

# ActiveVisor<sup>TM</sup>

ActiveVisor

Startup Guide

4<sup>th</sup> Edition

September, 2019

# 内容

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# 1. Initial Setting and Installation of ActiveVisor

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## 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.  |
| Screen Resolution   | 1280x1024 or above is recommended.  |
| DVD-ROM Drive       | Required to install the product and boot up ActiveImage Protector Boot Environment. |
| Supported OS        | Windows 10 (x64), Windows Server 2012R2 or later OS                                 |

If 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.

The client agent supports ActiveImage Protector 2018 SP2 or later version and is full-featured. (2016 R2 or 2018 client agents have functional limitations.)

## 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.

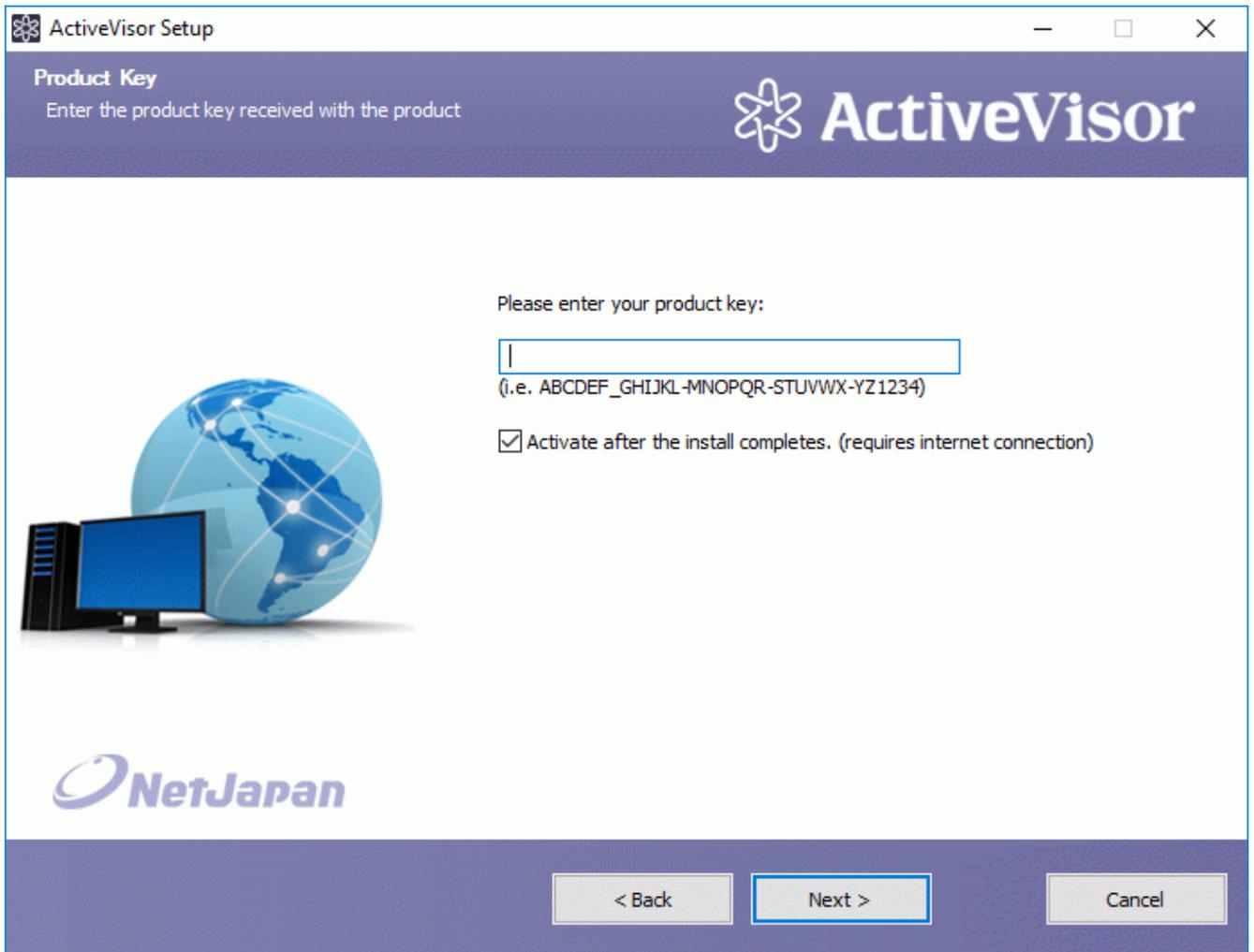


Fig. 1.2 Enter the product key

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

The End User's License Agreement is displayed.

