

ActiveVisorTM

ActiveVisor

Startup Guide

5th Edition March, 2021

CONTENTS

1. Initial Setting and Installation of ActiveVisor	1
1.1 System Requirements.....	1
1.2 Installation of ActiveVisor	2
1.3 Initial Settings of ActiveVisor.....	9
2. Push Install ActiveImage Protector to Clients	16
2.1 Preparation Steps	16
3. Create and Deploy Backup Tasks	33
3.1 Create Backup Schedule	33
3.3 Deploy to Target Clients	47
4. ActiveVisor's Management Tools	56
4.1 [Dashboard] tab	56
4.2 [Client] Tab.....	57
4.3 [Destination] tab.....	65
4.4 Monitoring.....	65
4.5 Agentless Backup.....	72
4.6 ActiveVisor File Recovery	86
APPENDIX	93
A.1 Generating Support Information File	93
A.2 Reference - ActiveVisor.....	96

1. Initial Setting and Installation of ActiveVisor

1.1 System Requirements

The following are the minimal system requirements required for ActiveVisor

CPU	Pentium 4 or above
Main Memory	2048MB or more is required. * 4096MB or more is recommended.
Hard Disk Space	500MB or more available space.
Internet Connection	Required for client management operations and updating the product.
Screen Resolution	1280x1024 or above is recommended.
Supported OS	Windows 10 (x64), Windows Server 2012R2 or later OS

*When the User Account Control is enabled in desktop OS, etc., the program may ask for your permission to continue operation. Should you get this prompt dialog, select [Allow] to proceed the wizard operation.

Supported Agent Version

ActiveImage Protector 2018 Update Version 5.1.11.6500 or later agent is supported on managed clients.

Web Browser

The following Web browsers are supported for Web access.

- * Google Chrome Version 59 or later
- * Microsoft Edge Version 42 or later
- * Apple Safari Version 12 or later

1.2 Installation of ActiveVisor

Run the installer program from the download or installation media to launch the Set-up Wizard.

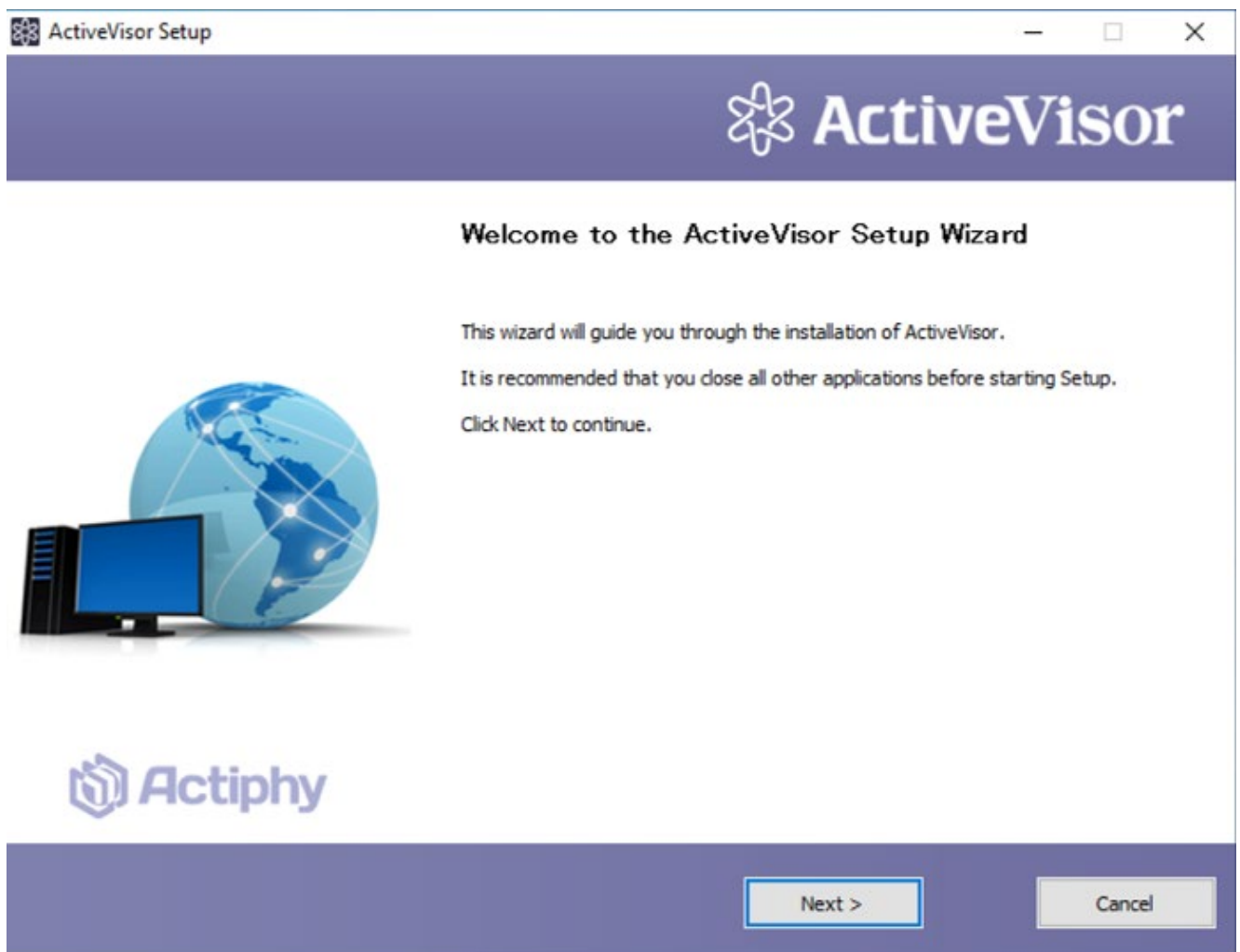
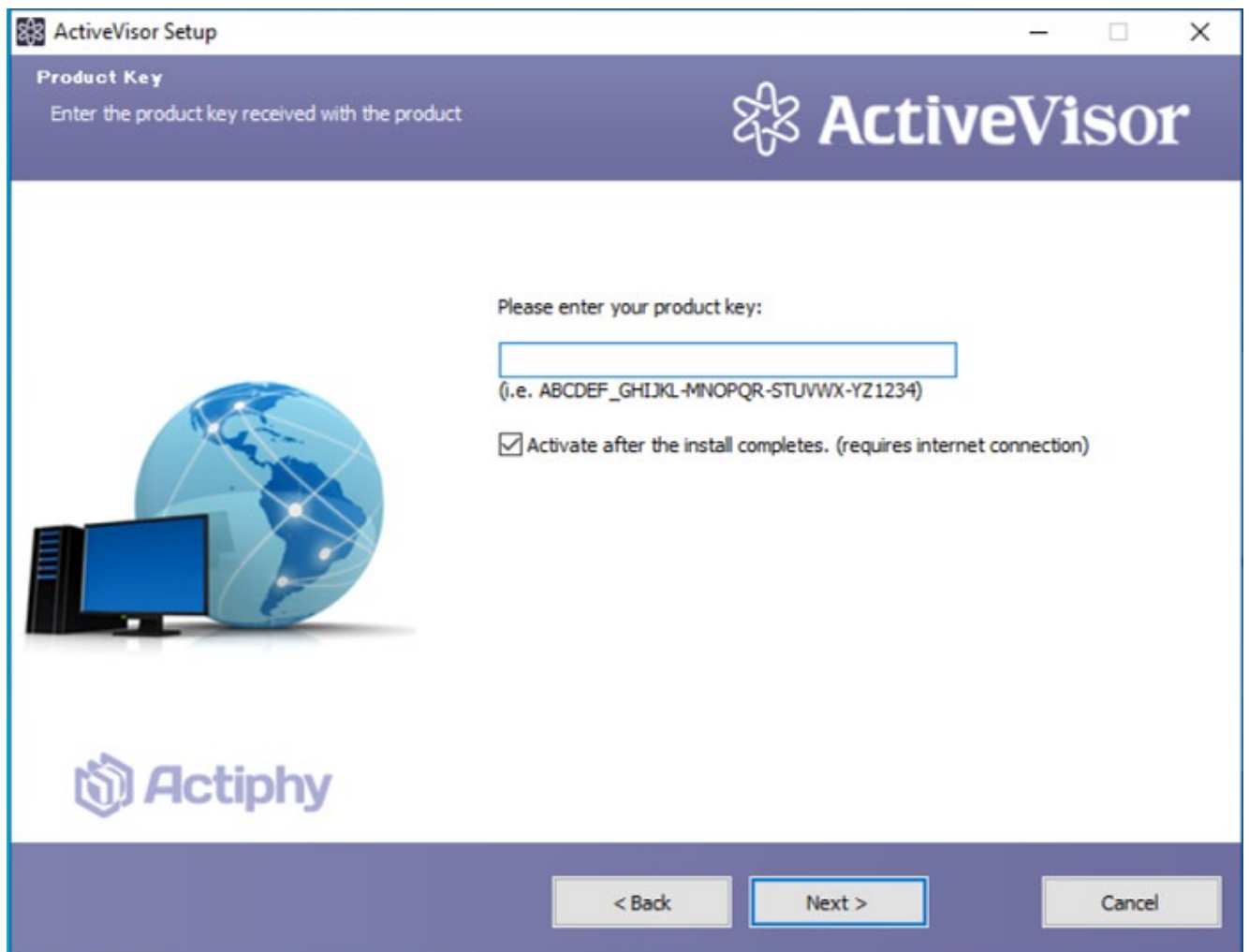


Fig. 1.1 Launch the ActiveVisor Set-up Wizard

Click [Next].

Enter the product key.



The image shows a Windows-style window titled "ActiveVisor Setup". The window has a dark blue header bar with the "ActiveVisor" logo on the right. Below the header, the text "Product Key" is displayed, followed by the instruction "Enter the product key received with the product". On the left side, there is a graphic of a globe with a computer monitor and tower. The main area contains the text "Please enter your product key:" above a text input field. Below the input field is an example: "(i.e. ABCDEF_GHIJKL-MNOPQR-STUVWX-YZ1234)". A checkbox is checked, with the label "Activate after the install completes. (requires internet connection)". At the bottom, there are three buttons: "< Back", "Next >" (which is highlighted with a blue border), and "Cancel". The "Actiphy" logo is visible in the bottom left corner of the main content area.

Fig. 1.2 Enter the product key

Please enter the product key listed in the package or E-Mail from Actiphy.

The End User's License Agreement is displayed.



Fig.1.3 End User's License Agreement

Please review the End User's License Agreement and check the box next to [I accept the terms of the License Agreement] to continue the installation and click [Next >].

If you do not accept, click [Cancel] to cancel the installation.

Select the setup type.

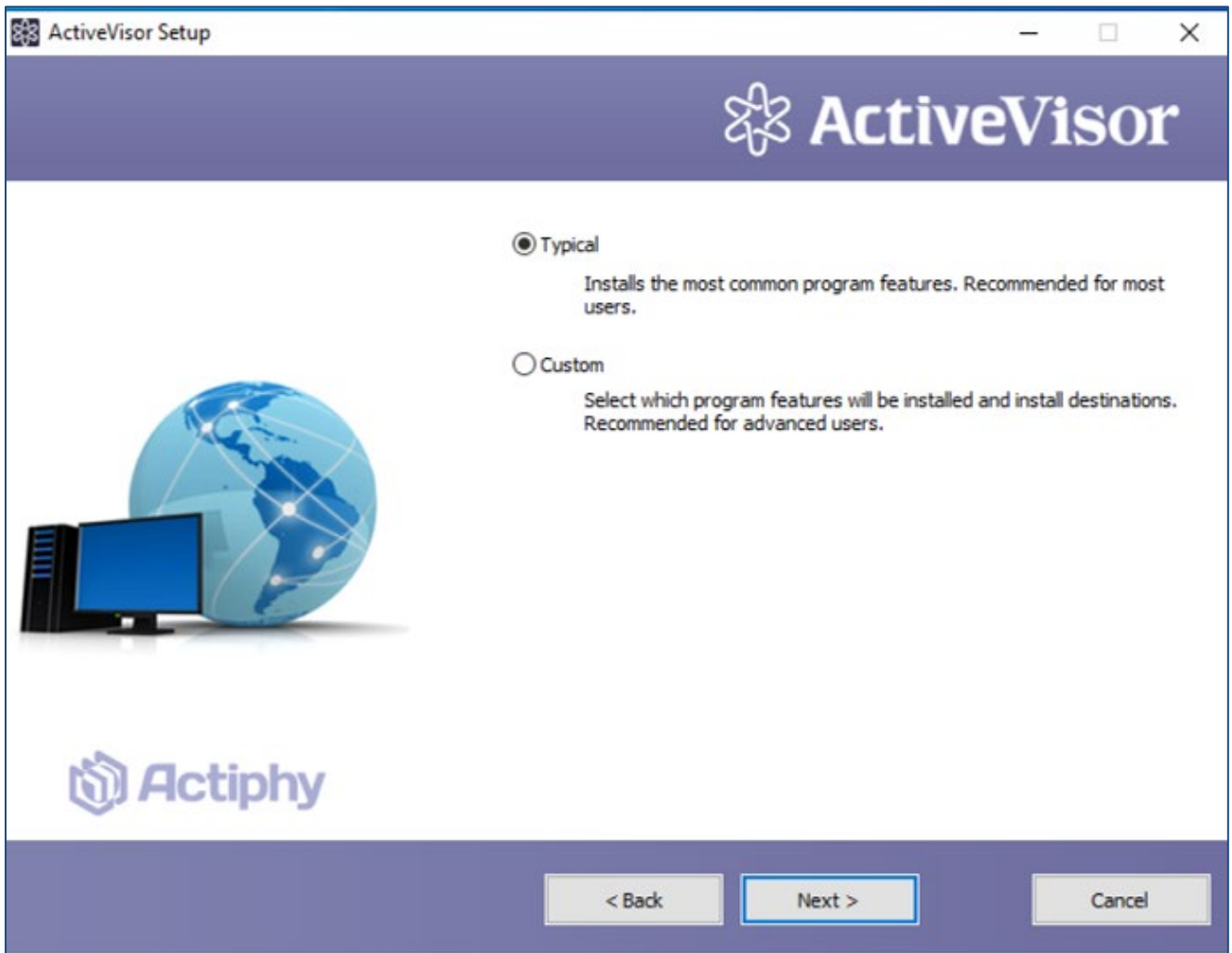


Fig. 1.4 Select Setup type

Select [Typical] to install the most common features and click [Next].

Installation starts.

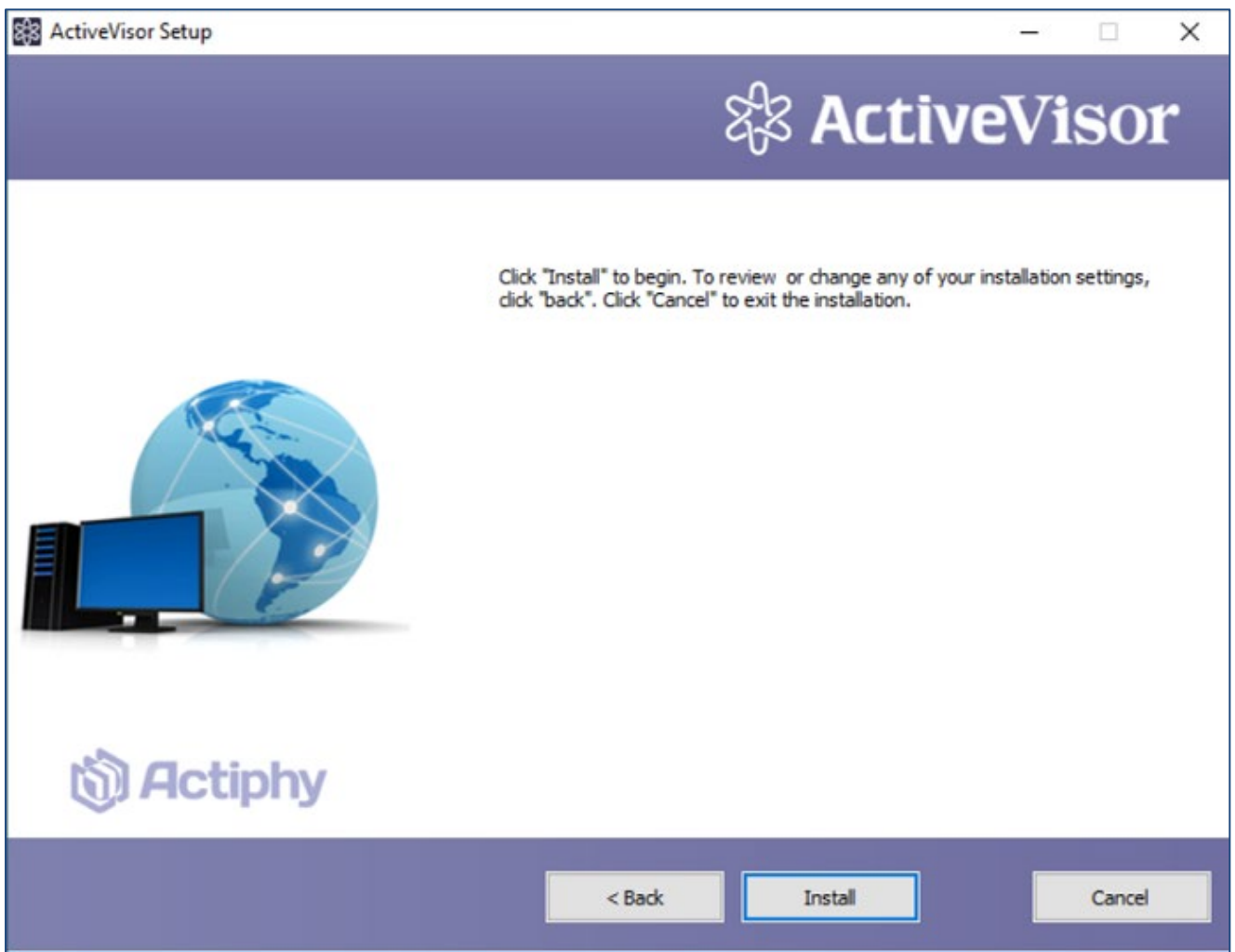


Fig. 1.5 Ready to start installation

Click [Install] to start installation.

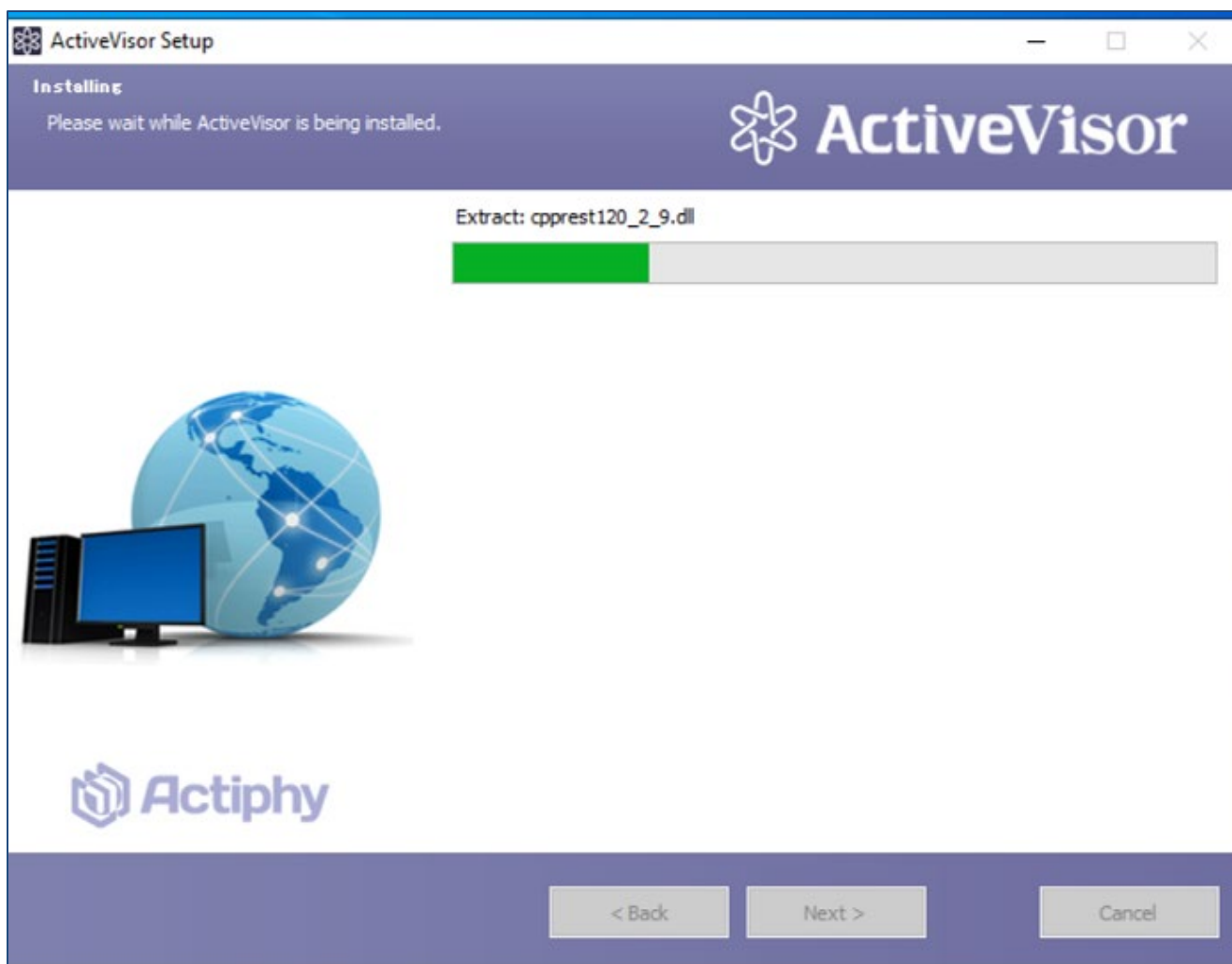


Fig. 1.6 Installation in progress.

The following window is displayed indicating that the installation process has completed.

Click [Finish].

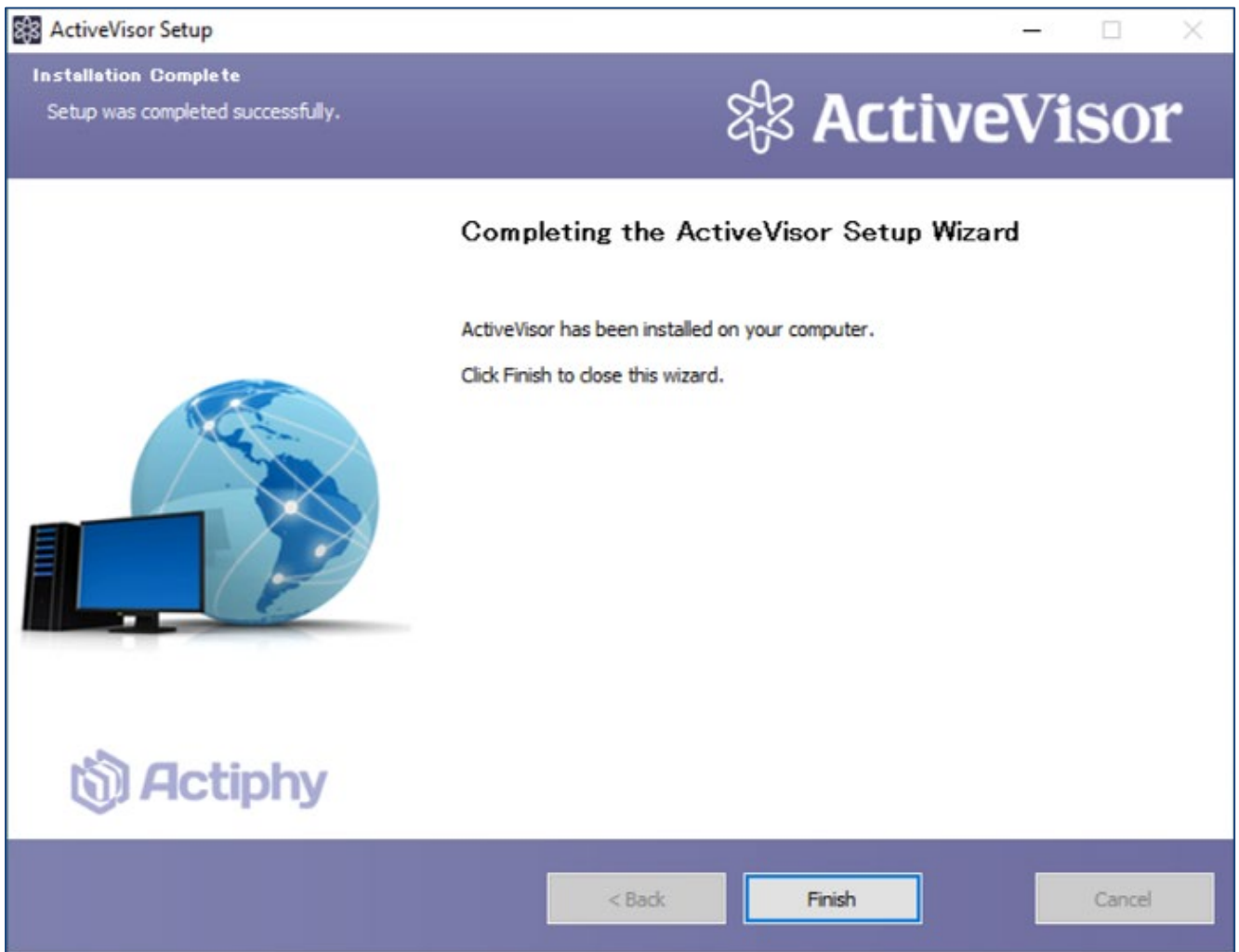


Fig. 1.7 Installation completed.

1.3 Initial Settings of ActiveVisor

Starting ActiveVisor after the installation process completes, the initial settings window is displayed as follows. Register the necessary information in order to manage the client machines.

ActiveVisor
Operations View Preferences Tools Help

Site Configuration Backup Schedule vStandby Client Settings Deploy Push Install Add Computer Monitoring

ActiveVisor™
A Centralized Management Console for Actiphy Backup Products

Please enter information about this installation*

Site name*: activevisor Site Location: Enter descriptive information of whereabouts

Installation Type: ☒ Active Directory ☐ Windows Network

Please enter your Active Directory credentials*

Username: Password: Domain: domain.local Test Authenticate

Please enter information about Hypervisor on the network +

Host Name	Type	Version	IP Address
-----------	------	---------	------------

Done Cancel

Network Connected Agent I/F: Web login user:0 Last Routing Table Change:N/A

Fig. 1.8 Initial Settings Window

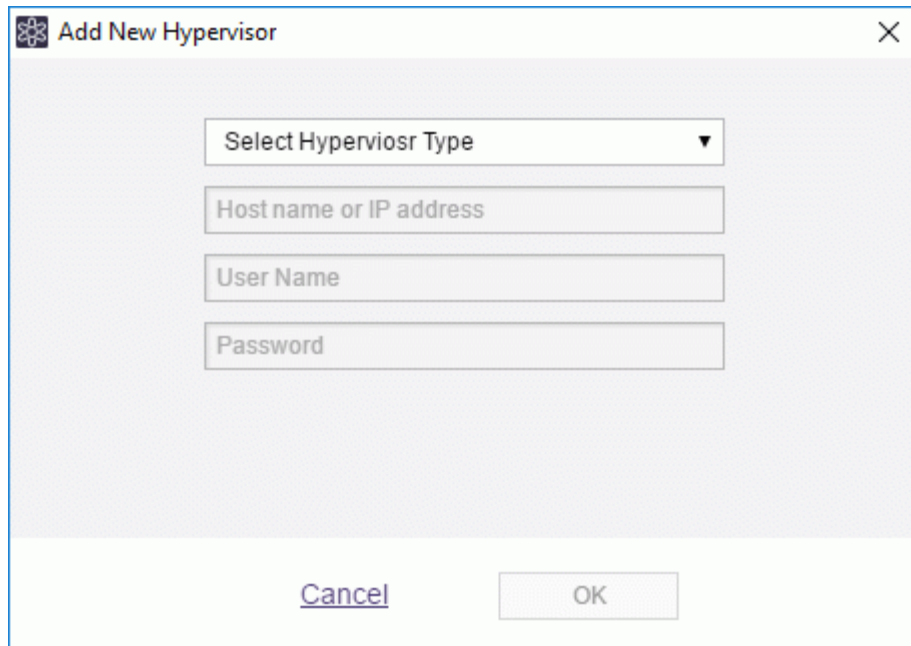
Please specify the range of the client search and enter the credentials information for searching and managing the clients.

- Active Directory
- Windows network
- Hypervisor

When selecting Active Directory, ActiveVisor accesses Active Directory to obtain the client information. Enter the Domain Administrator or Domain Admin Group user account for Site Credentials. Enter an absolute domain name.

When selecting a Windows Network, the client information over the identical network is obtained. Enter the built-in Administrator account for Site Credentials.

When selecting [Hypervisor], please select a hypervisor on which the virtual machines to manage (hereinafter “agentless client”) are registered. You are recommended to select [Hypervisor] option to add the virtual machines that were not discovered by Network Discovery. Click [Add Hypervisor] to display the window shown in Fig. 1.9.



The image shows a dialog box titled "Add New Hypervisor" with a close button (X) in the top right corner. The dialog contains four input fields stacked vertically: a dropdown menu labeled "Select Hyperviosr Type" with a downward arrow, a text field labeled "Host name or IP address", a text field labeled "User Name", and a text field labeled "Password". At the bottom of the dialog, there are two buttons: "Cancel" (underlined) and "OK".

Fig. 1.9 Add Hypervisor

Click [▼] for [Select Hypervisor Type] and the supported hypervisors are listed. Please select a specific hypervisor.

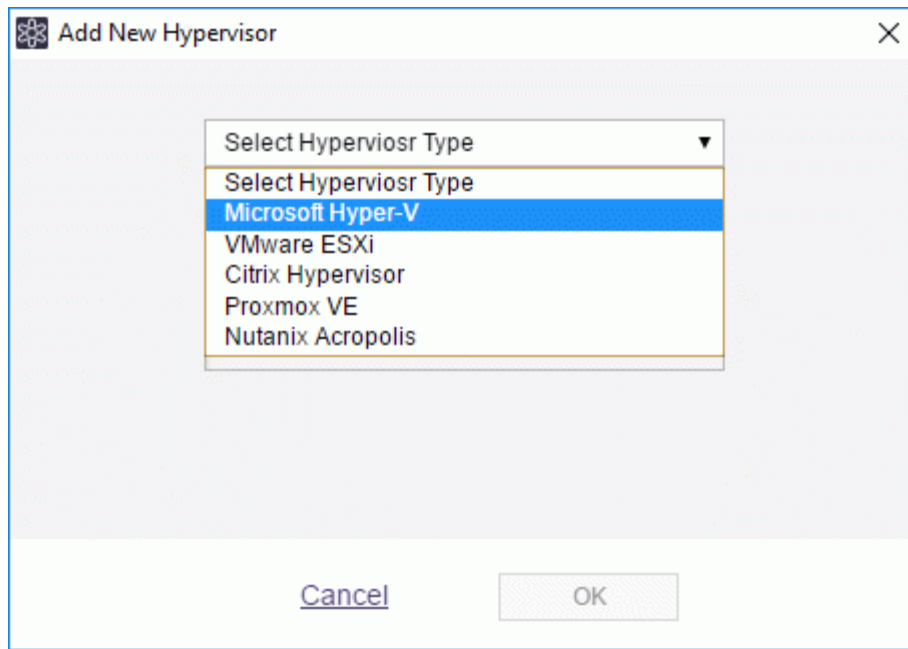


Fig. 1.10 Select Hypervisor Type

Please enter the host name, user name and password.

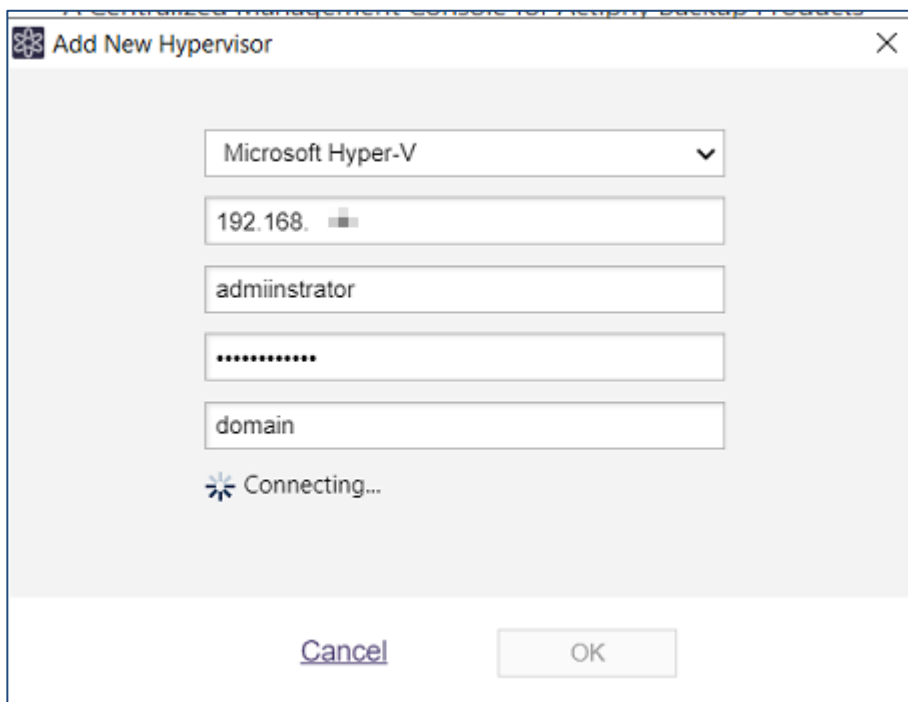


Fig. 1.11 Enter the credentials information

Click [OK] and enter the credentials information.

Please make sure [Done] is indicated in green.

