

ActiveImageTM 2022

PROTECTOR

for Stratus

ActiveImage ProtectorTM for Stratus combines Actiphy's system protection disaster recovery solution with Stratus ftServer[®]

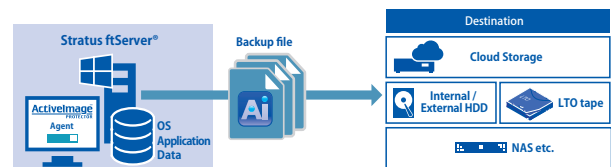
ActiveImage ProtectorTM for Stratus is a system and data protection solution for fault tolerant Stratus ftServers[®] and Stratus ztC EdgeTM. ActiveImage ProtectorTM for Stratus delivers a high-reliability solution backing up the entire physical host / virtual machine of Stratus ftServer[®] and virtual machine of Stratus ztC EdgeTM, providing a path to recovery in the event of natural disasters, cyber-attacks, malware, or human error.

The combination of Actiphy's disaster recovery software platform with Stratus[®] Technologies' fault-tolerant servers becomes the ultimate high-availability system. The supported models of Stratus ftServer[®] and Stratus ztC EdgeTM have been extensively tested and verified by both Actiphy and Stratus[®]. ActiveImage ProtectorTM for Stratus is available in the following editions.

ActiveImage ProtectorTM 2022 for Stratus ftServer[®] running Windows

- For Stratus ftServer[®] Windows models
- Backs up and restores live server
- Provides single file and folder recovery
- A variety of Storage Media are supported
- Flexible Multi-Scheduling Feature

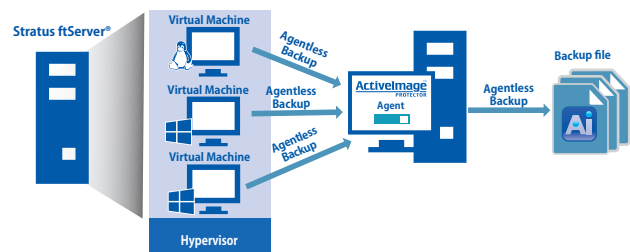
Supported models: 2920 / 4920 / 6910 / 6920



ActiveImage ProtectorTM 2022 for Stratus ftServer[®] running Hyper-V

- For Stratus ftServer[®] Windows (Hyper-V) models
- Backs up and restores entire live virtual machines
- Performs agentless backup of virtual machines
- Provides single file and folder recovery
- HyperRecoveryTM restores VMs directly from backup image files for immediate startup

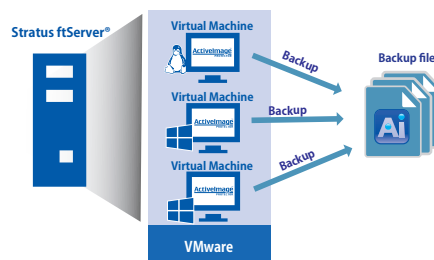
Supported models: 2920 / 4920 / 6910 / 6920



ActiveImage ProtectorTM for Stratus ftServer[®] running VMware

- For Stratus ftServer[®] VMware models
- Backs up and restores entire live virtual machines
- Performs agentless backup of virtual machines
- Provides single file and folder recovery
- Backs up and restores VMware vSphere ESXi hosts
- HyperRecoveryTM restores VMs directly from backup image files for immediate startup

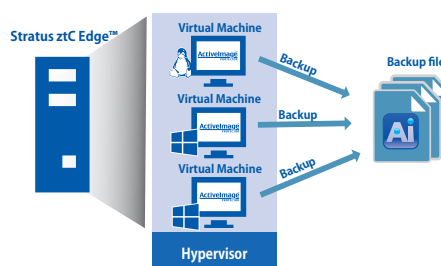
Supported models: 2920 / 4920 / 6910 / 6920



ActiveImage ProtectorTM 2022 for Stratus ztC EdgeTM

- For Stratus ztC EdgeTM models
- Backs up and restores entire live virtual machines
- Provides single file and folder recovery
- Mostly the same backup operation as traditional other physical servers