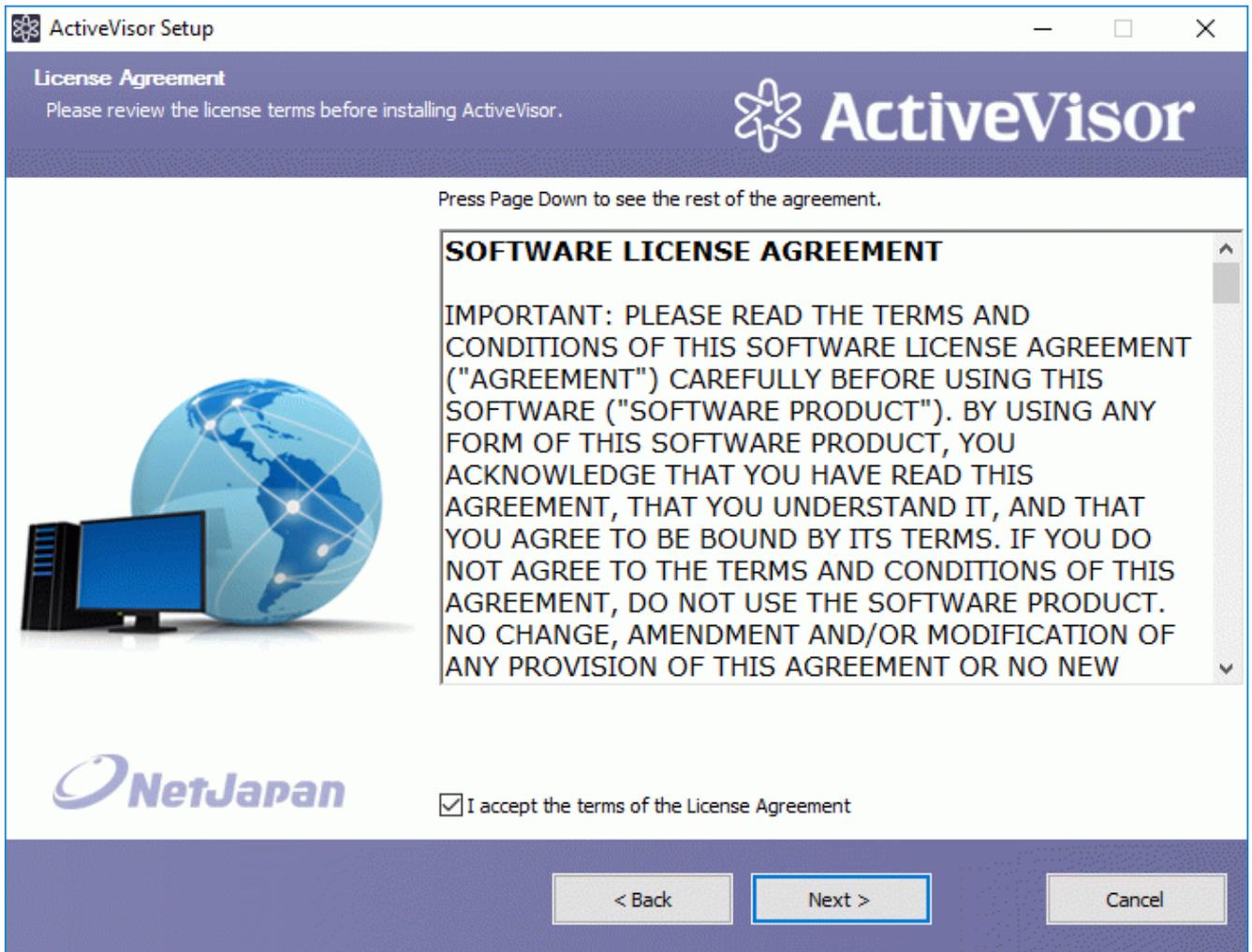


Fig.1.3 End User's License Agreement

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.

