

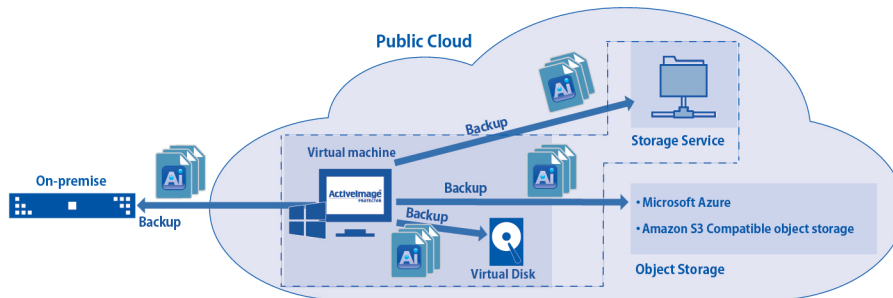
ActiveImage™ 2022 PROTECTOR

Cloud

What is ActiveImage Protector™ Cloud ?

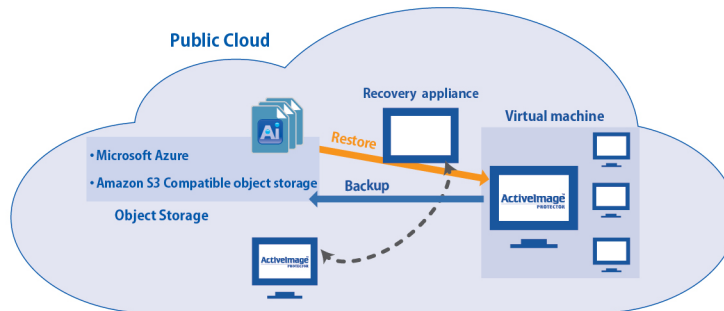
Data / System Protection Solution optimized for virtual machines in Cloud Environment

ActiveImage Protector™ Cloud is an image based backup and recovery solution optimized for Cloud environment. ActiveImage Protector™ backs up the entire hard disk of virtual machine on Cloud, including the operating system along with all your applications and data in a backup image file, using mostly the same operating procedures as on-premise physical / virtual machines. Save your backups to any available storage location depending on the system configuration or intended use of the backup files, including file server in VLAN on cloud, SFTP server outside the cloud environment or cloud storage in/outside the cloud environment. ActiveImage Protector™ Cloud license is cost-effective and can be applied to one cloud environment, enabling to back up a maximum of five virtual machines configured in the cloud environment.



In-Cloud Recovery offers an easy system recovery on cloud

In-Cloud Recovery restores the entire system to a virtual machine on cloud environment from backup files in cloud storage without the need for management console for cloud environment or command line operation. A volume or file / folder can be flexibly selected to restore from a backup image. Users can safely implement backup operation of the system in cloud environment based on even little experience as a cloud system administrator.



New Features of ActiveImage Protector™ 2022 (May 2022 Update)

In-Cloud Standby Feature :

In-Cloud Standby feature is designed to replicate bootable virtual machine (standby VM) on cloud environment by using ActiveImage Protector™ backup image located in storage accessible from cloud.

In-Cloud supports extended source :

In-Cloud Recovery and In-Cloud Standby of this new version supports extended source backup images. Backup images in user-created file server in VLAN on cloud, SFTP server outside the cloud environment or cloud storage in/outside the cloud environment are supported.

Extended File Backup feature :

This update additionally provides File Exclusion option and Network Shared Folder Backup feature.

VNC on RescueBoot :

ActiveImage Protector™ comes with RescueBoot feature enabling system recovery in the event of emergency without the use of external device. VNC viewer is now provided to remotely operate RescueBoot boot environment. System administrator can now restore the failed system in RescueBoot via VNC instead of local PC.

Enhanced installer :

When installation fails, rollback operation is supported for cancelled installation. Update installation is now allowed while a backup task is being executed.