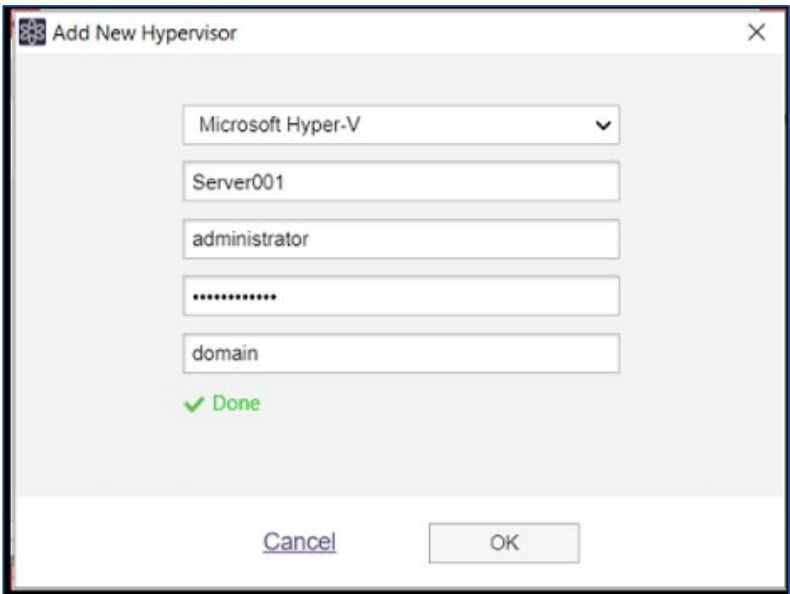


Fig. 1.12 Authentication Completed

Upon completion of authentication, the host name and the added hypervisors are indicated in the dialog shown in Fig. 1.8.

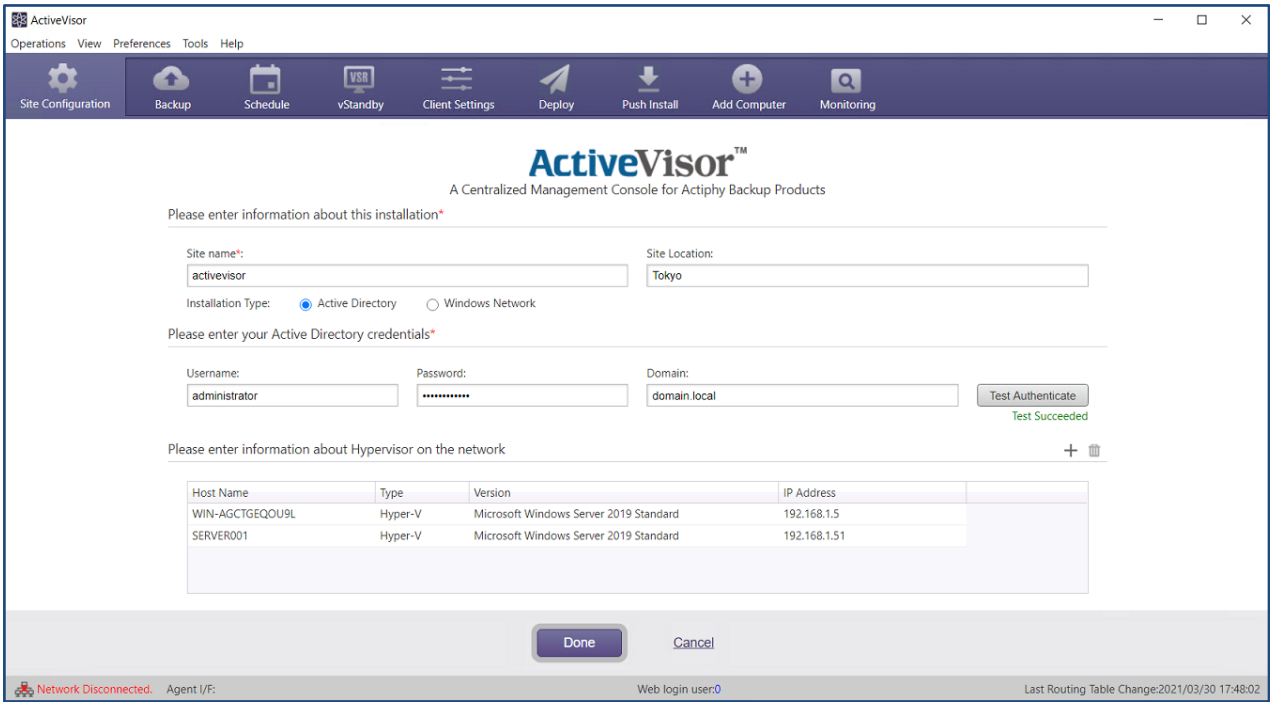


Fig. 1.13 Added Hypervisor

Please repeat the same steps and add as many hypervisors as needed. You are allowed to add a hypervisor at the very first startup of this product or any time later.

Click [Done] and a connection with the local host is established using the configured credentials information and begin searching for clients.

If connection to the local host fails to establish using the configured credentials, please specify another local host accessible with the credentials information.

The number of clients found as a result of a search is indicated in [Discovered Clients] in the [Dashboard] tab.

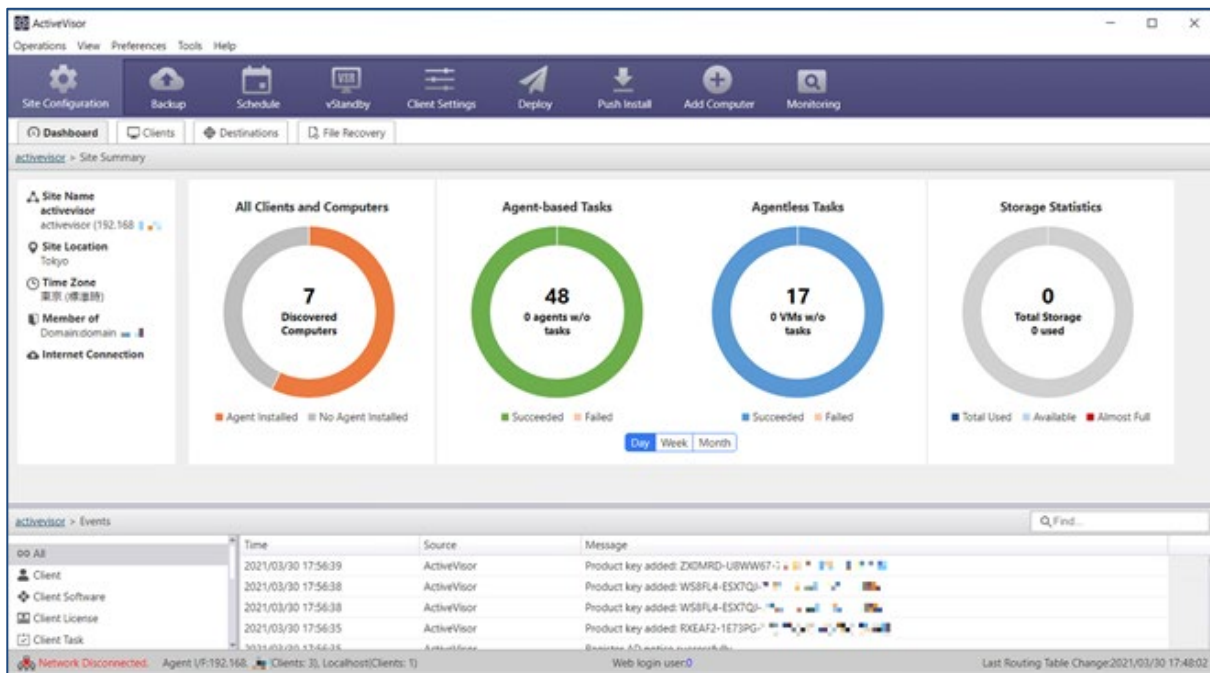


Fig. 1.14 The number of discovered clients indicated in [Dashboard] tab

Switching from the [Dashboard] tab to the [Client] tab displays the list of the clients on which the ActiveImage Protector agent is installed.

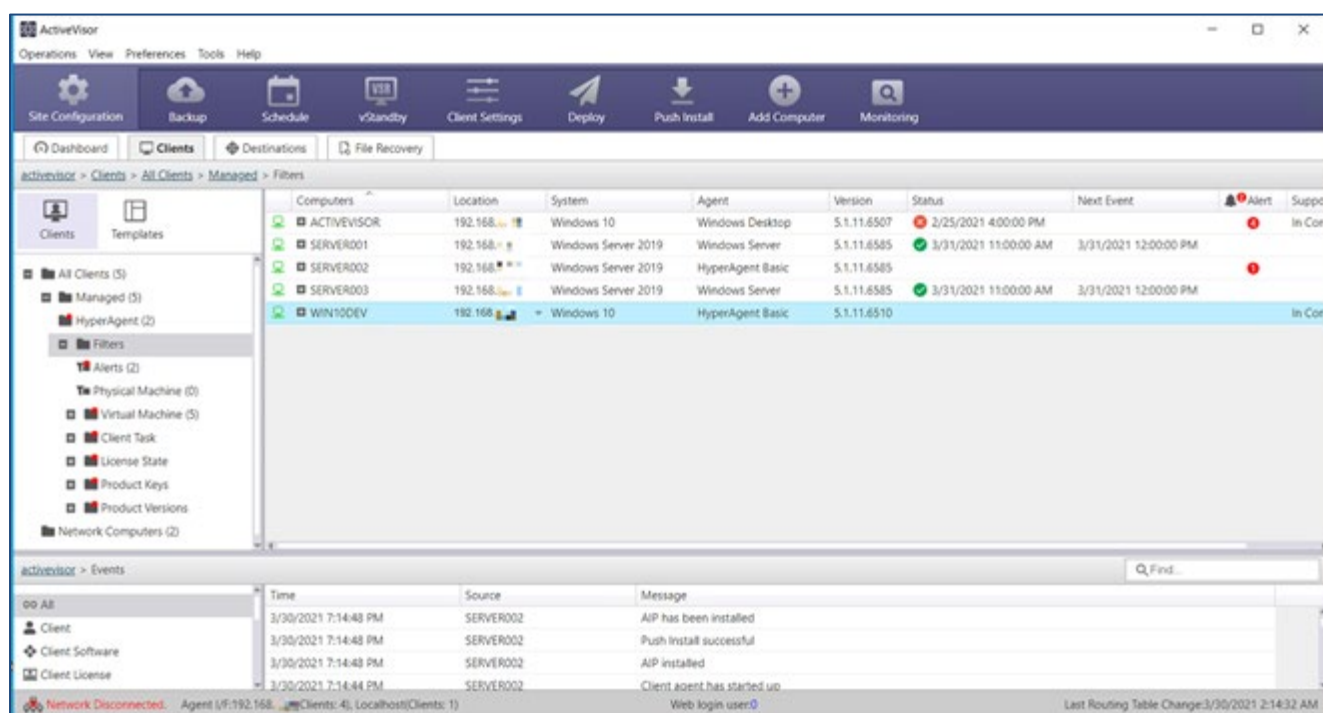


Fig. 1.15 Client List (Example)

The client computers on which agent is installed and registered in Active Directory are automatically added to [Managed by this ActiveVisor].

The other computers are added to [Networked Computers].

As for the clients inaccessible using the credentials information, you'll need to enter the credentials for the respective clients in [Add Computer] window. Please start by selecting [Add Computer] in the top menu.

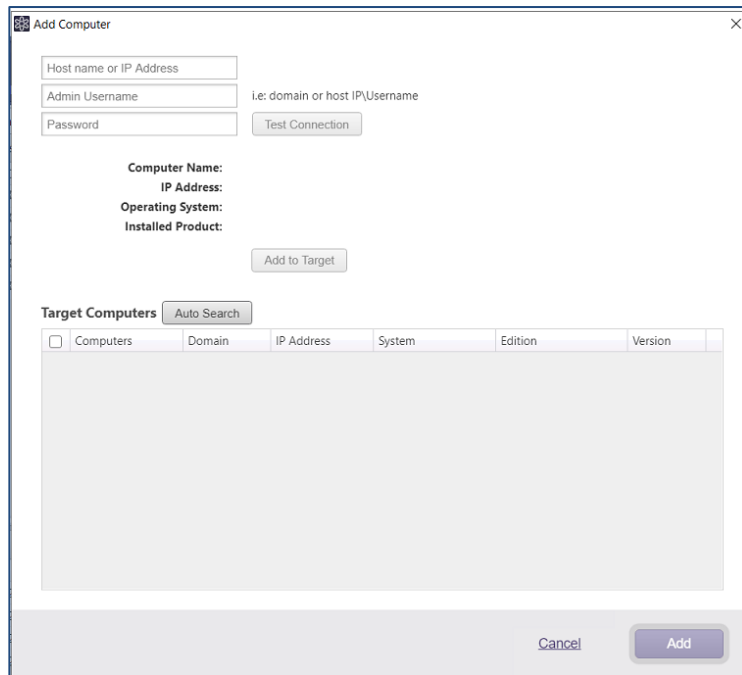


Fig. 1.16 Add Computer

Enter the local host name or IP address, user name and password. Click [Test Connection] to establish the connection.

When the connection is established, click [Add to Target] to add the computer to [Managed by this ActiveVisor] in [Client] tab.

Using [Auto Search] discovers the computers over the same network and lists the found computers. Check in the checkbox for the computers to add and click [Add] to add the computers to managed list.

2. Push Install ActiveImage Protector to Clients

In order for ActiveVisor to manage client machines, ActiveVisor's management agent (ActiveImage Protector agent) has to be installed to the clients. ActiveVisor is built with a Push Installer to push install ActiveImage Protector agent to the managed clients.

2.1 Preparation Steps

First, copy the ActiveImage Protector installer program (Setup.exe, etc.) to a folder ("C:/work" in this example) accessible from the machine which ActiveVisor is installed. The installer program may be installed in optical media, however, it is recommended to save the installer program and installation files to the local folder to deliver faster read and write speeds.

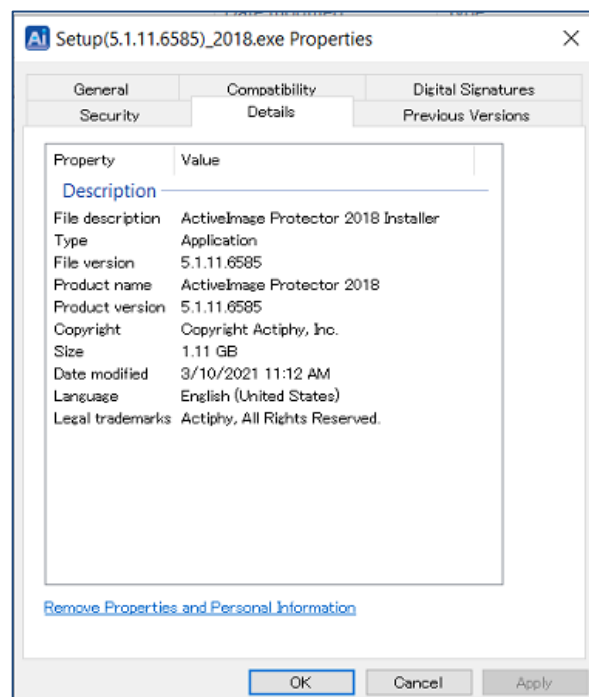


Fig. 2.1 Copy ActiveImage Protector installer program

Next, have the product key handy. Actiphy provides you with a product key in order to activate the ActiveImage Protector on a number of multiple machines. If installing to a number of managed clients, please purchase the required number of product keys.

Registration of the product keys on ActiveVisor is required (Push Install automatically enters the product key for activation.)

Select the [Site Configuration] – [Register Product Key]. The license information of the clients on which ActiveImage Protector is installed is displayed in [License Management] tab.

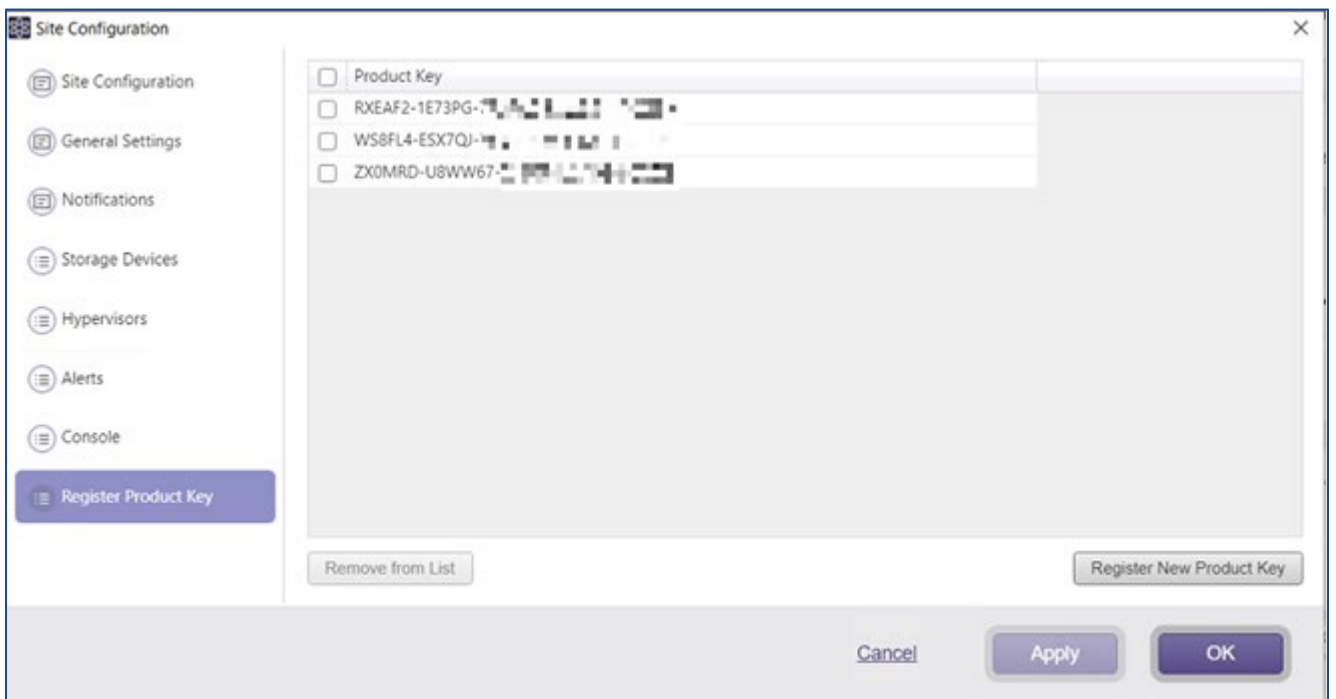


Fig. 2.2 Add a new product key

To register a new product key, click [Register New Product Key] in the lower right corner. The following dialog prompts you to enter the product key.

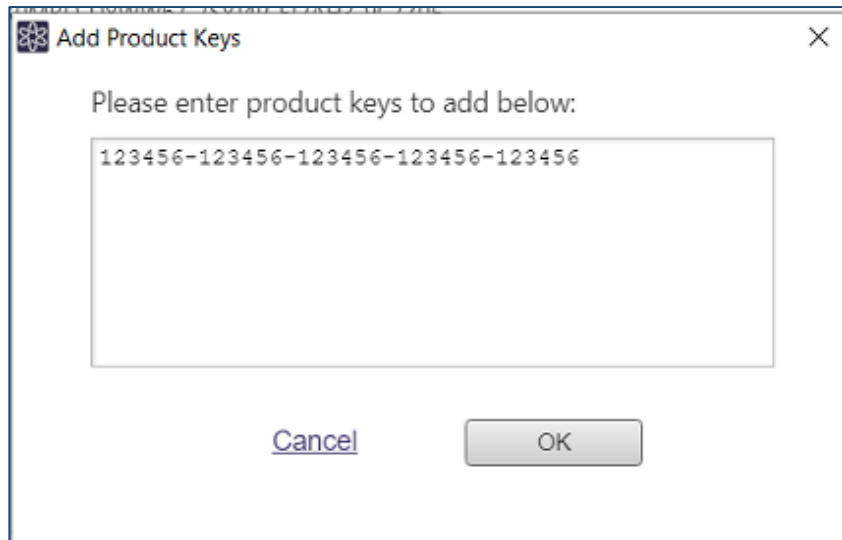


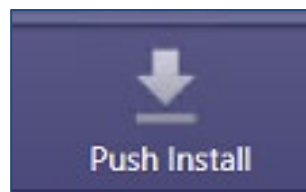
Fig. 2.3 Add Product Key

Here the product key for server is registered.

2.2 Push Install

To start a Push Install, please select [Push Install] in the top menu.

Select the installation package.



Click [▼] to the right of [Select Install Package] and select [Add New...].

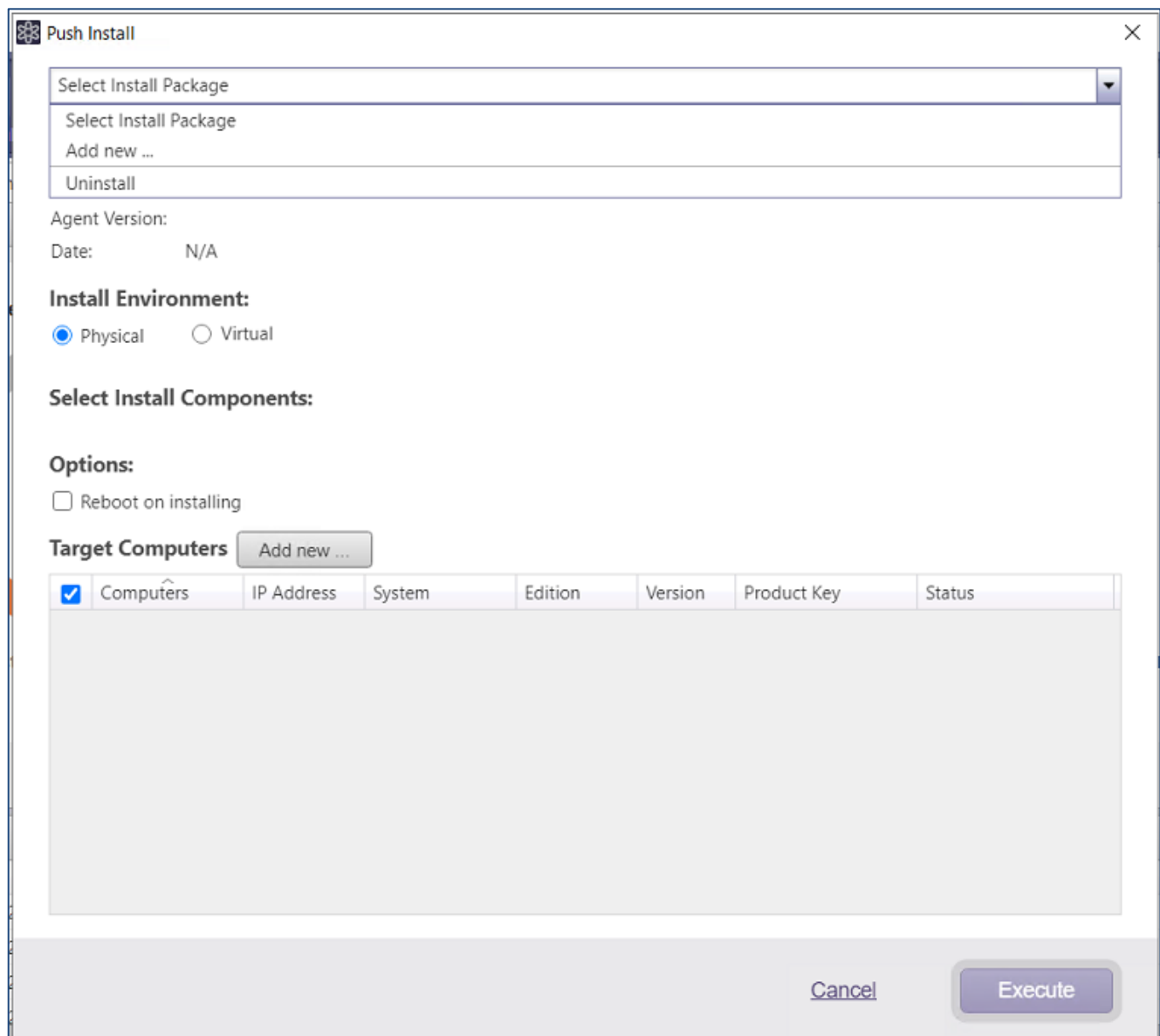


Fig. 2.4 [Add new] in menu

Select [Add new] and the ActiveImage Protector installer program copied in Fig. 2.1.

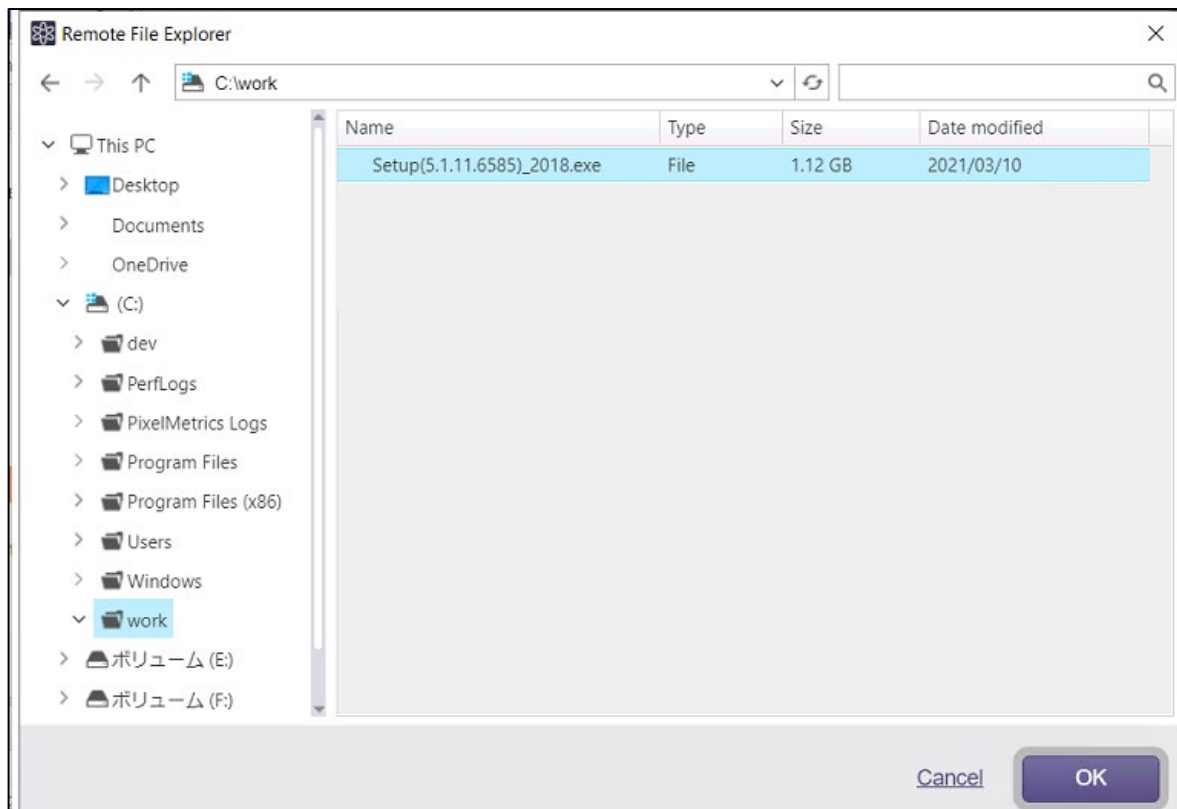


Fig. 2.5 Select ActiveImage Protector installer program

Please select [Setup] added in the pull-down menu from the next time to run Push Install.

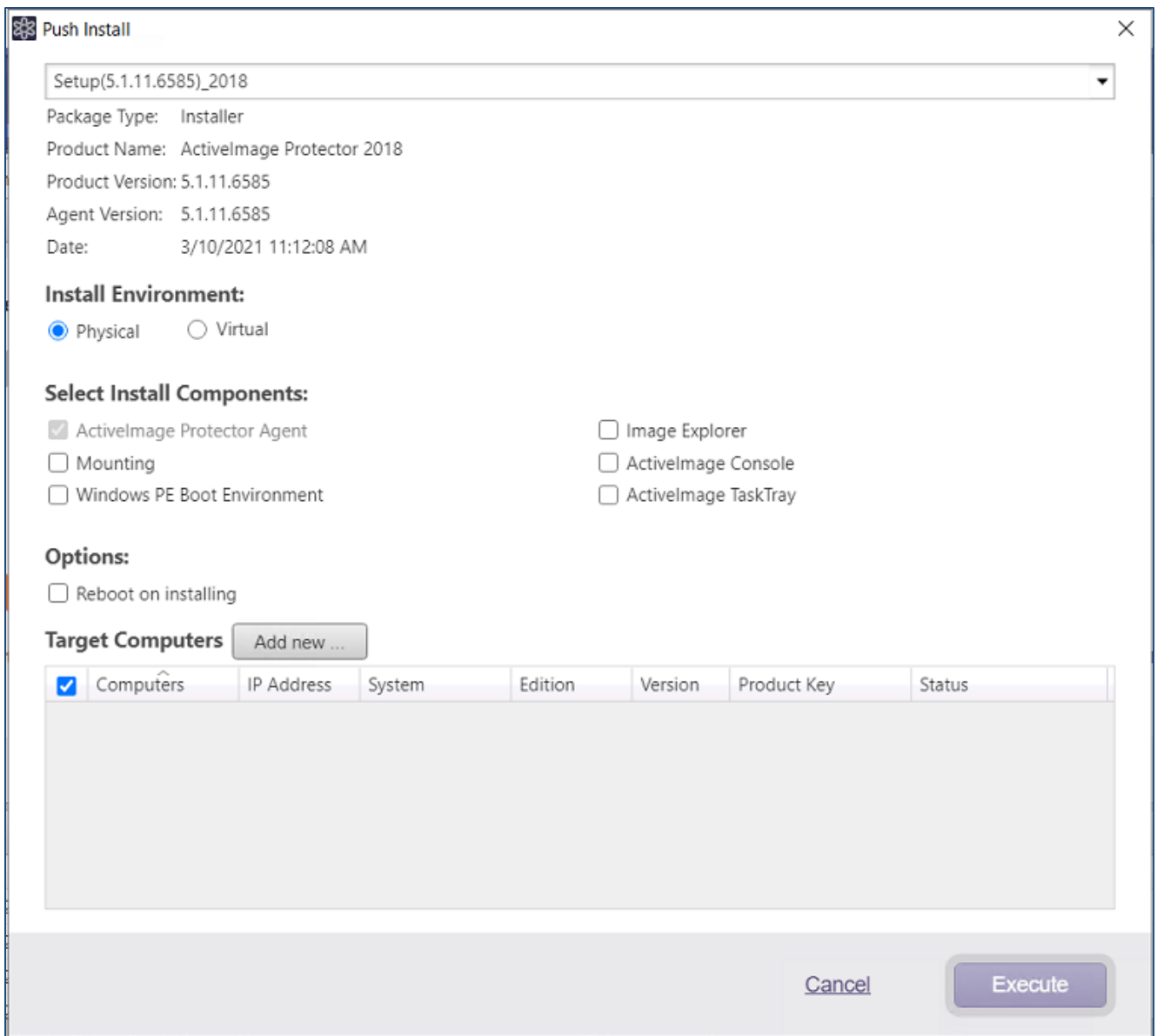


Fig. 2.6 Select the product

The settings for Push Install are configured as described.

In [Select Install Components], select the components for the Push Install. By default, only [ActiveImage Protector agent] is selected. If you do not select any component other than [ActiveImage Protector agent] and perform the Push Install, you won't be able to launch ActiveImage Protector console on the client machine. To use ActiveImage Protector console on the client machine, you are recommended to select [Mounting], [Windows PE Boot Environment], [ActiveImage Console], [Image Explorer], [ActiveImage Task Tray], etc. On the contrary, if you will never launch ActiveImage Protector on the client machine, you do not need to select any component other than [ActiveImage Protector agent].

Select the target computer for the Push Install. Click [Add New] to the right of [Target Computers] as shown in Fig. 2.6. The target clients list is displayed.

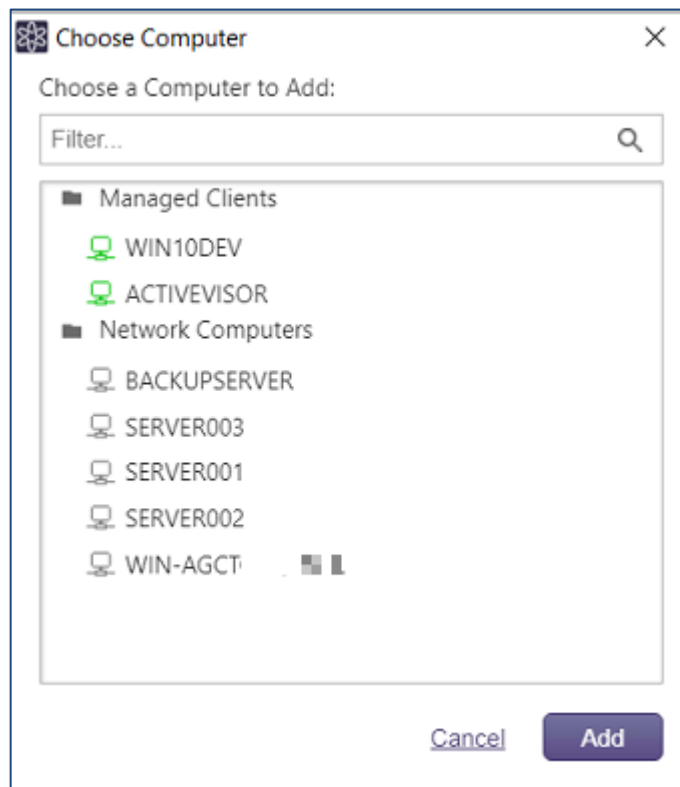


Fig. 2.7 Managed / Unmanaged Clients list

Select the target clients for Push Install and click [Add New] for [Target Computers] in the dialog.

The target client is registered for Push Install as shown in Fig. 2.8.

The screenshot shows the 'Push Install' window with the following details:

- Package Type:** Installer
- Product Name:** ActiveImage Protector 2018
- Product Version:** 5.1.11.6585
- Agent Version:** 5.1.11.6585
- Date:** 3/10/2021 11:12:08 AM

Install Environment:

- ☒ Physical
- ☐ Virtual

Select Install Components:

- ☒ ActiveImage Protector Agent
- ☐ Mounting
- ☐ Windows PE Boot Environment
- ☐ Image Explorer
- ☐ ActiveImage Console
- ☐ ActiveImage TaskTray

Options:

- ☐ Reboot on installing

Target Computers (Add new ...)

<input checked="" type="checkbox"/>	Computers	IP Address	System	Edition	Version	Product Key	Status
<input checked="" type="checkbox"/>	SERVER001	192.168.1.1	Microsoft Win...			Select Product ... ▼	
<input checked="" type="checkbox"/>	SERVER002	192.168.1.2	Microsoft Win...			Select Product ... ▼	
<input checked="" type="checkbox"/>	SERVER003	192.168.1.3	Microsoft Win...			Select Product ... ▼	

Buttons: Cancel, Execute

Fig. 2.8 Add target computers for push install

Use the preceding checkboxes on [Computers] and their respective clients to select or deselect the clients as targets for installing ActiveImage Protector.