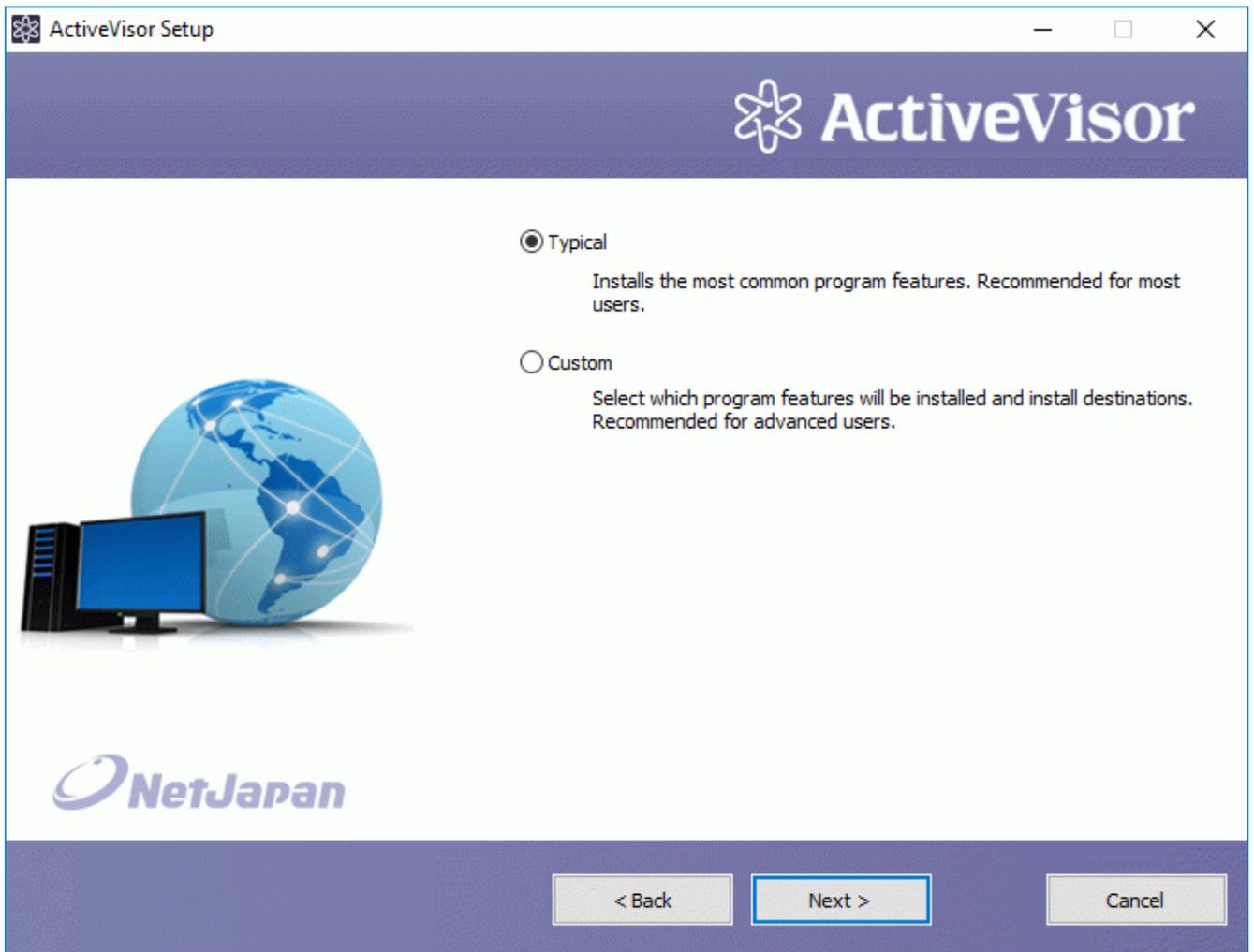


Fig. 1.4 Select Setup type

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

Installation starts.