Backup Features

Mostly the same backup procedures as in traditional on-site environment (On-premise)

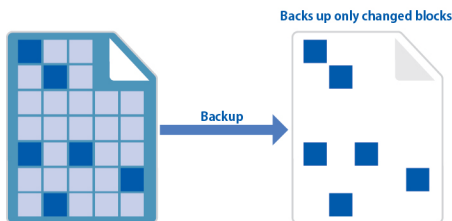
ActiImage Protector provides backup features supporting virtual machines on cloud environments using mostly the same operating procedures as On-premise. The created backups of physical machines in on-site environment can be saved in cloud storage. Of course, the backups of virtual machines in cloud environment can be directly saved in cloud storage.

Hot-Imaging backup for live machines

ActiImage Protector™ backs up your entire machine, while the machine is active and running without stopping the services including database or open files. The hot-imaging backup is useful especially when backing up the system and the data frequently updated throughout the day and night on non-stop server.

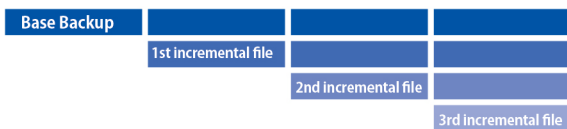
New features of File Backup New !

ActiImage Protector™ provides File Backup enabling to back up granularly selected files and folders. Incremental Backup includes only changes made in a file saving storage space. File Exclusion and Network Shared Folder Backup features are additionally provided.



Fast Incremental Backup

Fast and efficient incremental backup includes only sectors that have changed from the last backup, saving both process time and storage space. ActiImage Protector™ only runs backup tasks according to the predefined schedule, minimizing the consumption of the system resources on the machine.



Supports the latest files systems

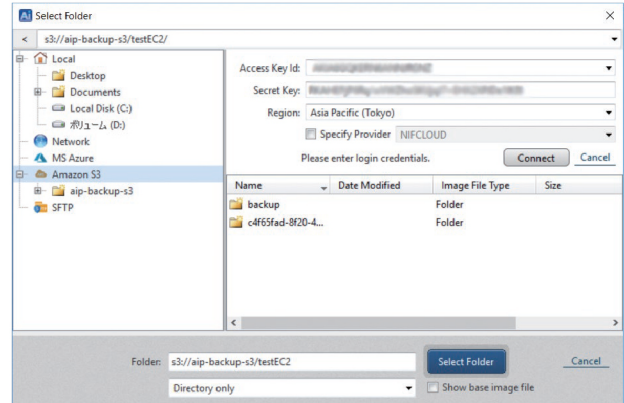
The latest file systems including ReFS (Resilient File System), Storage Space and 4K sector disk are supported. It is recommended to use "ActiImage Protector™ 2022 Cluster" for backup / restore of Cluster Shared Volume (CSV).

Faster and smaller backup with Smart Sector technology

ActiImage Protector™'s Smart Sector technology only backs up the used sectors on a disk, resulting in faster backup and smaller backup files.

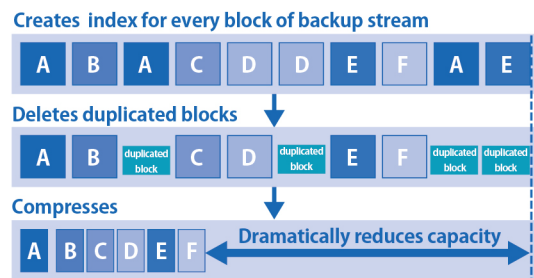
A suitable storage location is selectable New !

Save your backups to any available storage location, including VLAN file server in cloud or storage in / out of cloud, according to the system configuration and purpose of use.



Save storage space with IDDC

Our Inline Data Deduplication Compression (IDDC) feature eliminates duplicate data while simultaneously compressing it, resulting in a significant reduction in backup storage requirements. Backup using IDDC does not increase the overall backup processing time (according to our test results: 27 hours to back up 11.7 TB data). You do not need to purchase an optional tool or an expensive storage offering de-duplication feature. No special configuration settings or operation are required.



Command line execution support

Most of ActiImage Protector™'s features can be used by specifying parameters for command line tool or with command file. ActiImage Protector™'s CLI allows backups to be seamlessly administered by system management tools, if any, by using prepared script file.