Specify the product key to use for activation of the product on the respective clients.

Click [▼] to the right of [Select Product...]. Please select a product key from the list of the available product keys. The product key for the managed client machines and the product keys registered in Site Configuration are listed. Select [Add New] to register a new product key.

Click [Execute] to start Push Install.

Enabling [Reboot on installing] option displays the following dialog.

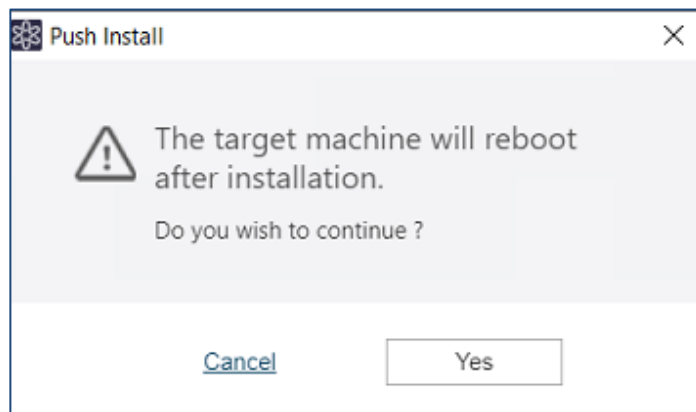


Fig. 2.9 Reboot after installation

Click [Yes].

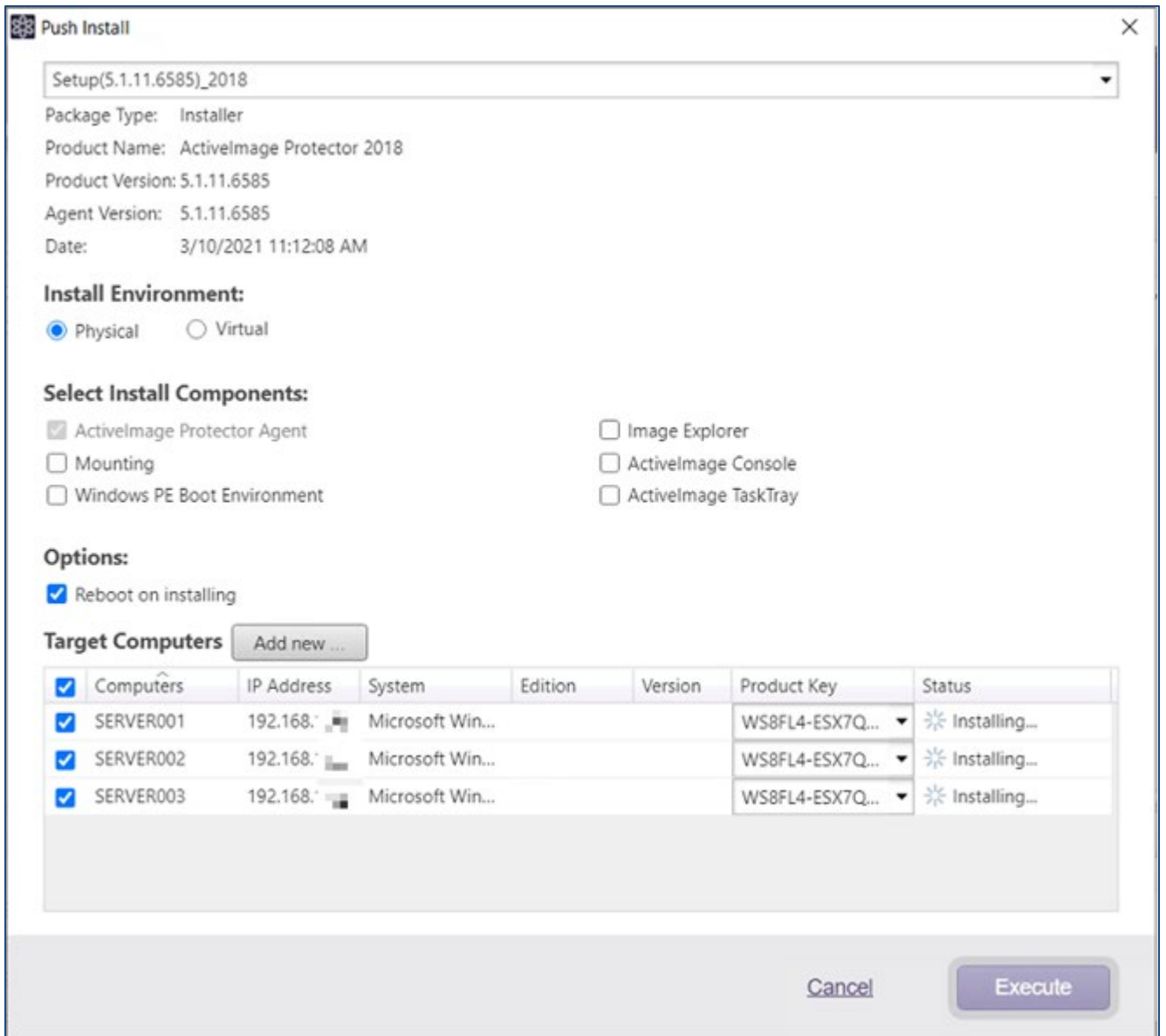


Fig. 2.10 Push Install

Push Install starts.

Make sure that ActiveImage Protector is installed on the target clients as shown in Fig. 2.11.

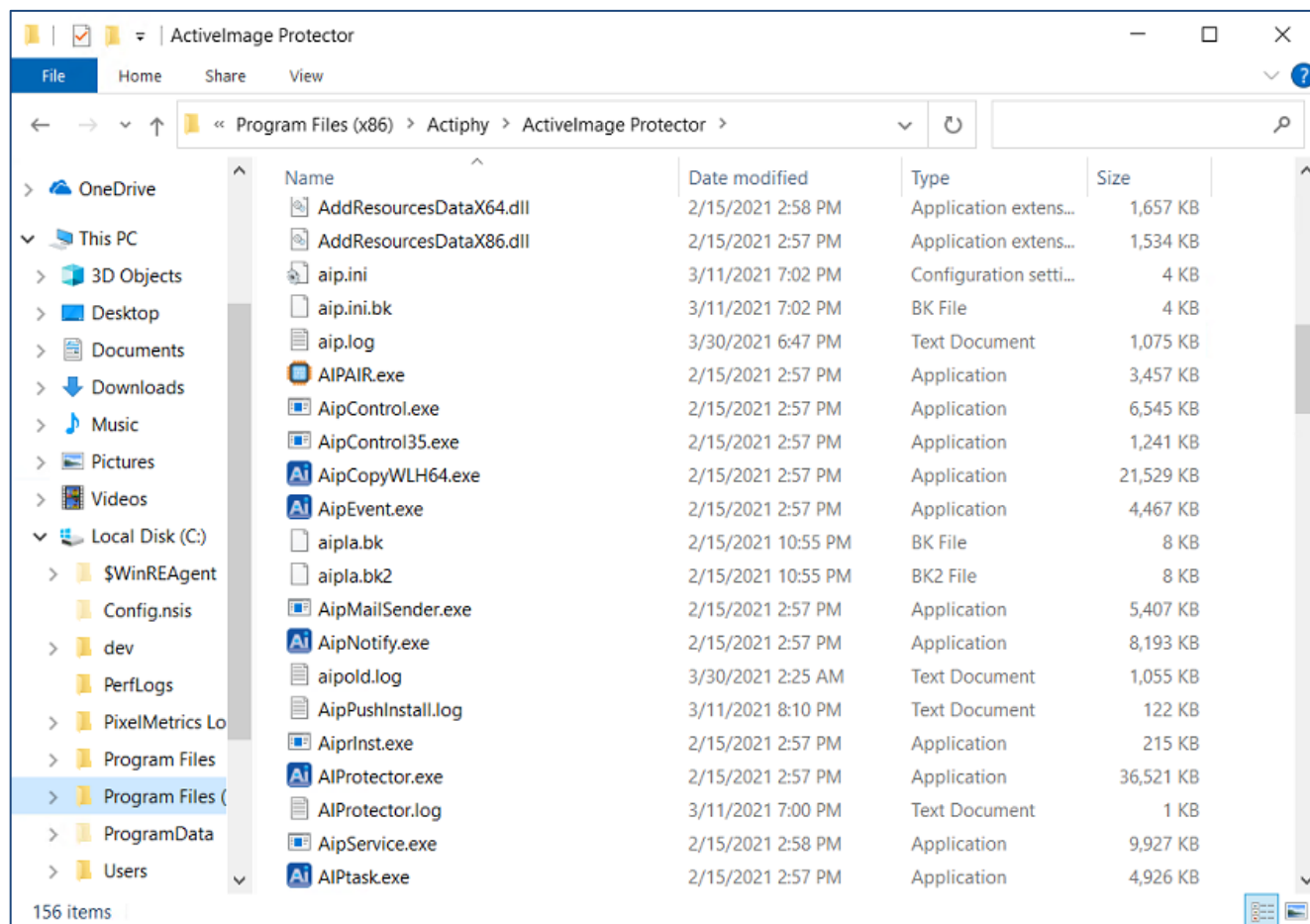


Fig. 2.11 ActiveImage Protector installed on the client computers

If the Push Install failed, please ensure that the firewall setting is configured to allow access on the client and that Administrative share is enabled on the client computer.

When the Push Install successfully completed, the clients are added to the list of managed by this ActiveVisor in [Client] tab. The list includes the information of the installed agent and the versions. Icon indicated at the left end turns green.

When the Push Install completed on every managed client, the green icons are indicated for the entire client machines as shown in Fig. 2.12.

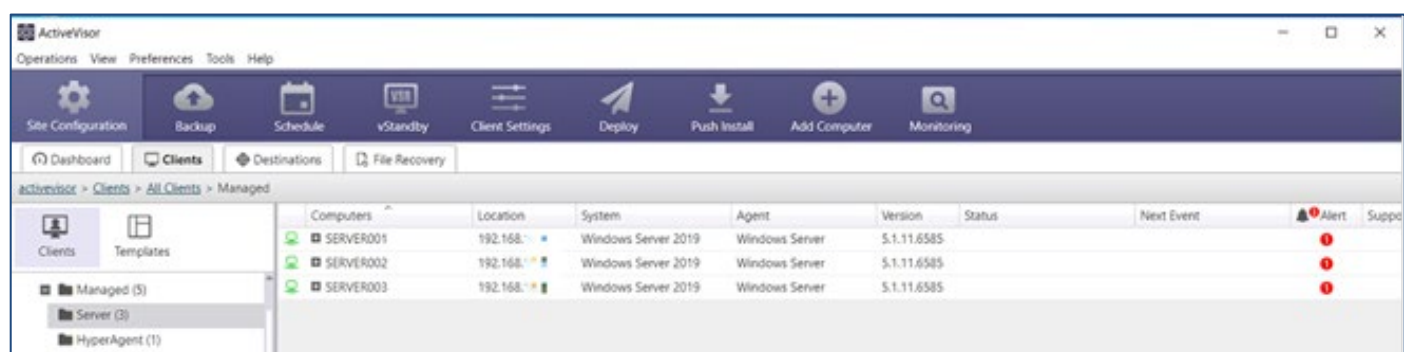


Fig. 2.12 Push Install completed on every managed client

2.3 Operate ActiveVisor via Web browser

System administrators can now operate ActiveVisor functions via the Google Chrome web browser. To operate ActiveVisor via Web-browser based console, please select [Preferences] → [Console] to configure the browser console settings.

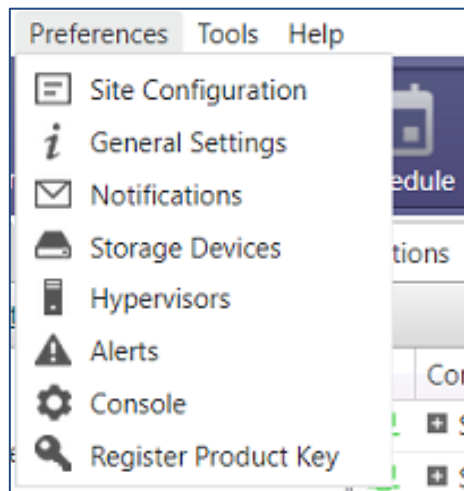


Fig. 2.13 [Preferences] menu

Please select [Console] from the menu on the left pane.

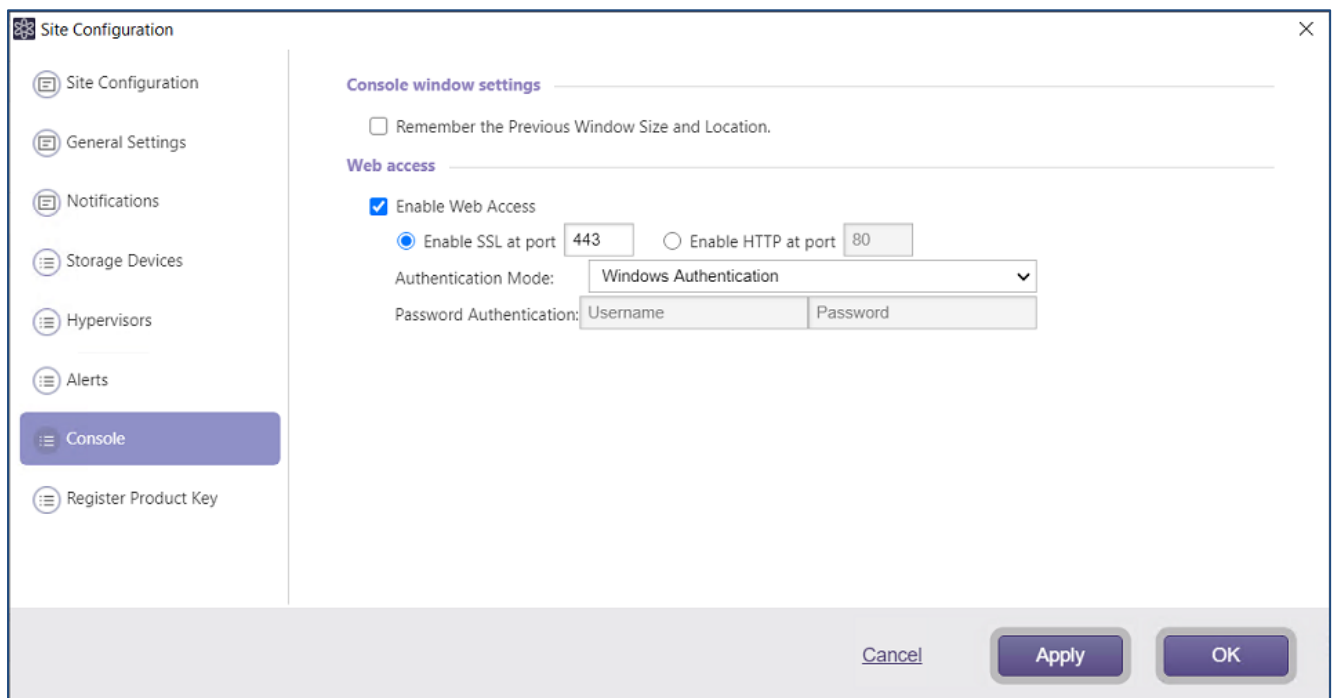


Fig. 2.14 [Console] Settings

Please check in the checkbox for [Enable Web Access] under [Web access]. Then, select SSL or HTTP protocol for communications over network. SSL is preferable to keep internet connections secured. HTTP can be selected for communications over the local intranet without access to an external internet website.

HTTP and [Windows Authentication] for [Authentication Mode] are selected in this example.

On a system where Microsoft Edge is installed, enter the IP address of the client machine on which ActiveVisor is installed.

The following [Login] window appears.

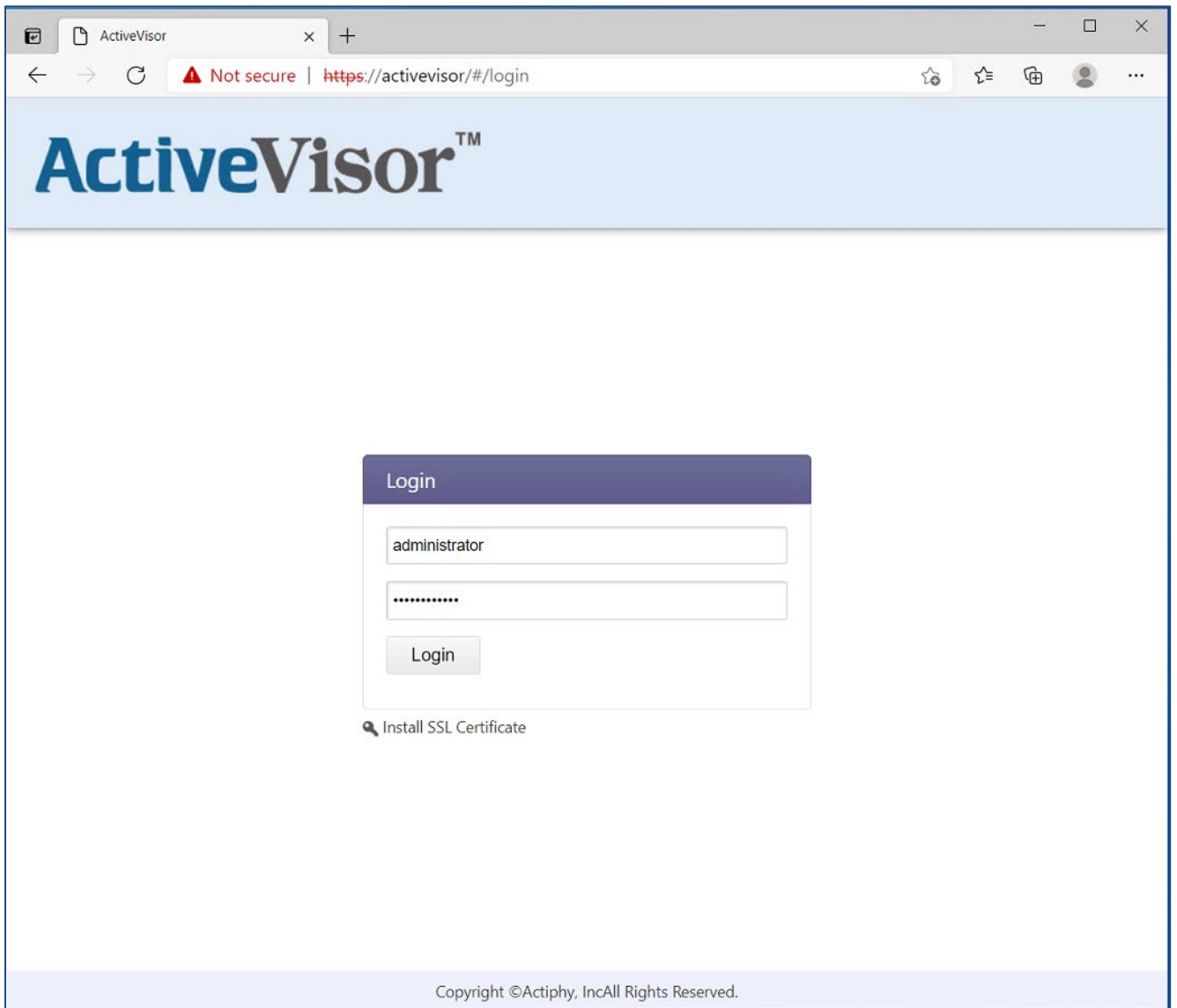


Fig. 2.15 [Login] dialog

As [Windows Authentication] is selected, please enter “administrator” and the password. Web browser-based ActiveVisor’s console window is launched.

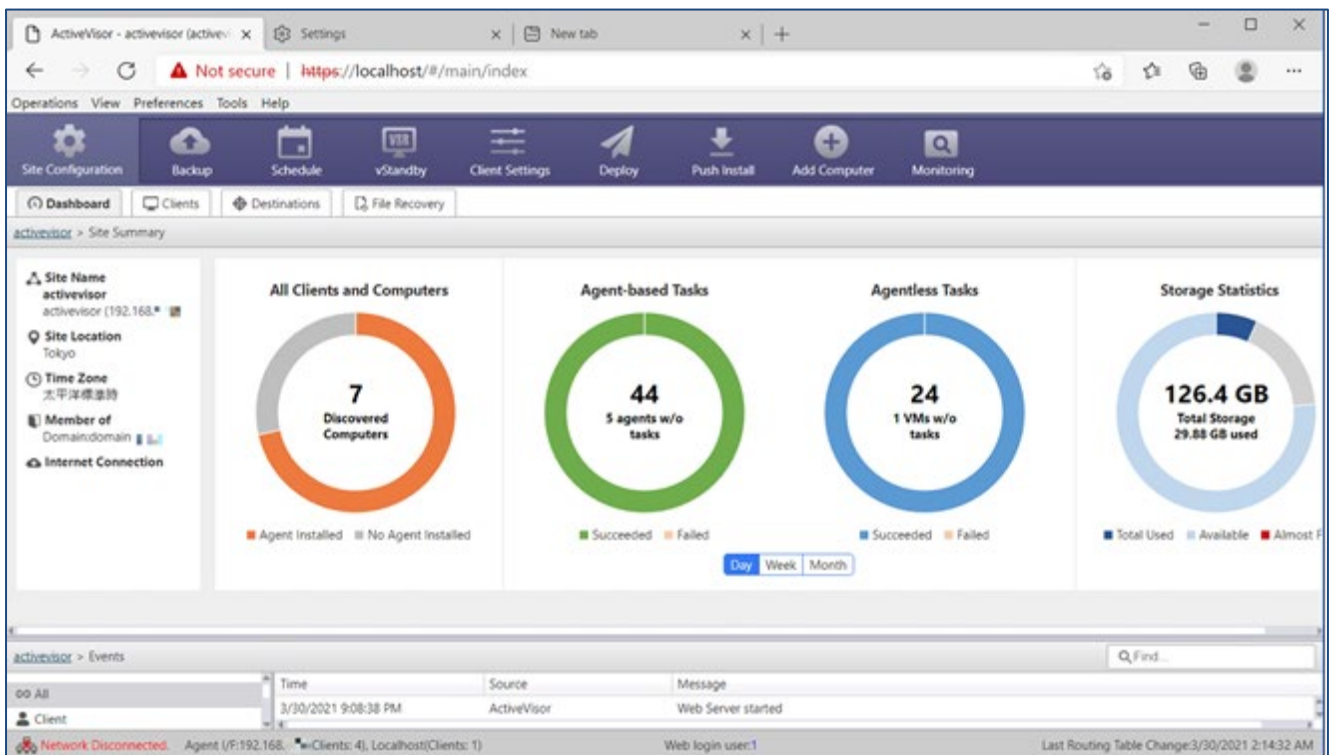


Fig. 2.16 Web browser-based ActiveVisor’s console

Display of the entire console window in Web browser requires a large screen size and high screen resolution (especially from side to side). “Web login user: 1” at the bottom of the console window indicates that the console is accessed via Web browser.

If the console text appears in “Japanese”, please select [View] in the menu bar and [Language] -> [English].

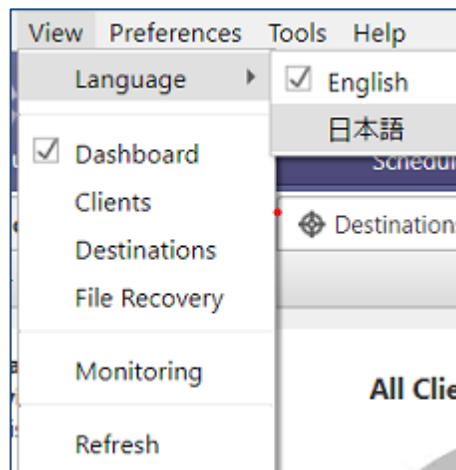


Fig. 2.17 Selected English Version

Administrators can more flexibly manage the client machines from any location using a Web browser-based console.

3. Create and Deploy Backup Tasks

This chapter provides the procedures to create agent-based backup tasks on client computers by using ActiveVisor.

- Create a Backup Schedule
- Specify the backup destination disk
- Deploy the backup settings to target clients

3.1 Create Backup Schedule

ActiveImage Protector allows flexible schedule settings for agent-based backup task. Using ActiveVisor, follow the procedures below to create and deploy schedule settings to target clients.

Select [Schedule] in the top menu to launch the Schedule Template Wizard.

The screenshot shows the 'Schedule Template Wizard' window with the '1. Schedule' tab selected. The 'Schedule Template Name' field contains 'Schedule'. Under the 'Base' section, the 'Monthly' radio button is selected, and a calendar grid shows the 1st of the month. Under the 'Incremental' section, the 'Weekly' radio button is selected, and a calendar grid shows Sunday. The 'Execute Time' is set to 09:00 AM. The 'Event Backup' section has 'Shutdown/Reboot' checked. The 'Option' section has 'Auto run if a scheduled task is missed' checked. Buttons at the bottom include 'Cancel', 'Previous', 'Next', and 'Save and Deploy'.

Fig. 3.1 Schedule Template Wizard

The following example shows how to configure the base and incremental backup schedules. In general, Weekly and Monthly options are provided for base backups, and weekly recurring times can be set at pre-defined intervals for incremental backups.

Fig. 3.2 shows that base backup task is scheduled on the 1st of every month, while incremental backups are scheduled every hour from 9:00 to 21:00, Monday to Friday. To create hourly incremental backups while the client is up and running, uncheck [End Time].

To schedule multiple backup tasks, click [Add new base] or [Add new incremental].

The screenshot shows the 'Schedule Template Wizard' window with the '1. Schedule' tab selected. The 'Schedule Template Name' is 'Schedule'. Under 'Base', 'Monthly' is selected with a calendar grid. Under 'Incremental', 'Weekly' is selected with a day-of-the-week grid. The 'Multi-times' option is selected for the incremental schedule, with 'Start Time' set to 09:00 and 'Interval' set to 60 minutes. The 'Execute Time' for the base is 09:00 AM. At the bottom, there are buttons for 'Cancel', 'Previous', 'Next', and 'Save and Deploy', along with checkboxes for 'Event Backup' and 'Option'.

Fig. 3.2 Add Backup Schedule

The following example shows how to configure the schedule settings for different timings. To delete a schedule, click the recycle bin button.

Generally, the backup schedule tasks are scheduled on a monthly or weekly basis. In addition, more flexible schedule options are provided, i.e., [Specified Date] and [Designate Specific Days]. Selecting [Specified Date], you can specify a date/time to perform a single full base backup task.

The screenshot shows the 'Schedule Template Wizard' window, specifically the '1. Schedule' tab. The 'Schedule Template Name' is 'Schedule'. Under the 'Base' section, the 'Specified Date' option is selected. The 'Execute Date' is set to '03/30/2021' and the 'Execute Time' is '09:00 AM'. The 'Incremental' section is also visible, with 'Day of the Week' selected. The 'Event Backup' section shows 'Shutdown/Reboot' selected. The 'Option' section has 'Auto run if a scheduled task is missed' selected. The 'Next' button is highlighted.

Fig. 3.3 [Specified Date]

Selecting [Designate Specific Days], you can schedule a single full base backup task, for example, “on the second Saturday” from January to December.

The screenshot shows the 'Schedule Template Wizard' window, specifically the '1. Schedule' tab. The 'Schedule Template Name' is 'Schedule'. Under the 'Base' section, the 'Day of the Week' option is selected. The 'Execute Date' is set to '03/30/2021' and the 'Execute Time' is '09:00 AM'. The 'Incremental' section is also visible, with 'Day of the Week' selected. The 'Event Backup' section shows 'Shutdown/Reboot' selected. The 'Option' section has 'Auto run if a scheduled task is missed' selected. The 'Next' button is highlighted.

Fig. 3.4 [Designate Specific Days] Schedule Option

This schedule option is convenient to schedule a backup task on a specific day of a specific week of a month according to a certain business rule, instead of a routine of business operations such as financial closing or inventory management.

Upon completion of the schedule setting, specify the template name.

Click [Next] to display Summary window as follows.

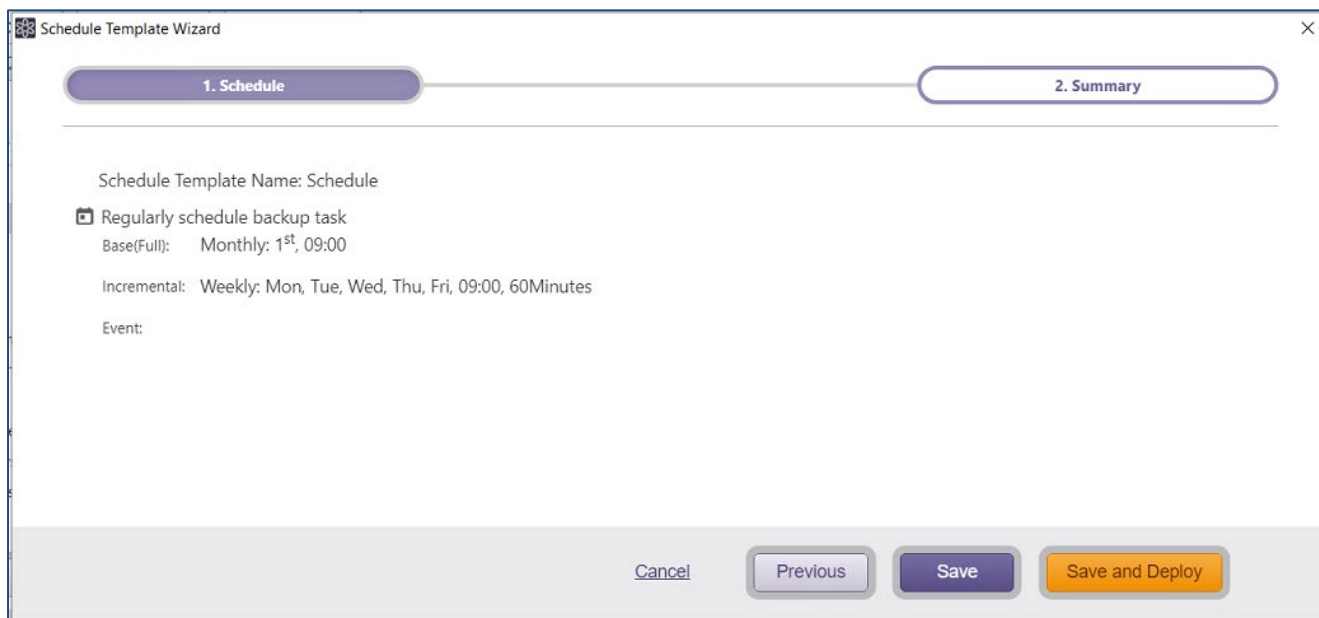


Fig. 3.5 Summary

Use the Summary window to review the backup settings and options. If you do not need to make changes, click [Save].

As shown in Fig. 3.5, [Save and Deploy] button is highlighted in orange color. Clicking this button saves and deploys the backup schedule to the target managed clients. If you need to run an immediate backup task, use this button. The following chapter provides the operating procedures on how to configure the settings for the source disk and deploying the template.

★Tips

The deploy command may be selected in the right-click menu displayed on a target managed client, menu bar, or control button. The following describes the standard operating procedures.

Select [Template] in the [Agent-based] tab to display a list of the created and saved backup schedules.

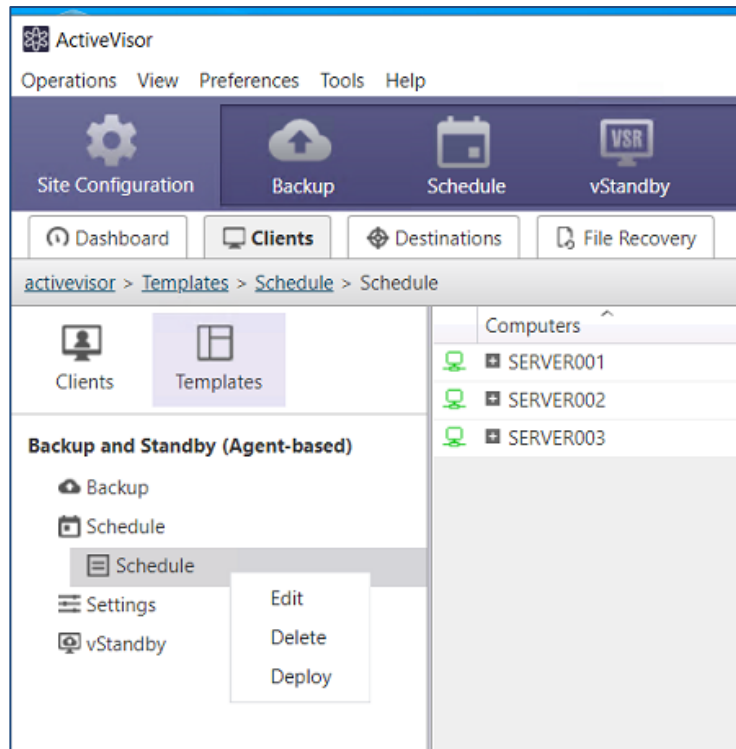


Fig. 3.6 [Templates] provides monitoring of scheduled backup tasks

To make changes to the backup schedule, select [Edit] from the right-click menu. You can also delete or deploy the backup schedule.

3.2 Configure the settings for the backup source disk

Let's configure the settings for backup source. Select [Backup] from the top menu.

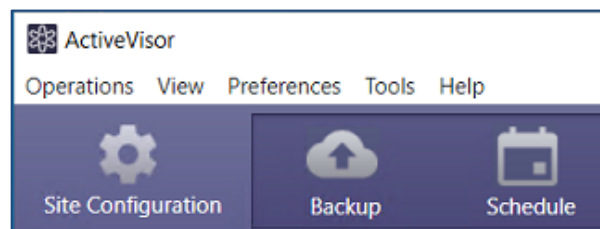


Fig. 3.7 Select [Backup]

Agent-based Backup Template Wizard is launched.

Agent-based backup template wizard.