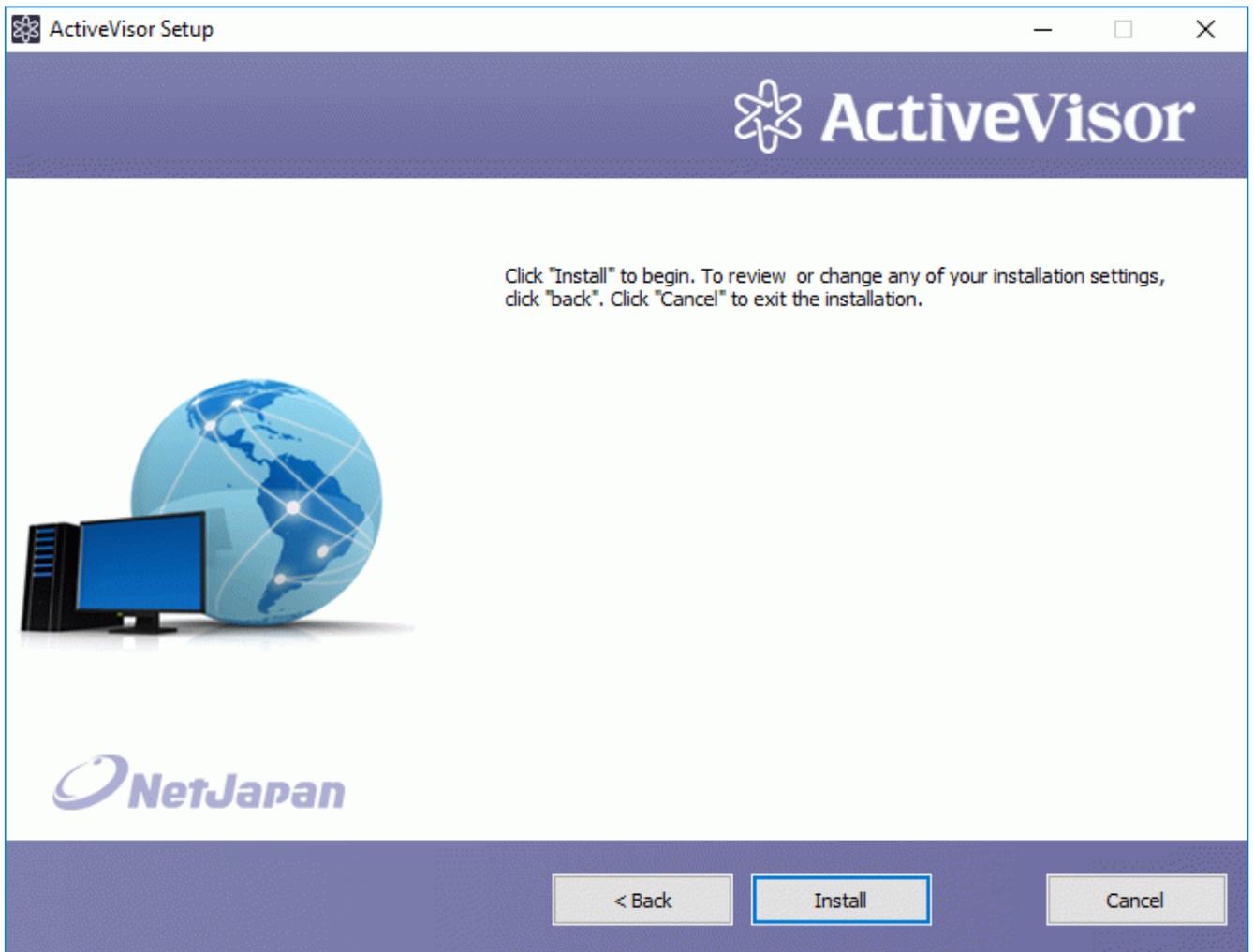


Fig. 1.5 Ready to start installation

Click [Install] to start installation.

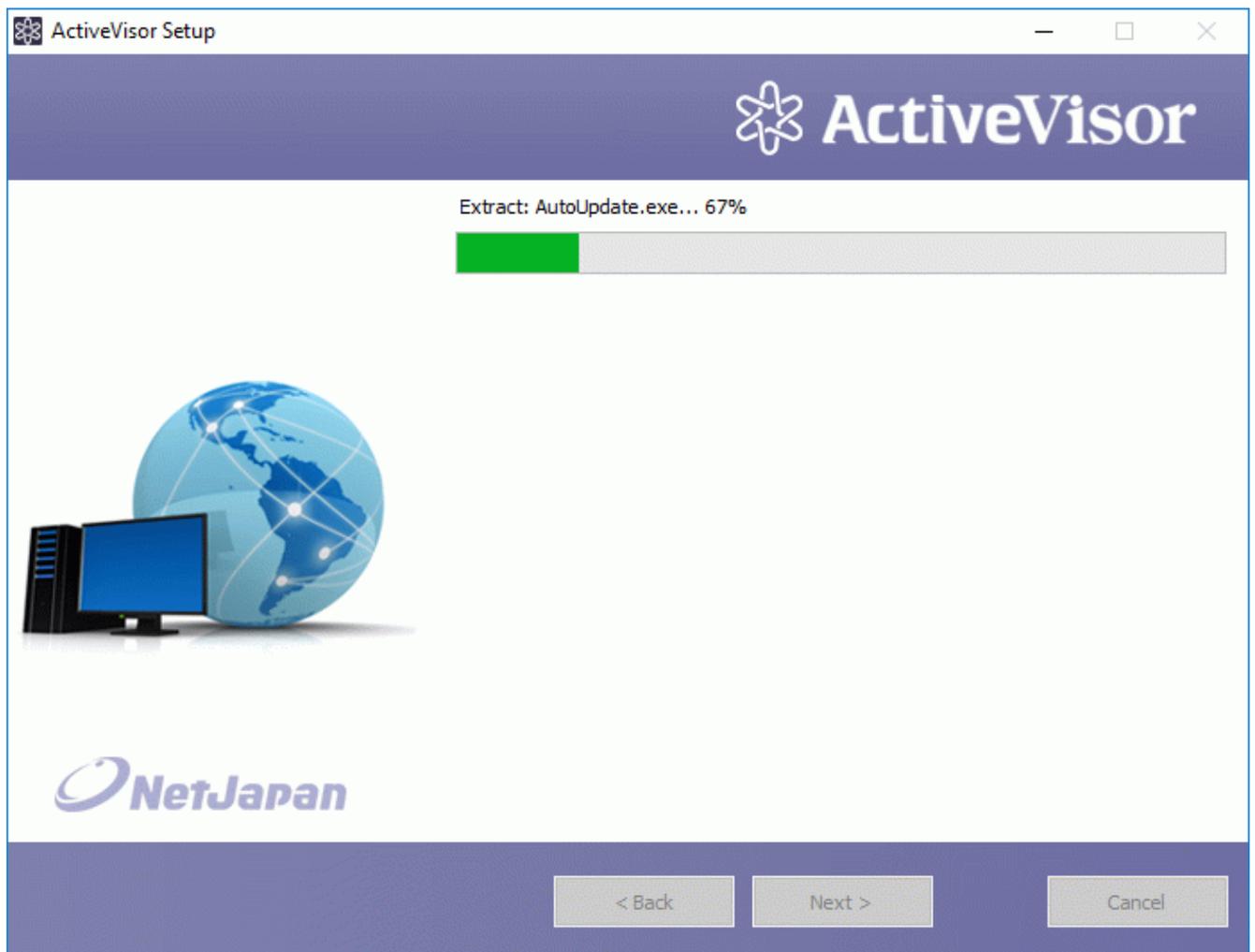


Fig. 1.6 Installation in progress.

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 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 Network Search Monitoring

Site Initialization Settings

Following preferences will be used as defaults to connect, authenticate and discover network resources at this managed site.

Site Name: server07  
Please enter identifying name for this site.

Location: Location  
Please enter location for this site.

