

# ActiveImage<sup>TM</sup> 2022

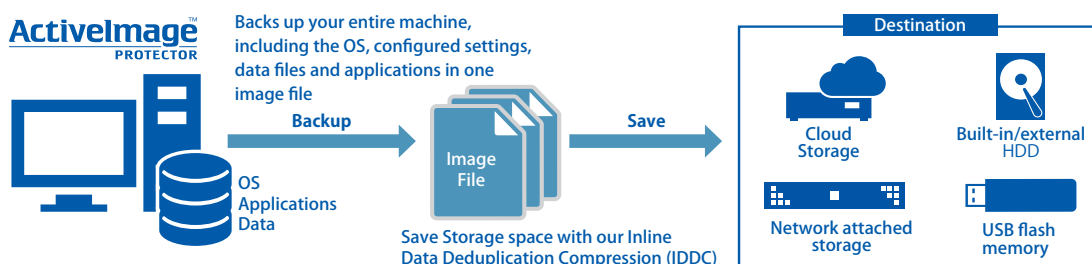
## PROTECTOR

## Server

### What is ActiveImage Protector<sup>TM</sup> ?

#### Backup Solution

ActiveImage Protector<sup>TM</sup> is an image based backup and recovery solution that supports a variety of physical and virtual Windows and Linux environments. ActiveImage Protector<sup>TM</sup> uses the latest sector-based technology to back up your entire hard disk, including the operating system along with all your applications and data. The backups are saved to any available storage location, including local hard disk, USB memory, network storage such as NAS, etc.

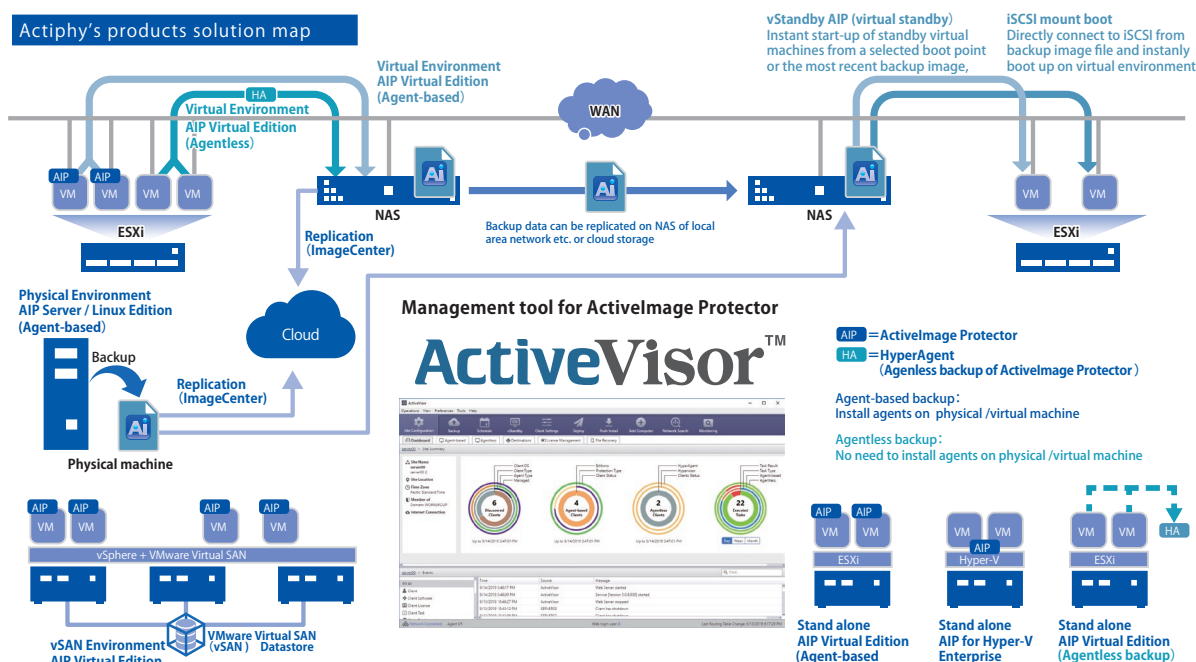


#### Ensure full-state recovery

ActiveImage Protector<sup>TM</sup>, a disaster recovery solution, is designed to provide “a fast and successful recovery”, and is useful for disaster recovery. Recently an increasing number of business institutions have introduced some sort of backup system offering a disaster recovery solution in the event of natural disaster or virus attack. On the other hand, many of them have experienced issues that “the system recovery never completed or took lengthy time” or “the restored system never boots up” in the event of a system failure which may lead to a business continuity crisis. ActiveImage Protector<sup>TM</sup> backs up your entire hard disk including the operating system in a single operation. In the event of a hardware failure of the backup source machine, the system can be restored to a different physical machine or a virtual machine. Immediate start-up of a virtual machine from a backup image file enables you to resume the server operation.

#### Central management console

ActiveVisor<sup>TM</sup> now includes a central management console enabling to manage and monitor ActiveImage Protector<sup>TM</sup> agents installed on backup clients, modify the configured settings, etc. Web browser-based console is also provided to connect and manage “ActiveVisor<sup>TM</sup> agents” from any location.



## Backup Features

### Image file based backup

ActiveImage Protector™ backs up your entire machine, including the OS, configured settings, data files and applications in one image file. When disaster strikes, select a backup image to quickly restore for a fast and complete recovery.

### Hot-Imaging backup for live Windows machines

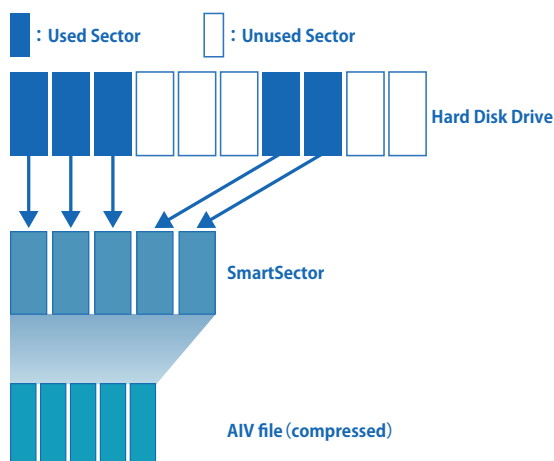
ActiveImage Protector™ backs up your entire machine, including the OS, applications and data files, while the machine is active and running without stopping the services including database or open files using Microsoft's advanced VSS (Volume Shadow Copy Service) technology embedded in Windows servers to ensure ultra-reliable backups. 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.

### Cold-Imaging for Windows machines

ActiveImage Protector™ may be booted from the product media to run in Windows PE. This enables to create a backup image of a clean static Windows server or workstation (immediately after installation of Windows). Cold-imaging backup saving the point-in-time state of the failed system is convenient to examine the cause of the system failure.

### Faster and smaller backup with Smart Sector technology

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



### Encryption of Backup Images

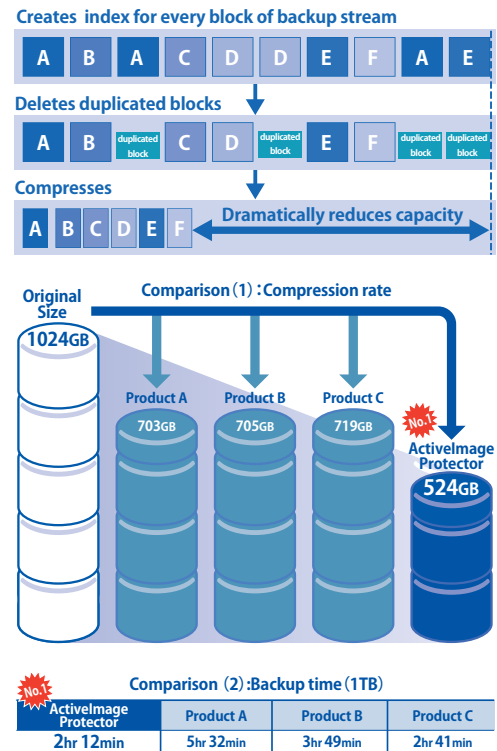
ActiveImage Protector™ can create password-protected and encrypted backup images and supports up to 256 bit encryption.

### Bad Sector Skip

In the event of a corrupt or failing disk, ActiveImage Protector™'s Bad Sector Skip function will ignore bad or unreadable sectors, allowing you to back up and recover data in the remaining good sectors.

### 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 backup 11.7 TB data).



### Fast Incremental Backup

Incremental backup includes only sectors that have changed from the last backup. When restoring the system, you need to have the backup file set including the base backup image file and the associated incremental chain to the recovery point. The incremental backup saves both process time and storage space.

Base Backup			
	1st incremental file		
		2nd incremental file	
			3rd incremental file

### CBC (Changed Block Comparison™) Technology

Actiphy's proprietary Changed Block Comparison™ (CBC) technology comprehensively analyzes a volume's file system and identifies changed blocks that need backing up. Since CBC is installed as a program instead of a filter driver, incremental backup of CSVFS (cluster shared volume file system) as well as NTFS volumes is supported. System restart is not required upon completion of the installation or update of the program. Clustered Shared Volume File System (CSVFS) incremental backup chains can be continued even if the primary or control node fails or changes.