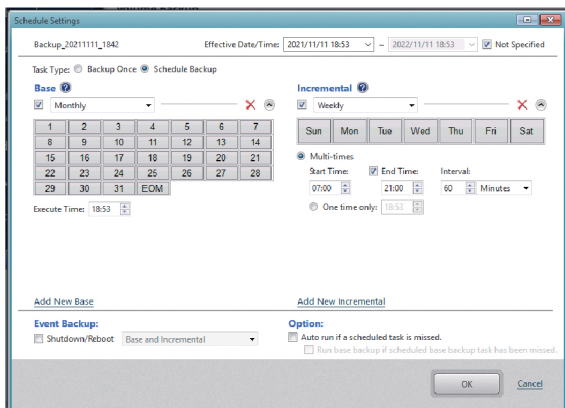
Encryption of Backup Images

ActiImage Protector™ can create password-protected and encrypted backup images and supports up to 256 bit encryption.

Backup Options

Schedule backup

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. Also, you can schedule the first baseline backup and recurring incremental backup tasks to run subsequently.



Flexible Multi-Scheduling Feature

Multiple schedules can be defined for individual backup tasks. For example, you can create a new full backup each month for an ongoing Weekly Schedule backup task.

Image Retention Policy

The use of 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.

Scripting

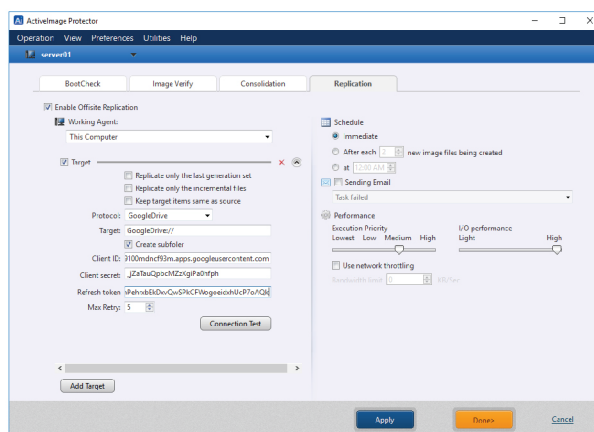
Scripts can be implemented to run before and/or after snapshots are taken or after the backup image has been created. An example would be to execute a user-specified script to purge database cache before taking a snapshot and resume database after taking a snapshot (before starting a backup task), a script to copy / edit the created backup image file, etc. Scripts can be implemented respectively for a base backup and incremental backup tasks.

Post-backup Process

Replication and Consolidation tasks upon completion of a backup task or at a specified time are available.

Offsite Replication supports cloud storages

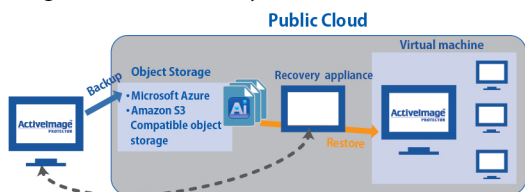
Replication target supports a local storage, a Network Shared folder, FTP, FTPS, SFTP, WebDAV, Amazon S3, Azure Storage, OneDrive, Google Drive, Dropbox.



Restore Features

In-Cloud-Recovery

Any backup image saved within cloud can be restored directly to a virtual machine within the same cloud environment (EC2, Azure). Data transmission within the same cloud environment and in the same region does not cost any.



Enlarge or reduce target volumes or partitions during recovery

NTFS volume may be restored to a volume in specified size larger or smaller than the source volume (NTFS volume only).

File Recovery feature

In the event of a system failure, as is often the case, you may only need specific files to restore in order to restart your duties. File Recovery feature allows you to restore a specific file or a folder from a backup image file on ActiImage Protector™'s GUI. Then, the stream information and access rights assigned to files, which Copy File feature of Mount Image often fails to recover, are inclusively restored.