Site Credentials

Please select network authentication type and enter credentials.

Active Directory  Windows Network  Hypervisors [Add Hypervisor...](#)

Admin User Name: Administrator  
Password: .....  
Domain Name:

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

Network Discovery

Automatically  Manually

Operation Mode

Please select whether to run ActiveVisor in Online mode or in Offline mode.

Internet Online Mode - ActiveVisor will interact with Online Activation Server to obtain latest information.  
 Internet Offline Mode - ActiveVisor will act as a standalone license server on local network.  
You must request an Offline License Bundle to use in internet offline mode. Product keys included in the Offline License Bundle will be locked into stand-alone mode and will be blocked from regular online activation.

Copy URL Set Bundle File

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.

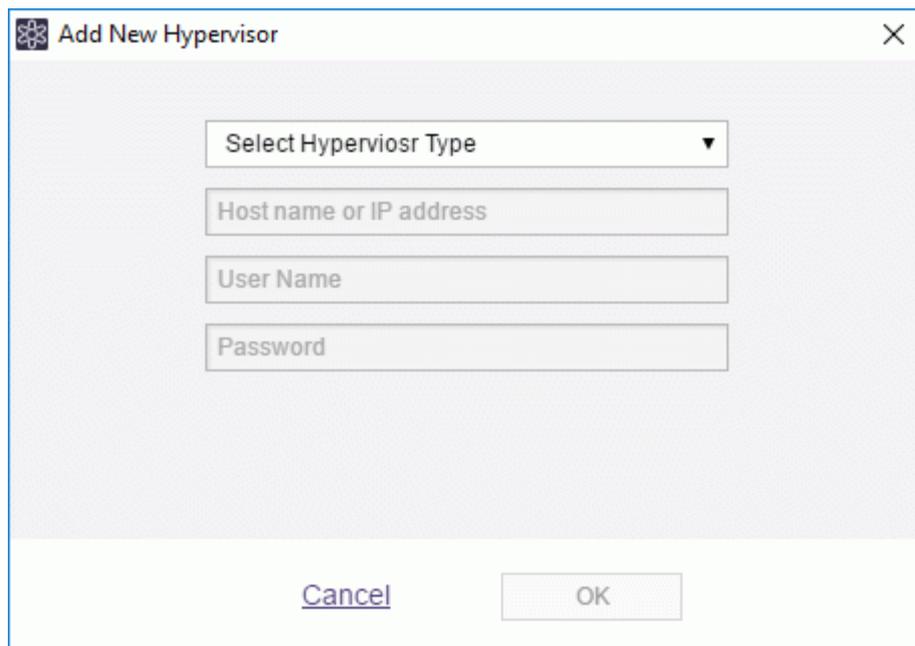
- Active Directory
- Windows network
- Hypervisor

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. This option is useful

when you need to add the virtual machines that were not discovered by Network Discovery. Click [Add Hypervisor] to display Fig. 1.9.



The image shows a dialog box titled "Add New Hypervisor". It features a title bar with a gear icon on the left and a close button (X) on the right. The main content area contains four input fields stacked vertically: a dropdown menu labeled "Select Hyperviosr Type", a text box labeled "Host name or IP address", a text box labeled "User Name", and a text box labeled "Password". At the bottom of the dialog, there are two buttons: "Cancel" and "OK".

Fig. 1.9 Add Hypervisor

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

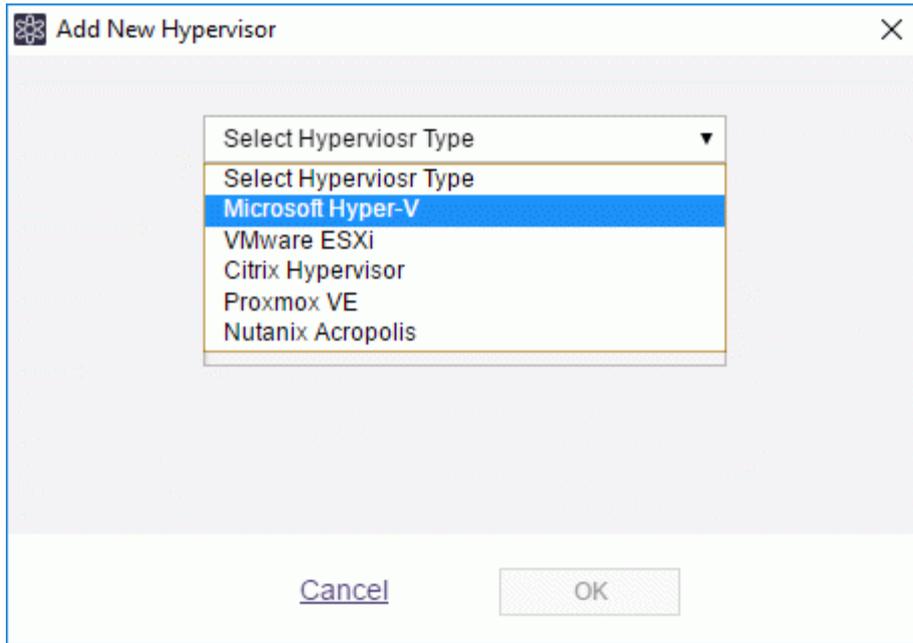


Fig. 1.10 Select Hypervisor Type

Please enter the host name, user name and password.