1. Source — 2. Destination — 3. Options — 4. Summary

Backup Template Name: Client Backup

Task Name: Client Backup

☒ Entire Disk
 ☐ Volume
 ☐ Disk Layout

☐ Volume Layout

<input type="checkbox"/>	Disk	Volume Name	#	File System	Volume Size	Used Space	Associated
<input checked="" type="checkbox"/>	Disk 0						
<input type="checkbox"/>	Disk 1						
<input type="checkbox"/>	Disk 2						
<input type="checkbox"/>	Disk 3						
<input type="checkbox"/>	Disk 4						
<input type="checkbox"/>	Disk 5						
<input type="checkbox"/>	Disk 6						
<input type="checkbox"/>	Disk 7						

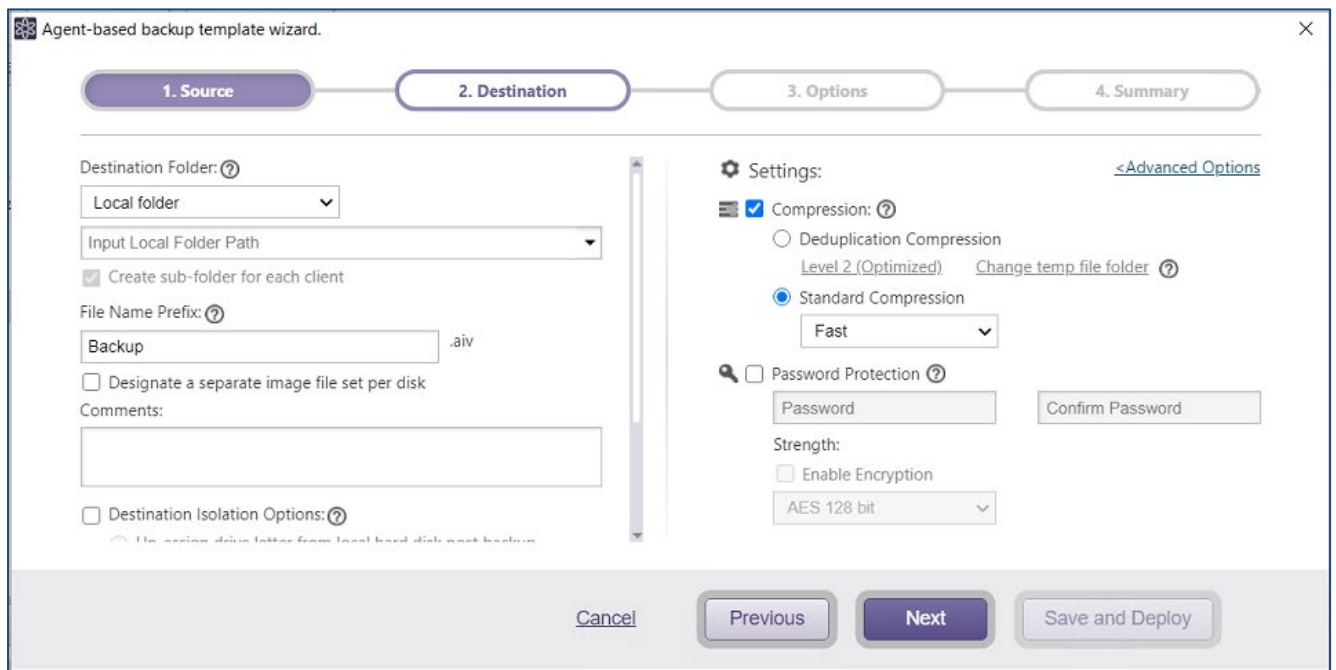
[Cancel](#)

Fig. 3.8 Agent-based Backup Template Wizard

First, you need to register backup source disks. The following example describes how to register “Disk 0” to ActiveVisor. By default, ActiveVisor can register up to 31 disks maximum.

This example shows that the template settings are configured for deployment to multiple clients. The same backup settings can be configured for different backup schedules. You can also specify a specific client’s volume layout for the backup source.

Click [Next] to configure the settings for the destination storage.



The image shows a screenshot of the 'Agent-based backup template wizard' window, specifically the '2. Destination' step. The window has a title bar with a close button (X) and a progress bar at the top with four steps: 1. Source, 2. Destination (selected), 3. Options, and 4. Summary.

The 'Destination' section contains the following fields and options:

- Destination Folder:** A dropdown menu currently set to 'Local folder'.
- Input Local Folder Path:** A text input field.
- Create sub-folder for each client:** A checked checkbox.
- File Name Prefix:** A text input field containing 'Backup', followed by a '.aiv' suffix.
- Designate a separate image file set per disk:** An unchecked checkbox.
- Comments:** A large text area.
- Destination Isolation Options:** An unchecked checkbox.

The 'Settings' section on the right includes:

- Settings:** A gear icon and a link to '<Advanced Options'.
- Compression:** A checked checkbox. Below it are two radio buttons: 'Deduplication Compression' (unselected) and 'Standard Compression' (selected). Under 'Standard Compression' is a dropdown menu set to 'Fast'. There are also links for 'Level 2 (Optimized)' and 'Change temp file folder'.
- Password Protection:** An unchecked checkbox. Below it are 'Password' and 'Confirm Password' input fields.
- Strength:** A section with an unchecked 'Enable Encryption' checkbox and a dropdown menu set to 'AES 128 bit'.

At the bottom of the window are four buttons: 'Cancel', 'Previous', 'Next' (highlighted in blue), and 'Save and Deploy'.

Fig. 3.9 Destination Setting

By default, [Local folder] is selected. Click [▼] and select [Network shared folder]. Then, click [▼] to the right of [Select network shared folder] and select [Add new].

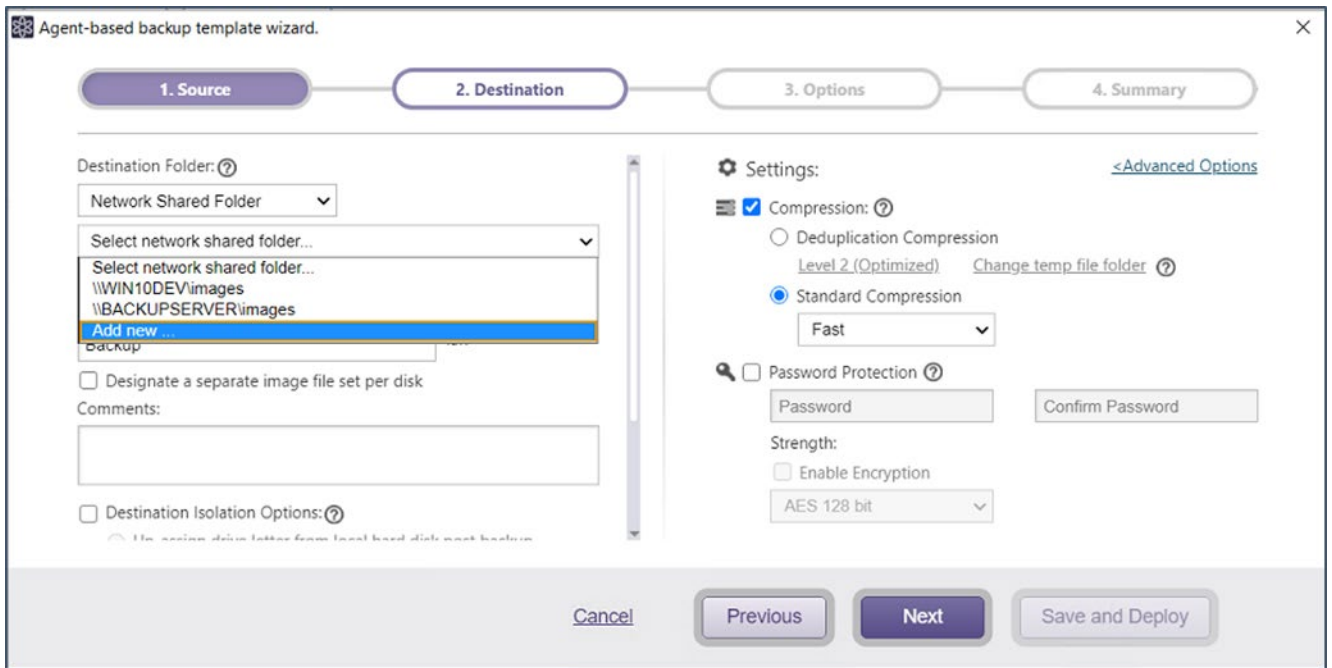


Fig. 3.10 Select Network Shared Folder

Select a folder in the [Select Folder] dialog and click [OK].

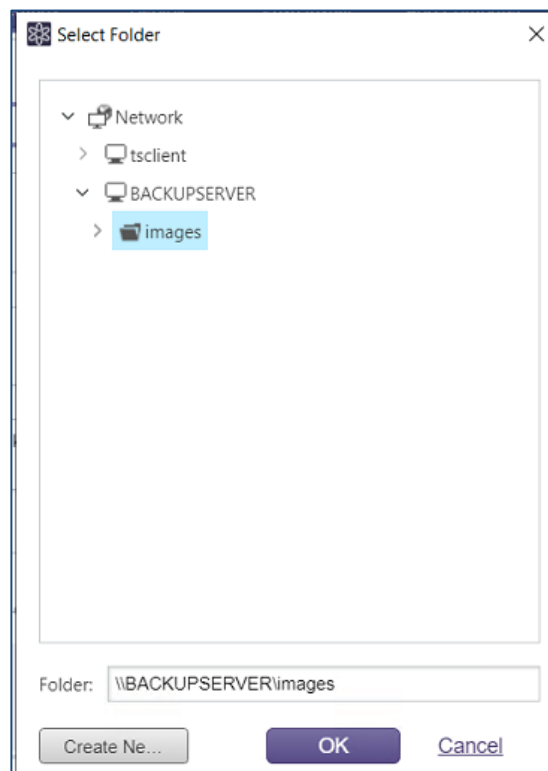


Fig. 3.11 Select Folder

The destination setting window is displayed as shown in Fig. 3.12.

Agent-based backup template wizard.

1. Source 2. Destination 3. Options 4. Summary

Destination Folder: ?
Network Shared Folder
\\BACKUPSERVER\\images
☒ Create sub-folder for each client
File Name Prefix: ?
Backup .aiv
☐ Designate a separate image file set per disk
Comments:
☐ Destination Isolation Options: ?
Use another drive letter from local hard disk next backup

Settings: [<Advanced Options](#)

☒ Compression: ?
☐ Deduplication Compression
Level 2 (Optimized) [Change temp file folder](#) ?
☒ Standard Compression
Fast
☐ Password Protection ?
Password Confirm Password
Strength:
☐ Enable Encryption
AES 128 bit

Cancel Previous Next Save and Deploy

Fig. 3.12 Example of the destination setting

You can use a NAS or a shared folder over LAN to save daily backups, while the weekly or monthly backups are saved in the destinations in a branch office or head office at remote sites. Replication of backups at different locations offers a higher level of redundancy and an efficient disaster recovery solution. However, depending on network conditions, it increases network load and results in longer backup time. When configuring the settings, take into consideration optimizing the network load balance.

Enable [Create sub-folder for each client] to create a sub-folder named with the client name under the specified destination folder to save the respective backup files.

Please specify the backup file name for [File Name Prefix].

The above Fig. 3.12 shows that by enabling [Designate a separate image file set per disk], a backup file per disk is created.

Define [Comment:] to identify the created backup file.

Enabling the compression option reduces storage requirements by further compacting the backup image file. Select the desired type of compression; Deduplication Compression or Standard Compression.

Select one of the three levels of Deduplication Compression available (the lower the level, the higher the compression rate.) Level 1 compression may increase the overall backup processing time but achieves the most tightly compressed image file.

You can choose from two Standard Compression levels; Fast and High.

Enabling the encryption for the backup image file ensures that the backup file cannot be compromised. There are three levels of encryption to choose from. AES 128 or AES 256 bit is a stronger encryption method than RC5 with a fixed block size and a key size of 128 or 256 bits. Enable [Password Protection] by first checking the box, then setting the password.

Enable [Destination Isolation] option to disconnect network access to backup image storage drives or set the destination disk to offline upon completion of backup process. Imagelocate technology protects the backup storage and backup files from potential malware or ransomware attacks.

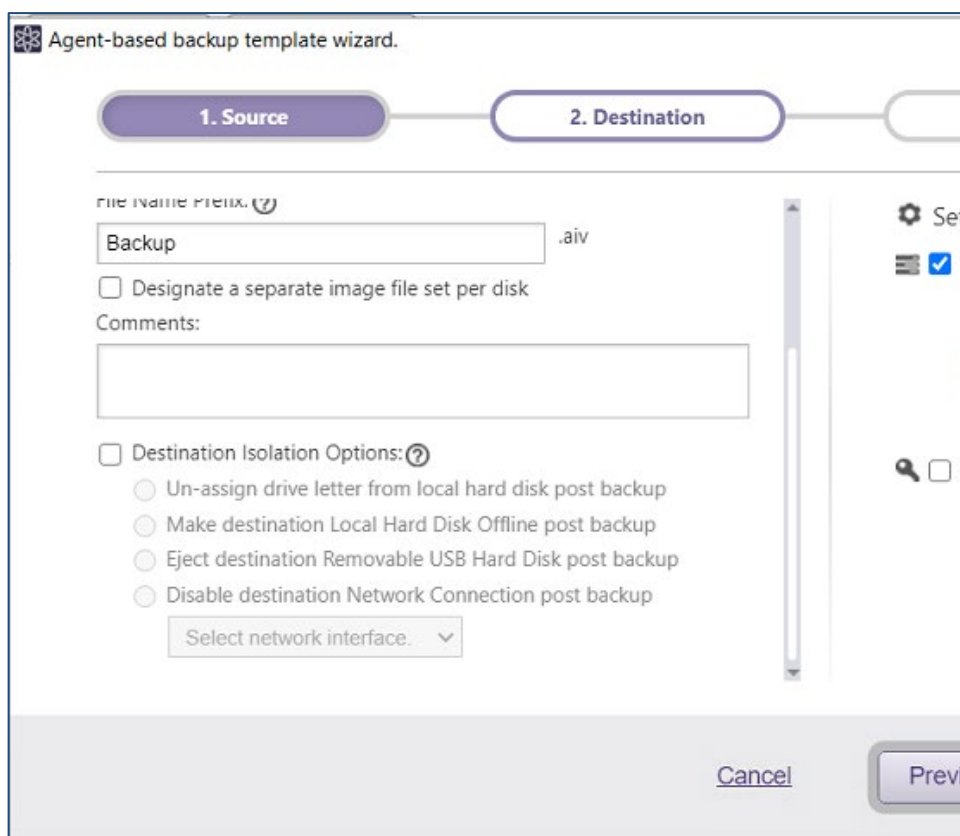


Fig. 3.13 Destination Isolation Options

[Destination Isolation] provides four options. Enabling [Un-assign drive letter from Local Hard Disk post backup], the drive letter assigned to the local hard disk is de-assigned upon completion of backup process. Selection of [Make destination Local Hard Disk Offline post backup] sets the destination disk to offline upon completion of backup process (the same behavior as [Disk Management] in Disk Management Tool). When [Eject destination Removable USB Hard disk post backup] is enabled, a removable hard disk such as USB hard disk becomes removable upon completion of backup process. If [Disable destination Network Connection post backup] is enabled, network connection to backup destination is disconnected upon completion of backup process. You can select the network interface to block in the selection box at the bottom.

Click [Advanced Options] in the above dialog to configure the advanced option settings.

The screenshot shows the 'Agent-based backup template wizard' dialog box. The title bar reads 'Agent-based backup template wizard.' and there is a close button (X) in the top right corner. The main content area is titled 'Advanced Backup Settings:' and contains several sections:

- General**:
 - ☐ Split image into 0 MB files.
 - ☒ Ignore bad sectors.
 - ☐ Create an MD5 file for image.
 - ☐ Use network write caching.
 - ☐ Backup timeout: 12 Hours
 - ☐ Make backup image file P2V ready.
 - ☐ Use Network Throttle: 0 (Max KB/Second)
 - ☒ Ignore inaccessible volume(s).
- VSS Settings**:
 - Operation Mode: ☒ Component mode ☐ None-component mode
 - Excluding files:
 - ☒ pagefile
 - ☒ hiberfil
 - ☒ System Volume Information
- Deduplication Compression**:
 - If insufficient disk space is deleted before operation:
 - ☒ Auto-switch from default to an alternate folder.
 - ☒ Continue operation with [Standard] compression.
 - Temporary file folder: C:\windows\temp
- Scripting**:
 - Script to Execute Before the Snapshot is Taken: [Text Box] [Browse] [30 mins.] [Base and Incremental]
 - Script to execute after the snapshot is taken: [Text Box] [Browse] [30 mins.] [Base and Incremental]
 - Script to execute after image creation succeed: [Text Box] [Browse] [30 mins.] [Base and Incremental]
 - ☐ Force script execution.

At the bottom right, there are three buttons: 'Cancel', 'Apply', and 'Done'.

Fig. 3.14 Advanced Backup Settings

[General] options are provided as shown in Fig. 3.14.

- Split image into xx MB files.
- Ignore bad sectors.

- Create an MD5 file for image.
- Use network write caching
- Backup timeout xx hours
- Make backup image file P2V ready
- Use network throttle
- Ignore inaccessible volume.

The following options are provided for [VSS Settings].

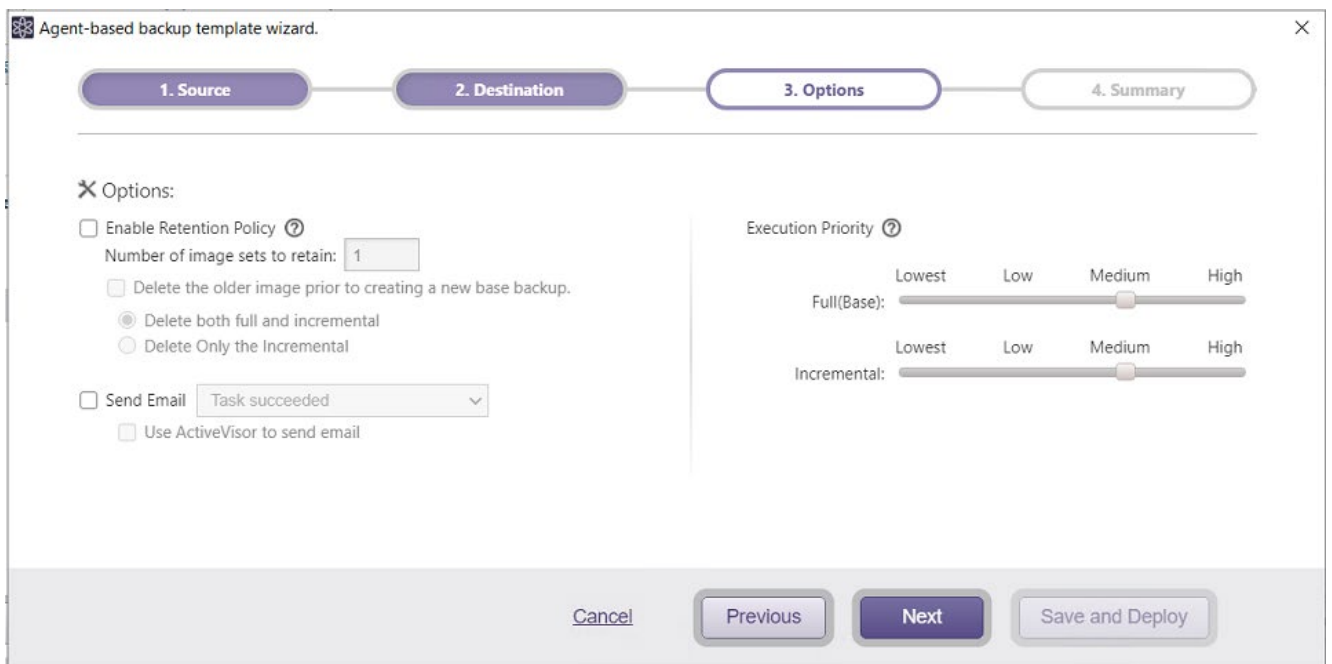
- Operation Mode –
- Component mode, Non-component mode
- Excluding files - Page file, hiberfil, System volume information

There are three options for [Deduplication Compression] as shown in Fig. 3.14:

- Auto-switch from default to an alternative folder
- Continue operation with [Standard] compression
- Temporary File Folder

Scripts can be implemented to run before and or after snapshots are taken or after the backup image has been created. Use the dialog box below to execute scripts.

Click [Done] to go back to the dialog shown in Fig. 3.12 and click [Next] to proceed with the [Options] setting.



The image shows a screenshot of the 'Agent-based backup template wizard' window, specifically the '3. Options' step. The window has a title bar with a close button (X) and a progress bar at the top with four steps: 1. Source, 2. Destination, 3. Options (current), and 4. Summary. The main content area is titled 'Options:' and contains several settings. On the left, there is a checkbox for 'Enable Retention Policy' with a help icon. Below it is a text box for 'Number of image sets to retain:' with the value '1'. There are three radio button options for deletion: 'Delete the older image prior to creating a new base backup.', 'Delete both full and incremental' (which is selected), and 'Delete Only the Incremental'. Below these is a checkbox for 'Send Email' with a dropdown menu showing 'Task succeeded' and a checkbox for 'Use ActiveVisor to send email'. On the right, there is a section for 'Execution Priority' with a help icon. It contains two sliders: 'Full(Base):' and 'Incremental:'. Both sliders have a scale from 'Lowest' to 'High' with intermediate markers for 'Low' and 'Medium'. The 'Full(Base):' slider is set to 'Medium' and the 'Incremental:' slider is also set to 'Medium'. At the bottom of the window, there are four buttons: 'Cancel', 'Previous', 'Next' (highlighted in blue), and 'Save and Deploy'.

Fig. 3.15 Options

The following options are provided for scheduled backup tasks:

- Enable Retention Policy
- Send email
- Execution Priority

Select the [Enable Retention Policy] option to define how many sets of incremental backup files to retain before deletion. You can also select an option to decide how ActiveImage Protector should behave when the number of the incremental backup files exceeds the predefined threshold.

Enable [Send E-Mail] option to send E-Mail informing you of a task completed with a specified status.

Click [Next] to review Summary.

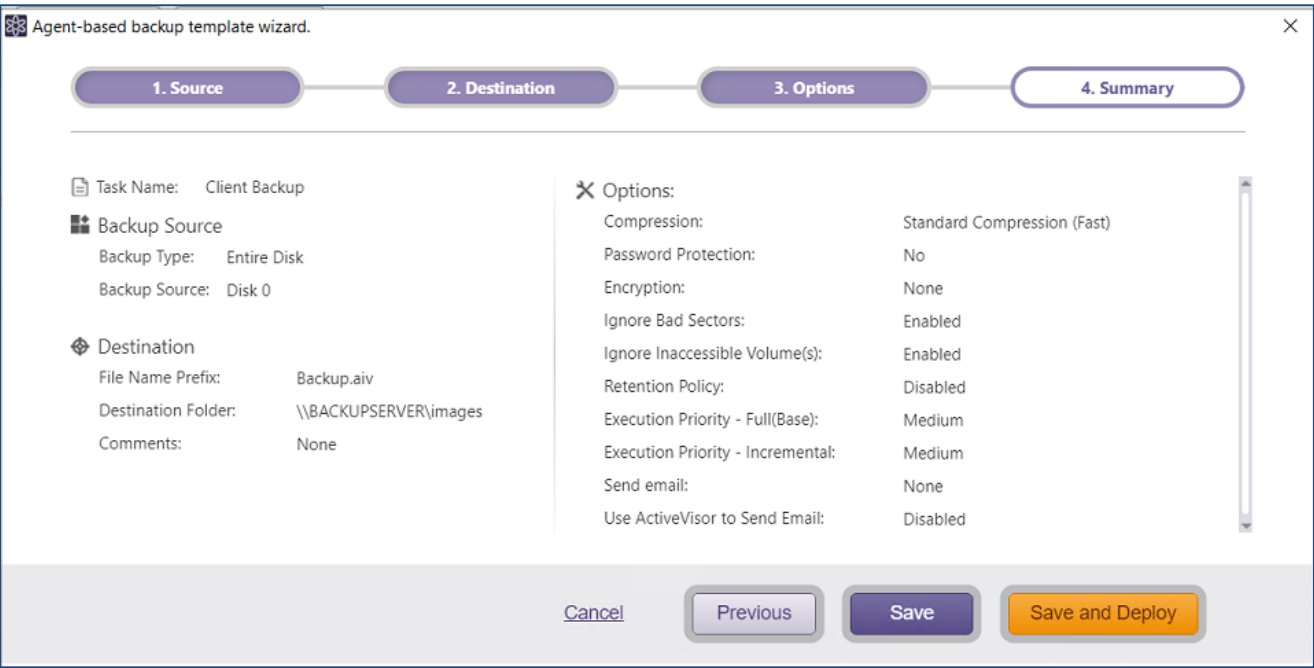


Fig. 3.16 Summary

Please review the configured settings and click [Save] to save the created template if there is no need for changes. The saved template is shown in [Template] in the client list. The saved template settings can be edited, deleted, and deployed at a later time.

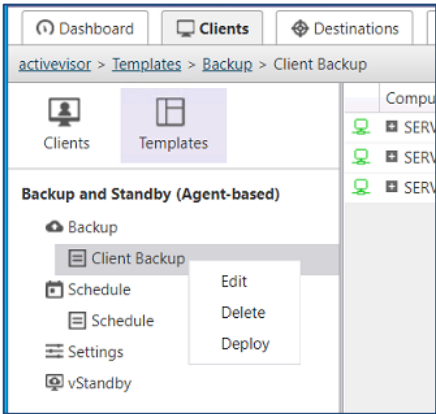


Fig. 3.17 Backup template in [Template]

Now, you are ready to deploy the backup settings to the target agent-based clients.

3.3 Deploy to Target Clients

Click [Deploy] in top menu to display the sub-menu as follows:

- Backup (Agent-based)
- Schedule
- vStandby Task
- Backup Agent Settings

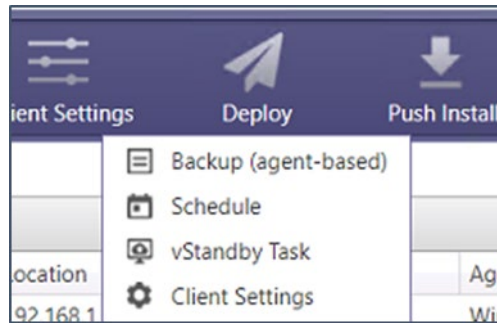


Fig. 3.18 [Deploy] Menu

To deploy the backup settings to agent-based clients, select [Backup (Agent-based)] in the sub-menu to launch the Deploy Dialog as follows:

The Deploy Dialog window contains the following elements:

- Two dropdown menus at the top: "Select Backup Template" and "Select Schedule Template", each with a downward arrow icon.
- Two summary sections: "Backup Summary" with a "Show Detail" link, and "Schedule Summary" with a "Show Detail" link.
- A "Task Name" text input field.
- A "Target Computers" section with an "Add new ..." button.
- A table with the following columns: "Computers" (with an expand/collapse icon), "IP Address", "System", "Status", and an edit icon.
- A footer area with a "Cancel" link and a "Deploy" button.

Computers	IP Address	System	Status
-----------	------------	--------	--------

Fig. 3.19 Deploy Dialog

[▼] is indicated for [Select Backup Template] and [Select Schedule Template] respectively. Click [▼] button to display the created schedule or a backup template.

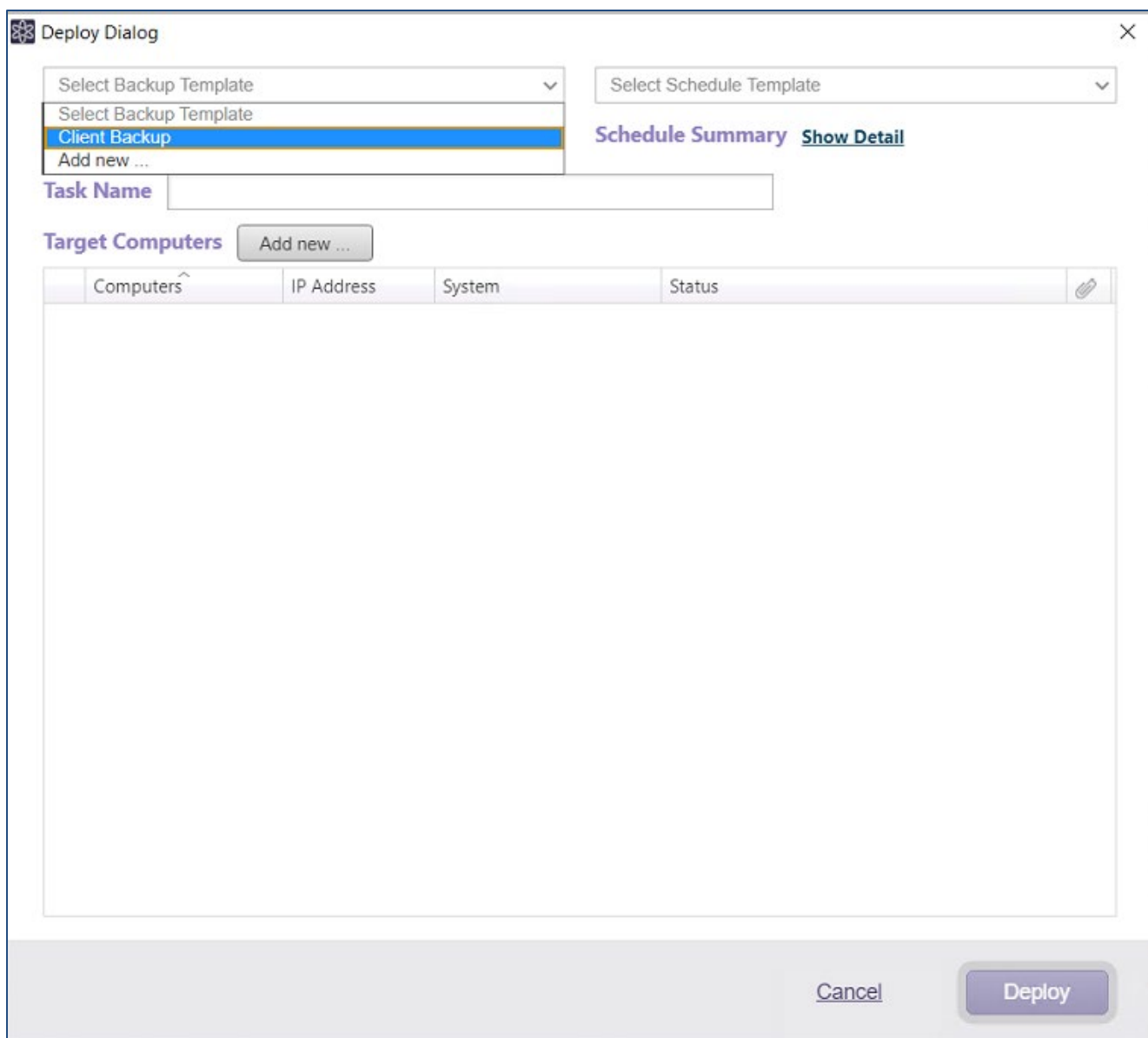


Fig. 3.20 Pull-down menu displayed for [Select Backup Template]

Select [Client Backup] created above in the pull-down menu of [Select Backup Template].

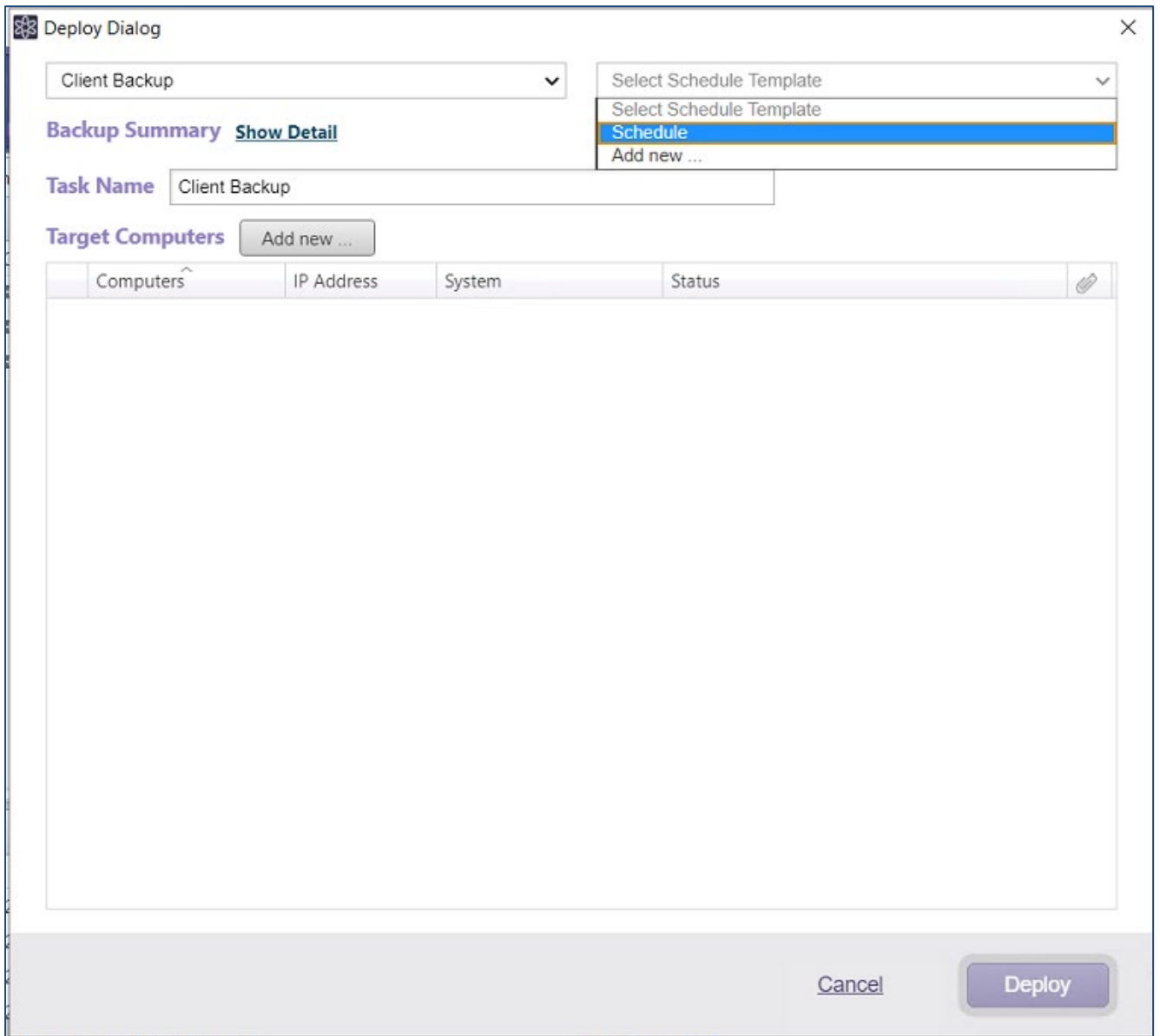


Fig. 3.21 Pull-down menu displayed for [Select Schedule Template]

Select [Schedule] created above in the pull-down menu displayed for [Select Schedule Template] and click [Add New] to select deploy target agent-based client.