Supported models: 200i / 250i



Main Features of ActiveImage Protector™ 2022

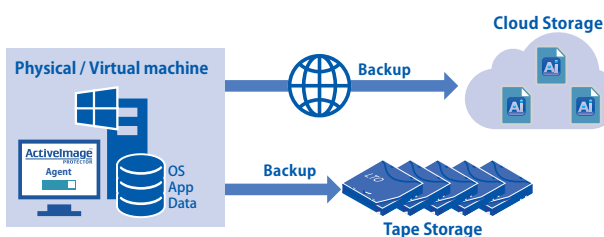
Contributes to substantially reduce RTO

- Lengthy physical formatting of restore target disk is not required
- The supported models were tested to ensure full-state and secure recovery
- Wizard-driven interface guides you through immediate recovery of the entire system

A variety of Storage Media are supported

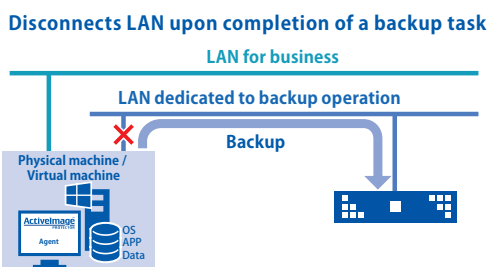
- Cloud storage, including Wasabi, Amazon S3, Azure Storage, etc
- LTO enabling offline storage
- Locally connected HDD, NAS, SFTP

* LTO tape is supported to use from "HyperAgent" installed on Windows physical server.



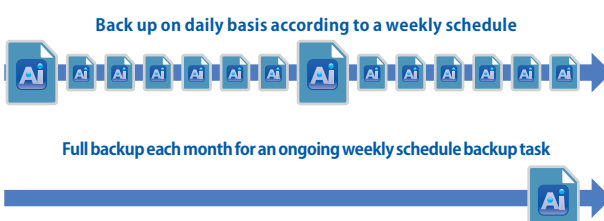
Safely protect backup files

- Disconnect access to a backup storage drives after backups complete (Destination Isolation Option)
- Replicate backup files to remote site (Offsite Replication)
- Encryption of Backup Images



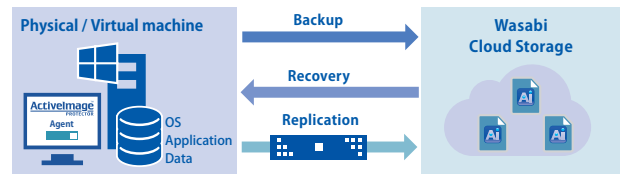
Flexible Scheduled Backup

- Backup tasks can be automatically executed according to the one-time, weekly, monthly or on a specific day of a week
- Multiple schedules can be defined for individual backup tasks
- Back up multiple virtual machines in one image file



Cloud Storage Wasabi with object lock is supported

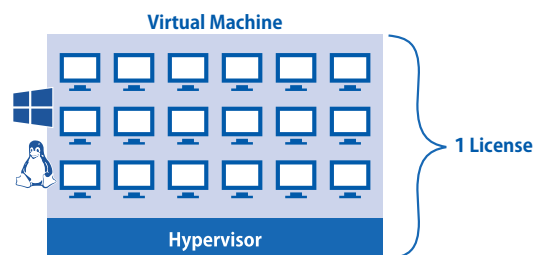
- A bucket enabled with object lock is supported as a storage destination
- The same features as provided for local NAS are supported
- Supported as offsite replication target