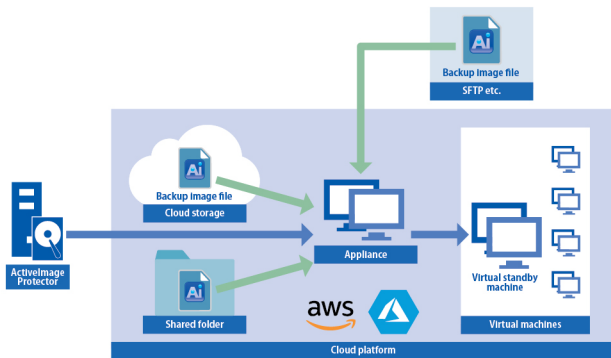
VNC on RescueBoot New!

The new VNC on RescueBoot feature enables system recovery in the event of emergency without the use of external device. VNC viewer is now provided to remotely operate RescueBoot boot environment. System administrator can now restore the failed system in RescueBoot via VNC instead of local PC.

Instant recovery solution

In-Cloud Standby™ (replicating virtual standby machine) feature **New!**

In-Cloud Standby enables to replicate virtual standby machine on cloud environment by using a backup image file located in a storage accessible from cloud environment.

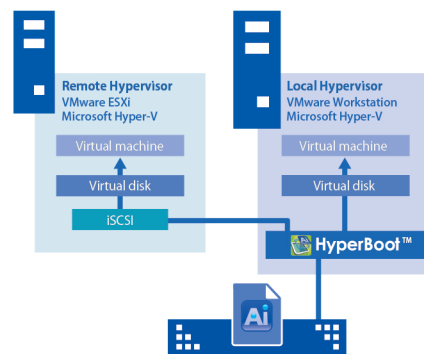


ReZoom™ it! offered for granular virtual machine recovery

ActiImage Protector™ offers ReZoom™ it! feature restoring a specific virtual machine included in a backup image of the entire Hyper-V host. ReZoom™ it! Migration tool enable to migrate a virtual machine to the same / different or a remote Hyper-V host. ReZoom™ it! can be installed as a stand-alone application and is useful for migrating a virtual machine to a different host.

HyperBoot™ add-on to immediately boot backups images as virtual machines

Use our free HyperBoot™ add-on to boot ActiImage Protector™ backup mage files as a fully functional virtual machine in only a few minutes in local and remote Microsoft Hyper-V, VMware ESXi, VMware Workstation Pro / Player, Oracle VirtualBox. HyperBoot™ serves as an interim replacement server to bridge the gap between disaster and recovery. Using VMware vMotion streamlines the recovery process by seamlessly migrating live virtual machines booted in vCenter to a hypervisor in a production environment.



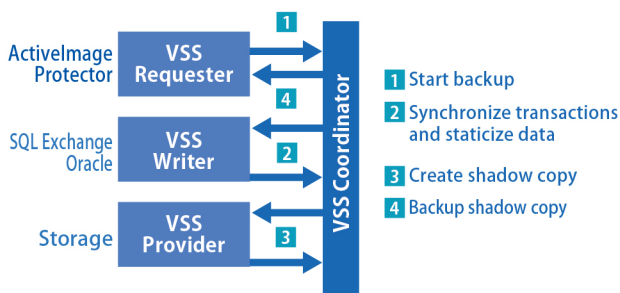
Snapshot Driver

Standard Snapshot Driver (Volsnap)

ActiImage Protector™ uses Microsoft's standard Volsnap snapshot driver. No additional drivers need to be installed.

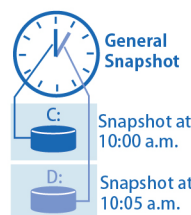
Backup of VSS-aware server applications

Create consistent backup of Microsoft VSS (Volume Shadow Copy Service)-aware server applications such as SQL Server, Exchange Server and Oracle.

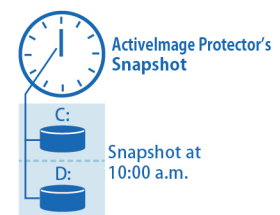


Point-in-time multi-volume snapshots

ActiImage Protector™ offers superior recoverability of databases spread across multiple volumes by taking a point-in-time snapshot of all volumes at the same time, thus ensuring consistency and recoverability. If database spanning across multiple volumes, backup by volume causes the inconsistency of the data in the backup images due to the difference in starting times between the backups. Restoring inconsistent backup images results in an inconsistent database. ActiImage Protector™ solves this problem by taking a point-in-time snapshot of all the volumes.