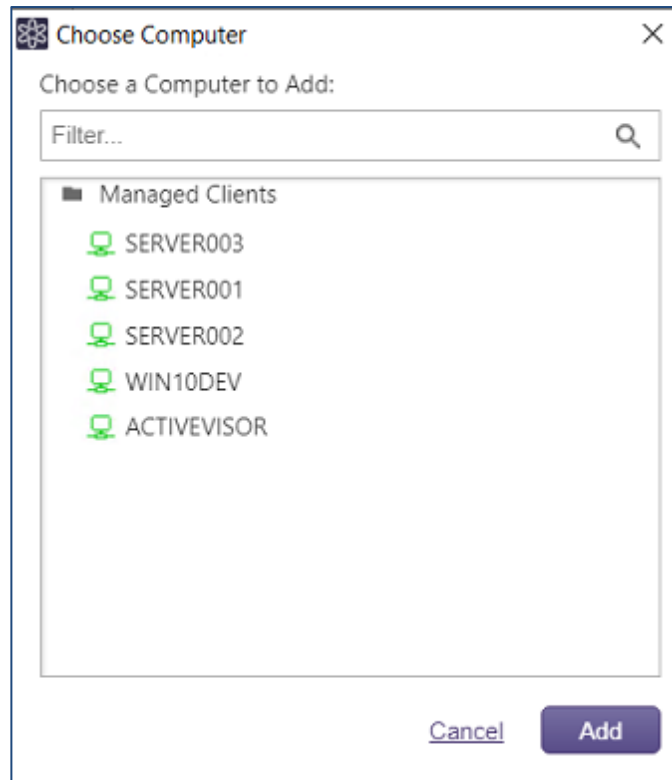


Fig. 3.22 Select Clients

Select a deploy target client as shown in Fig. 3.22. Click [Add] to add the client under [Managed Clients].

Deploy Dialog

Client Backup Schedule

Backup Summary [Show Detail](#)

Task Name: Client Backup

Backup Source

Backup Type: Entire Disk

Backup Source: Disk 0

Destination

Schedule Summary [Show Detail](#)

Base(Full): Monthly:1st, 09:00

Incremental: Weekly:Monday, Tuesday, Wednesday, Thursday, Friday, 09:00, 60 minutes

Event:

Execution Options

☒ Delay Schedule for Each Client 1 min

☐ Deploy Schedule Disabled

Effective Dates/Time

From: 03/30/2021 11:24 PM

To: 03/30/2022 11:24 PM

☒ Not Specific

Task Name Client Backup

Target Computers [Add new ...](#)

Computers	IP Address	System	Status
SERVER003	192.168.	Windows Server 2019	

[Cancel](#) [Deploy](#)

Fig. 3.23 Add Client to Target Computers

You can select Execution Options as follows. Click [Show Detail] to display the detailed information as shown in Fig. 3.23.

[Delay schedule for each client xx mins]: Enable this option to run deploy tasks to multiple clients by shifting the scheduled time.

[Deploy schedule disabled]: Enable this option to disable the deployed schedules.

[Effective Dates/Times]: Specify the period for enabling the scheduled task to deploy. By selecting [Not specific], the schedule will be enabled for unlimited period.

If you do not need to make changes in the above settings, click [Deploy]. The backup settings are deployed to clients. When successful, [Successful] is indicated as shown in Fig. 3.24.

The screenshot shows the 'Deploy Dialog' window with the following sections:

- Client Backup** (selected in the dropdown)
- Schedule** (selected in the dropdown)
- Backup Summary** (with a [Show Detail](#) link):
 - Task Name: Client Backup
 - Backup Source:
 - Backup Type: Entire Disk
 - Backup Source: Disk 0
 - Destination
- Schedule Summary** (with a [Show Detail](#) link):
 - Base(Full): Monthly:1st, 09:00
 - Incremental: Weekly:Monday, Tuesday, Wednesday, Thursday, Friday, 09:00, 60 minutes
 - Event:
- Execution Options**:
 - ☒ Delay Schedule for Each Client 1 min
 - ☐ Deploy Schedule Disabled
- Effective Dates/Time**:
 - From: 03/30/2021 11:24 PM
 - To: 03/30/2022 11:24 PM
 - ☒ Not Specific
- Task Name**: Client Backup
- Target Computers** (with an [Add new ...](#) button):

Computers	IP Address	System	Status
SERVER003	192.168.1.1	Windows Server 2019	Successful

At the bottom right, there are [Cancel](#) and [Close](#) buttons.

Fig. 3.24 Deployment succeeded

You can monitor the status of the deployed task in [Client] - [Task] tab.

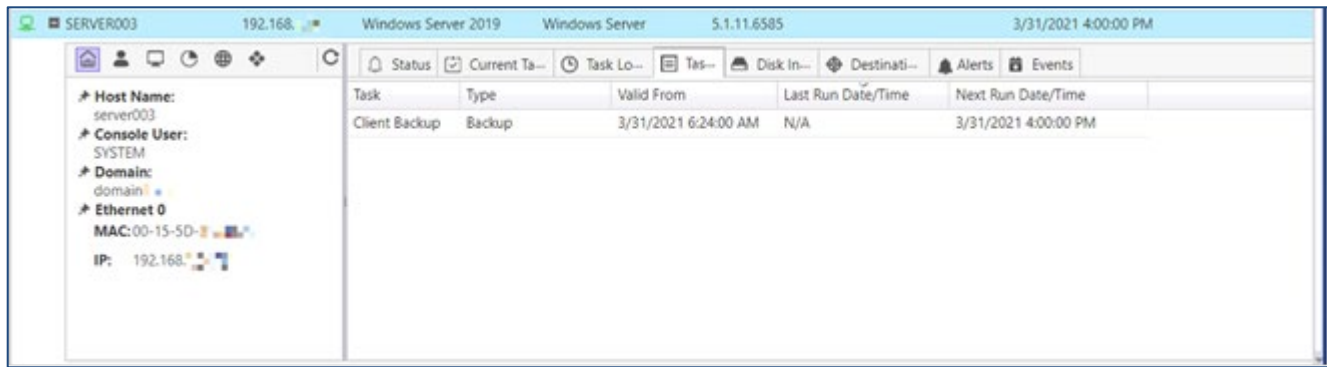


Fig.3.25 Monitor the status of Deploy task in the [Client] - [Task] tab

In the [Deploy] menu shown in Fig. 3.18, select [Schedule] to display Deploy Dialog as shown in Fig. 3.26.

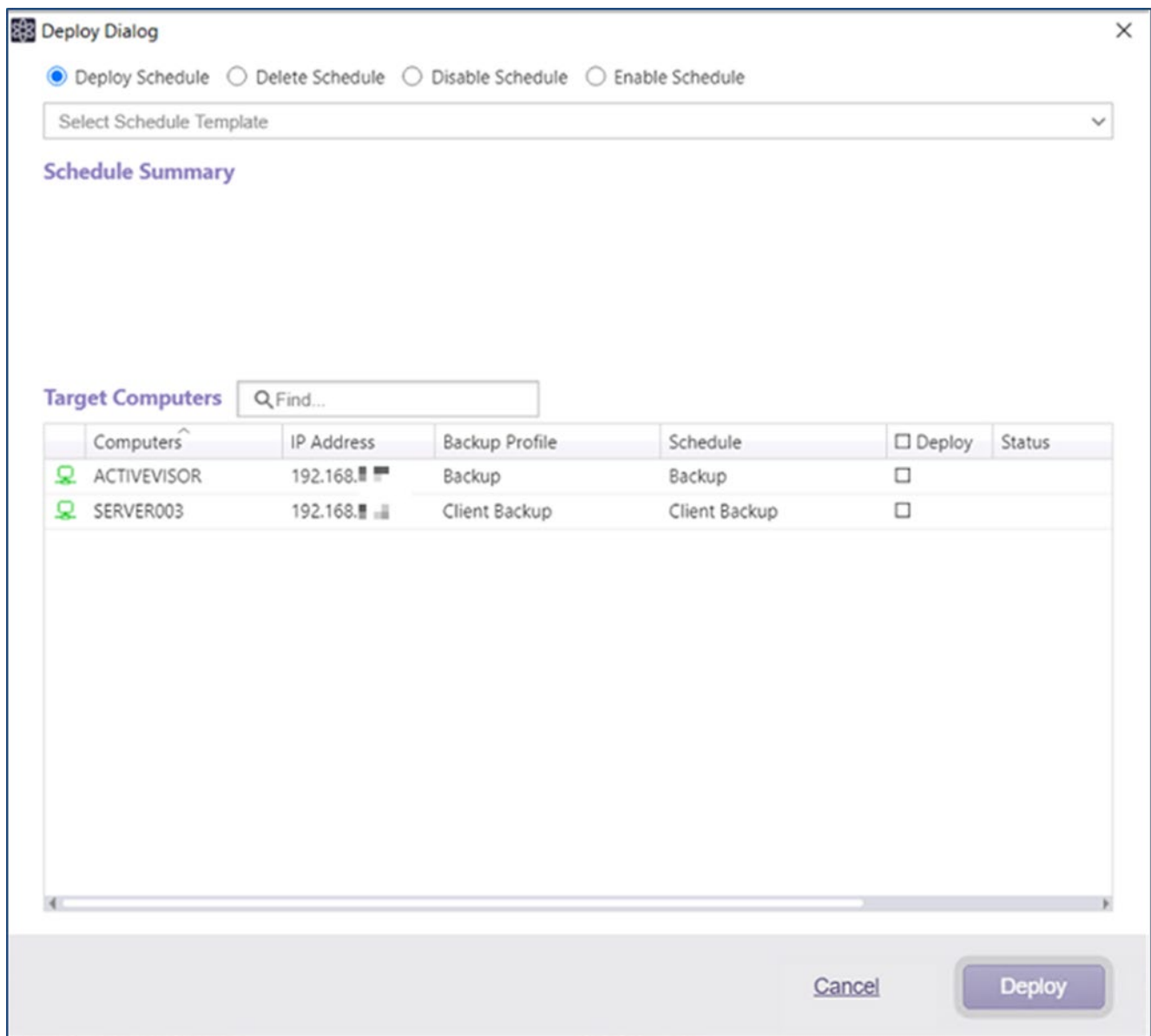


Fig. 3.26 Select [Deploy Schedule] in Deploy Dialog

You can select a backup schedule only. It is recommended to use this command to edit backup schedules only.

The deployed schedule may be deleted, disabled or enabled as well as deploying a schedule.

4. ActiveVisor's Management Tools

Once execution of a scheduled backup task starts, a variety of information is recorded as log events which will be useful for daily backup task management.

4.1 [Dashboard] tab

The [Dashboard] tab provides graphical representation in a pie chart indicating the number of agent-based backup tasks, agentless backup tasks, storage statistics, successful or failed backup tasks and available storage space.

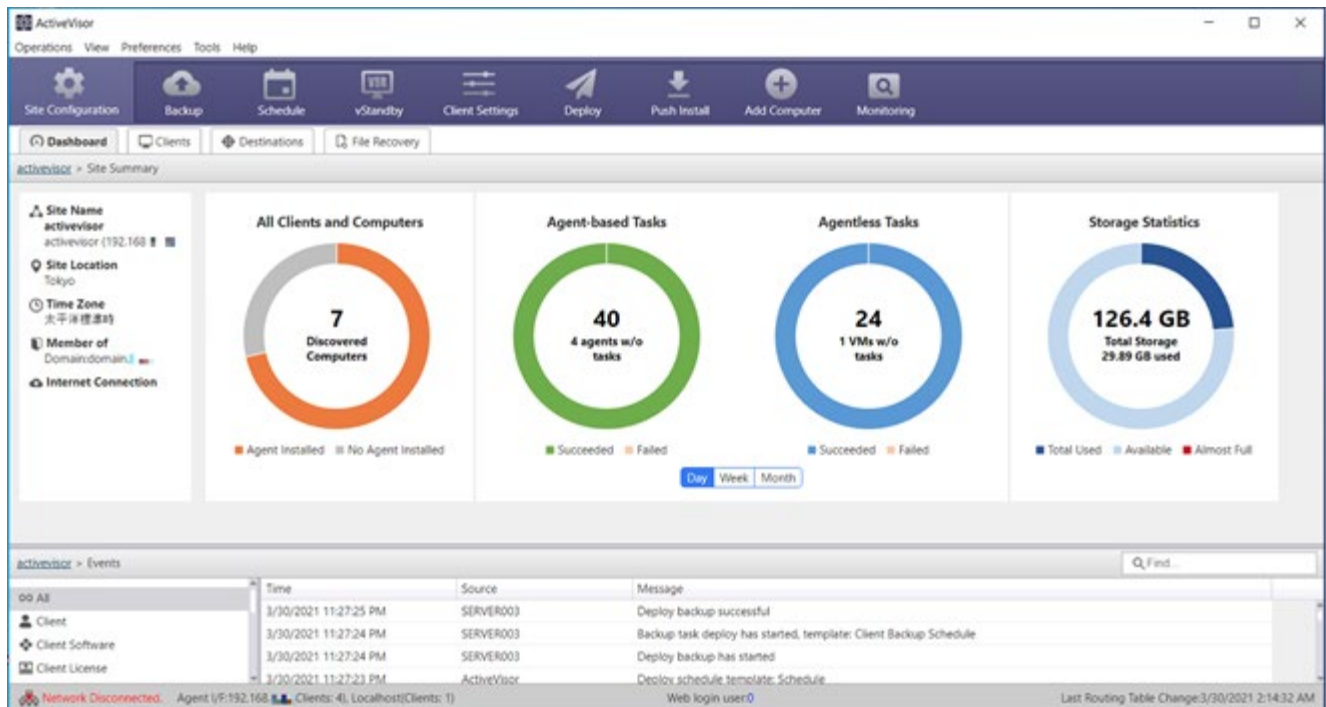


Fig. 4.1 [Dashboard] tab

4.2 [Client] Tab

[Client] tab shows the discovered agent-based clients and created templates.

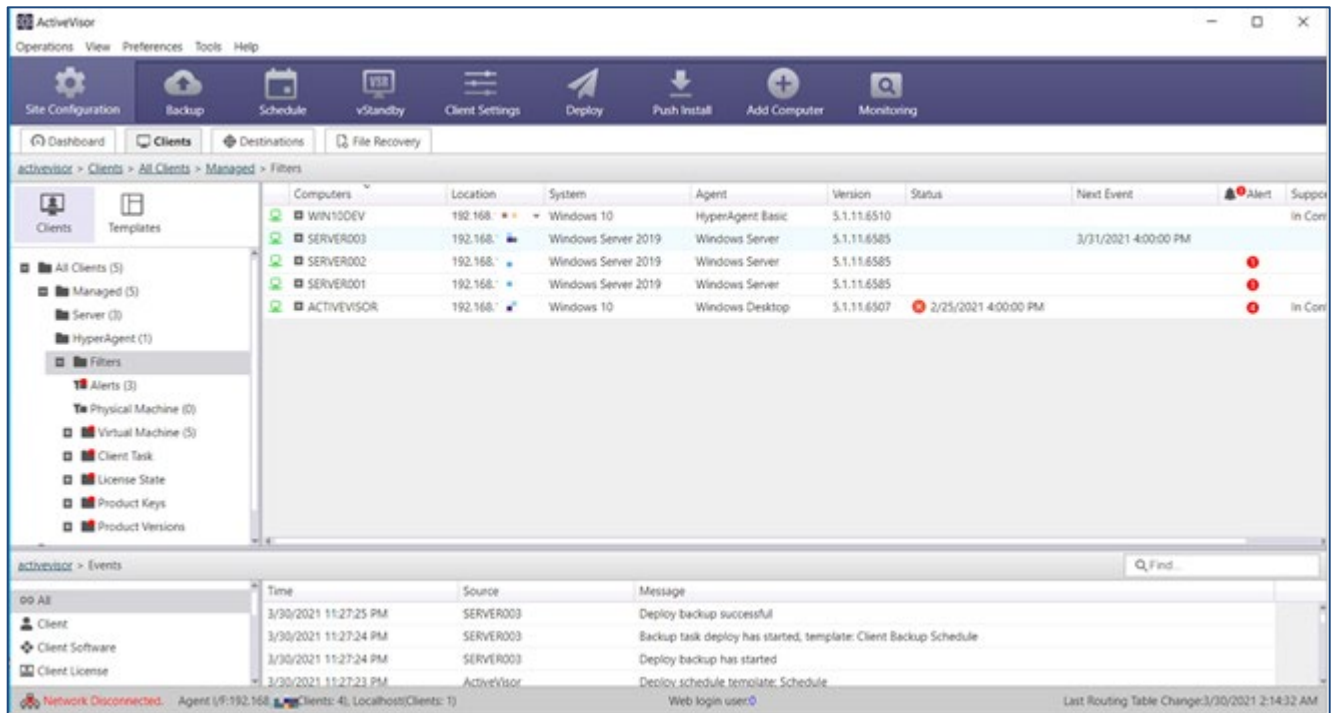


Fig. 4.2 Managed clients listed in [Agent-based] tab

Define groups and sub-groups in the client list by right-clicking on the client list to select [Create New Group] from the context-menu.

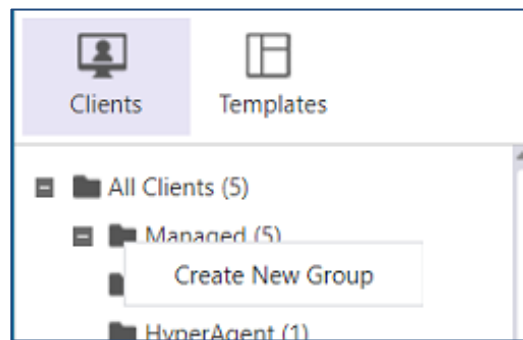


Fig. 4.3 [Create New Group] menu

Select [Create New Group] to create a sub-group named “New Group” under the Managed.

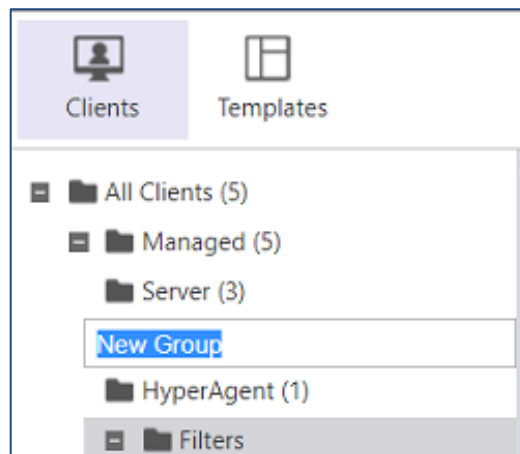


Fig. 4.4 Create a sub-group

Drag and drop the clients to the created sub-group. In this example, the sub-folder named “Server” is created and “Server01-03” are moved to the sub-folder.

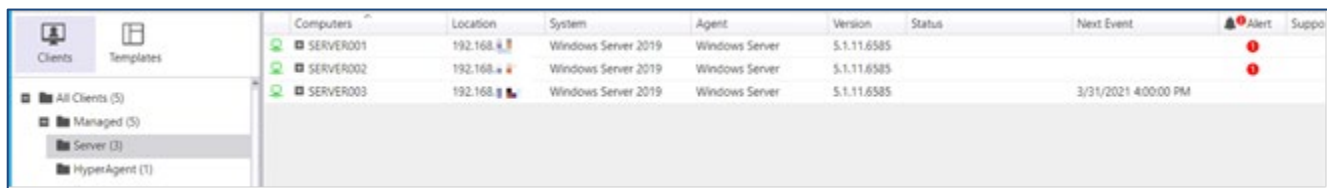


Fig. 4.5 Grouping clients

Click [+] at the top of the managed clients list to display more detailed information.

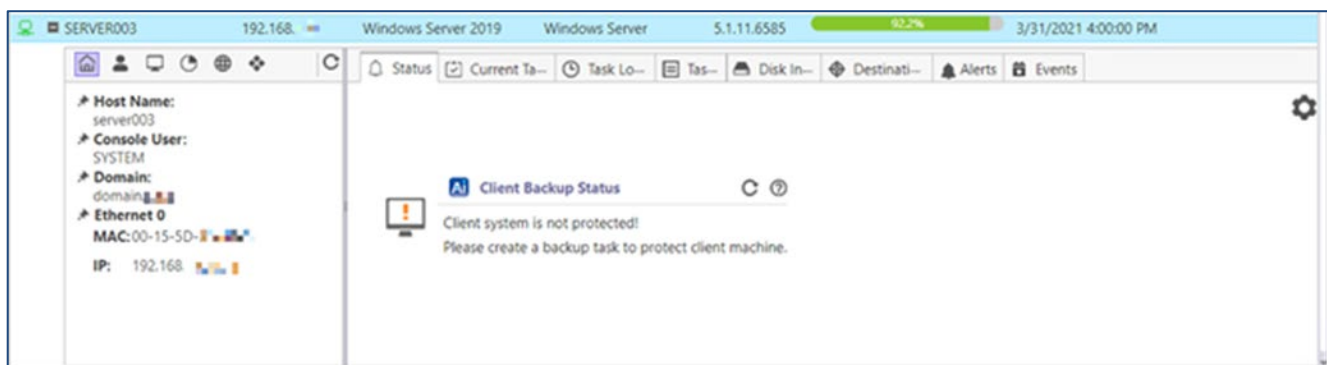


Fig. 4.6 Detailed client information

Selecting a button at the upper left displays the information including the client OS, network, etc.

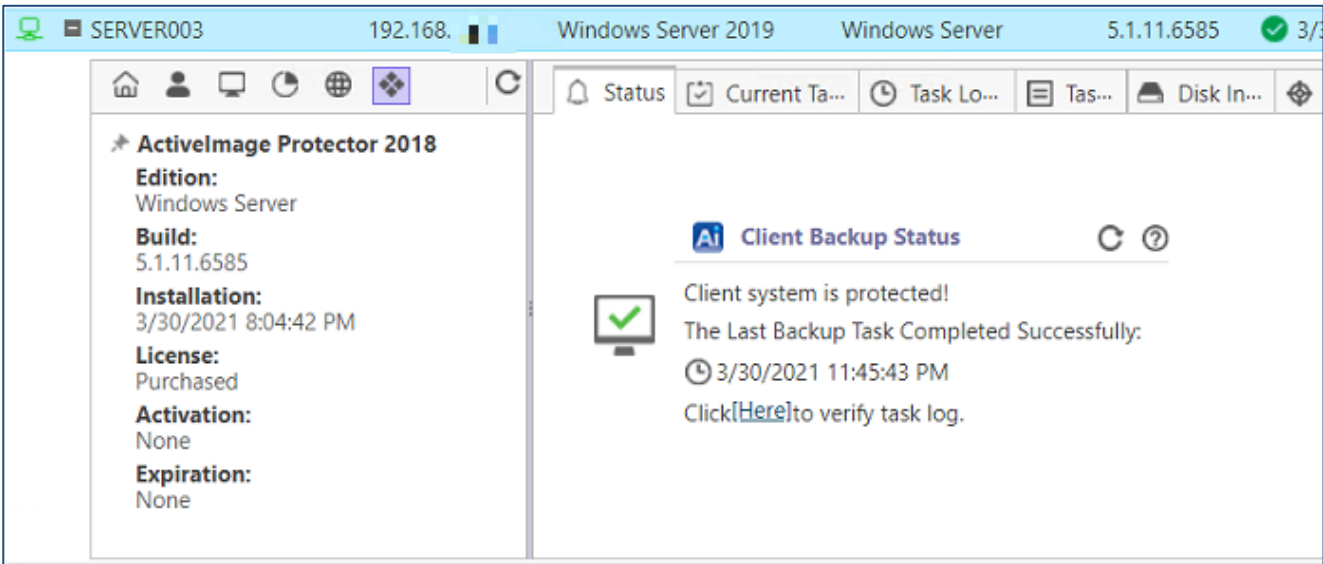


Fig. 4.7 ActiveImage Protector agent on clients

The right pane of the dialog has several tabs.

The most recent backup status is displayed in the [Current Task] tab (Fig. 4.6 and 4.7).

The status of the currently running task is displayed in [Current Task] tab.

The progress bar displays the percentage completed of a running task.

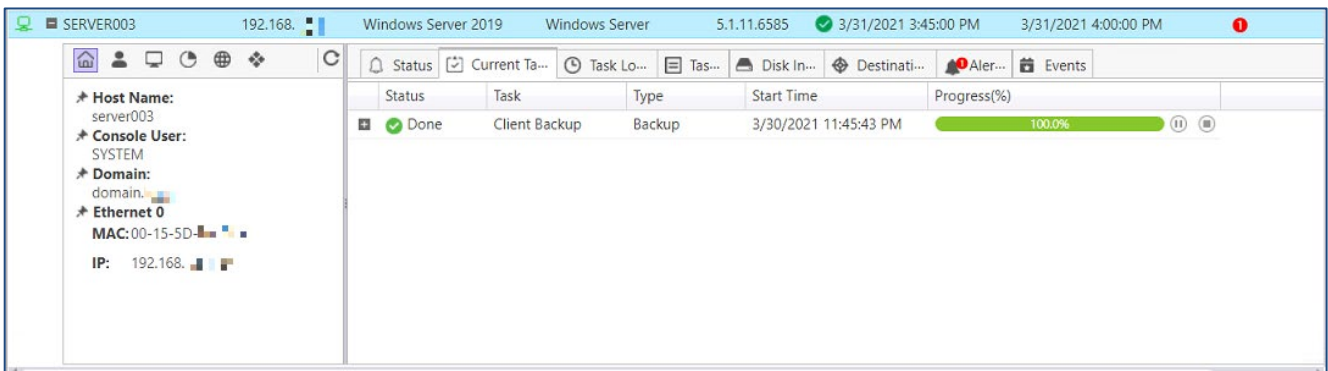


Fig. 4.8 [Current Task] tab

Client log information is displayed in the [Task Logs] tab.

Task ID	Log ID	Result	Started	Ended	Details
Client Bac...	1617173142	Success	3/30/2021 11:45:43 ...	3/30/2021 11:46:29 ...	Processed 7.04 GB in 00:00:45 l...
Client Bac...	1617156000	Success	3/30/2021 7:00:01 PM	3/30/2021 7:00:34 PM	Processed 0.02 GB in 00:00:32 l...
Client Bac...	1617152401	Success	3/30/2021 6:00:02 PM	3/30/2021 6:00:34 PM	Processed 0.02 GB in 00:00:32 l...
Client Bac...	1617148800	Success	3/30/2021 5:00:02 PM	3/30/2021 5:00:33 PM	Processed 0.02 GB in 00:00:31 l...
Client Bac...	1617145200	Success	3/30/2021 4:00:01 PM	3/30/2021 4:00:33 PM	Processed 0.02 GB in 00:00:31 l...
Client Bac...	1617141600	Success	3/30/2021 3:00:02 PM	3/30/2021 3:00:33 PM	Processed 0.02 GB in 00:00:31 l...
Client Bac...	1617138001	Success	3/30/2021 2:00:02 PM	3/30/2021 2:00:33 PM	Processed 0.02 GB in 00:00:30 l...
Client Bac...	1617134400	Success	3/30/2021 1:00:01 PM	3/30/2021 1:00:33 PM	Processed 0.02 GB in 00:00:31 l...
Client Bac...	1617130800	Success	3/30/2021 12:00:02 ...	3/30/2021 12:00:35 ...	Processed 0.02 GB in 00:00:32 l...

Fig. 4.9 [Task Logs] tab

The list of tasks saved on a client is displayed in [Tasks] tab.

Task	Type	Valid From	Last Run Date/Time	Next Run Date/Time
Client Backup	Backup	3/31/2021 6:24:00 AM	3/31/2021 3:45:00 PM	3/31/2021 4:00:00 PM

Fig. 4.10 [Tasks] tab

Right-click on a task name to display the context menu and select an operation for the task.

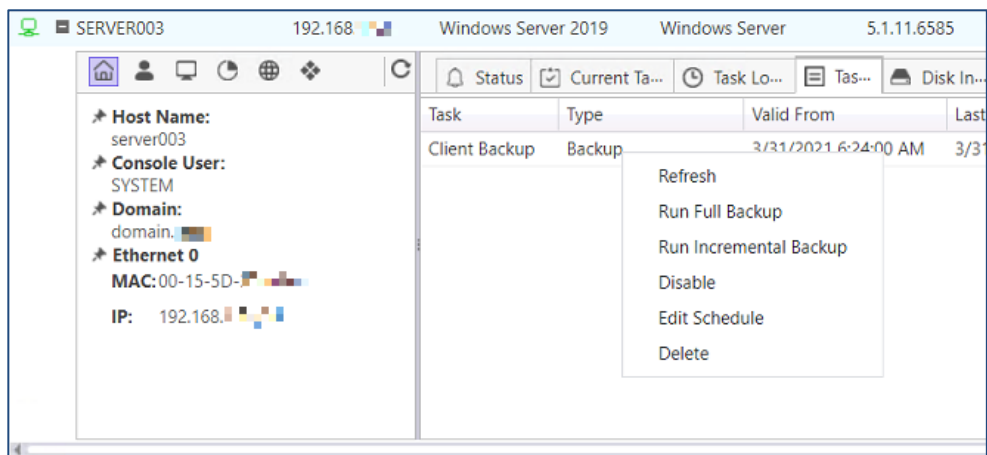


Fig. 4.11 Context menu for initiating a task operation

The disk information of clients is displayed in [Disk Info] tab.

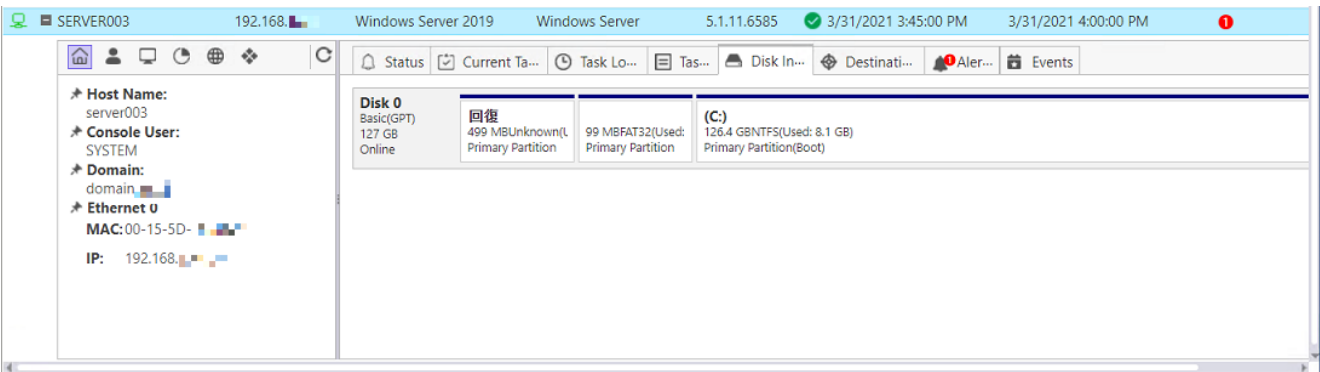


Fig. 4.12 [Disk Information] tab

The information of backup destination disk is displayed in [Destination] Tab.

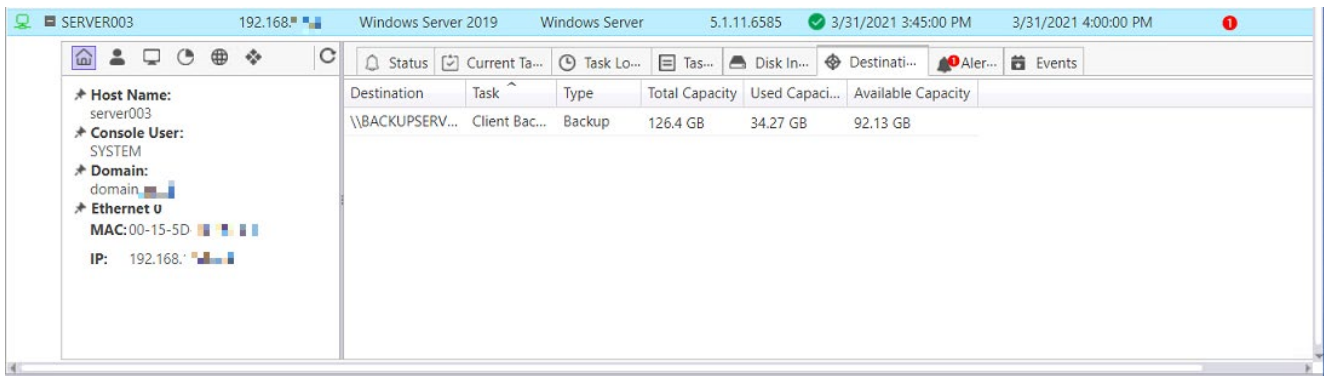


Fig. 4.13 [Destination] tab

A list of alerts issued on clients is displayed in the [Alert] tab.

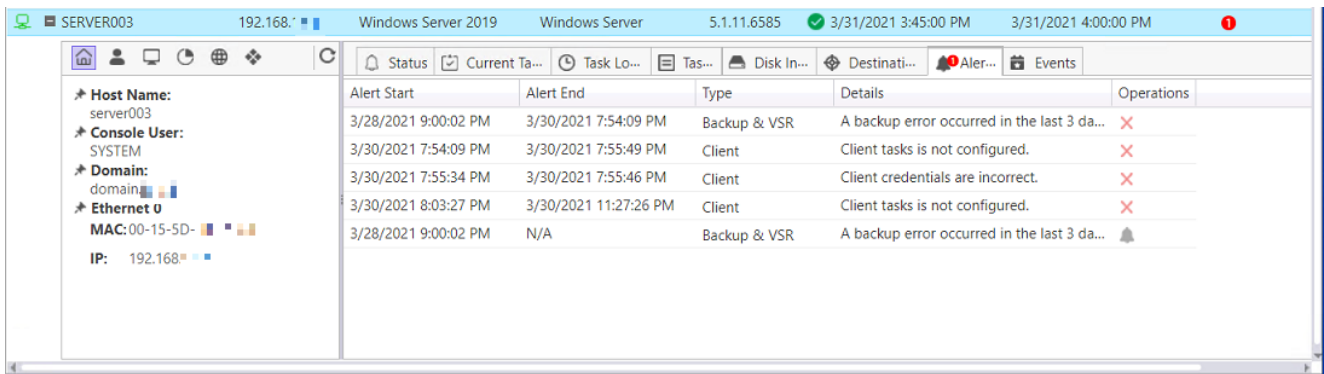
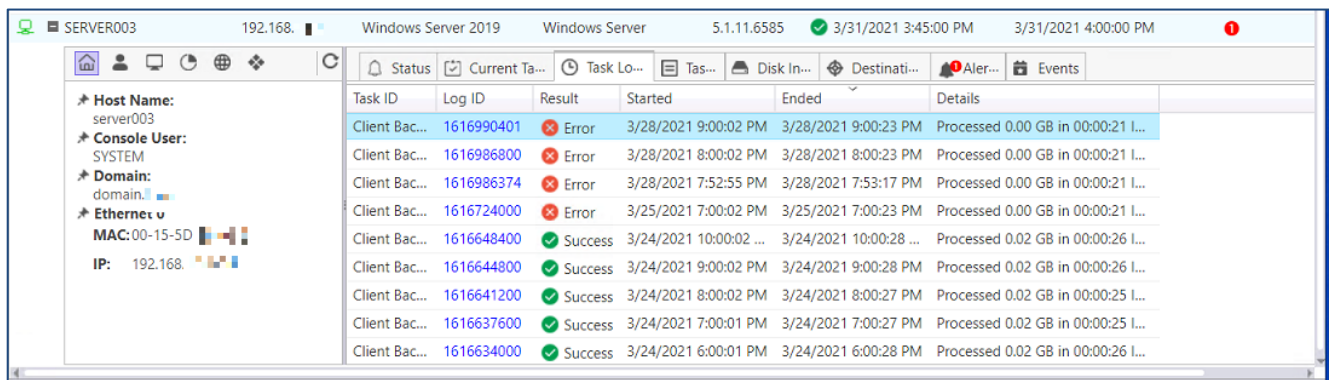


Fig. 4.14 [Alert] tab

In the event of a task failure on a client, an alert is displayed in red and the details of the failure are recorded in the log.



