, cloud environment as well as the original server.



Restore by volume

Restore a backup image of a specific recovery point to a specified volume. For example, **only "D:" drive can be selected from the data volume to restore.**



File / Folder Recovery

File Recovery Feature

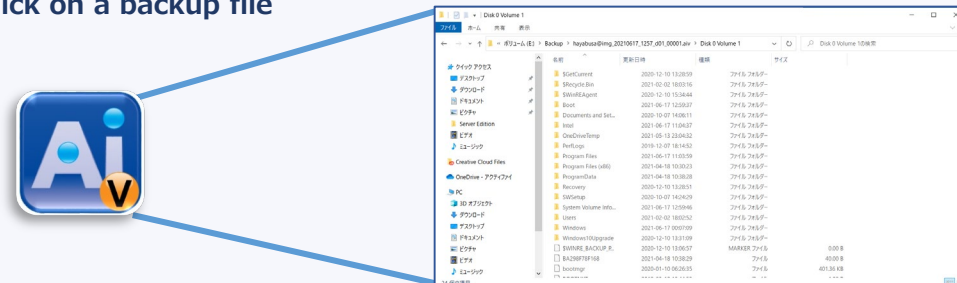
Granular point-in-time recovery of files and folders is enabled. The stream information and access rights assigned to files are inclusively restored. When you only need specific files to restore in order to restart your duties, **File Recovery feature can provide you with flexible action.**



Image Explorer

Installed as a Windows Explorer extension, Image Explorer allows you to browse and copy files and folders from ActiveImage Protector image file without requiring a full image mount, saving your time and system resources. This will allow you to restore individual files or folder.

Click on a backup file

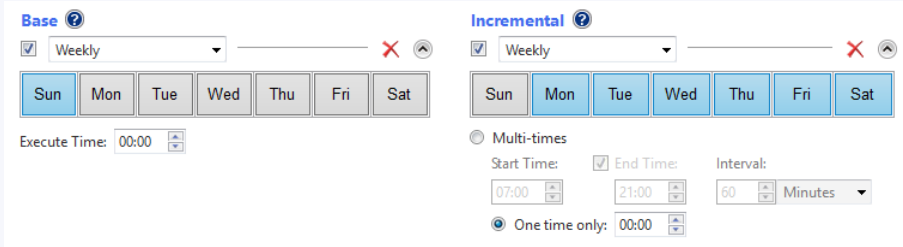


Flexible Multi-scheduling

Backup tasks can be automatically executed according to the one time, weekly or monthly schedule, or a specific day of a week in a specific month.

Weekly

Full backup may be scheduled to execute on the weekend while incremental backup tasks are scheduled from Monday to Friday. Incremental backup can be scheduled to run for multiple times a day.



The screenshot shows the scheduling interface for two backup tasks: 'Base' and 'Incremental'. Both are set to 'Weekly'. The 'Base' task has a calendar view with Sunday and Monday selected. The 'Incremental' task has a calendar view with Monday through Friday selected. Both tasks have an 'Execute Time' of 00:00. The 'Incremental' task also has options for 'Multi-times' (Start Time: 07:00, End Time: 21:00, Interval: 60 Minutes) and 'One time only' (00:00).

Monthly

Select by clicking the date(s) of the month and the time of a day to perform a recurring full base backup tasks while incremental backup tasks are scheduled from Monday to Friday.

Designate Specific Days

Select by clicking a specific days of a week to perform a recurring full base backup while incremental backup tasks are scheduled from Monday to Friday.

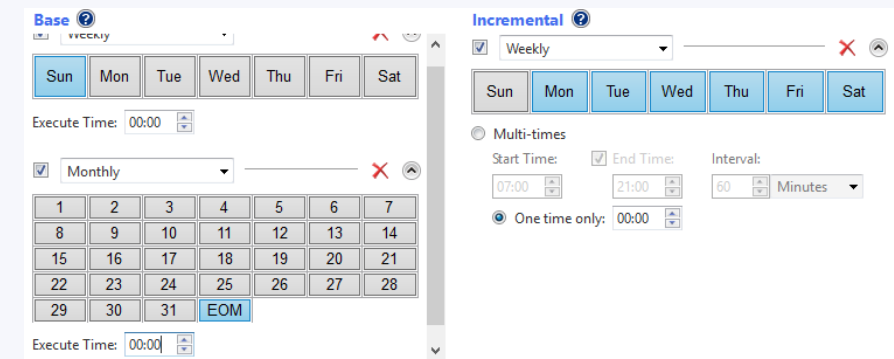
Specified Date / Time

Select by clicking a date and time to schedule a full backup task on a specific date while incremental backup tasks are scheduled for other days.

Customized Schedule Settings

Multi-scheduling

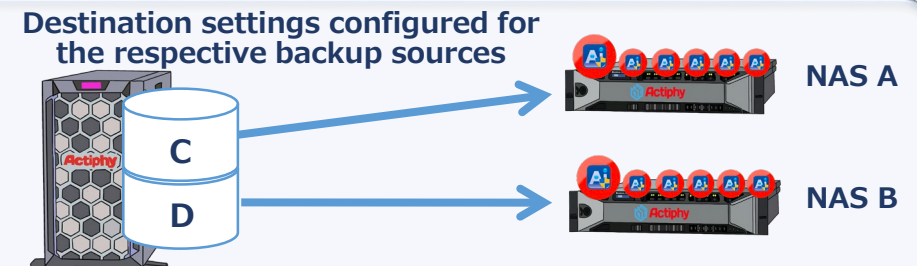
Incremental backup tasks are scheduled on weekly basis while full backup tasks are scheduled at the end of a month.



The screenshot shows the scheduling interface for two backup tasks: 'Base' and 'Incremental'. The 'Base' task is set to 'Monthly' with a calendar view showing the end of the month (EOM) selected. The 'Incremental' task is set to 'Weekly'. Both tasks have an 'Execute Time' of 00:00. The 'Incremental' task also has options for 'Multi-times' (Start Time: 07:00, End Time: 21:00, Interval: 60 Minutes) and 'One time only' (00:00).

Multiple Backup Destination Settings

Multiple backup task settings can be configured to direct backup files to multiple destinations. For example, configure the destination settings depending on the backup source, i.e., backup files of C drive are created in NAS A while backup files of D drive are created in NAS B.





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