Cost-effective Virtual Environment License

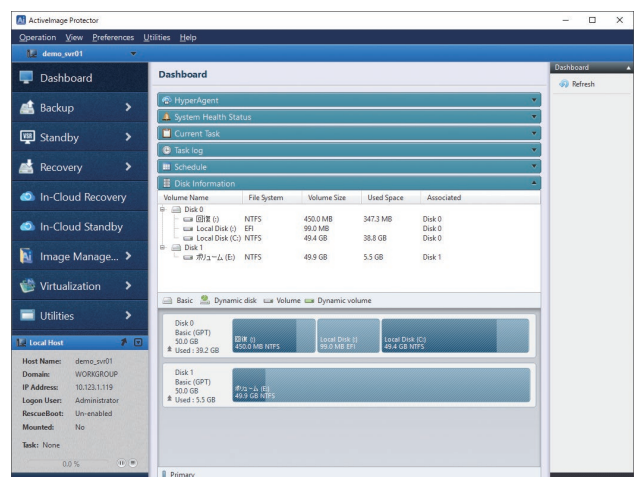
- No restrictions on the number of virtual machines running on a single validly licensed virtual environment host
- No restrictions on the number of CPU sockets or cores
- Agentless backup feature is supported to back up virtual machines (except for Stratus ztC Edge™)

* Virtual Environment License is applicable to the virtual environment of Stratus ftServer® Windows (Hyper-V), Stratus ftServer® VMware, Stratus ztC Edge™



GUI provides tools for efficient operations

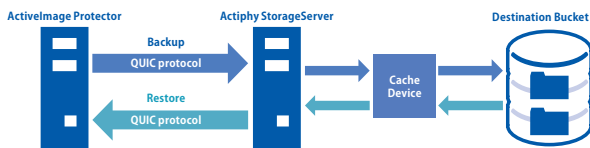
- GUI make the software operation more intuitive
- Wizard-driven interface guides you through backup / restore operation
- Remote console is provided to remotely manage clients



Backup Features

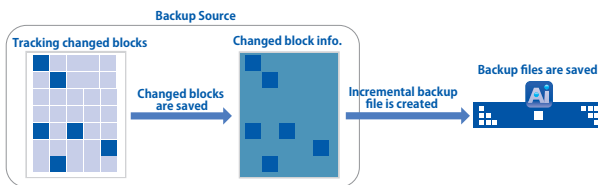
Actiphy StorageServer™ New !

Actiphy StorageServer™ option enables to build secured backup storage for exclusive use with ActiveImage Protector™. Actiphy StorageServer™, as an independent destination storage for backup, protects the backup image files from the attack of a ransomware. The use of new QUIC protocol for data transmission enables to transfer data more safely with high reliability and ensures the security for the communication path. Actiphy StorageServer™ is engineered to take advantage of cache device in storage server, delivering faster data transfer speed than the destination storage device, that secures stable backup process and speed.



New Tracking Driver New !

New Tracking Driver is provided to monitor disk I/O and tracking the changes made from the last backup. The changes are saved in an incremental backup file, saving backup process time. The use of the new Tracking Driver suppresses a slowdown of backup processing speed caused by the increasing number of incremental backup files. You can select change tracking mode not to use a tracking driver.



Back up the entire system of live Server

ActiveImage Protector™ quickly backs up the entire system of live physical host / virtual machine of Stratus ftServer® and virtual machine of Stratus ztC Edge™ to include the OS, applications, and data files to a disk image. When disaster strikes, select a backup image to quickly restore for a full-state and prompt recovery. The built-in wizards guide you through every step to ensure recovery from the backup image file. Use the File or Folder Recovery option to restore a specific file or a folder from a backup image file.

File Backup

ActiveImage Protector™ includes File / Folder Backup to back up granularly selected files and folders and provides File or Folder Exclusion configuration options and back up from a network shared folder.

Incremental backup saves process time and storage demand

Incremental backup saves only the blocks that have changed since the previous backup, substantially saving process time and storage demand.



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

Our ImageIsolate™ technology reduces potential malware or ransomware attacks to backup files by disconnecting access to backup storage drives over a network after backups complete. Four options are provided.