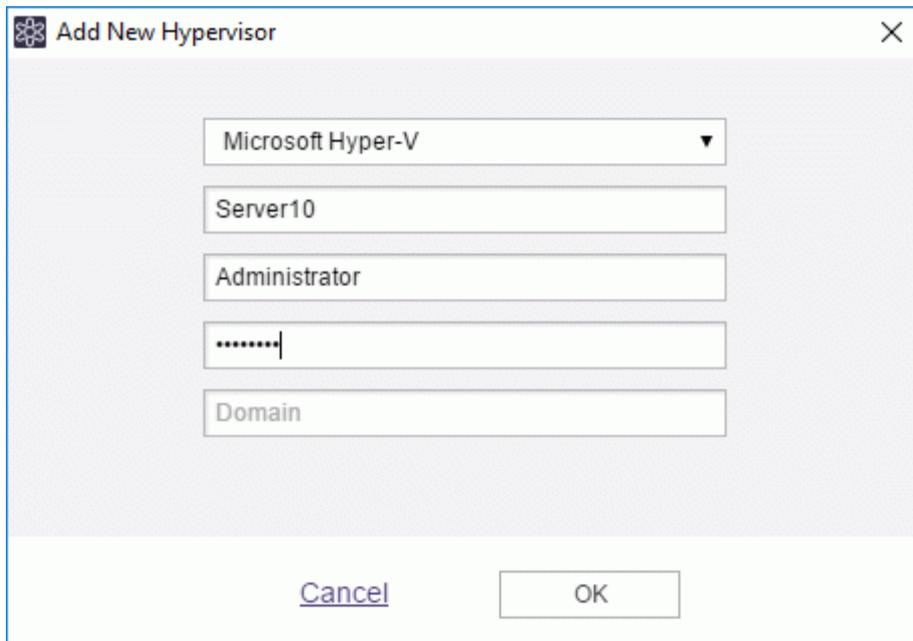


Fig. 1.11 Enter the credentials information

Click [OK] and enter the credentials information.

Please make sure [Done] is indicated in green.