The screenshot shows a management console window for 'SERVER003' (IP: 192.168.1.1). The 'Task Log' tab is active, displaying a table of tasks. The table has columns for Task ID, Log ID, Result, Started, Ended, and Details. The first three tasks are marked as 'Error' (red X icon) and the last four as 'Success' (green checkmark icon). The 'Alerts' tab shows a red alert icon.

Task ID	Log ID	Result	Started	Ended	Details
Client Bac...	1616990401	Error	3/28/2021 9:00:02 PM	3/28/2021 9:00:23 PM	Processed 0.00 GB in 00:00:21 l...
Client Bac...	1616986800	Error	3/28/2021 8:00:02 PM	3/28/2021 8:00:23 PM	Processed 0.00 GB in 00:00:21 l...
Client Bac...	1616986374	Error	3/28/2021 7:52:55 PM	3/28/2021 7:53:17 PM	Processed 0.00 GB in 00:00:21 l...
Client Bac...	1616724000	Error	3/25/2021 7:00:02 PM	3/25/2021 7:00:23 PM	Processed 0.00 GB in 00:00:21 l...
Client Bac...	1616648400	Success	3/24/2021 10:00:02 ...	3/24/2021 10:00:28 ...	Processed 0.02 GB in 00:00:26 l...
Client Bac...	1616644800	Success	3/24/2021 9:00:02 PM	3/24/2021 9:00:28 PM	Processed 0.02 GB in 00:00:26 l...
Client Bac...	1616641200	Success	3/24/2021 8:00:02 PM	3/24/2021 8:00:27 PM	Processed 0.02 GB in 00:00:25 l...
Client Bac...	1616637600	Success	3/24/2021 7:00:01 PM	3/24/2021 7:00:27 PM	Processed 0.02 GB in 00:00:25 l...
Client Bac...	1616634000	Success	3/24/2021 6:00:01 PM	3/24/2021 6:00:28 PM	Processed 0.02 GB in 00:00:26 l...

Fig. 4.15 [Task Log] tab in the event of a task failure

4.3 [Destination] tab

Displays the information of networked storage devices configured as the destination for a backup task on managed client, task log and backup throughput.

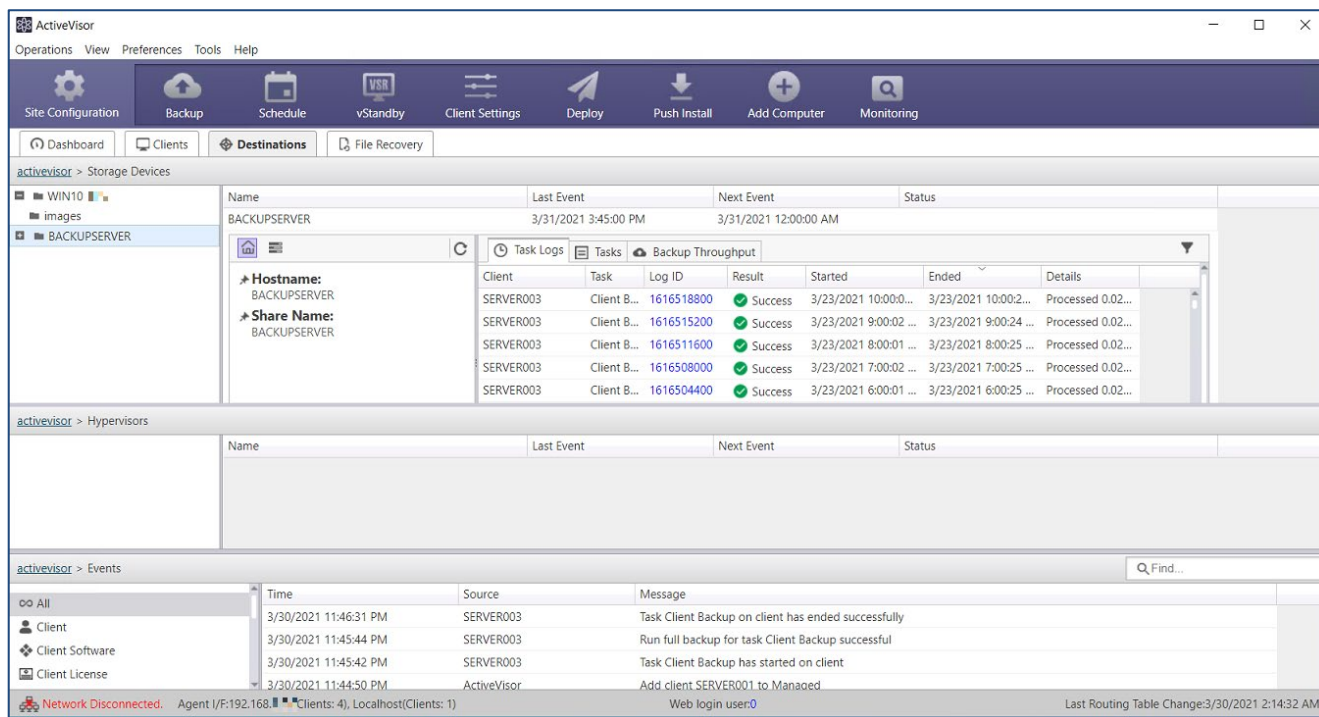


Fig. 4.16 [Destiantion] tab

4.4 Monitoring

Select [Monitoring] in the top menu to display the status of the managed clients in the list. Click [Monitoring] to launch ActiveVisor Monitor as shown in Fig. 4.17.

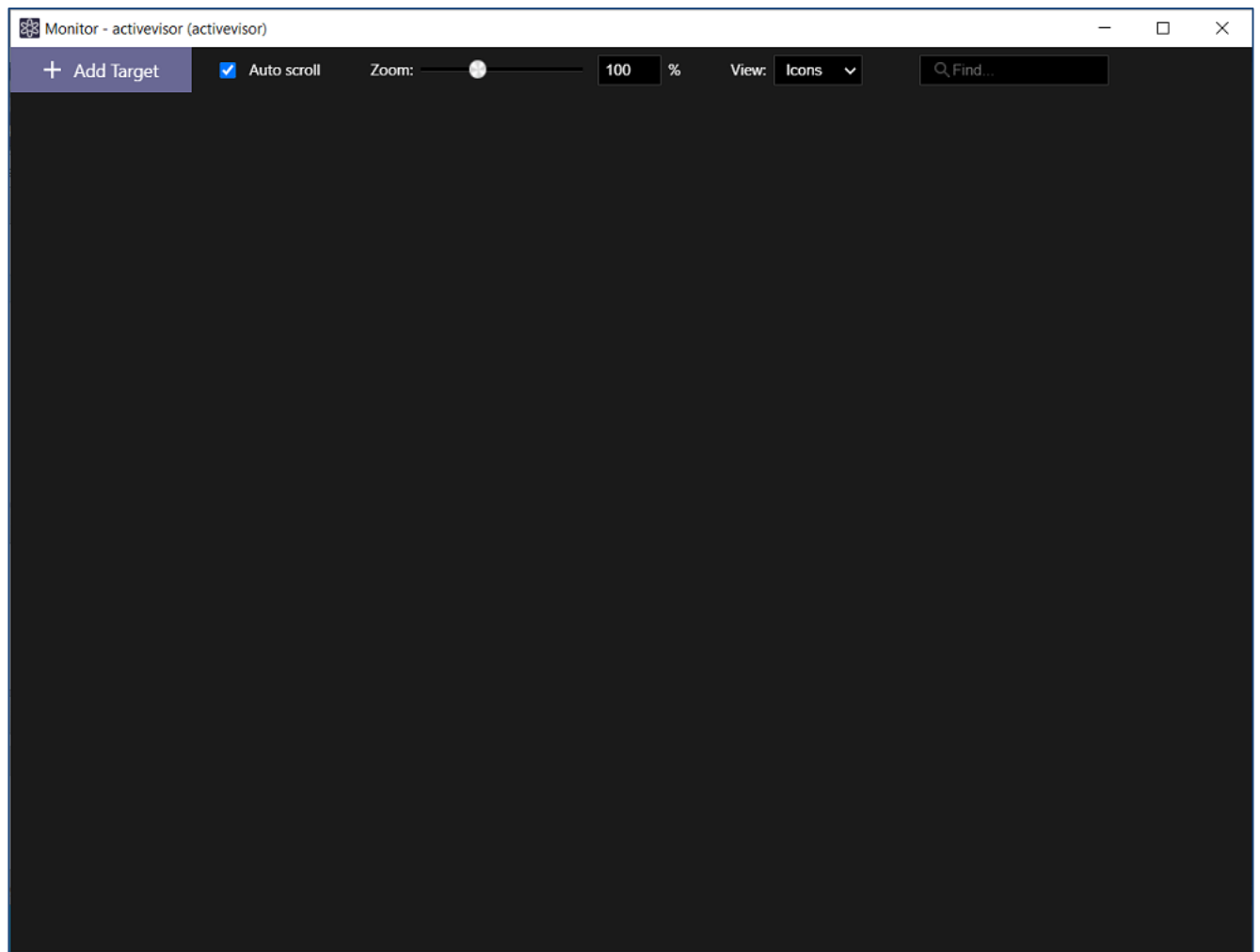


Fig. 4.17 ActiveVisor Monitor

Client information is not displayed yet. Click [Add Target] on the upper left corner.

The following [Choose Computer] window is displayed as shown in Fig. 4.18.

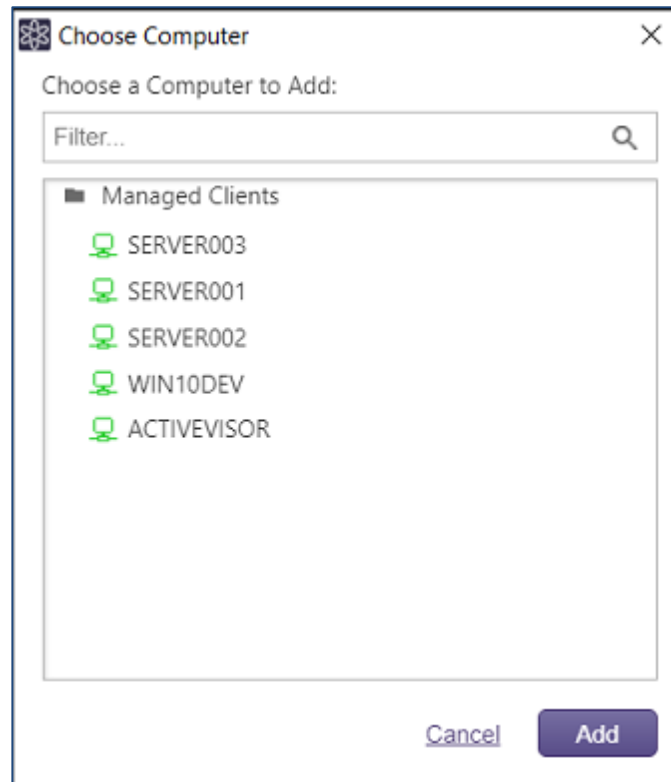


Fig. 4.18 Select a computer to add

Select managed clients and click [Add]. If you selected [Icon] in [View], the respective managed clients are represented by icons.

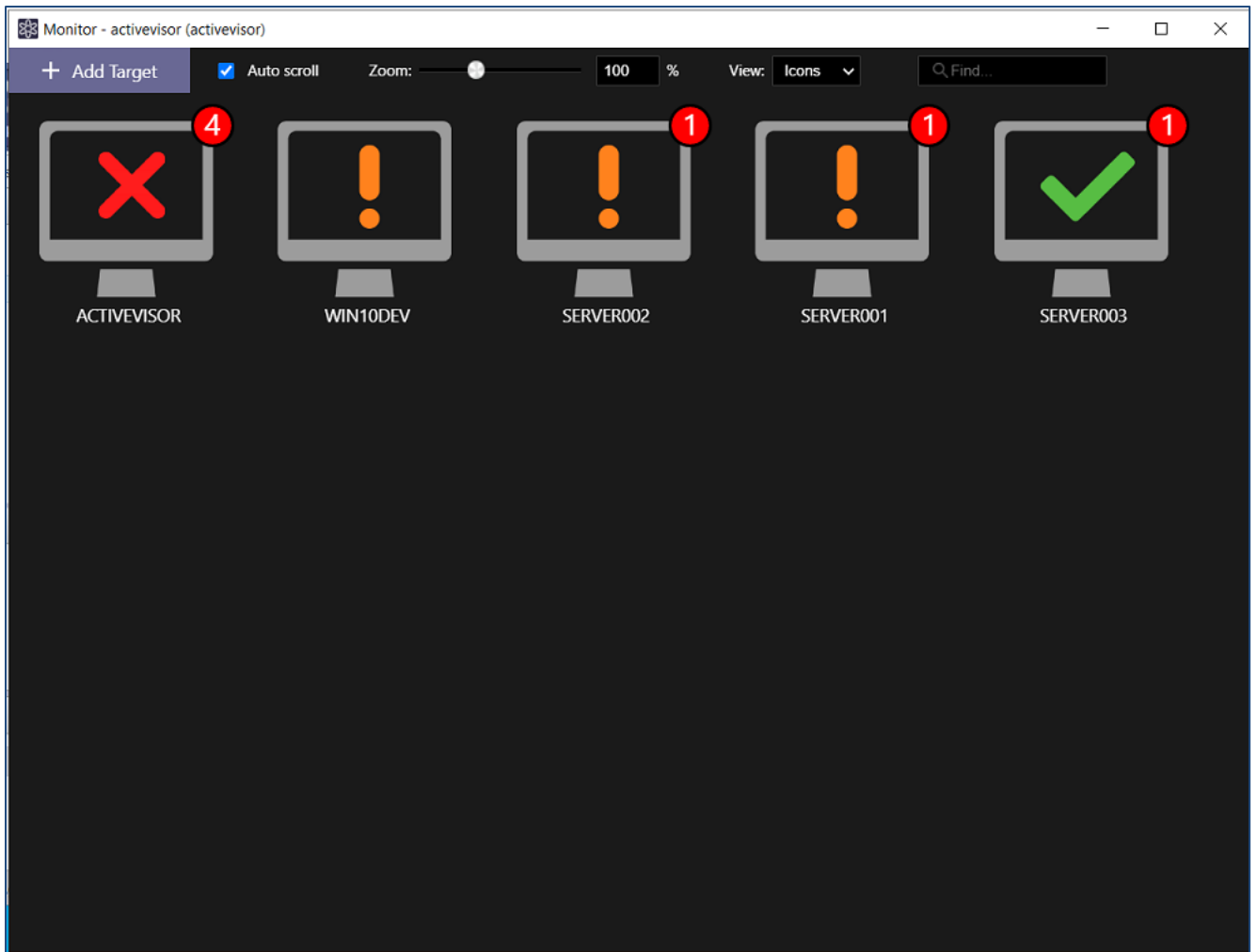


Fig. 4.19 The status of the managed clients (Icon)

The failed client is marked with a red "X" which provides immediate recognition of failure. Normal clients are checked in green. The Zoom feature enables you to zoom in and out of the icon image.

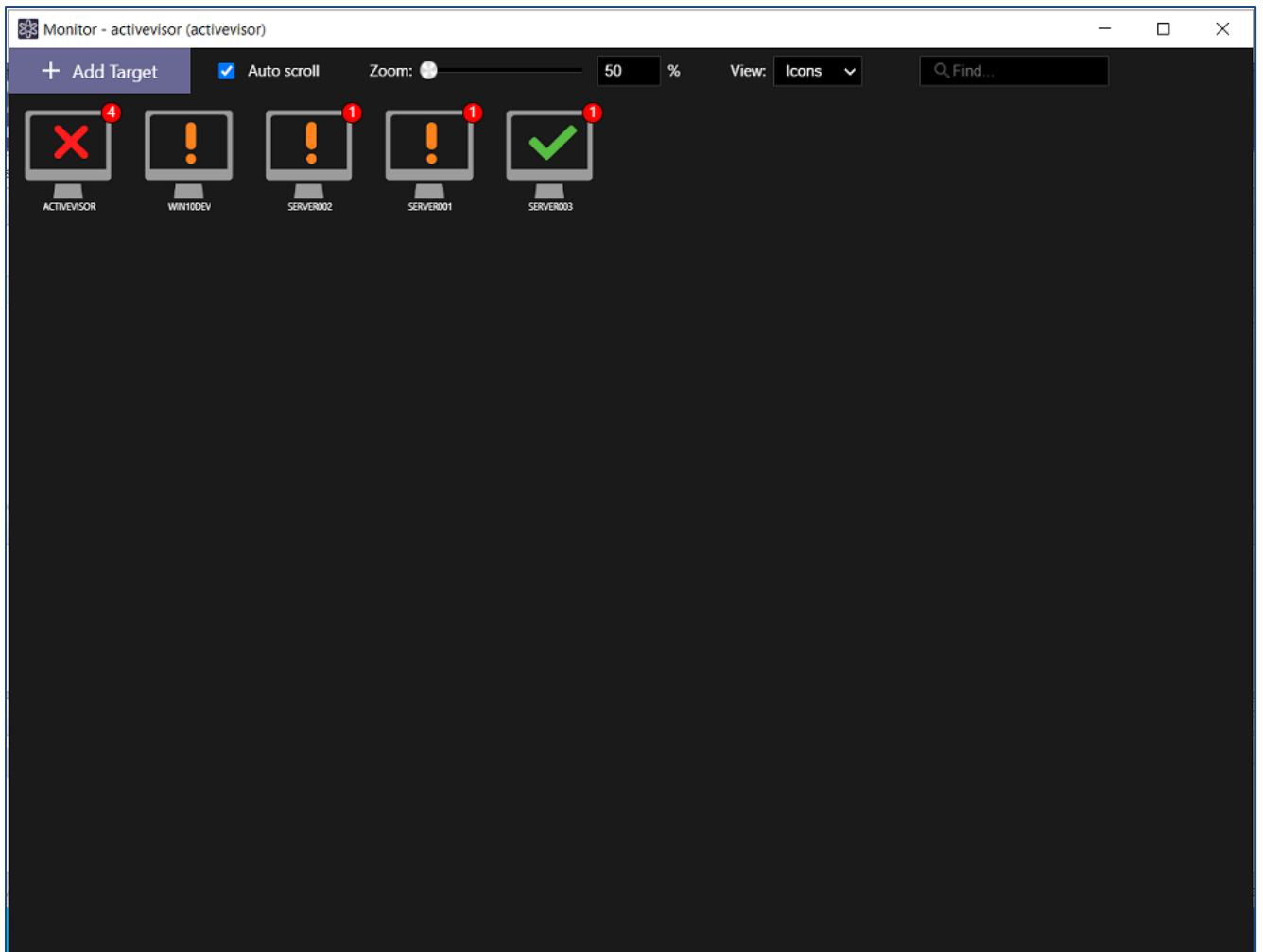


Fig. 4.20 Zoom-out display (Icon)

This example shows five icons representing five clients, however, you can display all managed clients in the same window, displaying the current identification of the clients' status.

Select [Details] in the [View] menu.

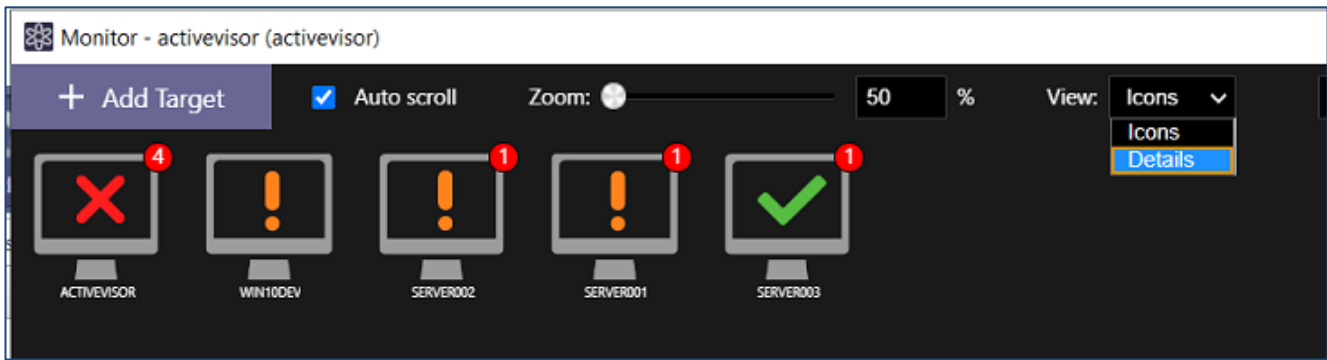


Fig. 4.21 [View] menu

The information displayed in the [Details] window is mostly the same as the detailed information in the [Agent-based] tab in ActiveVisor's main window.

ActiveVisor Monitor enables the display of multiple managed clients in the same window.

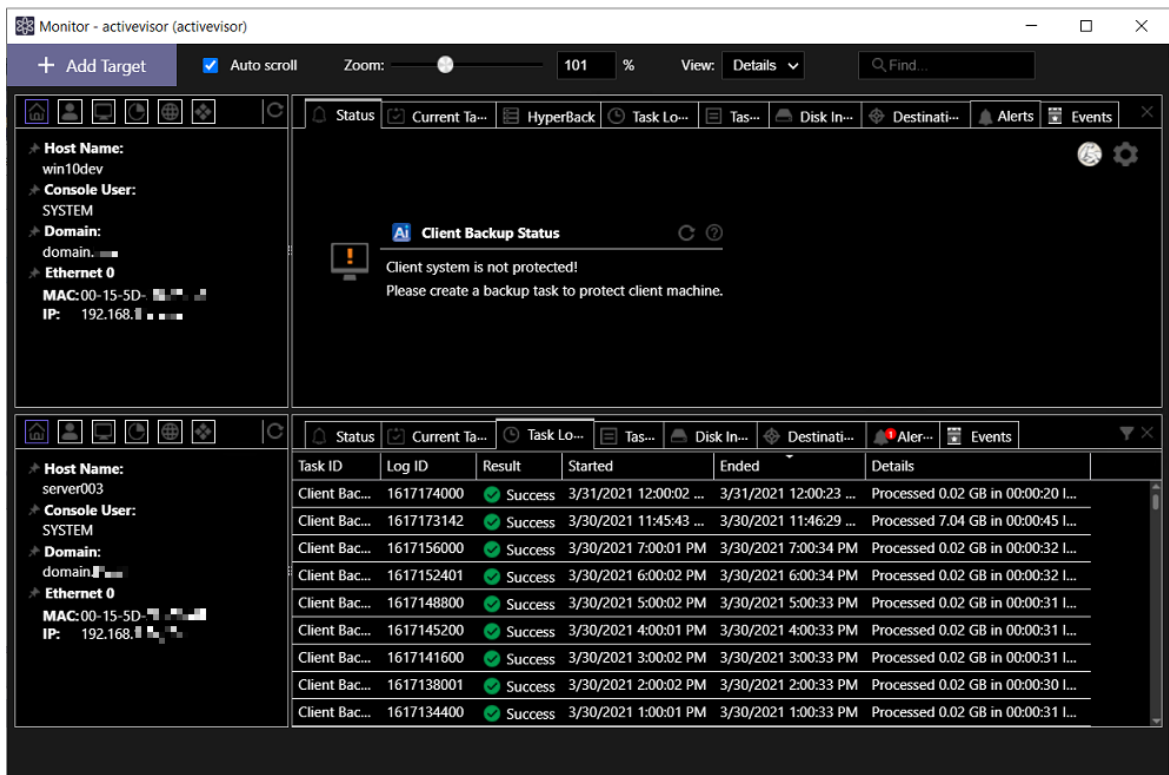


Fig. 4.22 List window displays the status of managed clients (Details)

Right-clicking on an icon representing a client machine in the above Fig. 4.20 displays the context menu having two items, i.e., [Details] and [Delete]. Selecting [Details], part of the client information in Fig. 4.7. is displayed. Selecting [Delete] deletes the icon.

Click the setting button in the [Status] tab (upper-right in the upper pane in Fig. 4.22). The setting button for HyperAgent is also displayed in HyperAgent. Clicking the setting button displays the Settings Wizard.

Client Settings Wizard

Client Settings: WIN10DEV

General

Proxy

Preboot

Notification

Deduplication

Alert

Feature Lock

Event Log:

☒ Purge event logs older than 30 days. ☐ Purge Now

☒ Including task logs

☒ Log Windows even when Task Succeeded or Failed

Backup Options:

☐ Skip Inaccessible Volume

☒ Prepend Host Name to Image File Name

☐ Multiple USB Devices Set in One Profile

Default performance:

Workload: Light Fast

☐ Use Network Write Caching

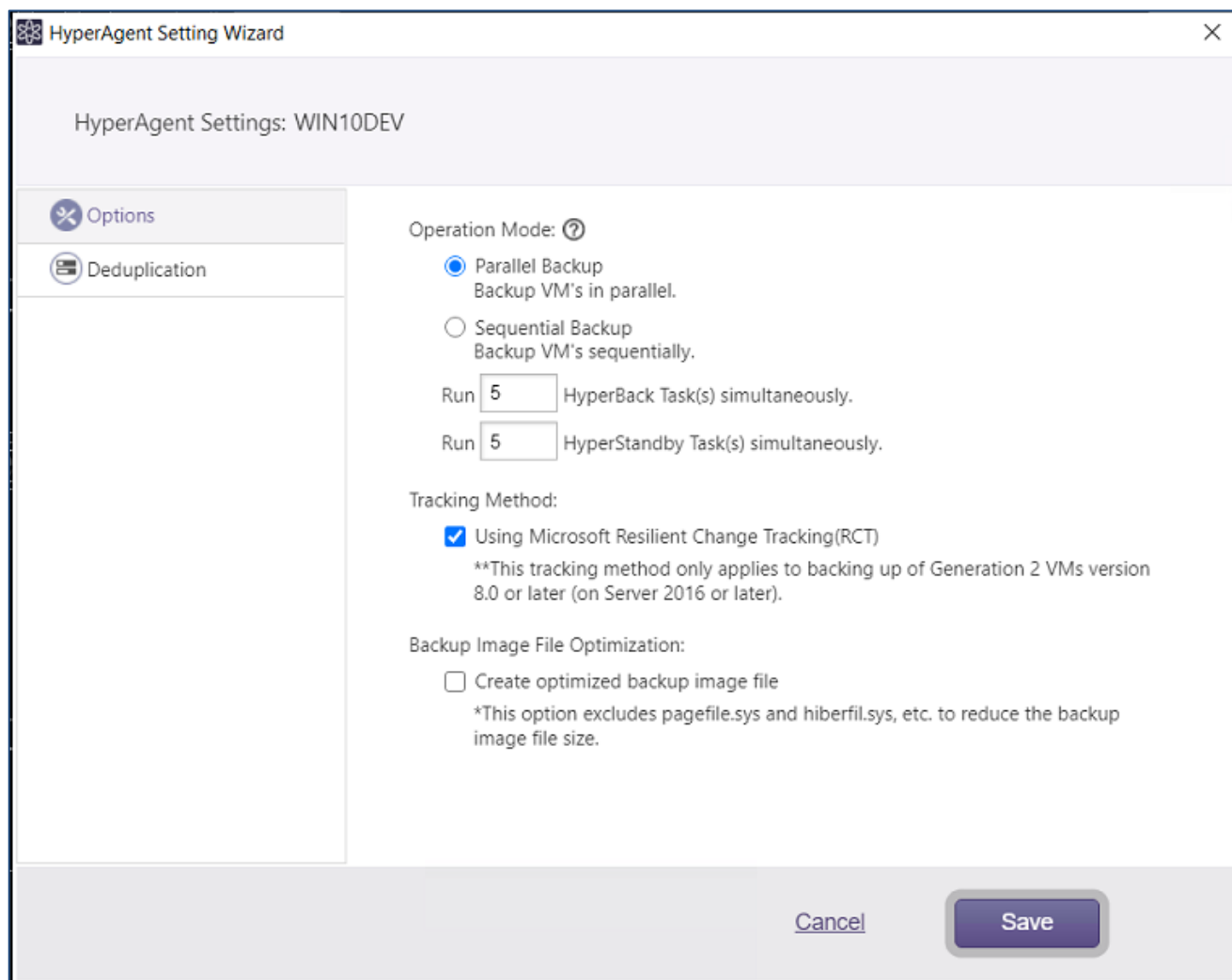
Disk Scan:

☐ Limit number of disks to scan to 0 disks.

Cancel Save

Fig. 4.23 Client Settings Wizard

You can configure the client settings here.



4.24 HyperAgent Setting Dialog

You can configure the settings for HyperAgent in the above window.

4.5 Agentless Backup

ActiveImage Protector provide HyperAgent enabling to back up the virtual machines on hypervisor without the need for installing ActiveImage Protector agents on the virtual machines (agentless backup). ActiveVisor now provides the backup feature for agentless clients.

You need to run agentless backup task on a client on which HyperAgent is installed. Select “HyperAgent” filter in [Client] tab to discover a client on which HyperAgent is installed.

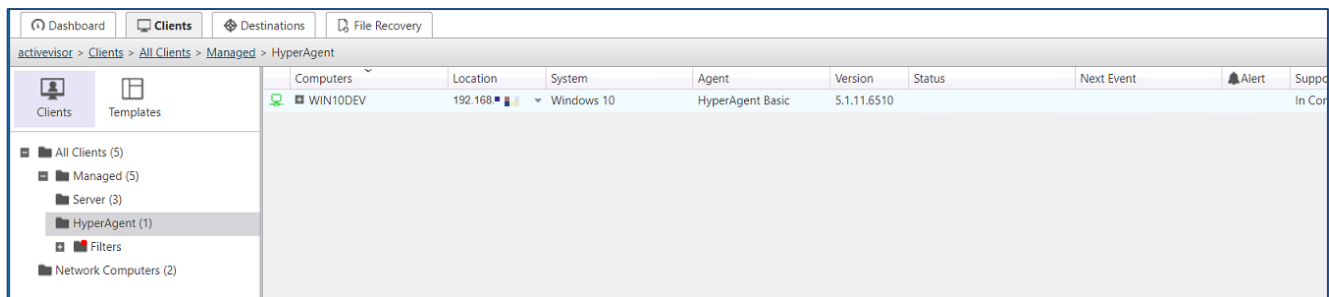


Fig. 4.25 HyperAgent Client

HyperBack is designed to provide agentless backup feature.

[HyperBack] tab provides detailed information of the client on which HyperAgent is installed.

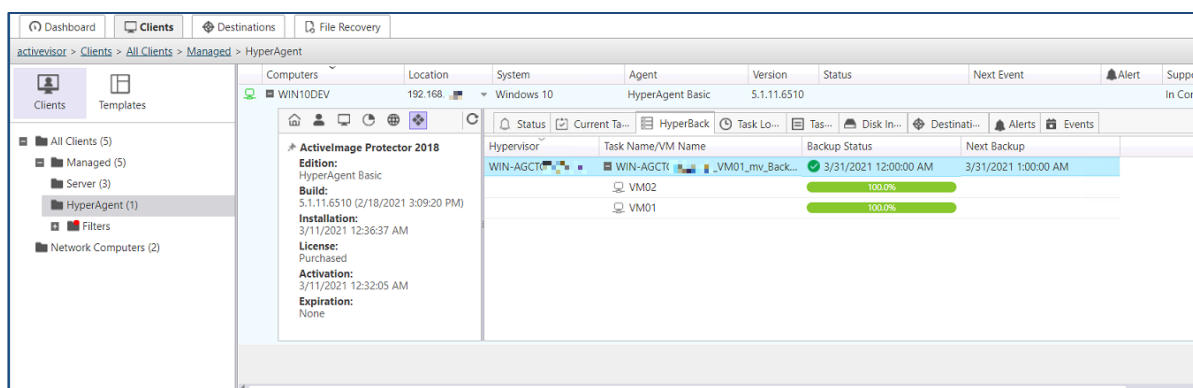


Fig. 4.26 HyperBack tab

Launch HyperBack Wizard by right-clicking a client in the client list to display the right-click menu. Click [Create Task] – [Backup] – [HyperBack].

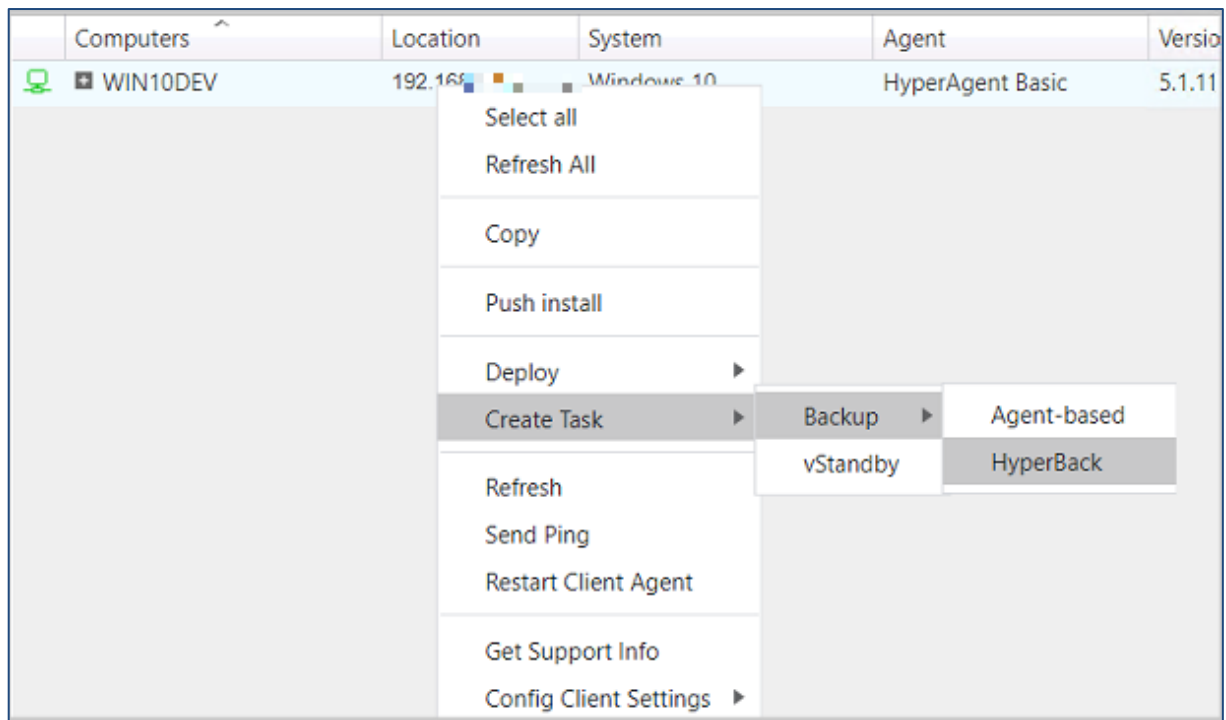


Fig. 4.27 HyperBack Menu

HyperBack wizard is displayed.