- Un-assign the drive letter from the local hard disk after completing the backup
- Take the destination local hard disk offline after completing the backup
- Eject the destination USB hard disk after completing the backup
- Disable the destination network connection after completing the backup

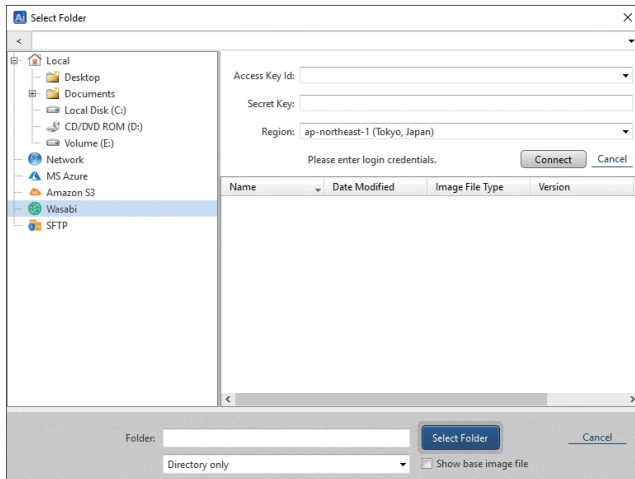
The screenshot shows the 'Destination Isolation Options' window. It has a checked checkbox for 'Destination Isolation Options:'. Below it are four radio button options: 'Un-assign the drive letter from Local Hard Disk after backup completes', 'Take the destination Local Hard Disk offline after backup completes', 'Eject the destination USB Hard Disk after backup completes', and 'Disable destination Network Connection after backup completes'. The last option is selected. Below these options is a dropdown menu labeled 'Select Network Interface' with a list showing 'Ethernet01' and 'Ethernet02'.

A variety of Storage Media are supported

Save your backups to any available storage location, including local HDD, NAS, SFTP server, LTO tape, and cloud storage services (Wasabi, Amazon S3, Azure Storage, S3 compatible object storage), etc., using a variety of system configuration and backup policies.

Wasabi with object lock is supported

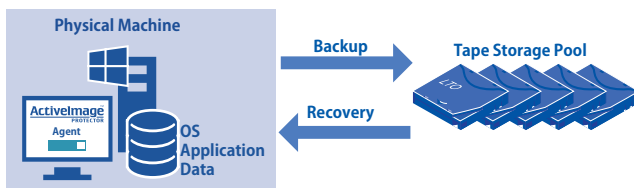
A bucket enabled with object lock in Wasabi Hot Cloud Storage is supported as a storage destination. Source backup images in Wasabi Hot Cloud Storage and NAS are supported for restore. Save your large volume backup data in cost-effective Wasabi Hot cloud storage to further secure your data by isolating the backups from a cyber attack.



LTO Tape Support suited for offline storage

The Tape Manager feature in this update provides enhanced operation of the tape pool and library. When backups are directed to LTO tape with insufficient available space, the LTO tape is replaced with another to continue backup operation. Should a disaster occur, a backup from the LTO tape is used to restore the system.

* LTO tape is supported to use from "HyperAgent" installed on Windows physical server.



Back up Stratus ftServer® VMware host (Cold Imaging)

Start up your computer from ActiveImage Protector™'s Linux-based bootable media to create a backup image of a clean static system volume of Stratus ftServer® VMware host in shut-down state, which is convenient to use for bare-metal recovery.

Agentless backup feature (HyperAgent™)

Traditional agent-based backup of virtual machines on Stratus ftServer® Windows (Hyper-V) or Stratus ftServer® VMware required installation of ActiveImage Protector™. ActiveImage Protector™ for Stratus now provides HyperAgent™ (HyperBack™), agentless backup feature, enabling to select and back up a virtual machine configured on VMware vSphere or Microsoft Hyper-V. HyperAgent can be installed on backup source host or destination storage, supporting a variety of system configuration.

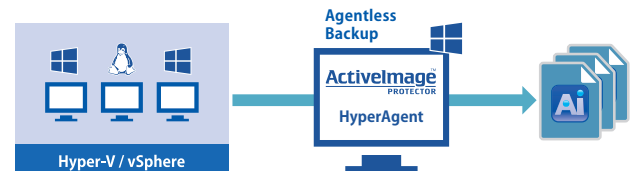
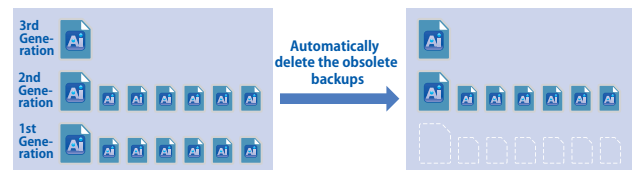


Image Retention Policy

The Image Retention Policy feature can be configured to automatically delete the obsolete backup image set when the number of backup image sets reaches the preset limitation and reduces the storage requirements.