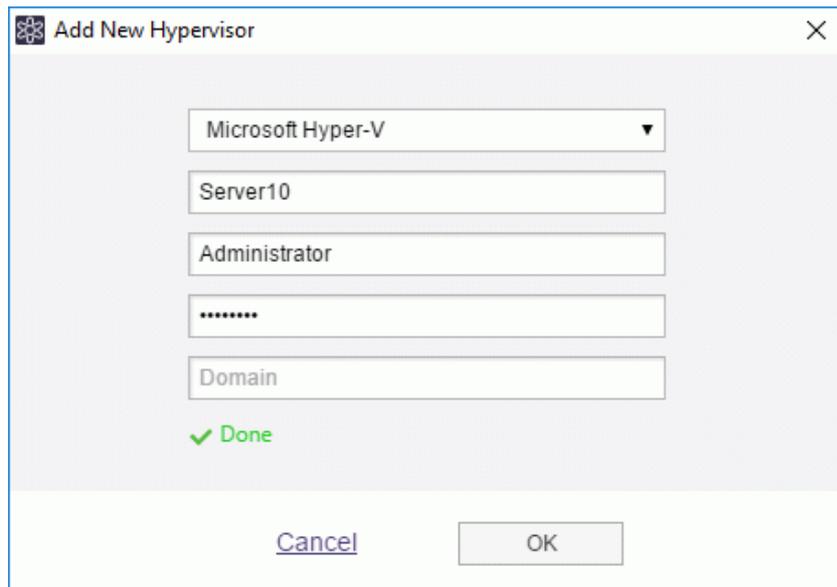


Fig. 1.12 Authentication Completed

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

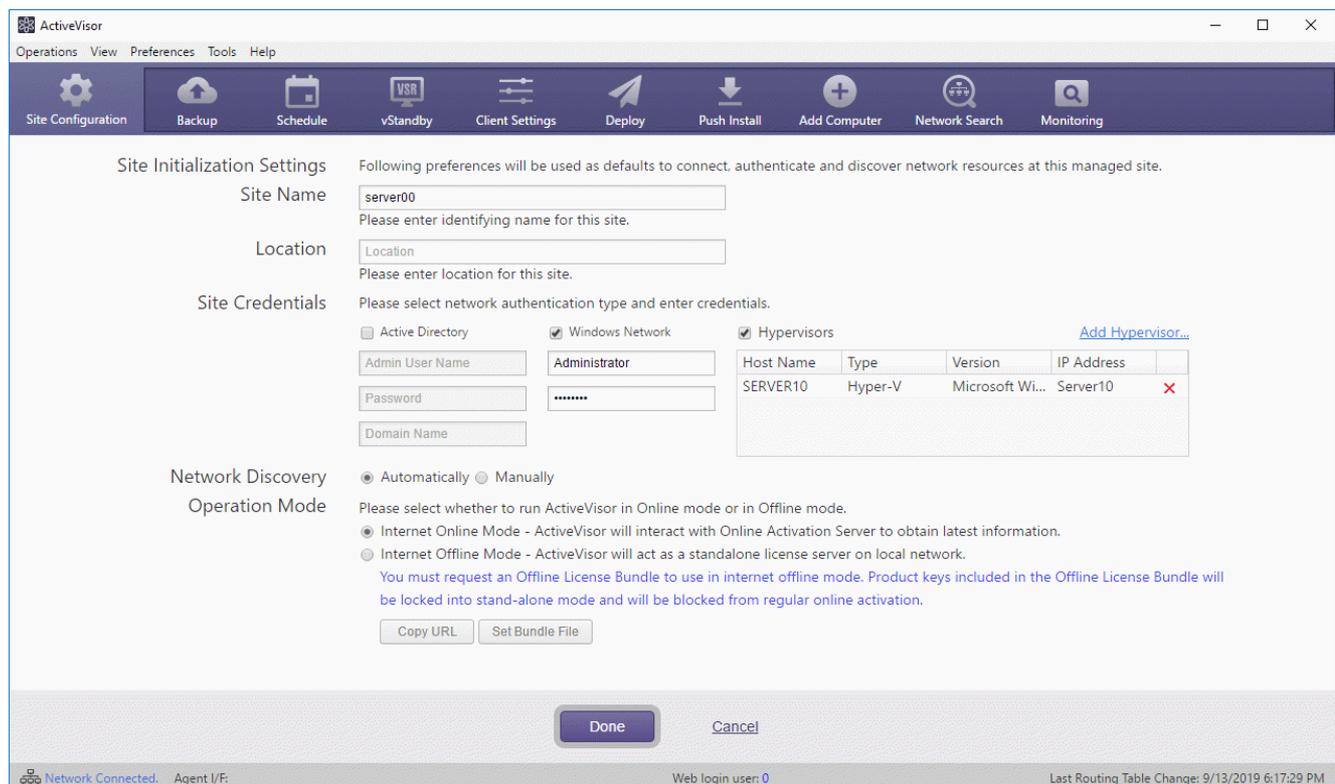


Fig. 1.13 Added Hypervisor

Please repeat the same steps and add as many hypervisors as needed. Click [x] indicated in red at the right end to delete a hypervisor from the list. You are allowed to add a hypervisor at the very first startup of this product or any time later.

From [Operation Mode], select one of the following, [Internet Online Mode] or [Internet Offline Mode]. Usually connected to the internet, select [Internet Online Mode] (default). If selecting [Internet Offline mode] without an internet connection, ActiveVisor can activate a client host via the license file, and manage and operate AIP agents on the client hosts. If selecting [Internet Offline mode], an offline issued license bundle is required (for more details, please refer to Chapter 5.)