### USB SmartDetect™

Automatically detects when your USB backup disk is not connected and will prompt you to resume your backups once the disk is reconnected. Even when multiple USB hard disks are specified as the destination to save backup images, USB SmartDetect feature can be enabled.

### Smart Sector backup of Linux Ext 2 / 3 / 4 from Windows

In a Windows / Linux multi-boot environment, AIP's Smart Sector Technology can back up both Linux (Ext 2, Ext 3 and Ext 4) and Windows partitions from Windows.

### Command line execution support

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

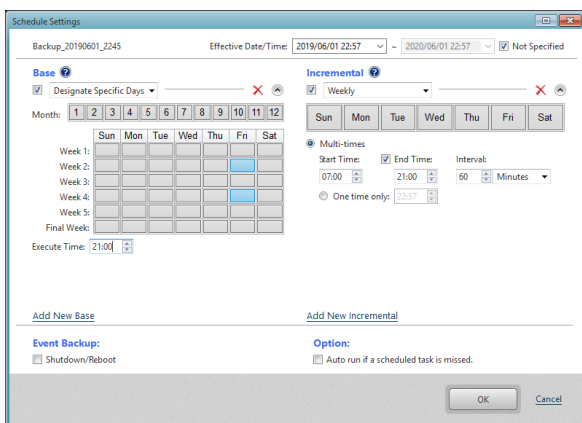
### A variety of Storage Media are supported

Save your backups to any available storage location, including NAS, SAN (fibre channel), USB, eSATA, network shared folders, etc.

## 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. You are provided with the options including Retention Policy enabling to keep only pre-defined number of backup image generation sets for storage space saving, USB SmartDetect™ detecting disconnected USB backup disk and resume skipped backups once the disk is reconnected, etc.

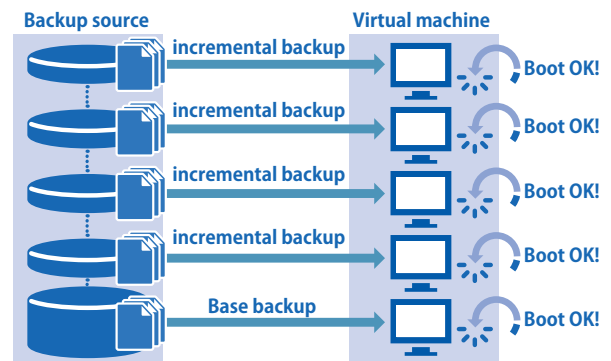


### Post-backup Process

Runs BootCheck™, Replication and Consolidation tasks upon completion of a backup task or at a specified time.

### BootCheck™

BootCheck™ provides confidence that your backup images are bootable on local or remote Hyper-V host. BootCheck™ boots up a virtual machine directly from a backup image file for quick bootability check, minimizing the resource consumption and start-up time. You can manually select ActiveImage Protector™ backup image for bootability check from the console at any timing.



### 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. Retention Policy may be enabled to manage how many sets of base and incremental backup files to retain before deletion.

### Flexible Multi-Scheduling Feature

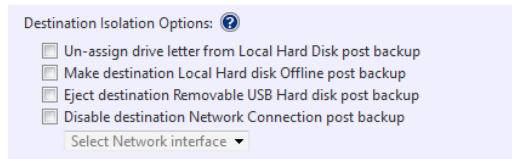
Multiple schedules can be defined for individual backup tasks. For example, you can create a new full backup each month for an ongoing Weekly Schedule backup task.

### Automatic backup at shutdown

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

## Destination Isolation Option

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



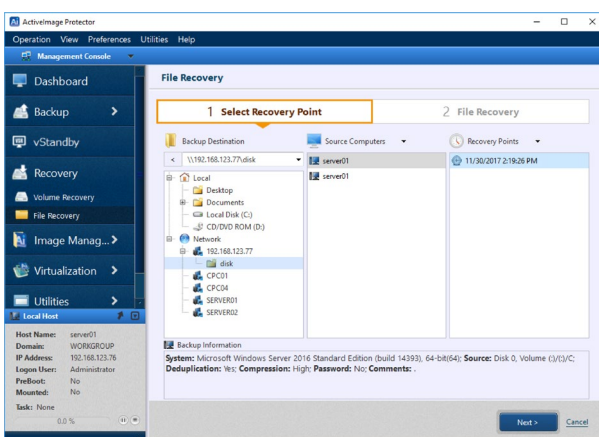
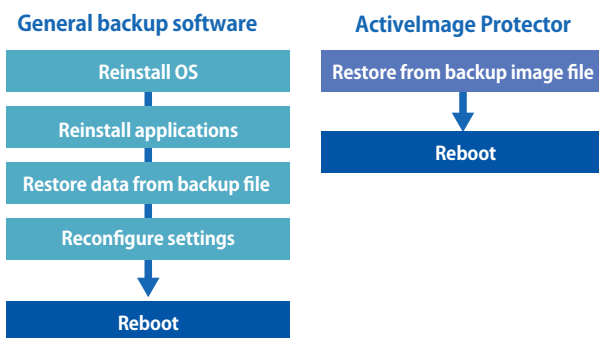
## Scripting

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.

## Restore Features

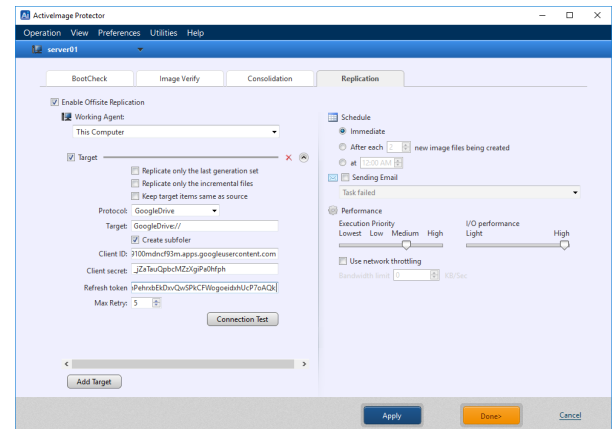
### Fast and full-state recovery from disk image-based backup

In the event of a system failure due to hard disk failure, the traditional lengthy recovery process involved the reinstallation of OS and applications, data recovery, etc. ActiveImage Protector™ is a sector-based disk imaging backup/recovery solution and the built-in wizards guide you through every steps to perform required



## Cloud Storage Services are supported (Offsite Replication)

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



operations for recovery from the backup image file. Select the most up-to-date incremental backup file and your system is restored to the most updated state.

### Fast Bare Metal Recovery

ActiveImage Protector™'s lightning-fast restore engine dramatically speeds up recovery time. Bare Metal Recovery provides capabilities for initializing and creating partitions on the bare metal disk.

### File Recovery feature

In the event of 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 ActiveImage Protector™'s GUI. Then, the NTFS streams information and access rights assigned to files, which Copy File feature of Mount Image often fails to recover, are inclusively restored.

### Linux Based Recovery Environment

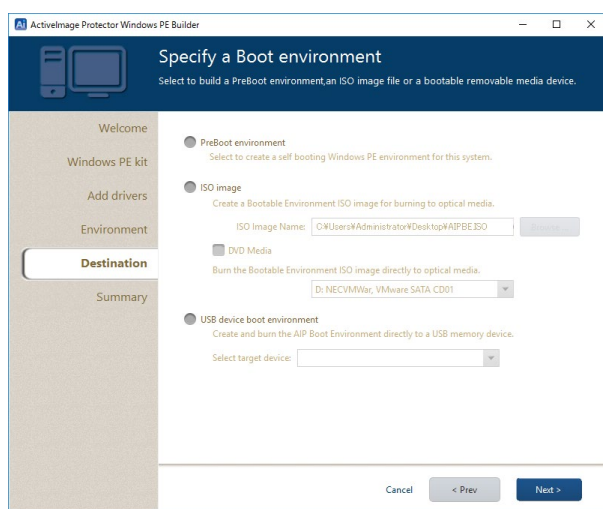
Perform faster disaster recovery and cold back-ups with ActiveImage Protector™'s Linux based boot environment (AIPBE) on DVD. AIPBE is built based on CentOS. This enable to recognize the latest device to use.

### Windows PE Based Recovery Environment

ActiveImage Protector™ includes a Windows PE based boot environment builder that uses Windows AIK or ADK.

## Boot from USB flash memory, USB hard disk drive, optical media or ISO file

ActiveImage Protector™ comes with boot environment builder for creating bootable media by selecting USB flash memory, USB hard disk, ISO image file or optical media as well as the product media. Boot Environment Builder allows you to add a specific device driver in the bootable media, if you use a hardware of which driver is not included in the product media. If your note PC does not come with an optical media drive, the use of bootable USB flash memory or USB hard disk drive offers bare metal recovery option. Bootable USB hard disk drive may provide you with a partition allocated for saving user data.