Automatic backup at shutdown

ActiveImage Protector™ automatic backup when a machine is shut down or rebooted. When rebooting the system after a regularly scheduled system maintenance or in the event of an unexpected system shut down, a full baseline backup image is created before or after startup.

Run scripts after scheduled backup

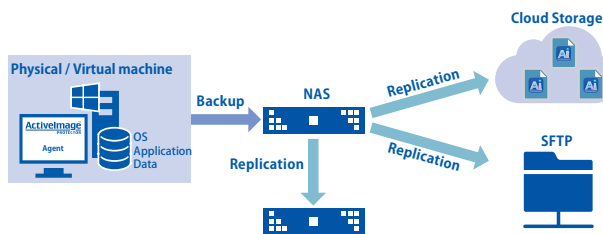
Scripts can be implemented to run before, after, or during the moment snapshots are taken or after the backup image has been created. An example would be to execute a user-specified script to purge database cache before taking a snapshot and then resume the database after taking a snapshot (before starting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

Post-backup Process

Run Replication and Consolidation tasks upon completion of a backup or at a specified time.

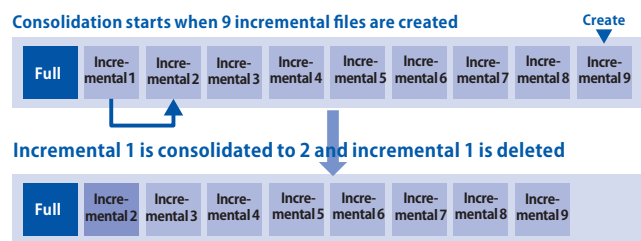
Distributed Backup Storage (Offsite Replication)

Perform a post-backup Replication of your backup image files to an offsite storage share that includes local disk, network shared folder, FTP, FTPS, SFTP, WebDAV, Amazon S3, Azure Storage, Wasabi, OneDrive, Google Drive, Dropbox. Distribution of backup files increase the security level.



Consolidation of Incremental Backup Files

Regularly scheduled recurring incremental backup tasks may result in an increase in the number of backup files and a decrease in the performance of backup and restore processes. The Consolidation feature consolidates an uninterrupted series of incremental backup image files to one file according to a predefined schedule. For example, if the consolidation settings are configured to retain 7 incremental backup files and when 9 incremental backup tasks complete, the 1st and the 2nd most obsolete incremental files are consolidated to one file. As a result, 7 incremental files remain.



Restore Features

Fast and full-state recovery from a backup file

In the event of a hard disk failure, ActiveImage Protector™ can quickly restore a backup to the original machine, a different on-premise physical server or a virtual machine, bypassing the time-consuming process of reinstalling the OS, applications, configuration settings, reapplication of drivers, and data recovery. The built-in wizards guide you through every step to ensure recovery from the backup image file reducing the IT engineers' workload.

File Recovery

In the event of a system failure, you may only need specific files to restore in order to maintain continuity. The File Recovery feature optionally provides recovery of single files or folders from a backup image. All stream information and access rights of the individual files are inclusively restored.

Enlarge or reduce target volumes or partitions during recovery

Only NTFS volumes may be restored to a volume in a size larger or smaller than the original source volume.

RescueBoot

ActiveImage Protector™ includes RescueBoot. A feature when enabled, starts up the Actiphy Boot Environment in the event of emergency. The boot environment is booted directly from the internal disk, so that system administrator can restore the failed system without the use of external device.