When the snapshot of database index file is created for every volume, the backup among volumes is not synchronized.

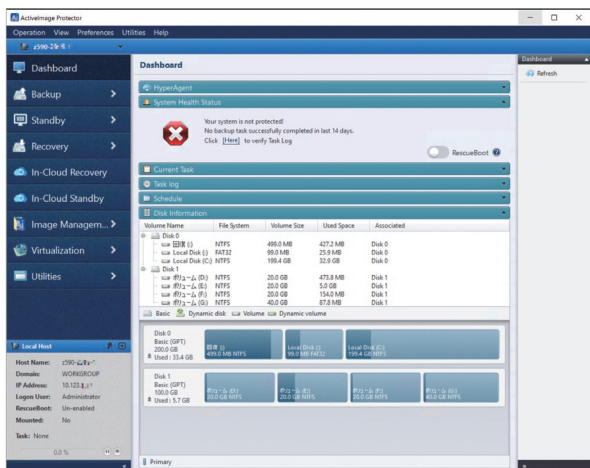


The snapshots of all volumes can be created at a time.

Operation

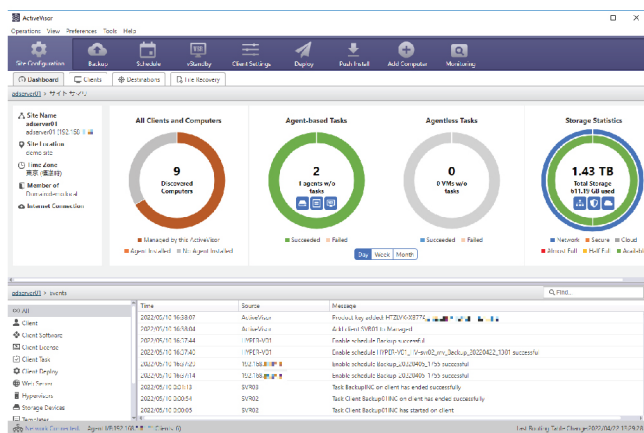
ActiImage Protector™'s GUI provides tools for efficient operations

ActiImage Protector™'s GUI provides dashboard window enabling real time monitoring of the status of tasks, logs, schedules and disk information. Backup / Restore wizards windows make the software operation more intuitive.



ActiveVisor, add-on Centralized Management Console for ActiImage Protector™

ActiveVisor™ provides a centralized management tool for ActiImage Protector™ by monitoring networked client computers on which ActiImage Protector™ agents are installed. Centralized management operation includes auto-discovery of managed computers, push-installing ActiImage Protector™ agents, creating and deploying templates of backup tasks / configuration files, real-time monitoring of backup status list, obtaining information of ActiImage Protector™ agents on managed computers / OS / hardware inventory, remote operation of ActiImage Protector™ agents, etc.



Client management console for easy administration of backup agents

The use of Client management console enables to manage ActiImage Protector™ agents installed on remote computers.

- You can monitor the status of remote agents over the network, start execution of backup tasks from console and establish connection to remote console.
- One-click offers execution of scheduled backup tasks on remote network computers.
- Free evaluation version of ActiImage software installed on remote network computers can be upgraded to a full product version from console.