## Pre-Boot Recovery Environment

This feature creates a boot environment directly on your hard drive

on a tablet PC that does not come with an optical media drive or USB port, allowing you to boot the recovery environment without the need of an external device or optical drive (not available for the free version of Hyper-V Server or Server Core).

## Architecture Intelligent Restore

A.I.R.\* can restore virtual and physical machines from ActiveImage Protector™'s backup image files to different hardware. A.I.R. can also restore entire disks and/or selected volumes.

\*A.I.R. (Architecture Intelligent Restore) can restore and migrate virtual to / from physical machines.

## Repair Boot Configuration

Recovery of BCD in MBR is supported on boot environment. In case that you failed to back up boot partition in the partition table, or that restored "C:" drive alone failed to boot up the system, the use of "Repair Boot Configuration" tool enables to restore BCD for the restored system to be bootable.

## Shrink On the Fly

ActiveImage Protector™ provides Shrink on Restore for NTFS volumes. NTFS volumes can be restored to disk drives that are smaller than the original disk. The minimum requirement is that there is enough space on the smaller drive to restore the amount of actual data of the original volume.

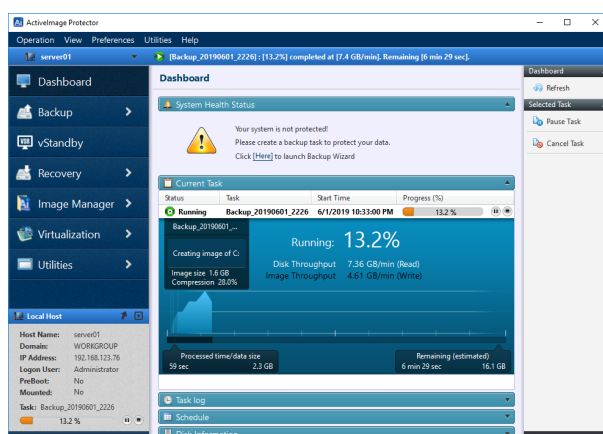
## Enlarge or reduce target volumes or partitions during recovery

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

# Operation

## New GUI provides tools for efficient operations

New GUI provides dashboard window enabling real time monitoring of the status of tasks, logs, schedules and disk information. Backup/Restore wizards windows makes the software operation more intuitive.



## Remote File Explorer

Built with File Explorer for selecting files/folders. Remote File Explorer allows you to browse files and folders from your image files in network shared folders on remote clients just in the same manner as on local computer.



## Snapshot Driver

### Standard Snapshot Driver (Volsnap)

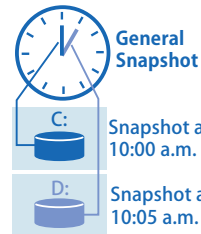
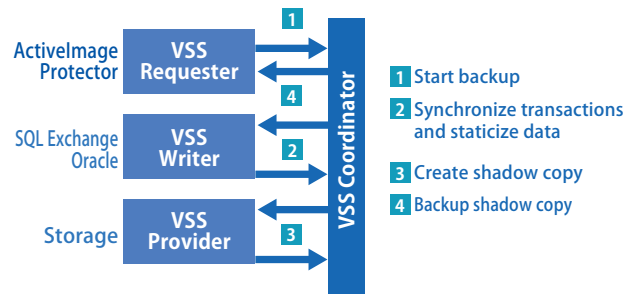
ActiveImage Protector™ uses Microsoft's standard Volsnap snapshot driver. No additional drivers need to be installed.

### Backup of VSS-aware server applications

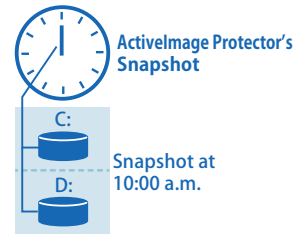
Create consistent backup of your VSS (Volume Shadow Copy Service)-aware server applications such as SQL Server, Exchange Server and Oracle.

### Point-in-time multi-volume snapshots

ActiveImage 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. ActiveImage 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.

## Virtual Environment Support

### Enhanced support for virtual environments (V2P, V2V & P2V)

ActiveImage Protector™ provides the virtualization from physical machines to virtual machines (Hyper-V, ESXi) or vice versa. The virtualization process includes the installation of the driver required for booting the virtual machine.

### Virtual conversion utility

Virtual conversion utility is provided to convert a backup image file to virtual disk bootable as virtual machine. Conversion to the latest virtual disk format, VMware VMDK, Hyper-V VHD, VHDX is supported.

### Virtualization Adapter

The driver for virtual machine can be injected into the current image file, which is saved as the differential file (.aix) of ActiveImage Protector™. The differential file may be restored to a virtual machine.

### P2V conversion directly to virtual environments

P2V conversion supports Hyper-V or VMware vSphere as the target host to create the virtual machine attached with a converted virtual disk, enabling to immediately boot up the virtual machine.

### P2V (physical to virtual) conversion directly from hard disk

P2V conversion feature supports direct conversion from a hard disk to a virtual disk bypassing P2V conversion from an image file which saves the process time.

### Support for P2V disk on Windows PE

Conversion from physical to virtual disk (conversion to virtual disk only) is supported in Windows PE-based boot environment.

## Image Management

### Image Explorer

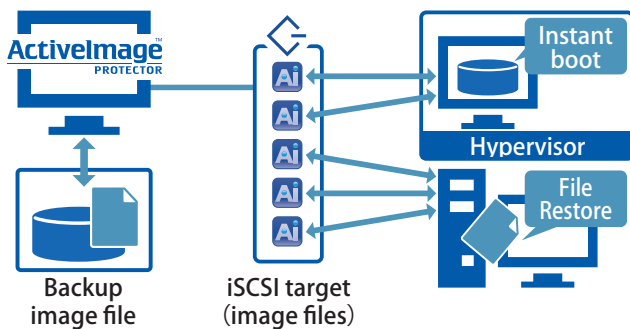
Installed as a Windows Explorer extension, Image Explorer allows you to browse and copy files and folders from ActiveImage Protector™ image file without requiring a full image mount, saving your time and system resources. This will allow you to restore individual files or folder.

### Image Mount (Granular File and Folder Recovery)

ActiveImage 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.

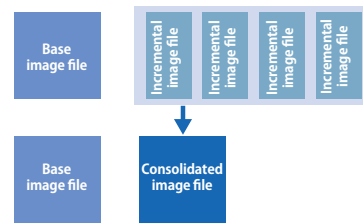
## iSCSI Serves Backup Image Files as iSCSI Targets

ActiveImage Protector™ now utilizes iSCSI to serve backup images as iSCSI targets to any local or remote iSCSI initiator for mounting backup images as local disks; 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. Additionally, using VMware vMotion streamlines the recovery process by seamlessly migrating live virtual machines booted from the iSCSI disk to a hypervisor in a production environment.



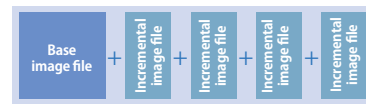
## Consolidation of Backup Files

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.



## Remote Management

### Push install for easy backup agent distribution

Push Install feature is designed to install ActiveImage Protector™ agents and console on remote computers over a network. Using the built-in Network Discovery feature, you can discover target computers and enter the product key for the selected installation package. You can also get a list of computers from Windows Active Directory or push install the programs to remote multiple computers.

### Client management console for easy administration of backup agents

The use of Client management console enables to manage ActiveImage 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 Actiphys software installed on remote network computers can be upgraded to a full product version from console.

## Instant recovery solution

### Creates virtual standby replica (VSR) (integrated with vStandby™)

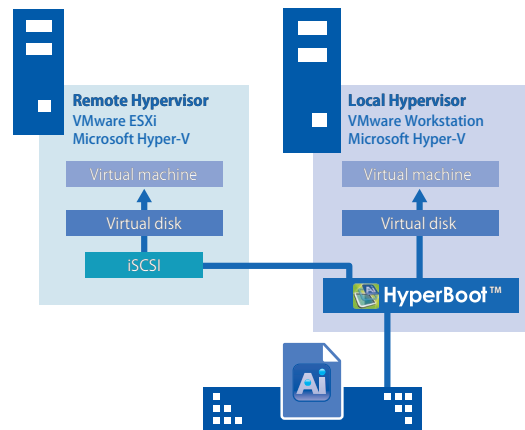
vStandby™, standby availability solution, was marketed separately from ActiveImage Protector™. ActiveImage Protector™ integrates its features to replicate your physical / virtual machines (virtual standby replica) directly to an VMware ESX/ESXi or Hyper-V host, up-dating boot points with scheduled incremental snapshots. When a disaster strikes, the virtual standby replica (VSR) can be instantly started (in two minutes according to our test result).

### vStandby AIP™ for Instant Disaster Recovery

Use our vStandby AIP™ solution in combination with ActiveImage Protector™ to create a standby virtual machine directly from your backup images. When disaster strikes, you can instantly boot a standby virtual machine from any incremental boot point made before the system crashed, bypassing conversion and recovery process – giving you true Instant Disaster Recovery!