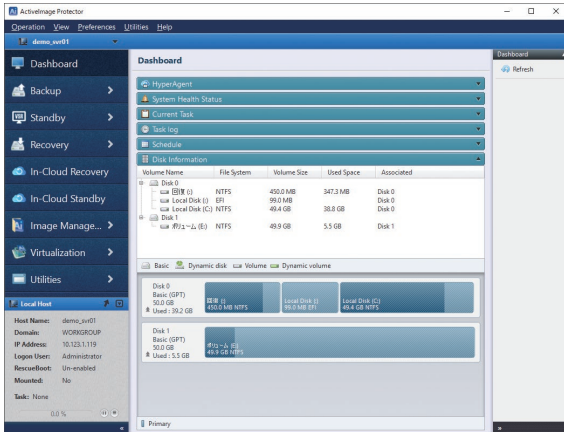
VNC on RescueBoot

A VNC viewer is now provided to remotely operate the RescueBoot boot environment. System administrators can now restore the failed system in RescueBoot via VNC instead of the local machine.

Management Console

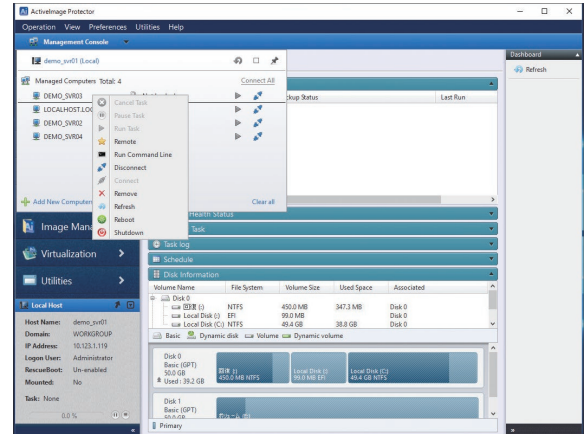
GUI provides tools for efficient operations

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



Client management console

You can monitor the status of remote ActiveImage Protector™ agents over the network. Use the Client management console to monitor the status of backup tasks on multiple agents over network and schedule backup tasks.



Management of Backup Files

Image Explorer

Windows Explorer opens a backup file providing direct access to restore individual files or folders from a backup file.

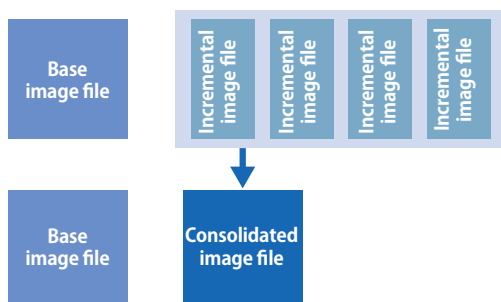
Image Mount

ActiveImage Protector™ can quickly mount an image file as a drive, allowing the restore of any files or folders from the image file. When image file is mounted as a writable drive, the changes made on the drive will be saved as a differential file.

Consolidate backup files

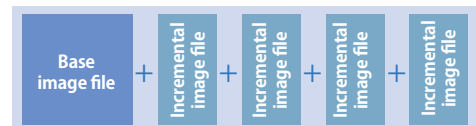
Regularly scheduled recurring incremental backup tasks create a growing and sometimes unmanageable number of incremental files. The Consolidation feature consolidates an uninterrupted series of incremental backup image files to a single file.

* When running scheduled consolidation tasks, please configure the settings for Post-backup Consolidation.



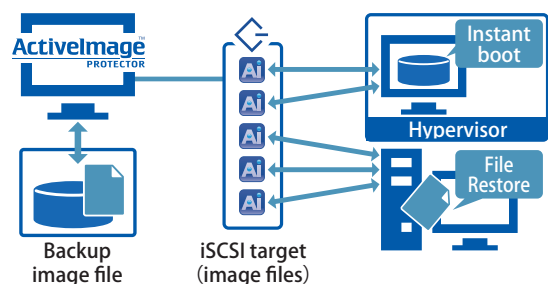
Archive Backup Files

Use the archive 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, Network File System server (Image Target Server)