Select a backup source.

The hypervisor, if registered in Site Configuration, will be displayed in [Select Virtual Machine] pane.

You can also add a hypervisor by selecting [Add Hypervisor].

Clicking a hypervisor expands the list of the virtual machines running on the hypervisor.

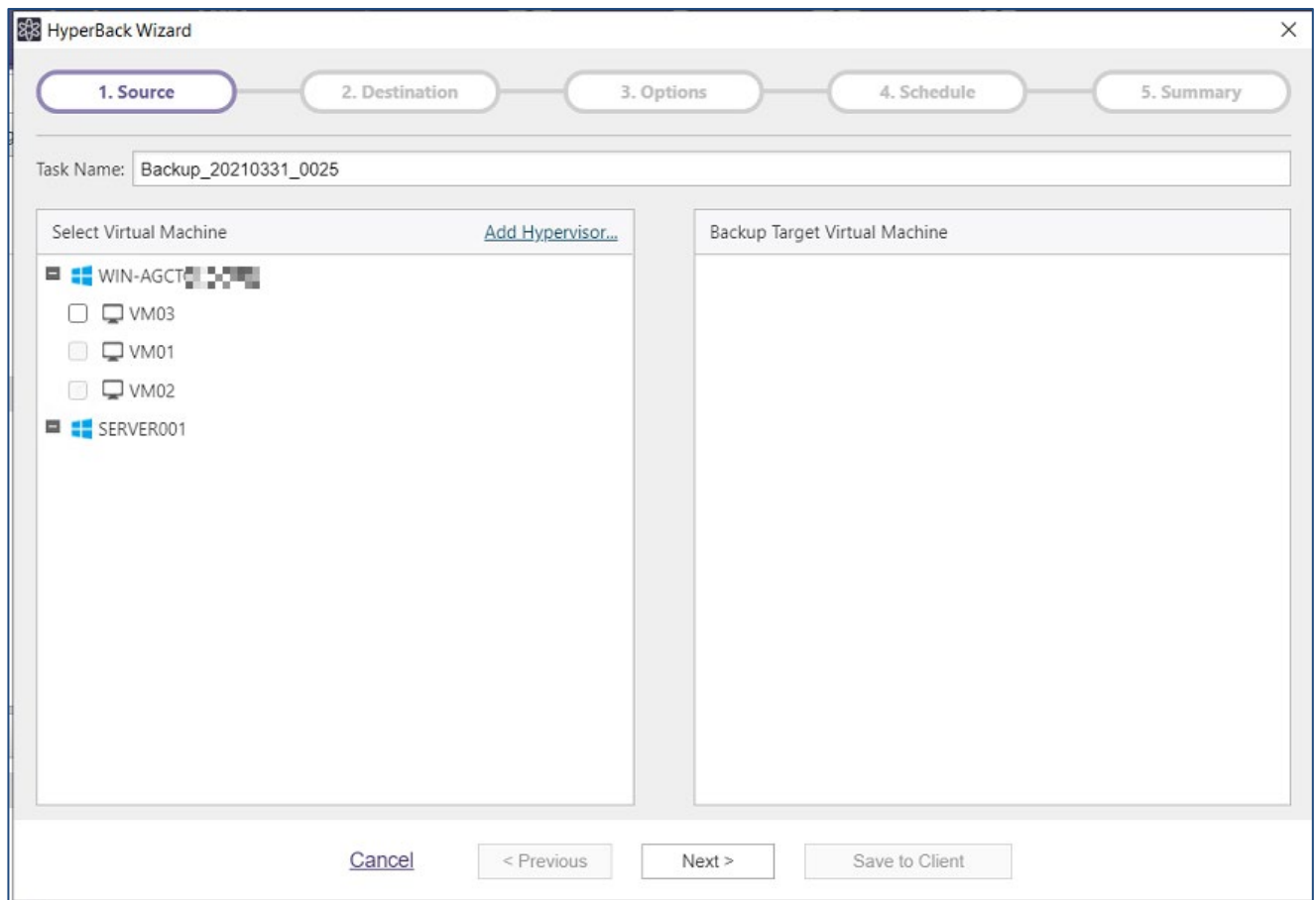


Fig. 4.28 Select backup source

Select the backup source virtual machine and the possible backup source disks are displayed in the right pane. Select the backup source disk and click [Next].

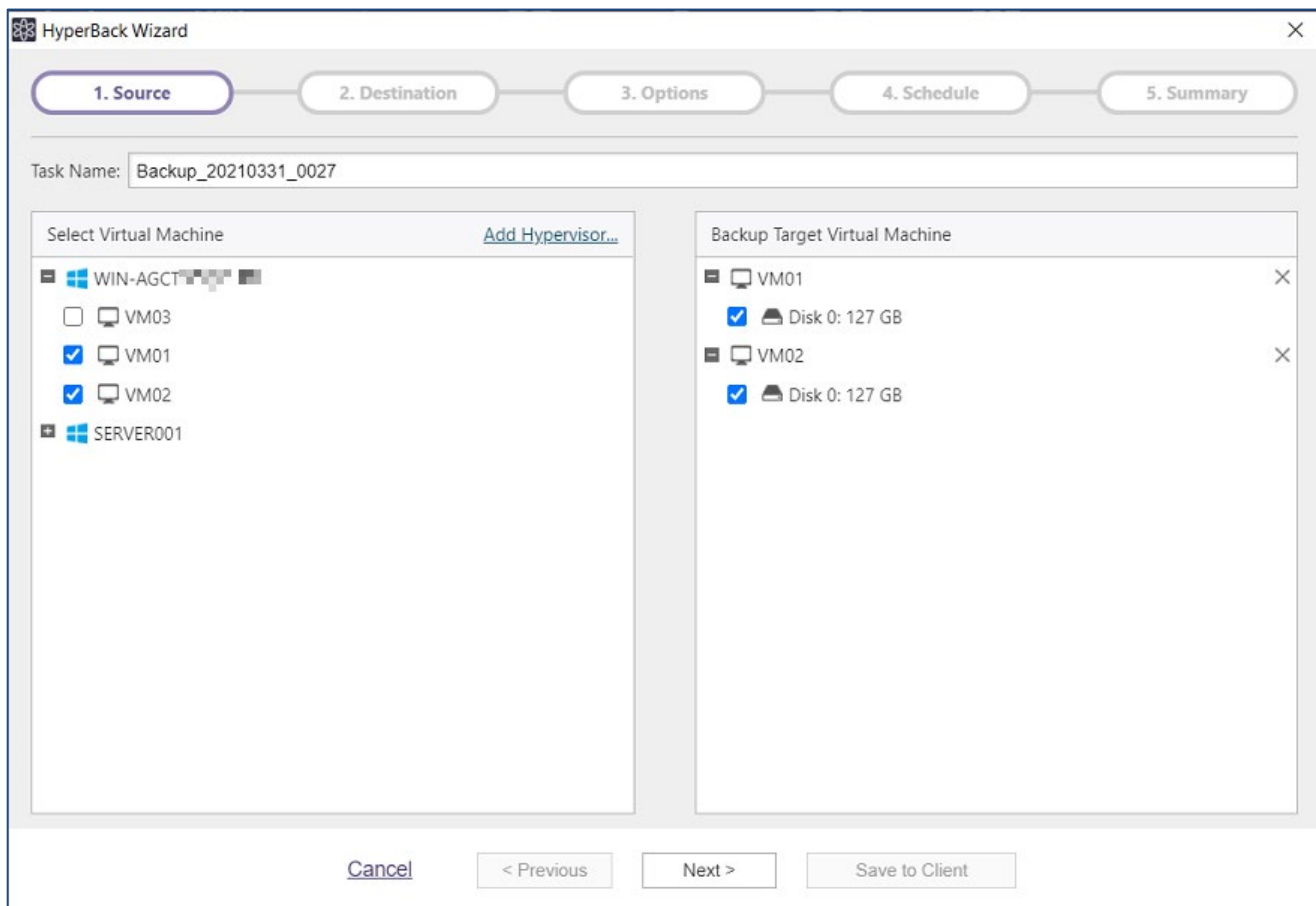
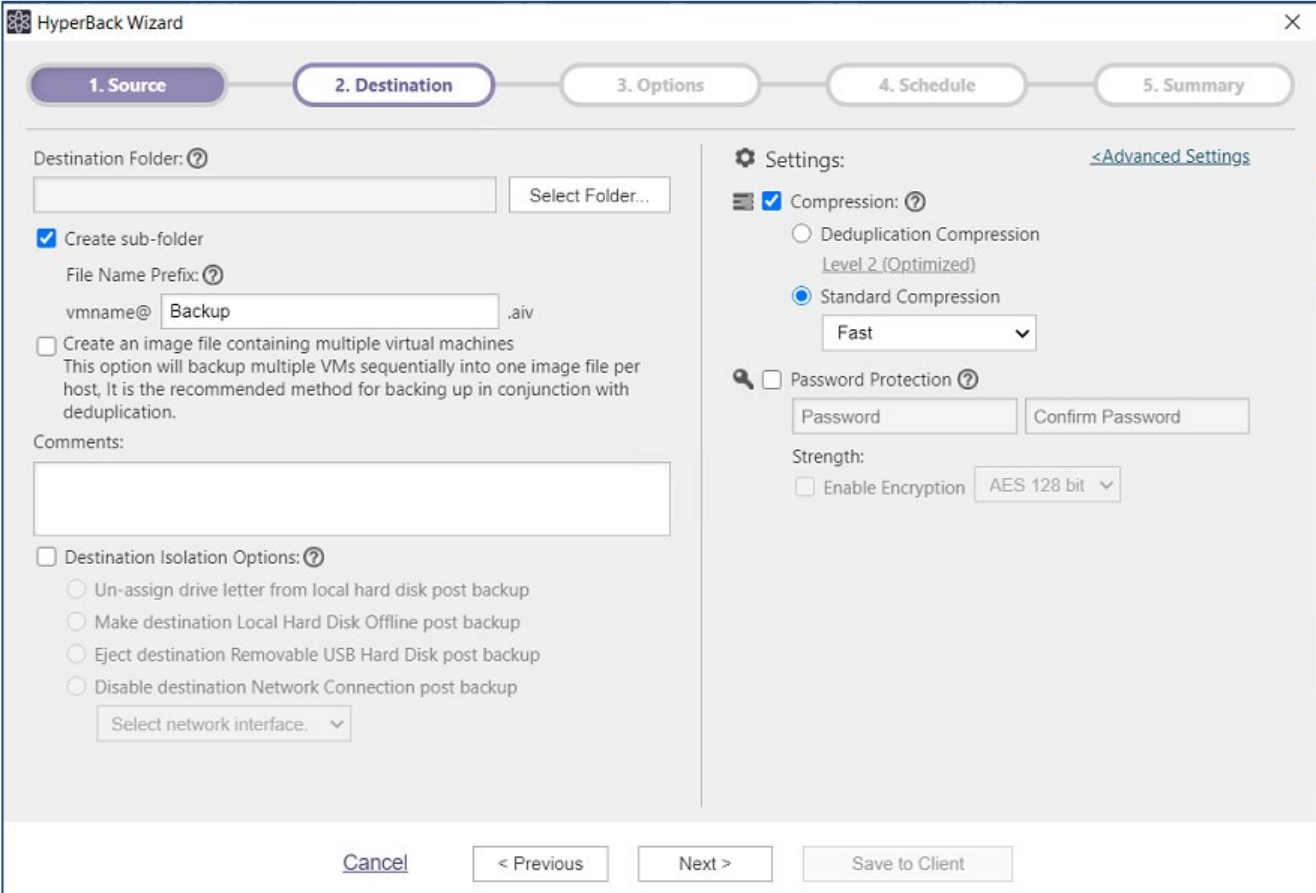


Fig. 4.29 Backup source virtual machines and disks

Configure the destination settings.

Please select Destination folder, enable [Create sub-folder], specify [File Name Prefix], enable [Create an image file containing multiple virtual machines], etc.



The image shows the 'HyperBack Wizard' window, specifically the '2. Destination' step. The window has a title bar with the HyperBack logo and a close button. Below the title bar is a progress bar with five steps: 1. Source, 2. Destination (highlighted), 3. Options, 4. Schedule, and 5. Summary.

The main content area is divided into two columns. The left column contains the following fields and options:

- Destination Folder:** A text box with a help icon (?) and a 'Select Folder...' button.
- ☒ **Create sub-folder**
- File Name Prefix:** A text box with a help icon (?) containing 'vmname@ Backup' and a '.aiv' suffix.
- ☐ **Create an image file containing multiple virtual machines**
This option will backup multiple VMs sequentially into one image file per host. It is the recommended method for backing up in conjunction with deduplication.
- Comments:** A large text area.
- ☐ **Destination Isolation Options:**
 - ☐ Un-assign drive letter from local hard disk post backup
 - ☐ Make destination Local Hard Disk Offline post backup
 - ☐ Eject destination Removable USB Hard Disk post backup
 - ☐ Disable destination Network Connection post backup
- A 'Select network interface.' dropdown menu.

The right column contains the 'Settings' section, which is expandable (indicated by a minus icon). It includes:

- Settings:** A link to '<Advanced Settings'.
- ☒ **Compression:** A help icon (?) with two radio button options: 'Deduplication Compression' (selected) and 'Standard Compression'. Below 'Standard Compression' is a dropdown menu set to 'Fast'.
- ☐ **Password Protection:** A help icon (?) with 'Password' and 'Confirm Password' text boxes.
- Strength:** A section with ☐ **Enable Encryption** and a dropdown menu set to 'AES 128 bit'.

At the bottom of the window are four buttons: 'Cancel', '< Previous', 'Next >', and 'Save to Client'.

Fig. 4.30 Select Destination

Select Destination folder for saving the backup image files. Click [Select Folder...] to display the dialog for browsing the location of the destination folder.

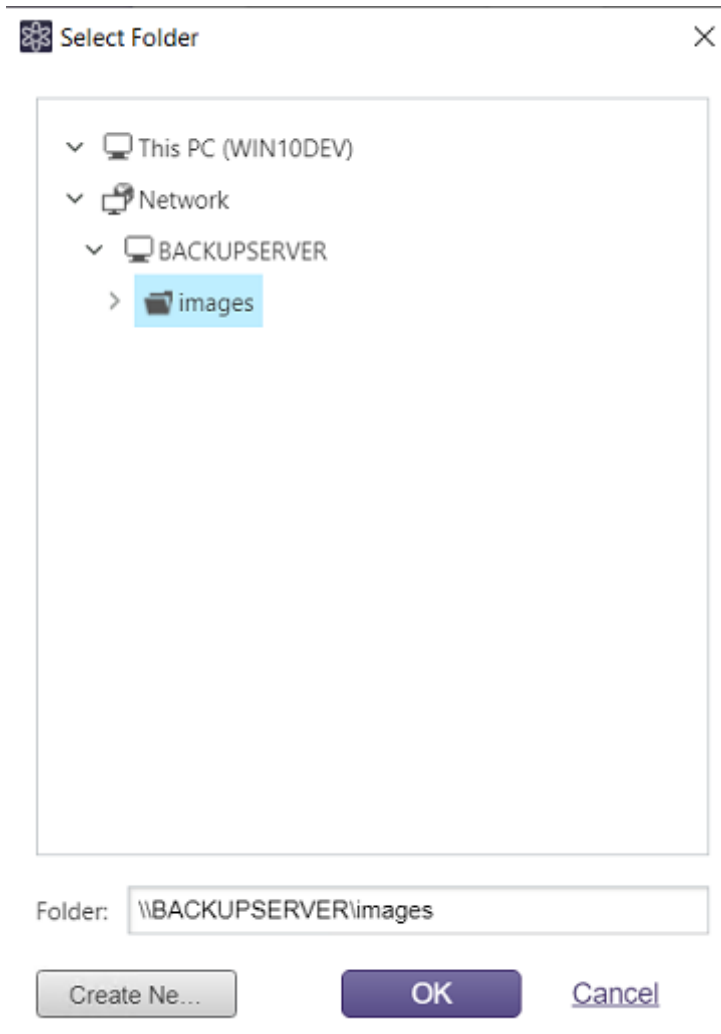
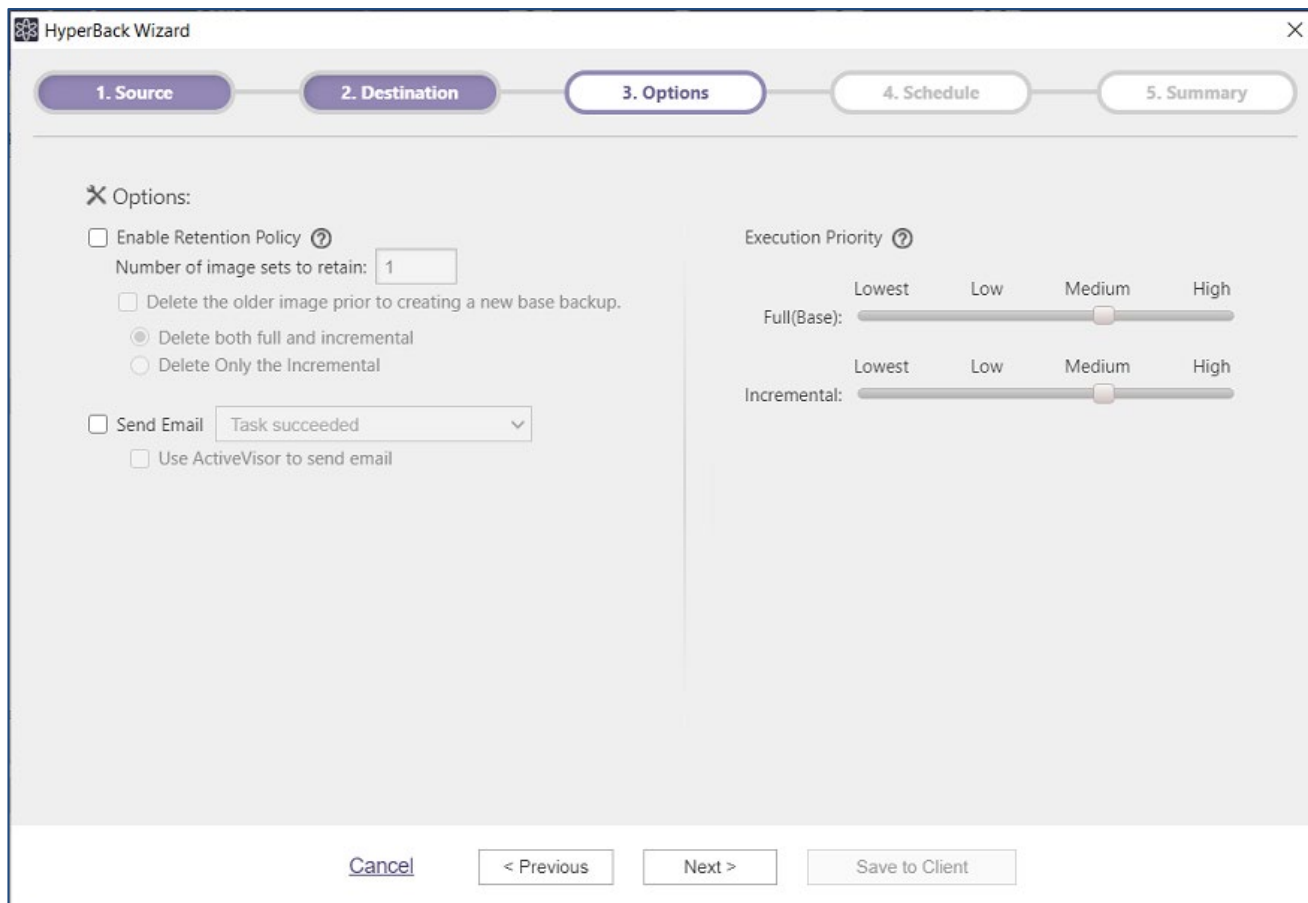


Fig. 4.31 Select a destination folder

Please configure the option settings for Retention Policy, Send E-Mail, Task Execution Priority, etc.

Here, "2" is specified for [Number of image sets to retain] and [Delete both full and incremental] option is enabled.



The image shows the 'HyperBack Wizard' window, specifically the '3. Options' step. The wizard has five steps: 1. Source, 2. Destination, 3. Options, 4. Schedule, and 5. Summary. The 'Options' step is currently active.

Options:

- ☐ Enable Retention Policy ⓘ
 - Number of image sets to retain:
 - ☐ Delete the older image prior to creating a new base backup.
 - ☒ Delete both full and incremental
 - ☐ Delete Only the Incremental
- ☐ Send Email ⓘ
 - ☐ Use ActiveVisor to send email

Execution Priority ⓘ

Full(Base):

Incremental:

At the bottom of the window, there are four buttons: [Cancel](#), [< Previous](#), [Next >](#), and [Save to Client](#).

Fig. 4.32 [Options] setting

Click [Next].

Next, configure the schedule settings in the same manner as agent-based base / incremental backup.

HyperBack Wizard

1. Source 2. Destination 3. Options 4. Schedule 5. Summary

Effective Dates/Time 03/31/2021 12:27 AM ~ 03/31/2022 12:27 AM ☒ Not Specific

Base [Add New Base](#) Incremental [Add New Incremental](#)

☒ Monthly ☐ Weekly

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 EOM

Execute Time: 09:00 AM

Sun Mon Tue Wed Thu Fri Sat

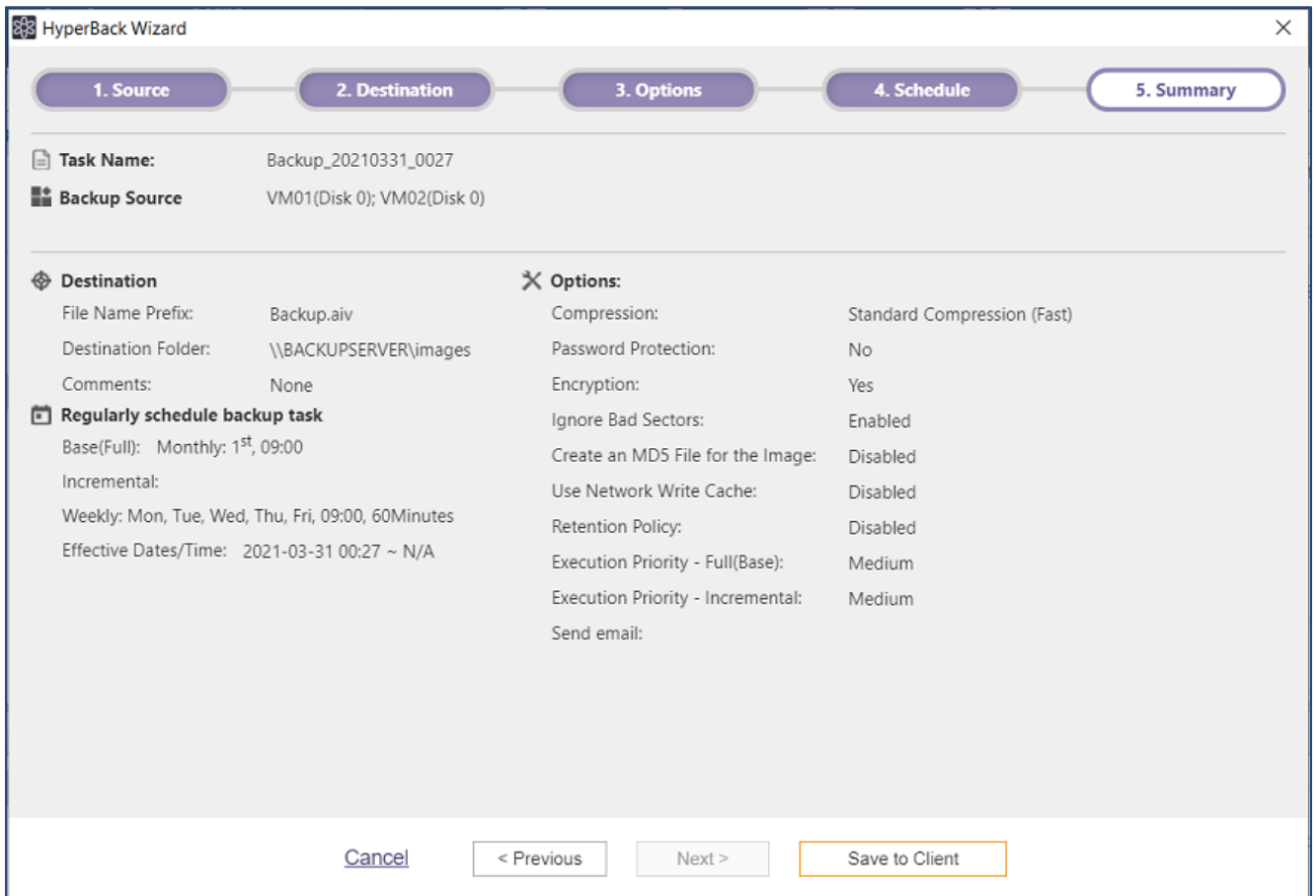
☒ Multi-times Start Time: 09:00 End Time: 09:00 Interval: 60 Min.
☐ One time only: 09:00 AM

[Cancel](#) < Previous Next > Save to Client

Fig. 4.33 Configure schedule settings

Configure the schedule settings and click [Next].

Finally, use the Summary window to review the configured settings and options.



The image shows the 'HyperBack Wizard' window, specifically the '5. Summary' step. The window has a title bar with the HyperBack logo and a close button. Below the title bar is a progress bar with five steps: 1. Source, 2. Destination, 3. Options, 4. Schedule, and 5. Summary (which is highlighted). The main area of the window is divided into two columns. The left column contains the following information: 'Task Name: Backup_20210331_0027', 'Backup Source: VM01(Disk 0); VM02(Disk 0)', 'Destination' section with 'File Name Prefix: Backup.aiv', 'Destination Folder: \\BACKUPSERVER\\images', and 'Comments: None'. Below this is a 'Regularly schedule backup task' section with 'Base(Full): Monthly: 1st, 09:00', 'Incremental: Weekly: Mon, Tue, Wed, Thu, Fri, 09:00, 60Minutes', and 'Effective Dates/Time: 2021-03-31 00:27 ~ N/A'. The right column contains the 'Options' section with the following settings: 'Compression: Standard Compression (Fast)', 'Password Protection: No', 'Encryption: Yes', 'Ignore Bad Sectors: Enabled', 'Create an MD5 File for the Image: Disabled', 'Use Network Write Cache: Disabled', 'Retention Policy: Disabled', 'Execution Priority - Full(Base): Medium', 'Execution Priority - Incremental: Medium', and 'Send email:'. At the bottom of the window, there are four buttons: 'Cancel', '< Previous', 'Next >', and 'Save to Client' (which is highlighted with an orange border).

Step	1. Source	2. Destination	3. Options	4. Schedule	5. Summary
Task Name:	Backup_20210331_0027				
Backup Source	VM01(Disk 0); VM02(Disk 0)				
Destination		Options:			
File Name Prefix:	Backup.aiv	Compression:	Standard Compression (Fast)		
Destination Folder:	\\BACKUPSERVER\\images	Password Protection:	No		
Comments:	None	Encryption:	Yes		
Regularly schedule backup task		Ignore Bad Sectors:	Enabled		
Base(Full):	Monthly: 1 st , 09:00	Create an MD5 File for the Image:	Disabled		
Incremental:		Use Network Write Cache:	Disabled		
Weekly:	Mon, Tue, Wed, Thu, Fri, 09:00, 60Minutes	Retention Policy:	Disabled		
Effective Dates/Time:	2021-03-31 00:27 ~ N/A	Execution Priority - Full(Base):	Medium		
		Execution Priority - Incremental:	Medium		
		Send email:			

Fig. 4.34 Summary

Click [Save to Client] for saving the settings configured for the agentless backup on the client machine.

HyperBack Wizard

1. Source 2. Destination 3. Options 4. Schedule 5. Summary

Task Name: Backup_20210331_0027

Backup Source: VM01(Disk 0); VM02(Disk 0)

Destination

File Name Prefix: Backup.aiv

Destination Folder: \\BACKUPSERVER\images

Comments: None

Regularly schedule backup task

Base(Full): Monthly: 1st, 09:00

Incremental:

Weekly: Mon, Tue, Wed, Thu, Fri, 09:00, 60Minutes

Effective Dates/Time: 2021-03-31 00:27 ~ N/A

Options:

Compression: Standard Compression (Fast)

Password Protection: No

Encryption: Yes

Ignore Bad Sectors: Enabled

Create an MD5 File for the Image: Disabled

Use Network Write Cache: Disabled

Retention Policy: Disabled

Execution Priority - Full(Base): Medium

Execution Priority - Incremental: Medium

Send email:

[Cancel](#) < Previous Next > Close

Fig. 4.35 Summary

Click [Close] to complete the settings.

The task is listed in the client list in [HyperBack] tab.

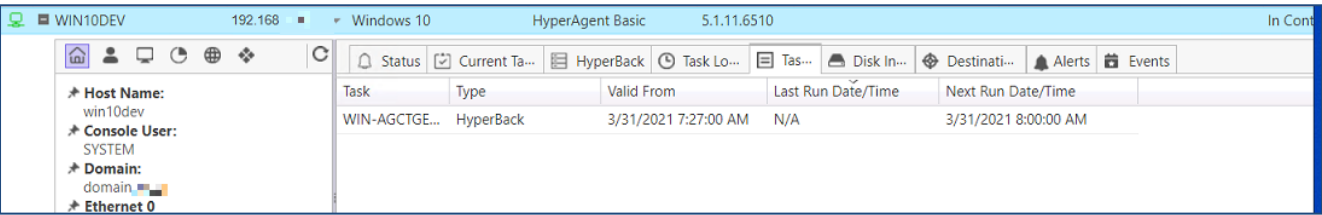


Fig. 4.36 HyperBack Task

You can monitor the status of the agentless backup in this window.

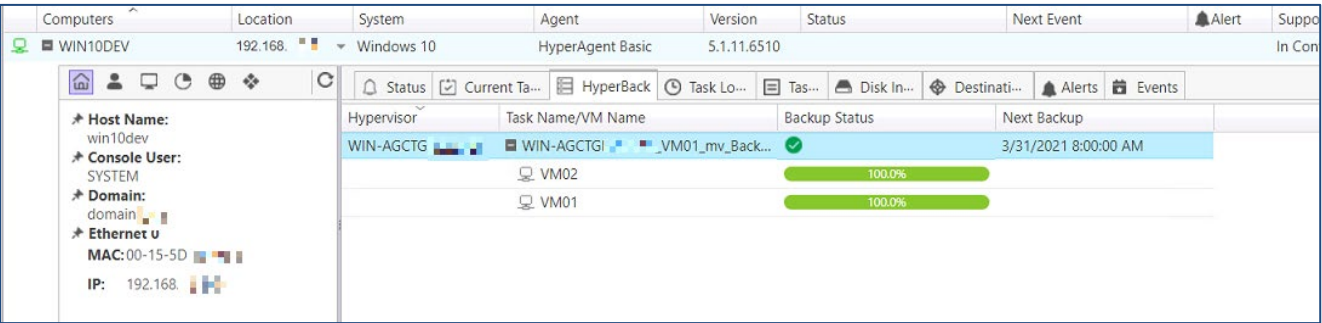


Fig. 4.37 Status of HyperBack task

Right-click on a client and select [Config Client Settings] – [HyperAgent] in the context menu to configure the settings for HyperAgent.

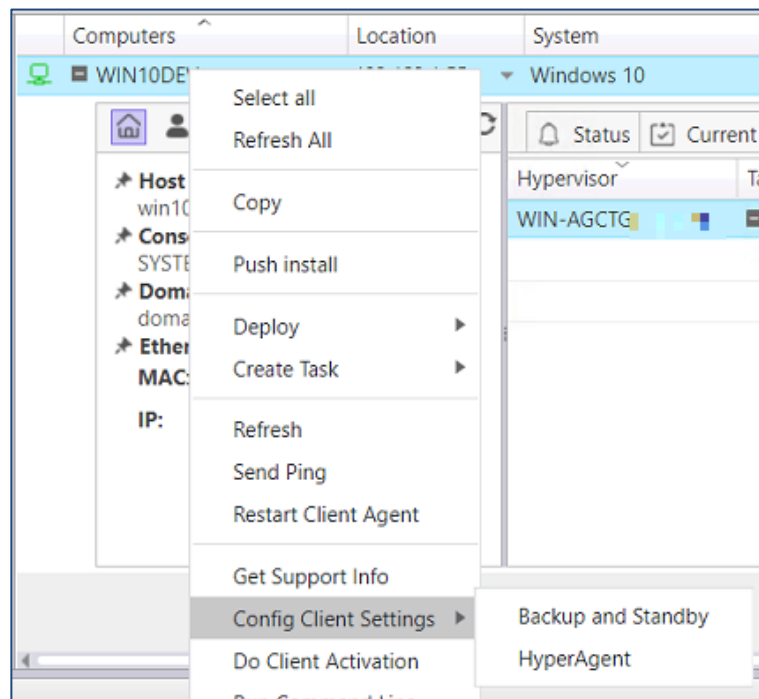


Fig. 4.38 [Config Client Settings] – [HyperAgent]

Select one of the two operation mode options, i.e., [Parallel Backup] or [Sequential Backup]. You are recommended to select [Sequential Backup] option with limited machine resource or network resource.