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

Use our free HyperBoot™ add-on to boot ActiImage Protector™ backup image 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.



## Others

### Supports the latest version OS, uEFI compatible motherboard

The latest versions of Windows OS and Windows Server OS and Linux distributions are supported. Backup and recovery features support GPT disk in uEFI boot system.

### Supports the latest files systems

The latest file systems including ReFS (Resilient File System), CSVFS (Cluster Shared Volume File System), etc., and Storage Space, 4K sector disk are supported.

### Support for hardware RAID

Backup / recovery of hardware RAID is supported.

### 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.

### Enhanced License Management Feature

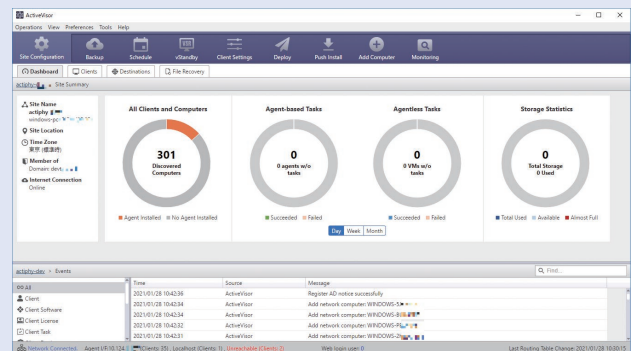
Supports ActiveVisor™'s license management. With no internet communication the enhanced license management feature allows the software activation, reviewing license information, the software update, etc.

### 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 AIP 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).

## Central Management Console "ActiveVisor™"

ActiveVisor™ provides a centralized solution for managing and monitoring ActiImage Protector™ clients. ActiveVisor™ collects data from remote clients (agent-based ActiImage Protector™ and agentless HyperAgent™) over network, provides graphical and statistic presentation of the data, monitors the status of ActiImage Protector™ clients / backup status / destination storage and deploys the backup task / schedule templates. ActiveVisor™ enables system administrators to manage and monitor ActiImage Protector™ clients from any location, reducing the burdens on the system administrators.



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A decorative graphic on the left side of the slide, featuring a blue and white geometric design with various icons (gear, envelope, refresh, people, atom, document, keyboard) connected by lines, suggesting a network or data flow.

# **ActiveImage**<sup>TM</sup> 2022

## PROTECTOR

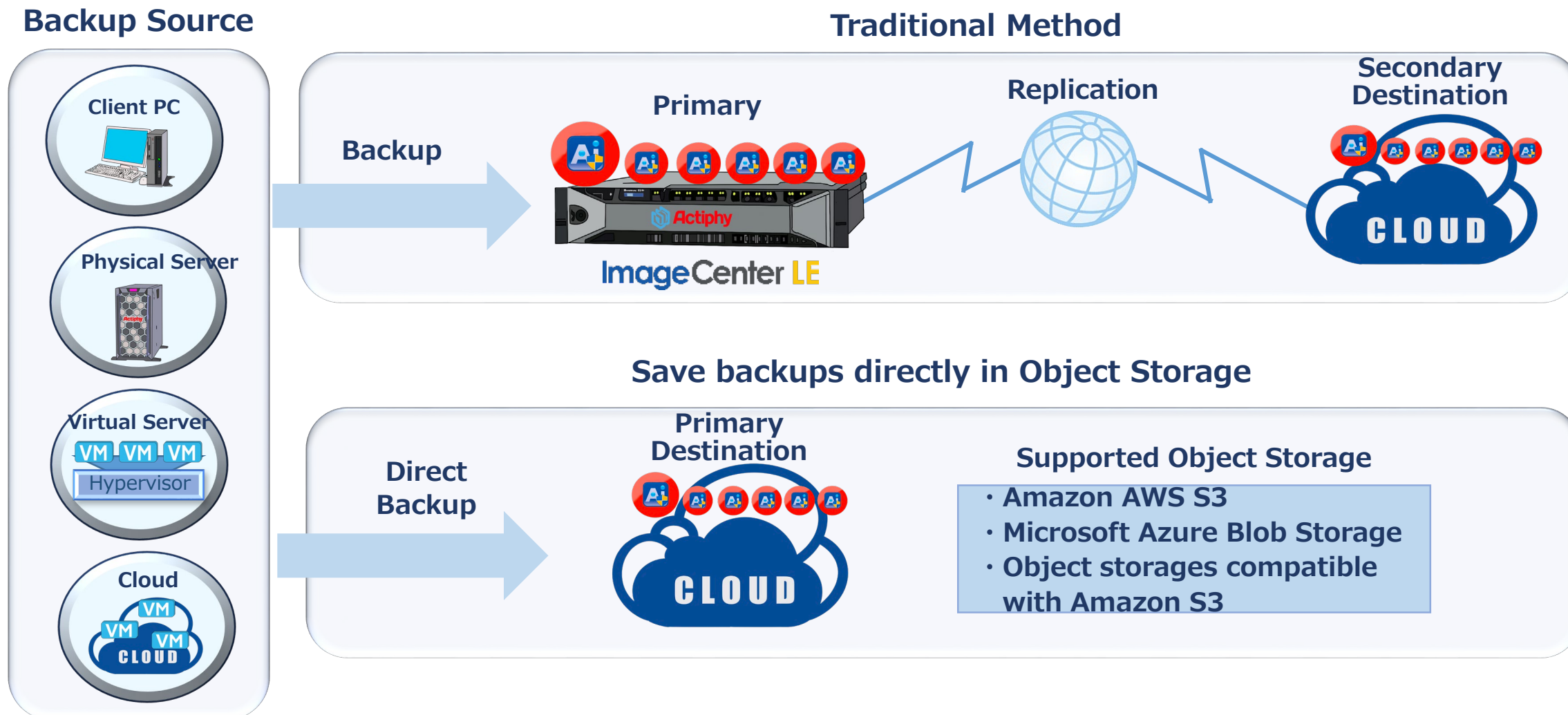
~ Summary of New Features ~

November 12, 2021  
Actiphy Inc.

## New System Protection Solution responding to the cloud computing era

- 1 . Support for Object Storage
- 2 . Support for Public Cloud Storage
- 3 . Support for LTO Tape Devices
- 4 . File / Folder Backup
- 5 . Support for SFTP
- 6 . Boot Environment Builder without the need  
for installation of Windows ADK
- 7 . Others

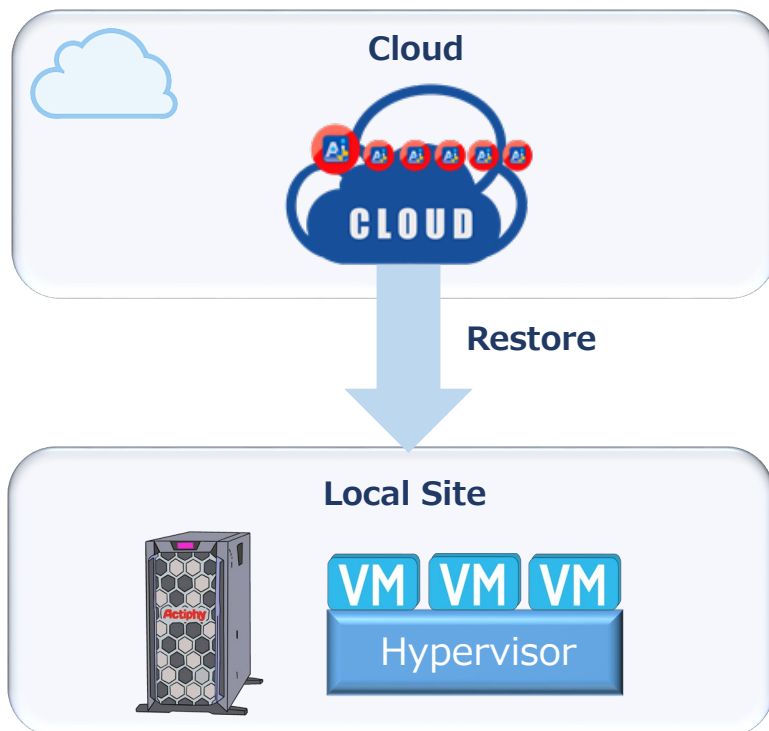
## Saves the created backups directly to Object Storage



## Flexible disaster recovery plan or disaster contingency planning using backups in the event of a server failure

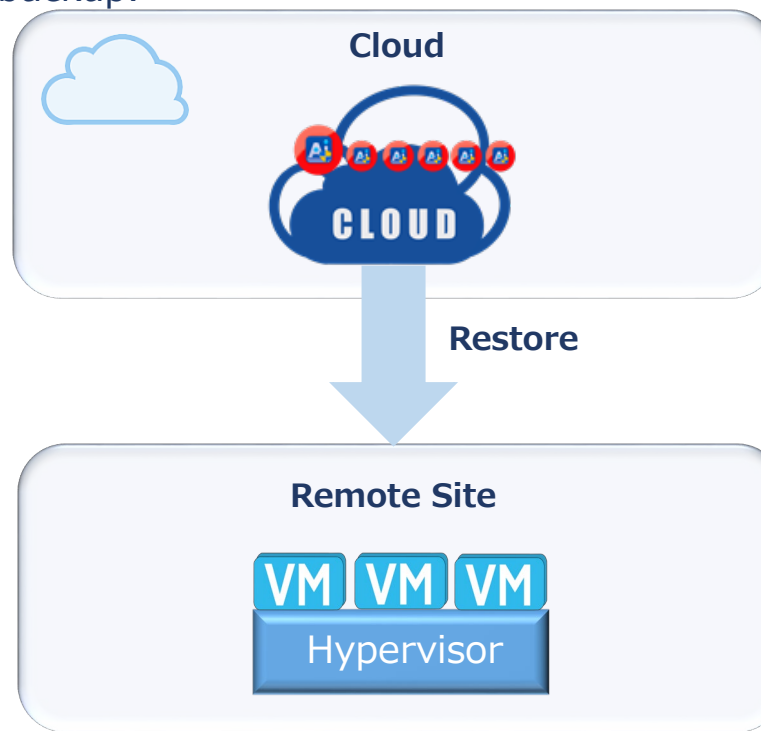
### Restore to Local Site

In the event of a server failure, restore from the backup of physical / virtual machine saved in cloud storage.