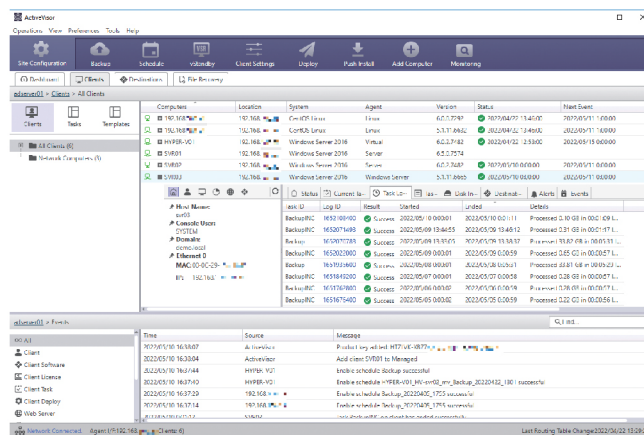


Image Management

Image Explorer

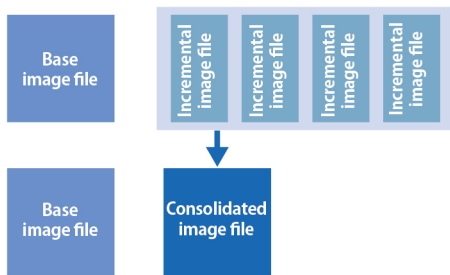
Installed as a Windows Explorer extension, Image Explorer allows you to browse and copy files and folders from ActiImage Protector™ image file without requiring a full image mount, saving your time and system resources. This will allow you to restore individual files or folder.

Image Mount (Granular File and Folder Recovery)

ActiImage Protector™ can quickly mount an image file as a drive, allowing you to extract any files or folders contained in the image file. When image file is mounted as a writable drive, the changes made on the drive will be saved as differential files.

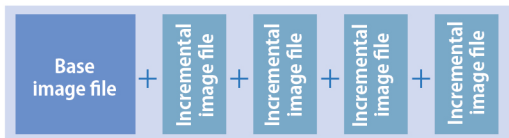
Consolidation of Backup Files

Consolidate incremental backups into a single incremental file to save storage space and for easier management.



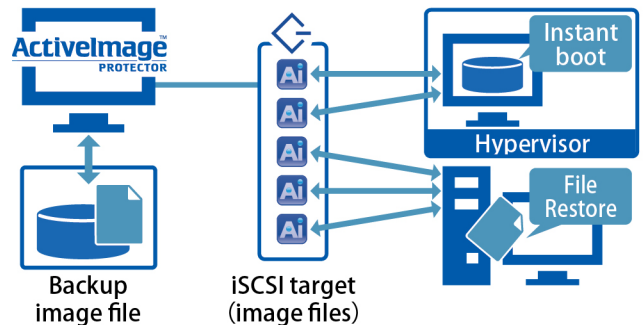
Archive Backup Files

Use the archive (unification) feature to unify a full base image file and all associated incremental files into a single backup file.



iSCSI Serves Backup Image Files as iSCSI Targets, NFS (Network File System) server

ActiImage Protector™ now utilizes iSCSI or NFS server to serve backup images as iSCSI targets to any local or remote iSCSI initiator for mounting backup images as local disks, or as NFS server to access backup images as VMDK file from NFS client; not only providing a method to recover files and folders from a backup, but provides immediate booting of a backup image attached to a virtual machine on hypervisor.



Others

Offers New Subscription License

Annual, three-year, five-year subscription and perpetual licenses are now available. Annual support contract fee will be deducted from the subscription fee.

*Annual support contract fee will be deducted from the three-year and five-year subscription fee.

The Installer enables to create MSI file

The Installer enables to create an MSI file containing the product key dedicated to auto-distribution via Active Directory's Group Policy.

Automatic backup at shutdown

Due to time constraints you might have missed the timing of backing up your system though you recognized the need. ActiImage Protector™ supports automatic backup when a machine is shutting down and you are leaving the office every day.

Monitor task log entries in Windows Event Log Viewer

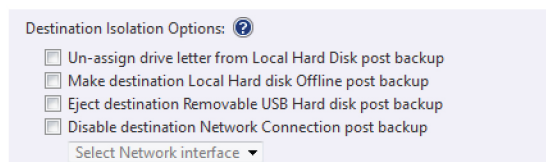
Every task events are now recorded in the Windows event log to provide better integration into the Windows Management Interface for a more unified experience.


Email Notification

Email notification can be sent (using SSL/TSL) to an email address of your choice. Notifications include successfully completed backups, backup failure, or in the event that ActiImage Protector™ encounters an error, a restart or failure. Email notification may be set to inform you of the summary of task execution and license status (expiration of the license period).

Upon completion of backup task, protect the destination (Destination Isolation Option)

Our Imagelolate™ technology reduces potential malware or ransomware attacks by disconnecting access to a backup storage drives after backups complete.



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