Select one of the tracking options for incremental backup of virtual machines. RCT tracking method can be applied only when backing up Generation 2 VMs on Hyper-V (Windows Server 2016 or later). Actiphy's proprietary technology is used for incremental backup of the other virtual machines.

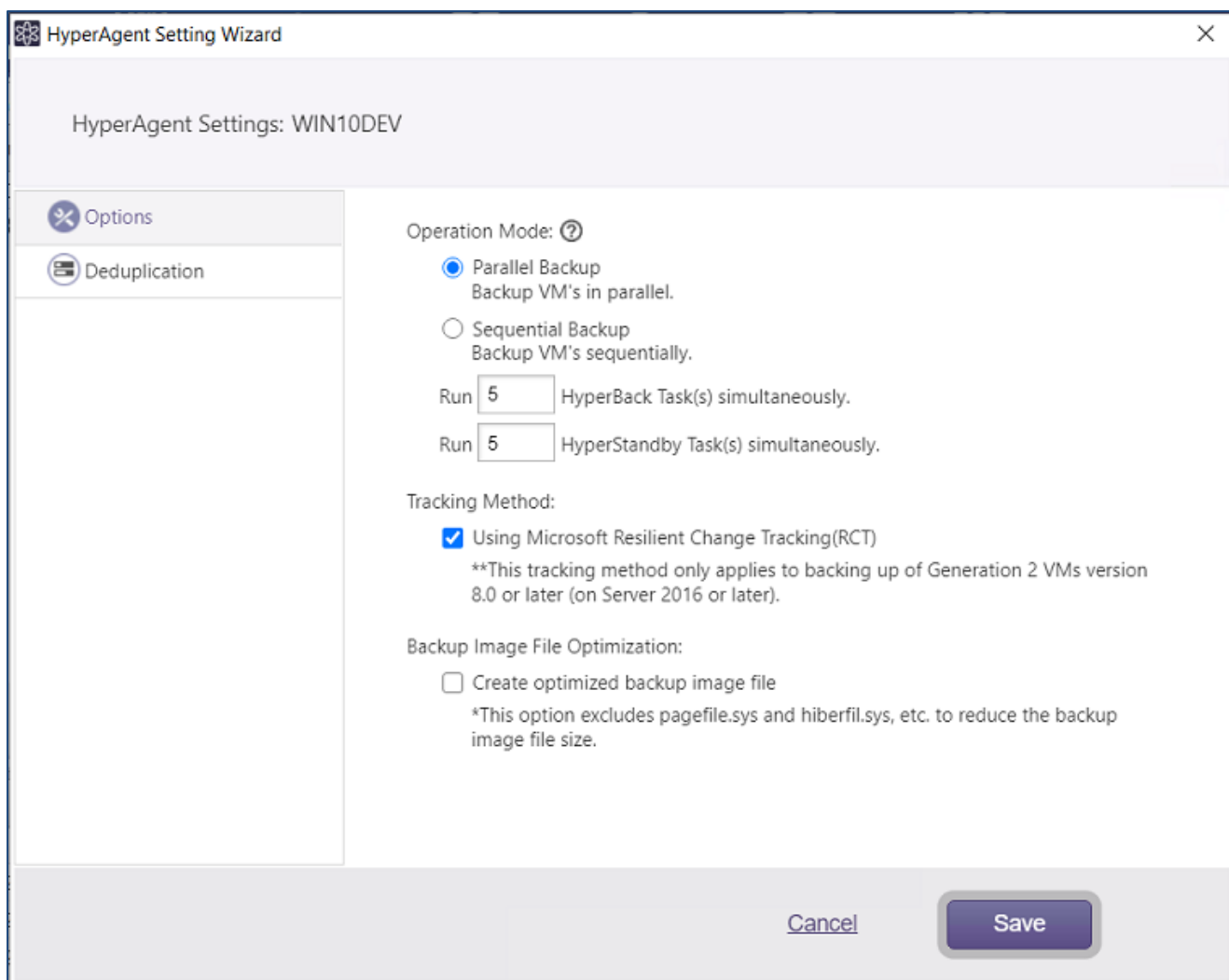


Fig. 4.39 HyperAgent Settings

4.6 ActiveVisor File Recovery

ActiveVisor provides File Recovery feature enabling to restore a specific file or folder from a recovery point to a specified destination which must be located in network shared folder or ActiveVisor local file system.

Select [File Recovery] tab to display the following dialog shown in Fig. 4.39.

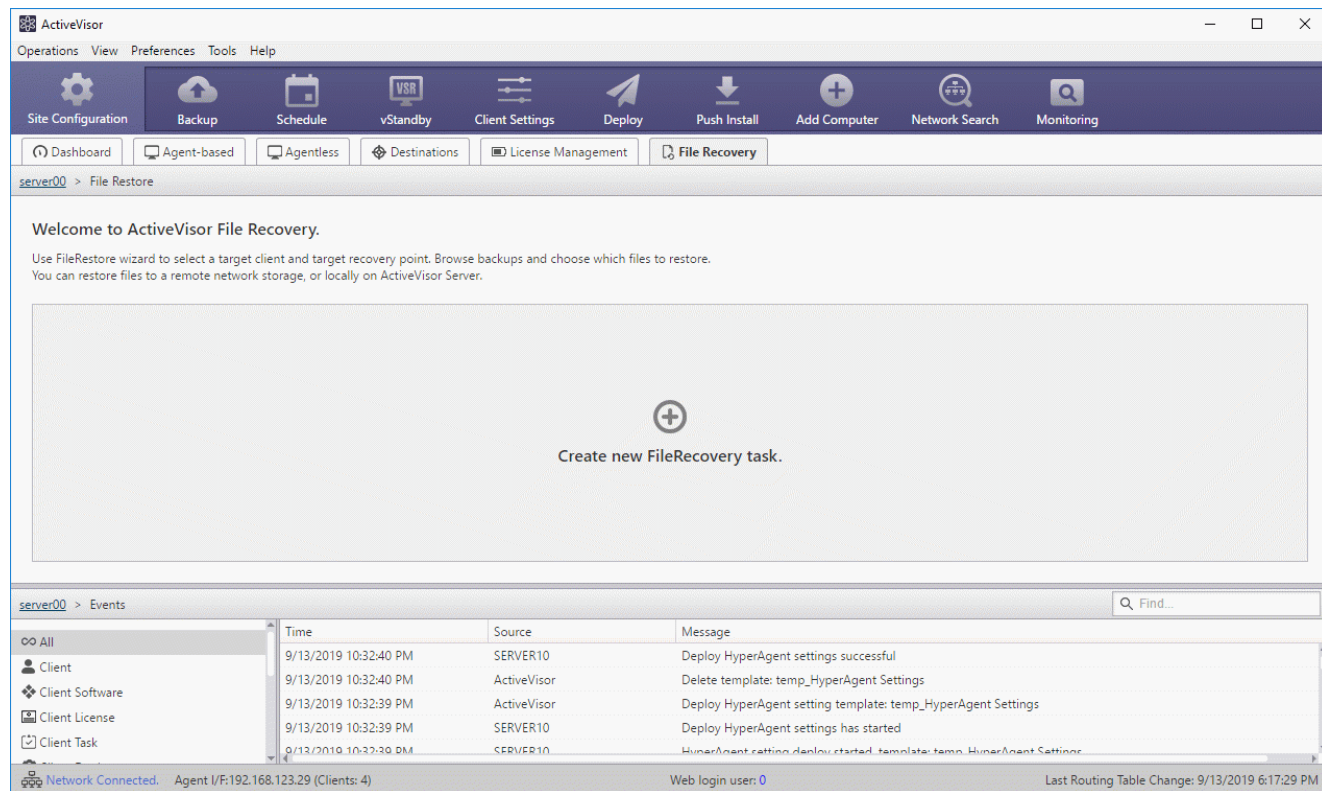


Fig. 4.40 [File Recovery] tab

If the dialog is launched for the first time, you need to create a new file recovery task. Click [+] button in the middle of the dialog to launch [File Recovery] wizard.

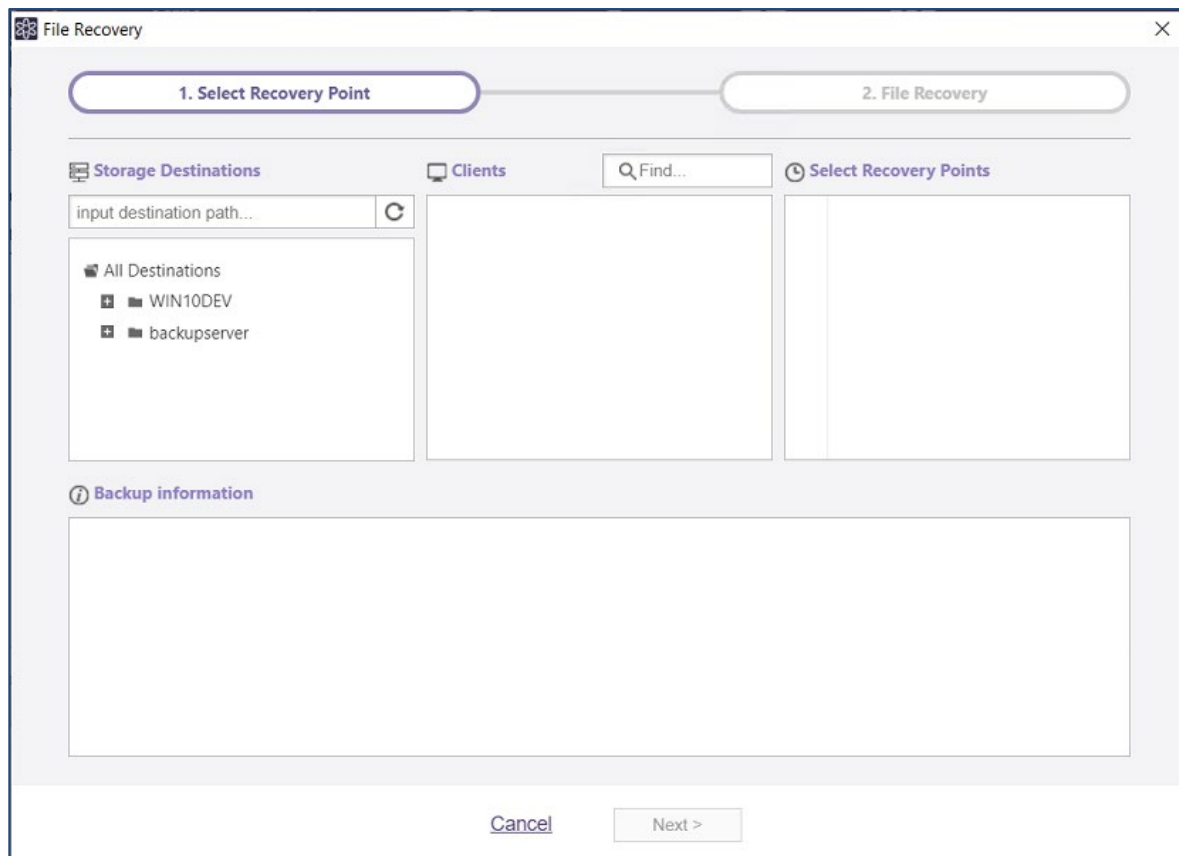


Fig. 4.41 File Recovery

The [Storage Destination] displays the storage devices registered by selecting [Site Configuration] - [Storage Device], destination folder for saving the backup files, the destination discovered by ActiveVisor.

Then specify the client and recovery point to restore.

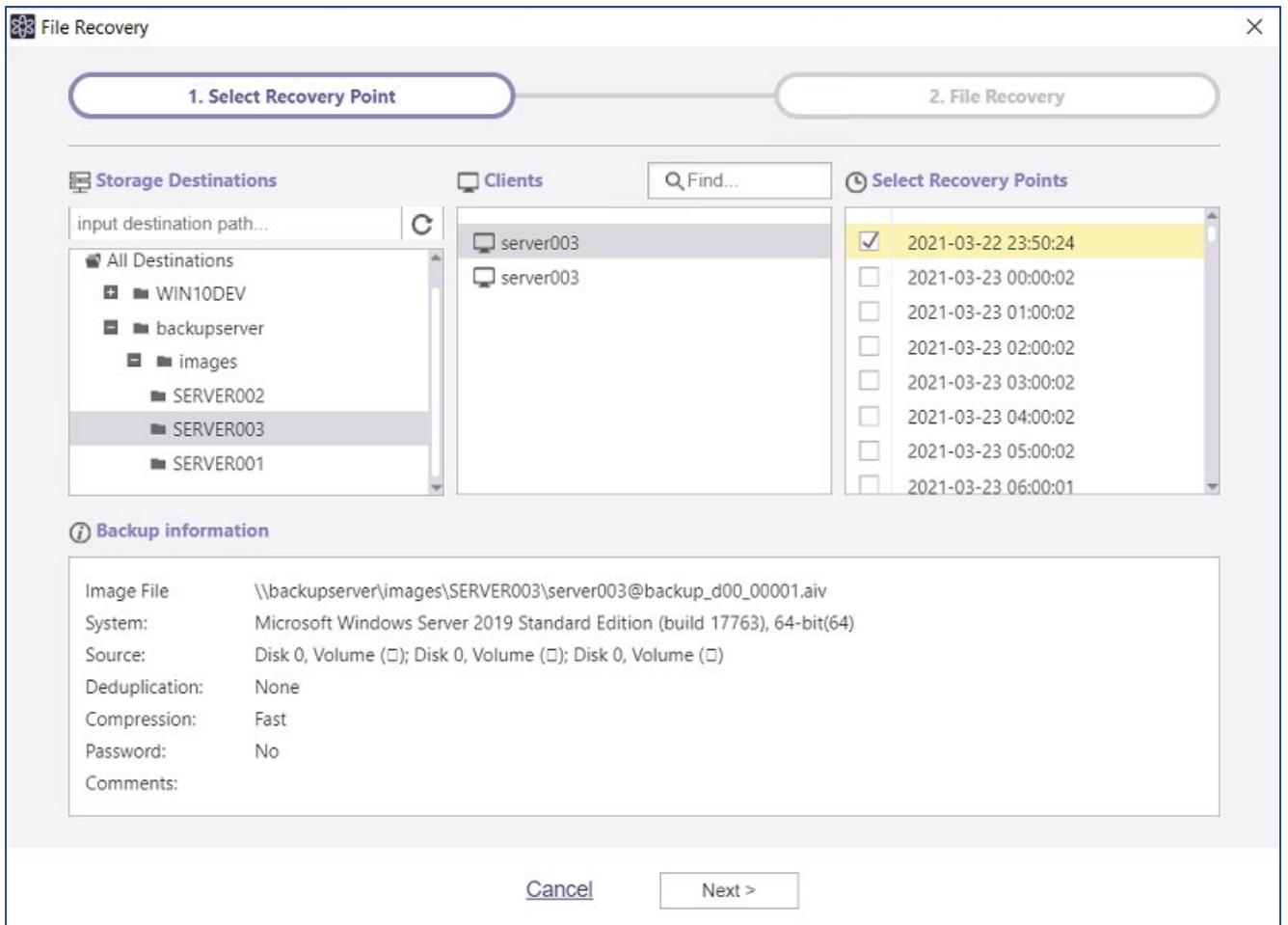


Fig. 4.42 Select Recovery Point

Backup Information is also displayed. Click [Next].

Mounting recovery point in progress.

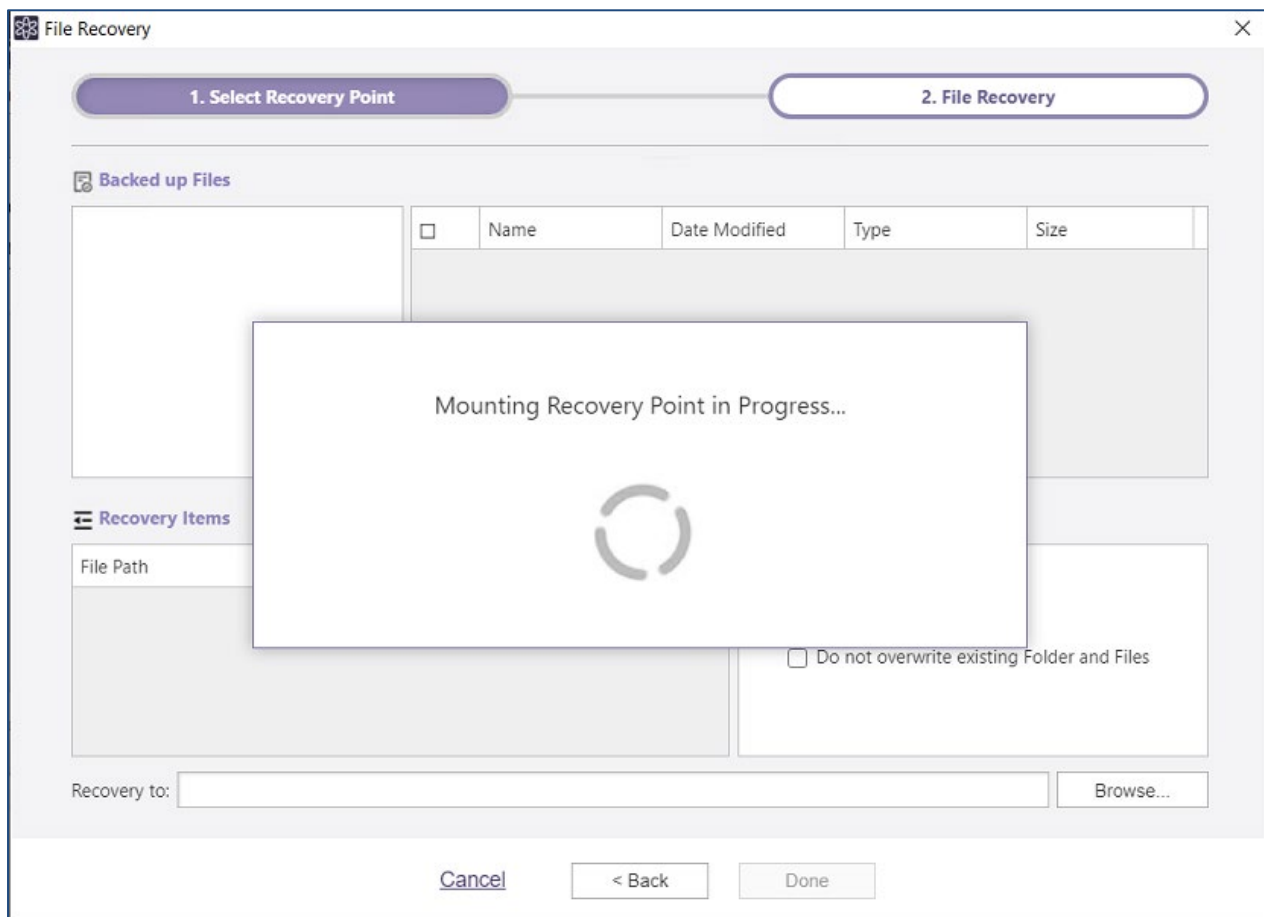


Fig. 4.43 Mount Recovery Point

Select the source backup file to restore a file / folder from. The backup file is mounted in the file/folder structure on the client (mostly the same manner as ActiveImage Protector Mount Backup Image feature.)

Select a source backup image file and the location for [Recovery to:] for saving the restored file. Please configure the option settings, if necessary.

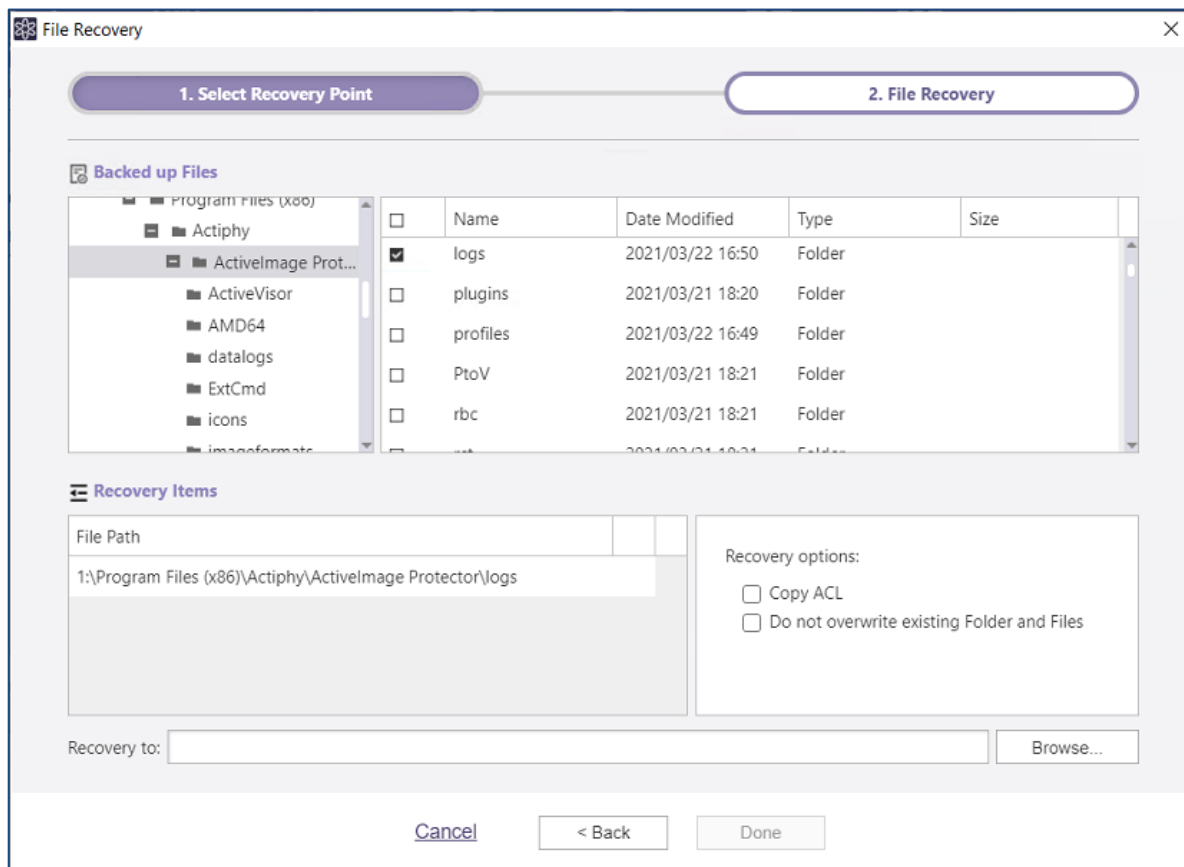


Fig. 4.44 Backup file to restore, the restore destination

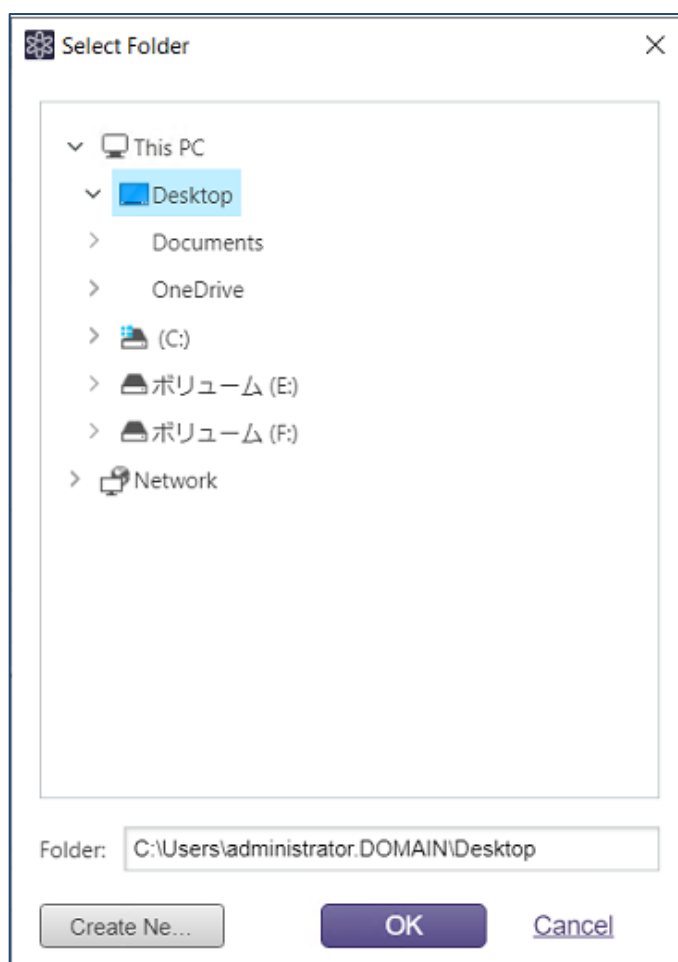


Fig. 4.44 Select a destination folder

Click [OK] to start File Recovery task and the task is saved.

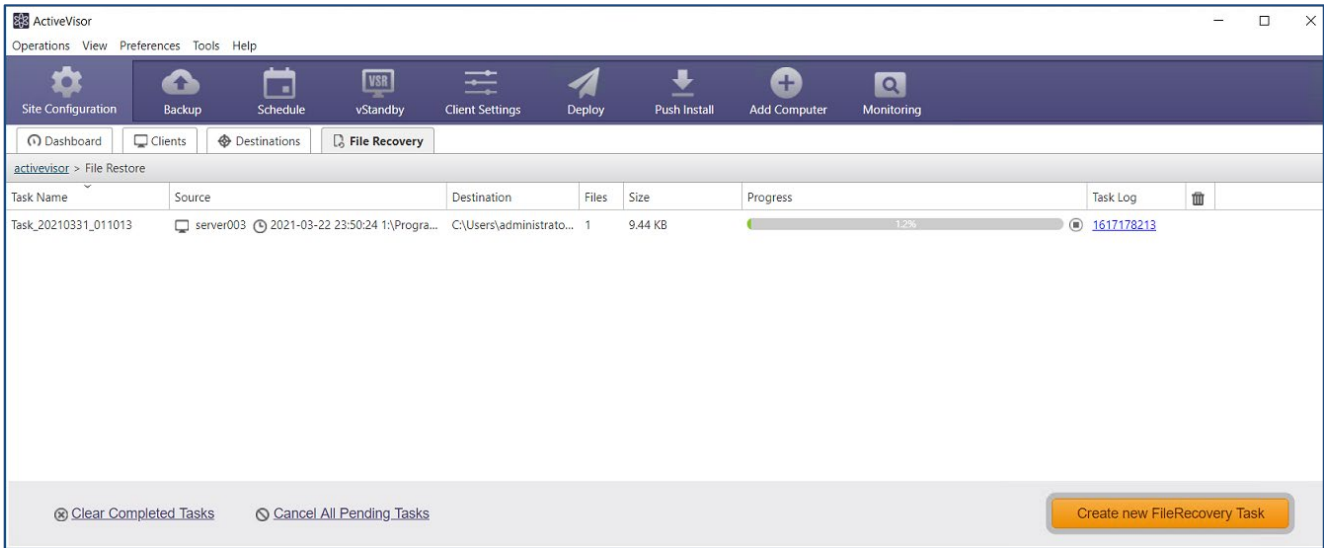


Fig. 4.45 File Recovery Task

Click [Create new File Recovery Task] to launch [File Recovery] wizard as shown in Fig. 4.42.

ActiveImage Protector provides a variety of Recovery features. In comparison, ActiveVisor provides File Recovery feature only. Since ActiveVisor’s File Recovery feature runs locally on the machine which ActiveVisor runs on, File Recovery can be performed without the need for other agent or using ActiveImage Protector. This feature is convenient to use for a quick file recovery.

APPENDIX

A.1 Generating Support Information File

Please remember when contacting Actiphy’s Technical Support that you will be asked to provide the client information. Especially when only agent is installed in the client, it is convenient to generate the client information from ActiveVisor. The support information file will be generated in ZIP file format in the local folder on the local host where ActiveVisor is installed.

Right-click on the managed client in the client list and select [Get Support Info] in the context menu.

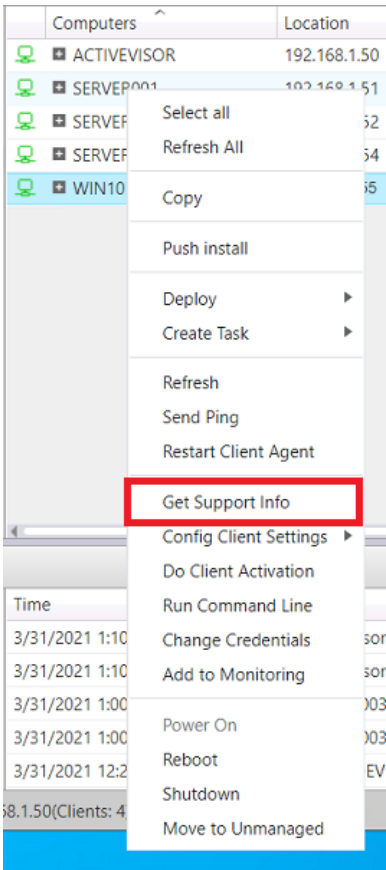


Fig. A.1 Get Support Info

[Get Support Information] dialog is displayed.

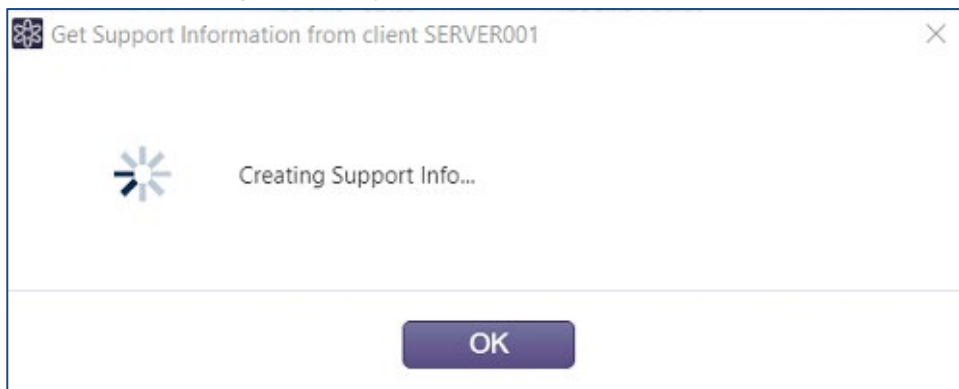


Fig. A.2 Creating Support information

When completed, the dialog provides the path to the location where the support information file is saved.

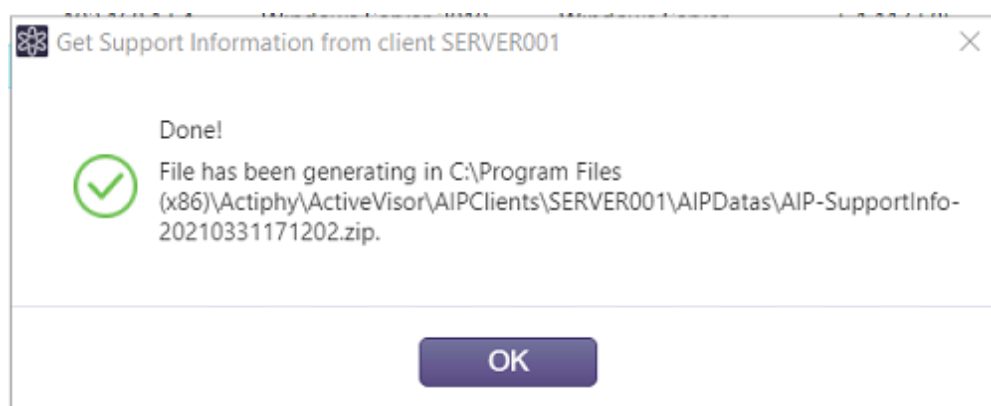


Fig. A.3 The location where the support information file is saved

Please E-mail the support information file located in the above location when requesting Actiphy for technical support.

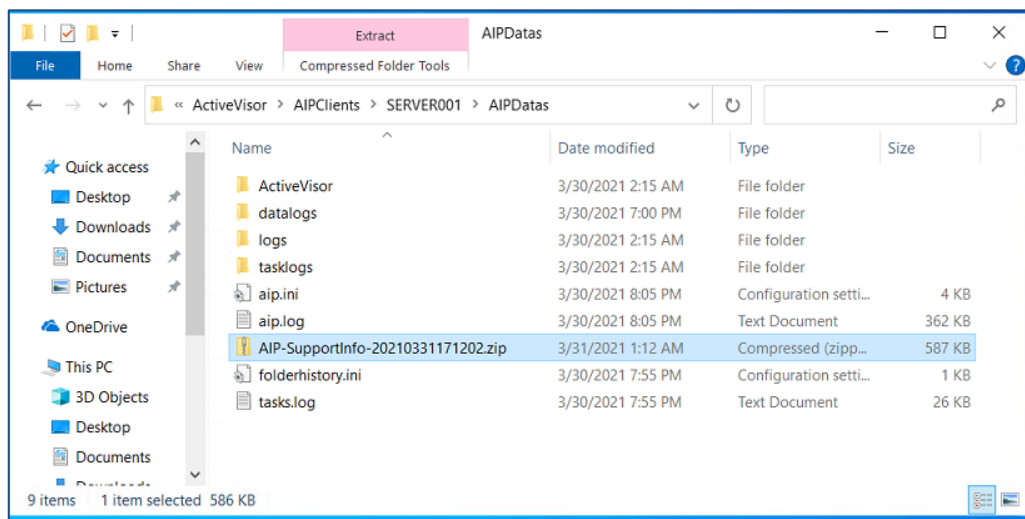


Fig. A.4 Support Information File created in ZIP file format

A.2 Reference - ActiveVisor

●Actiphy's Web site

Our Web site provides access to comprehensive information including the product information, related documents, technical support, updates, etc.

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

●ActiveVisor FAQ

<https://enkb.actiphy.com/>

Support information can be accessed at the FAQ web site.

● For inquiries about ActiveVisor, please contact Global Sales Dept., Actiphy Inc.

E-mail: global-sales@actiphy.co.jp
(TEL) +81-3-5256-0877 (FAX) +81-3-5256-0878

The software and the related documentation are proprietary products of Actiphy, Inc., and are copyrighted to the company.

Copyright© 2021 Actiphy, Inc. All rights reserved.

ActiveImage Protector, ActiveImage Protector Server, ActiveImage Protector Desktop, ActiveImage Protector IT Pro, ActiveImage Protector for Hyper-V Enterprise, ReZoom it! , ActiveImage Protector Linux, ActiveImage Protector Virtual, ActiveImage Protector Cluster, ActiveImage Protector Cloud, ActiveImage Protector Basic, ImageBoot, ImageCenter LE, BootCheck, ActiveImage Deploy USB and ActiveVisor are trademarks of Actiphy, Inc.

Other brands and product names mentioned in this guide are trademarks or registered trademarks of their respective holders.