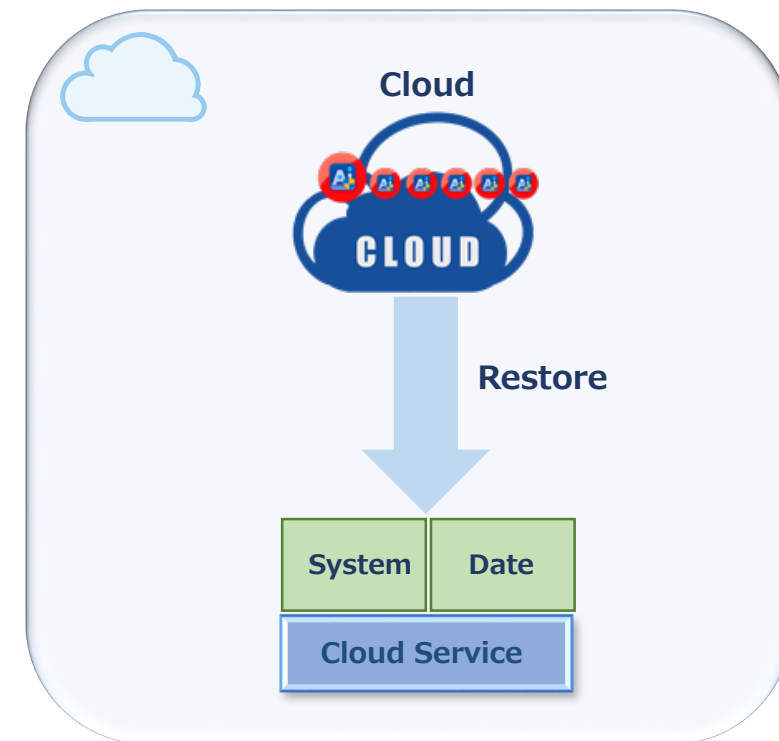
### Restore to Remote Site

In the event of a disaster, temporarily run spare-wheel virtual server on remote site and restore the crashed system from backup.



### Restore to Cloud Storage

In the event of a disaster, instantly start-up a standby virtual machine in cloud storage and restore the crashed system from backup.

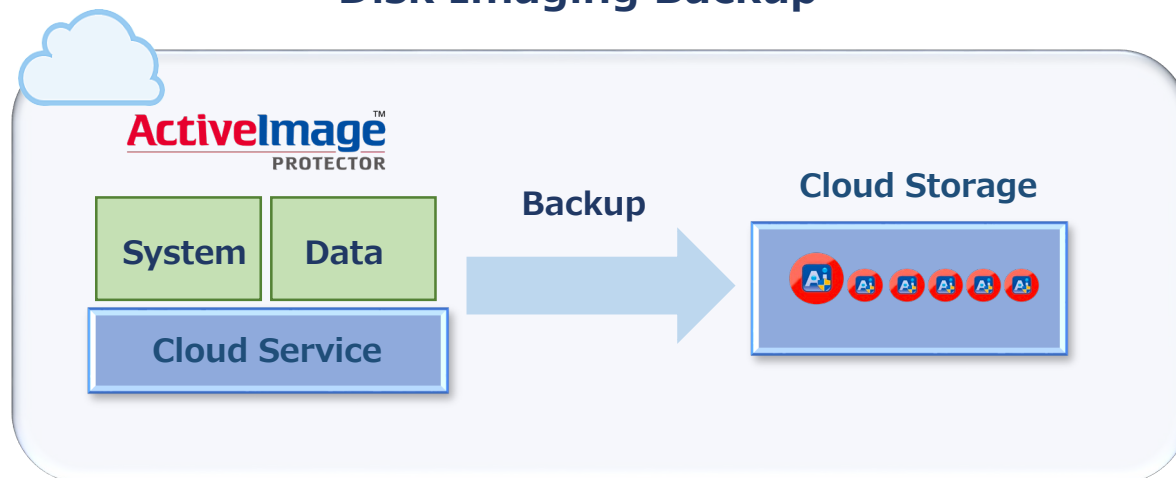


## Support for the Virtual Machines configured on Amazon EC2, Microsoft Azure

### Mostly the same operating procedures as backup of physical machines

Install ActiveImage Protector on virtual machines configured in cloud environment and perform disk imaging backup of the virtual machines by using mostly the same operating procedures as backup of physical machines. The created backup image files are saved in the same cloud region, directly to cloud storages e.g., Amazon AWS S3 and Microsoft Azure Blob Storage.

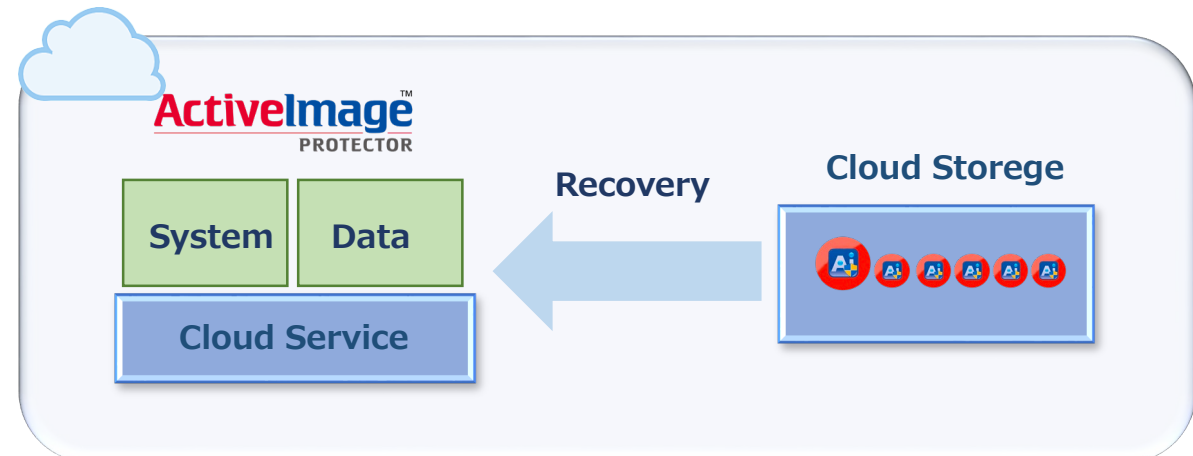
### Disk Imaging Backup



### Restore a virtual machine

The virtual machines configured in cloud environment can be restored from backup without the need for any extra operating procedures. ActiveImage Protector provides more flexible file / folder restore feature.