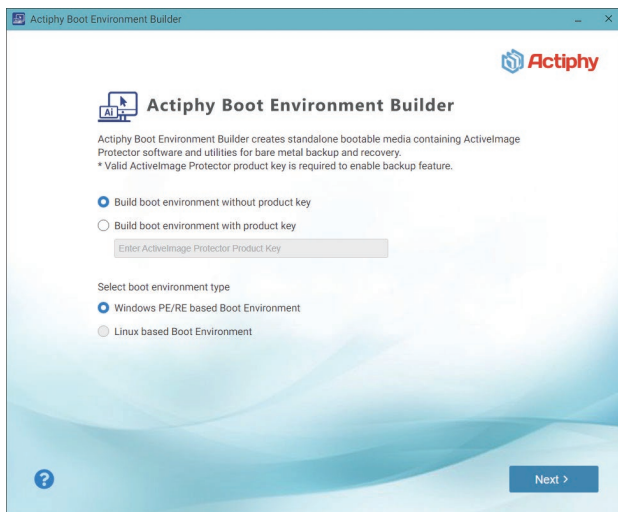
ActiveImage Protector™ now utilizes iSCSI or NFS server to serve backup images as iSCSI targets to any local or remote iSCSI initiator for mounting backup images as local disks, or as NFS server to access backup images as VMDK file from NFS client; not only providing a method to recover files and folders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



Free Add-on Tool

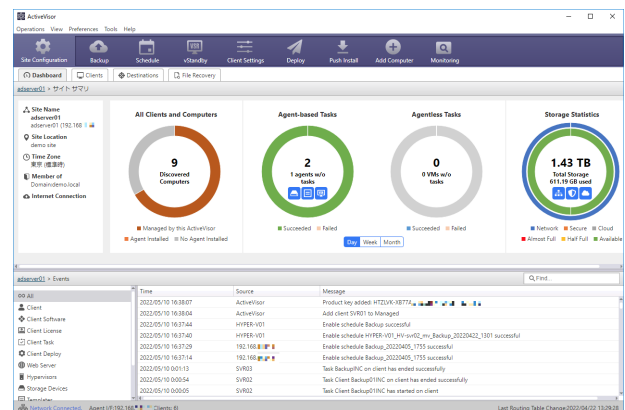
Actiphy BE Builder (boot environment builder)

ActiveImage Protector™ comes with boot environment builder for building a Windows-based boot environment when restoring the system or performing cold backup. You can create a standard Windows RE (Recovery Environment) based boot environment without installing Windows ADK or Windows PE. The Boot Environment Builder automatically detects required drivers, so that you can select the required drivers to install in the media which reduces IT engineers' workload. USB memory / HDD / SSD hard disk, ISO image file and optical media are supported to build the boot environment. If your notebook PC does not come with an optical media drive, the use of bootable USB flash memory / HDD / SSD offers a system recovery option.



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

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



Others

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.

Monitor task log entries in Windows Event Log Viewer

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

Encryption of Backup Images

ActiveImage Protector™ can create password-protected and encrypted backup images and supports up to AES 256-bit encryption. Enabling the encryption for the backup image file ensures that the backup file cannot be compromised.

Email Notification

Email notification can be sent (using SSL/TSL) to an email address of your choice. Notifications include successfully completed backups or backup failure. Email notification may be set to inform you of the summary of task execution and license status (expiration of the license period).

Cold-Imaging backup for static Windows machines

Start up your computer from ActiveImage Protector™'s bootable media to create a backup image of a clean static system volume (immediately after installation of OS). Cold-imaging backup saving the point-in-time state of the failed system is convenient to examine the cause of the system failure.

Online backup ensuring consistency (Hot Imaging)

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

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. Since backup using IDDC increases the CPU and memory usage, it is recommended to select Level 2 (Optimized) as this is the default level for IDDC.

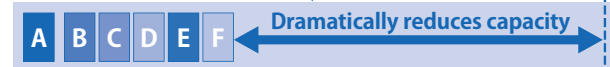
Creates index for every block of backup stream



Deletes duplicated blocks



Compresses



Actiphy, Inc.

NCO Kanda-kon'yacho Building, 8 Kanda-kon'yacho, Chiyoda-ku, Tokyo 101-0035, Japan

<https://www.actiphy.com> global-sales@actiphy.com