### Entirely restore the virtual machine from backup





## Backup and Disaster Recovery Solution Provider offers in-house developed New Backup / Restore Feature supporting virtual machines configured in Cloud Storage

### Newly in-house developed Restore feature supporting virtual machines configured in cloud storage

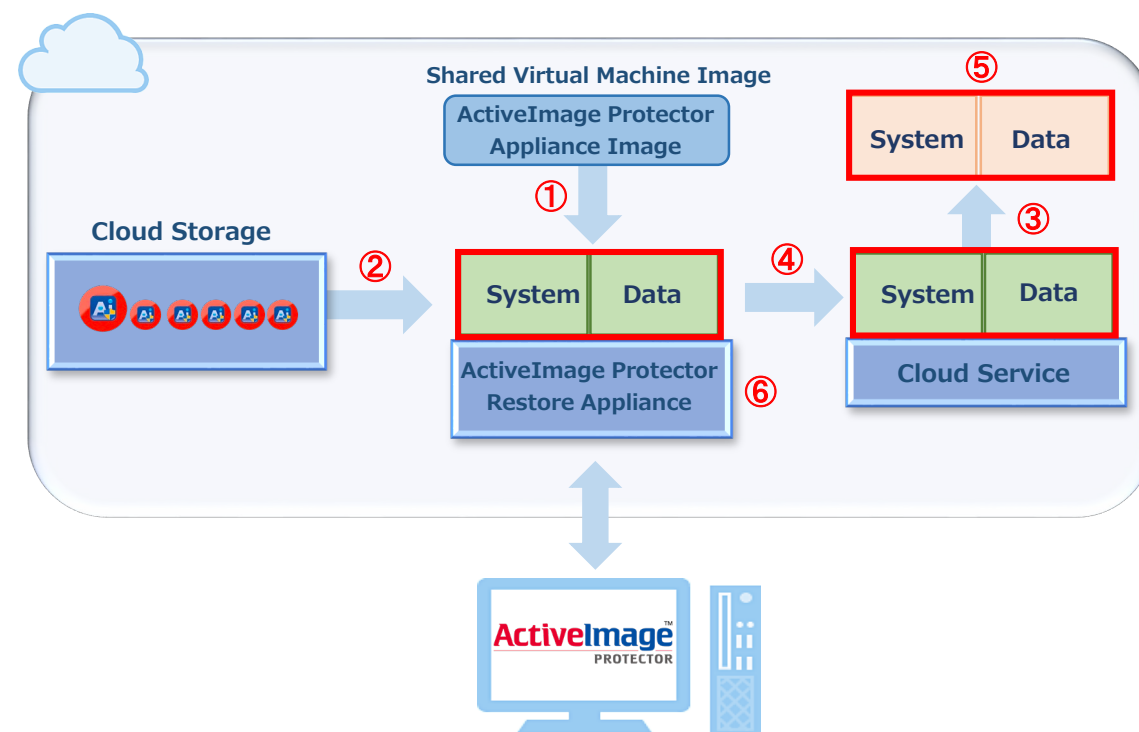
The backup image file located in the cloud storage can be restored to a virtual machine configured in the cloud environment, using the same operating procedures as restoring a workstation or server in an on-site environment.

1. **"ActiveImage Protector Appliance Image"**, shared virtual machine image is located in the respective regions in cloud environment.

#### 2. Internal processing of Cloud Restore

- (1) Temporarily boot up **"Restore Appliance"** from **"Appliance Image"**.
- (2) **"Restore Appliance"** creates virtual disk from backup.
- (3) Disconnect the virtual disk connected to the restore target virtual machine.
- (4) Connect the created virtual disk.
- (5) Delete the disconnected virtual disk. Otherwise, you can keep the disk.
- (6) End the temporarily running **"Restore Appliance"**.

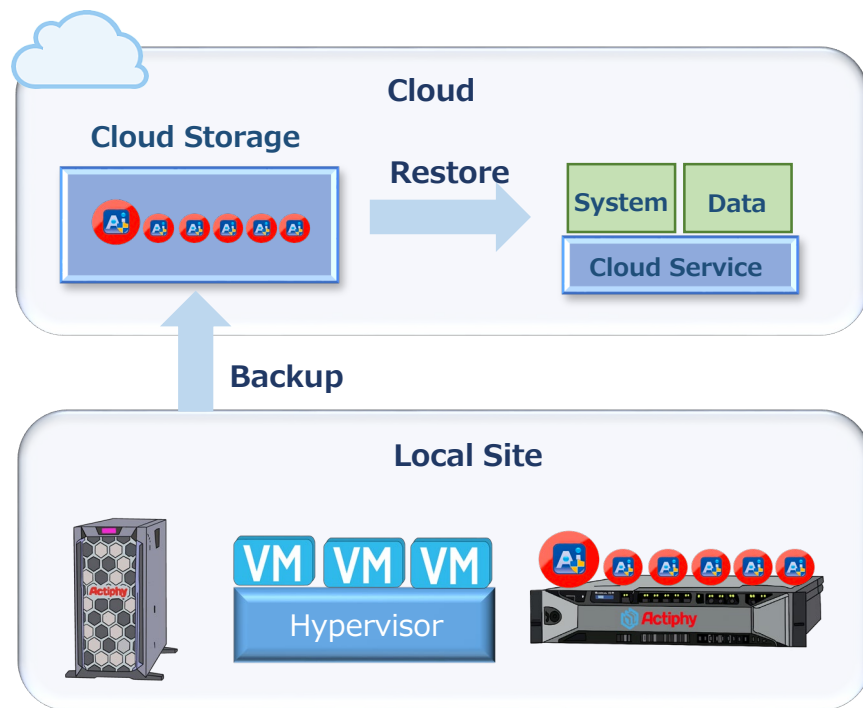
#### Internal processing of Cloud Restore



## Flexible restore from backups to different sites

### Restore backups of physical/virtual machines on local site to virtual machines configured on cloud environment

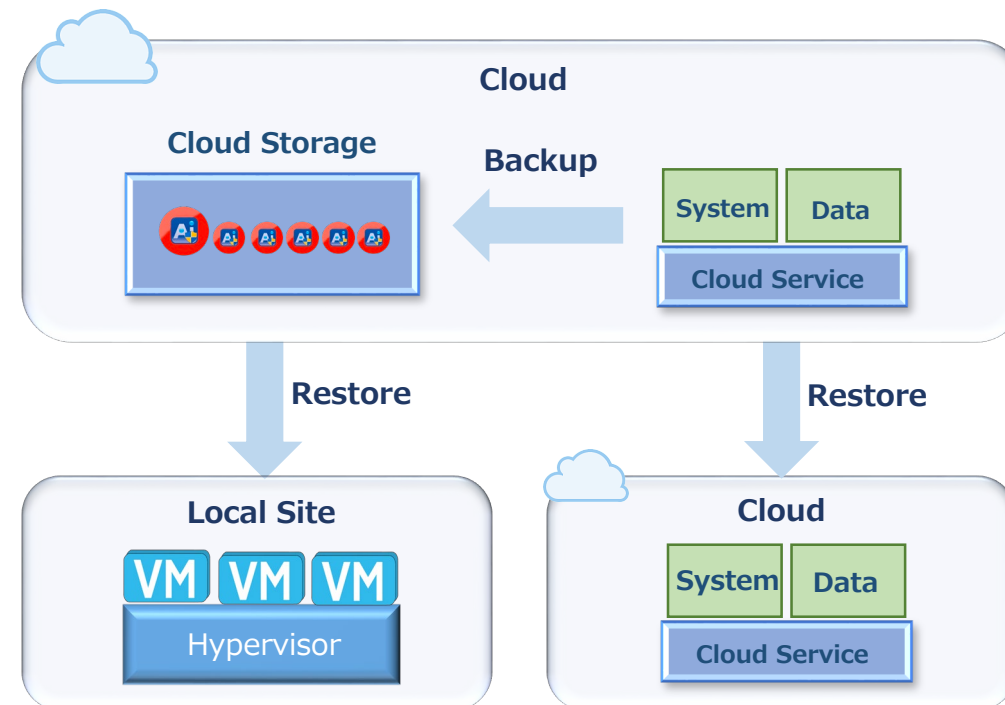
Restore from backups of physical / virtual machines on local site that are saved in cloud storage to virtual machines configured on cloud environment.



\* When migrating to cloud environment, you need to have ActiveImage Protector Cloud License.

### Migration from backups to on-site environment

Restore and migrate the virtual machine using backups saved in cloud storage to virtual machine on local site or different cloud environment.



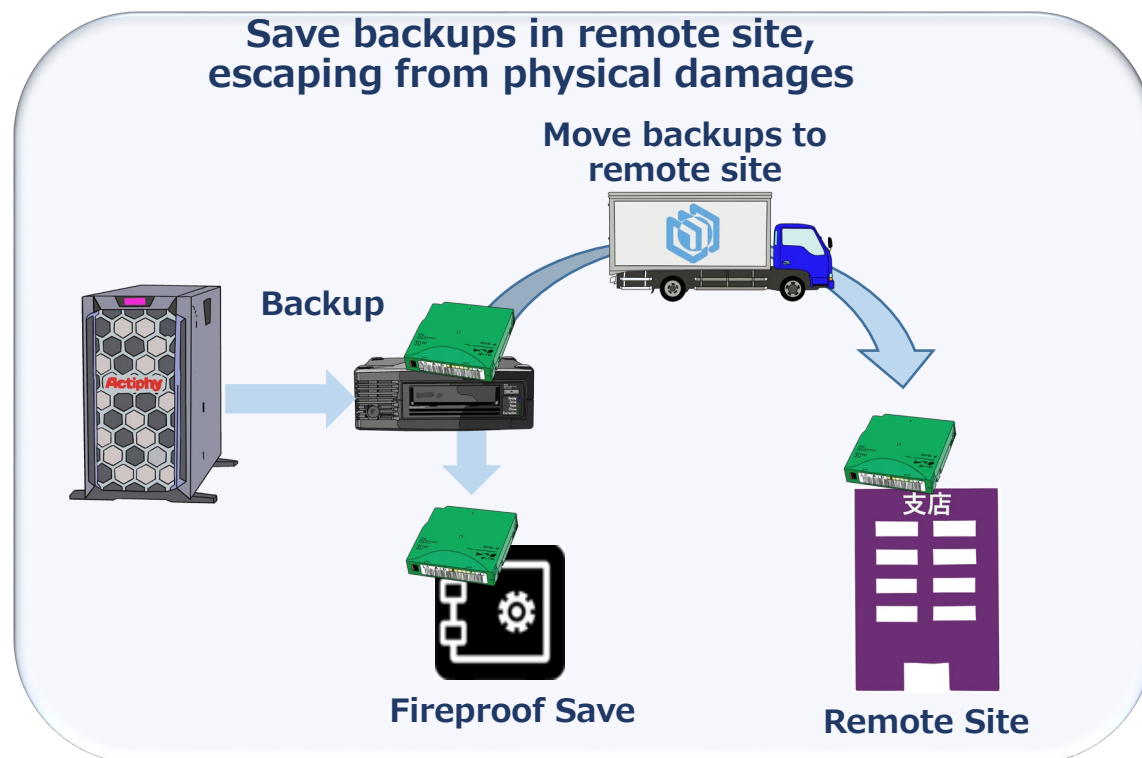
\* When migrating to on-site environment, you need to have ActiveImage Protector license for on-site environment

\* When migrating to cloud environment, you need to have ActiveImage Protector Cloud License.

## LTO Tape Device suited for backing up large data volumes

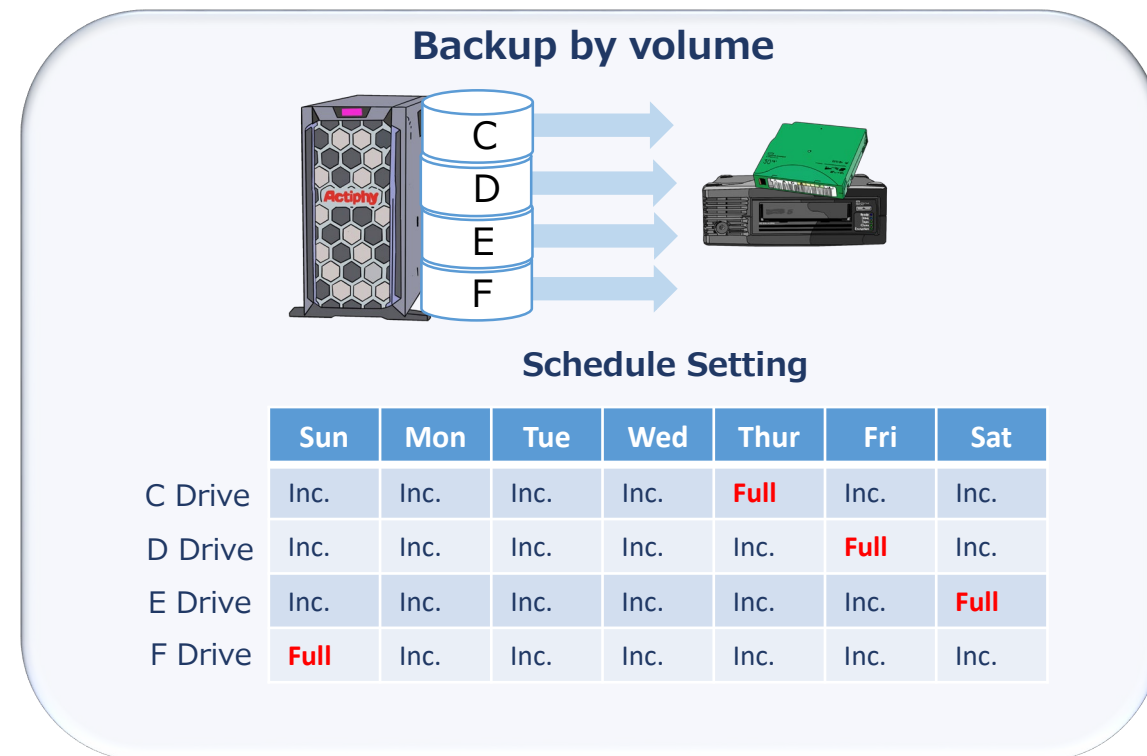
### LTO Tape-based backup provides security benefits

Backups can be directly saved in LTO Tape. Tape-based backup provides security benefits by saving the backup tapes in fireproof save or remote site.



### Backup by volume when taking full backup of large-volume data

When taking full backup of large-volume data, it takes lengthy process time. Solving the problem, the backup source may be split to take backups by volume.

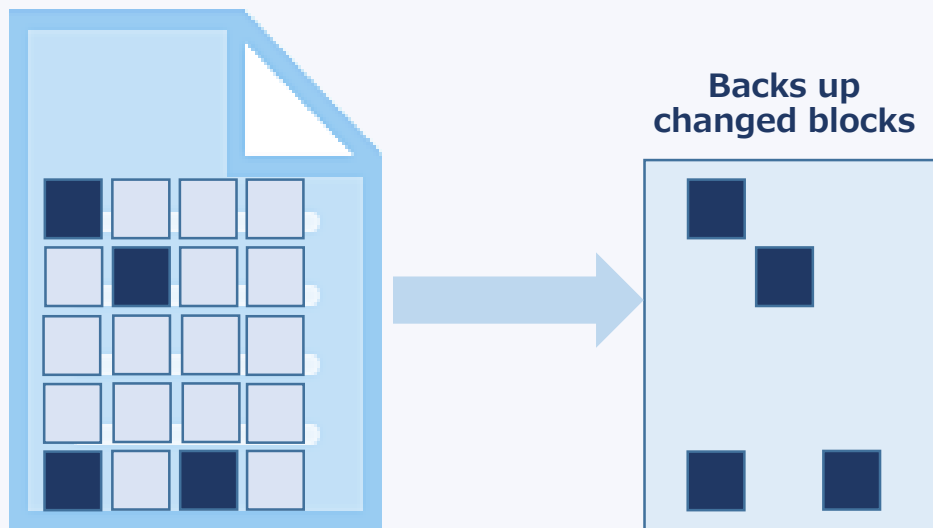


## New File / Folder Backup

### Only changed blocks are backed up in incremental backup

ActiveImage Protector's New File Backup feature does not simply make a copy of a file but detects the changes made in the file, so incremental backup of the changed blocks is created. As a result, backup storage requirements and backup time are significantly reduced.

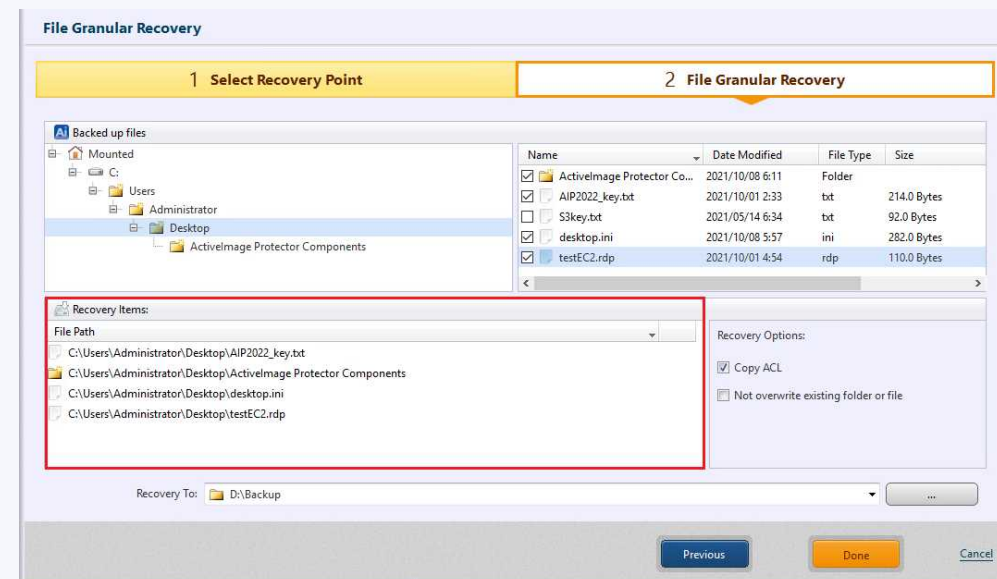
#### ActiveImage Protector provides New File Backup (Incremental Backup)



## Restore File / Folder

Select a backup and restore a file or a folder including permission information including access right and stream information.

### Select File / Folder to restore

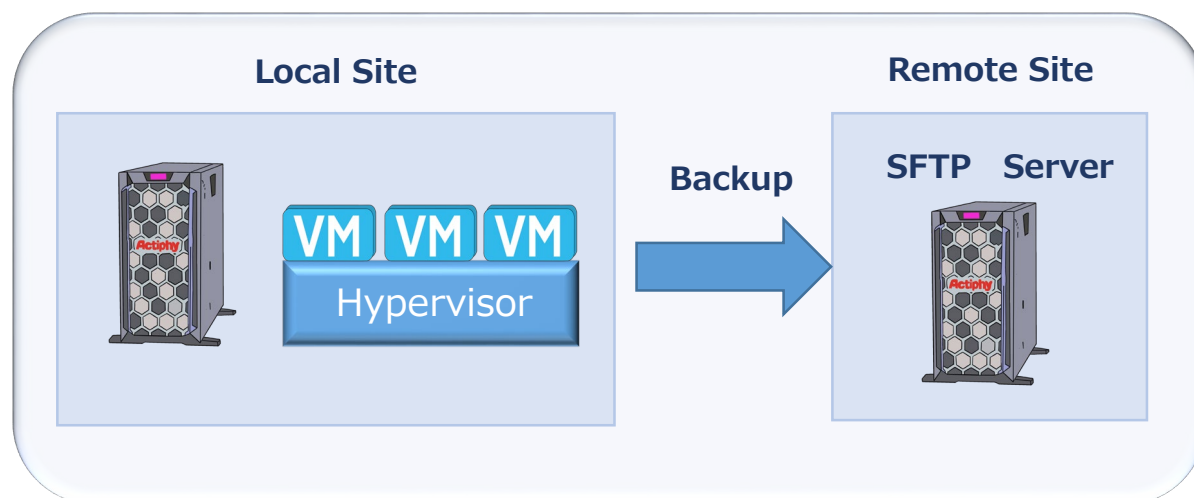


## Specify secure SFTP server as the destination storage for saving backups

### Support SFTP server as backup destination

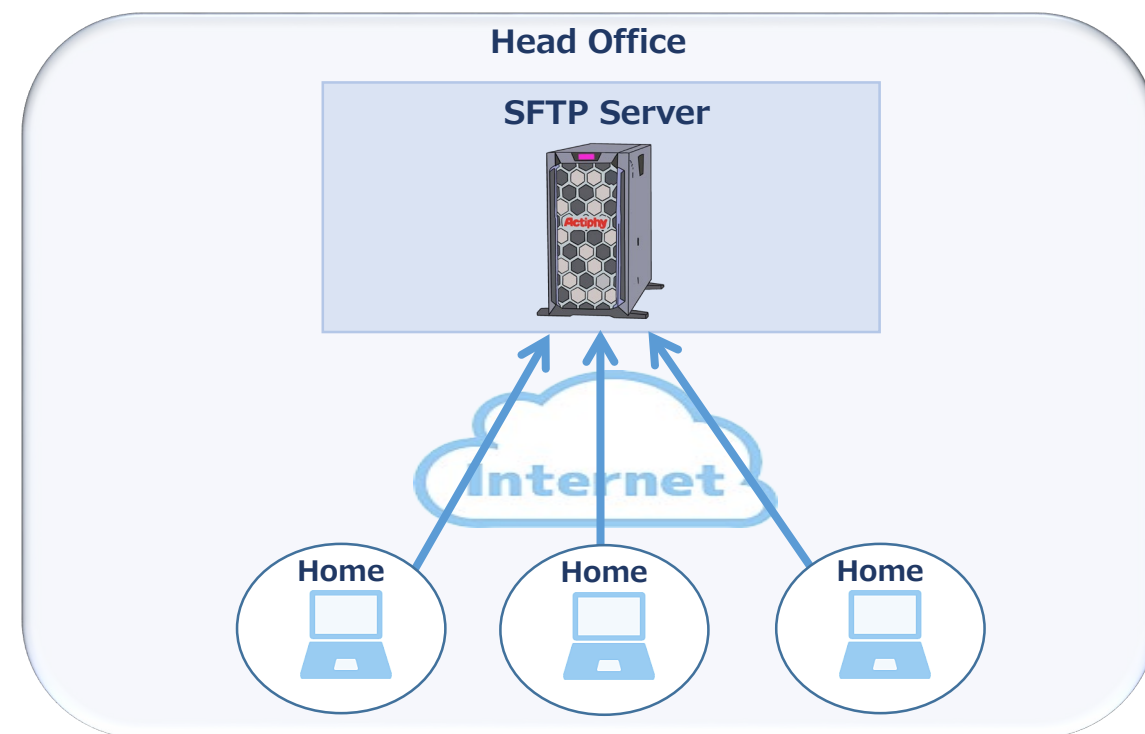
ActiveImage Protector 2022 supports the SFTP protocol enabling secure data communication. Backups are directly saved in a server supporting SFTP protocol.

Deployment of a server supporting SFTP in a remote on-site environment enables to save the backup image files directly to the server, without worrying about the cost of public cloud.



### Save backups of employees' home workstations in SFTP server

In the event of a system failure of an employee's home workstation, you may have to provide an alternate PC. Regularly scheduled backup of the home workstation by using ActiveImage Protector enables to restore the entire system and data.





## Improve the convenience for system recovery and reduce operating time


### Boot Environment Builder without the need for installation of Windows ADK

When using Windows-based boot environment builder, installation of Windows ADK or Windows PE is not required. The boot environment can be built based on Windows RE (recovery environment).

The drivers are automatically detected. Select the required driver to install, which improves the convenience of system recovery and reduces operating time for system engineers.

#### Windows-based Boot Environment Builder


##### Select Windows RE

 **Choose a tool**


Specify a tool to create at Boot Environment.

☒ Windows RE  
Use the Windows RE that is installed on this computer.

☐ Windows Assessment and Deployment Kit (ADK)  
Use the Windows ADK provided by Microsoft.

Please select... 

##### Select Device Driver

 **Add device drivers**

Specify any network and/or storage device driver(s) with the driver's media to include in the image.

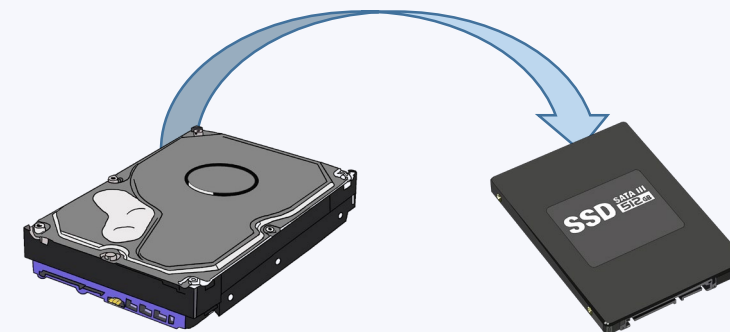
Manufacturer	Device Name
<b>Network Adapters</b>	
<input type="checkbox"/> VMware, Inc.	vmxnet3 ethernet adapter
<input type="checkbox"/> Intel Corporation	Intel(R) 82574L Gigabit Network Connection
<b>Storage Adapters</b>	
<input type="checkbox"/> LSI	LSI Adapter, SAS 3000 series, 8-port with 1068
<input type="checkbox"/> Standard NVMe Express Controller	Standard NVMe Express Controller
<b>Tape Drives</b>	
<b>Others Drivers</b>	

### Disk-to-Disk Copy

Disk-to-Disk Copy feature is now added back to offer greater flexibility and support migration of data from a hard disk to SSD, upgrading to a large-capacity disk, etc. Disk-to-disk Copy feature allows you to select the entire disk or a specific volume to copy, or copy in enlarged size. Data volumes from different disks can be flexibly combined using disk-to-disk copy for a new single disk.

#### Disk-to-Disk Copy

##### Migration of data from a hard disk to SSD



## ActiveImage Protector 2022 product lineup tailored to your system environments

### Physical Environment

#### Windows Server License

- **ActiveImage Protector 2022 Server**

#### Linux Server License

- **ActiveImage Protector 2022 Linux**

#### Windows Client License

- **ActiveImage Protector 2022 Desktop**

### Virtual Environment

#### On-site environment License

- **ActiveImage Protector 2022 Virtual**

#### Public Cloud License

- **ActiveImage Protector 2022 Cloud** **NEW**

#### Virtual Environment License (ex. KVM in on-site environment)

- **ActiveImage Protector 2022 Server vPack** **NEW**

### Cluster Environment

#### Microsoft MSCS/MSFC License

- **ActiveImage Protector 2022 Cluster**

#### IT Professional (\* 1)

- **ActiveImage Protector 2022 IT Pro**

#### Collaboration (\* 1)

- **ActiveImage Protector 2022 CLUSTERPRO**
- **ActiveImage Protector 2022 plus CLUSTERPRO X**
- **ActiveImage Protector 2022 Express5800/ft Server**
- **ActiveImage Protector 2022 Express5800/ft Virtual**
- **ActiveImage Protector 2022 Server RDX**
- **ActiveImage Protector 2022 Linux RDX**

\* 1 : To be released at reasonable timing.

**Amazon S3, Microsoft Azure, object storages compatible with Amazon S3 are supported as the backup destination cloud storage.**

**Backup/restore feature supports virtual machines configured on Amazon EC2, Microsoft Azure**

**Supports LTO tape device as the backup destination storage**

**File / Folder Backup**

**SFTP protocol is supported. Deployment of a server supporting SFTP enables to save the backup image files directly to the server.**

**Annual, three-year, five-year subscription licenses are now available.**

**Boot Environment Builder without the need for installation of Windows ADK**

**Windows Server 2022, Windows 11 are supported.**



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