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

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

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

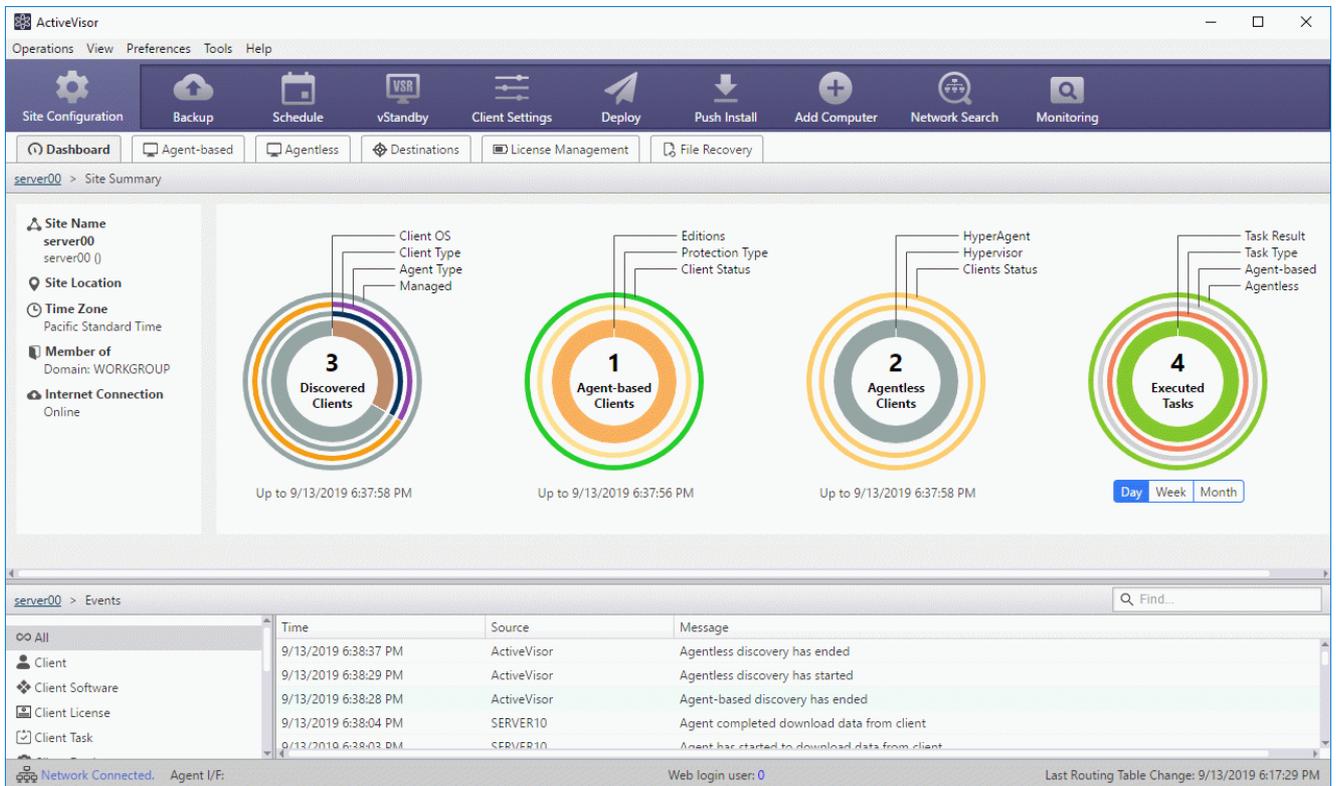


Fig. 1.14 The number of clients indicated in [Dashboard] tab

Also, the numbers of agent-based clients which ActiveImage Protector is installed and agentless clients are indicated.

Switching from the [Dashboard] tab to the [Agent-based] tab displays the list of the found agent-based clients.

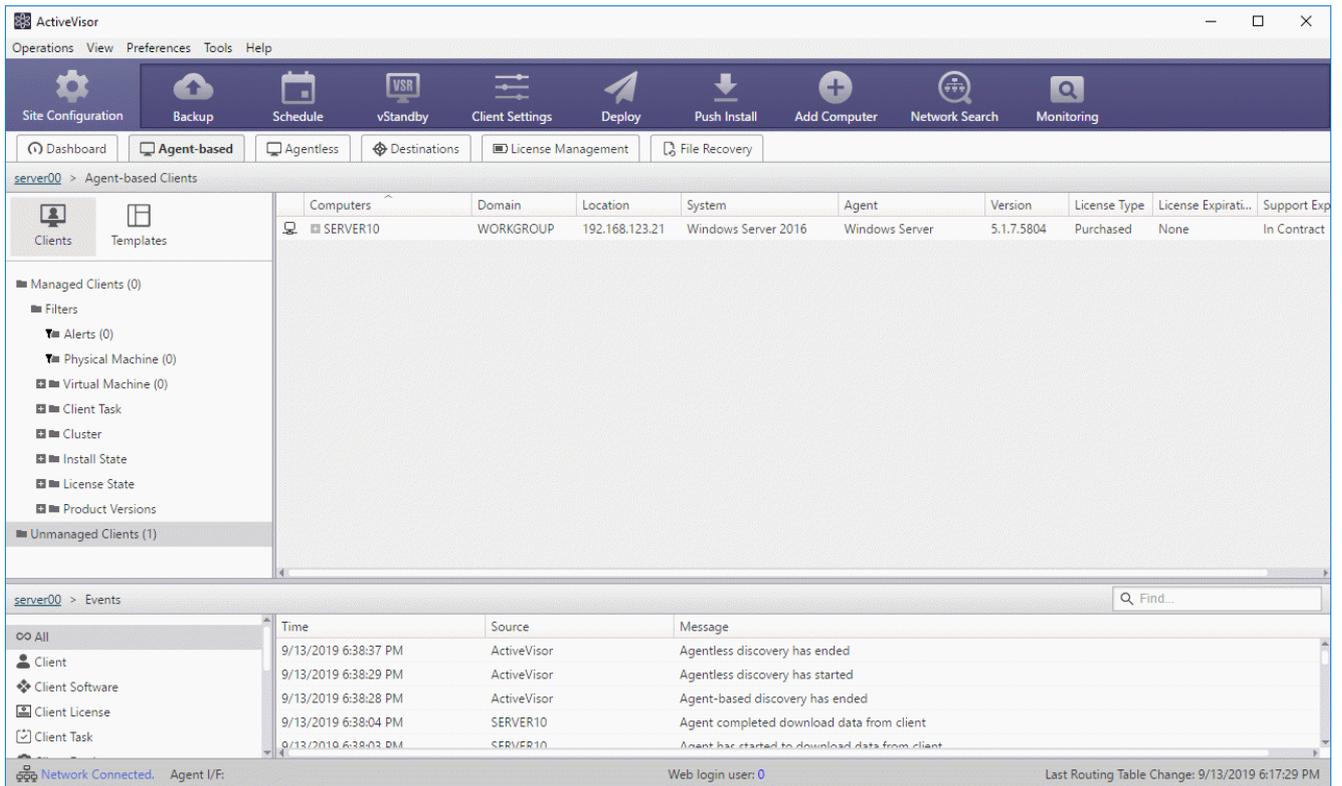


Fig. 1.15 List of Agent-based Clients

In the initial display, the clients are listed as [Unmanaged], while agentless clients are listed in [Agentless] tab.

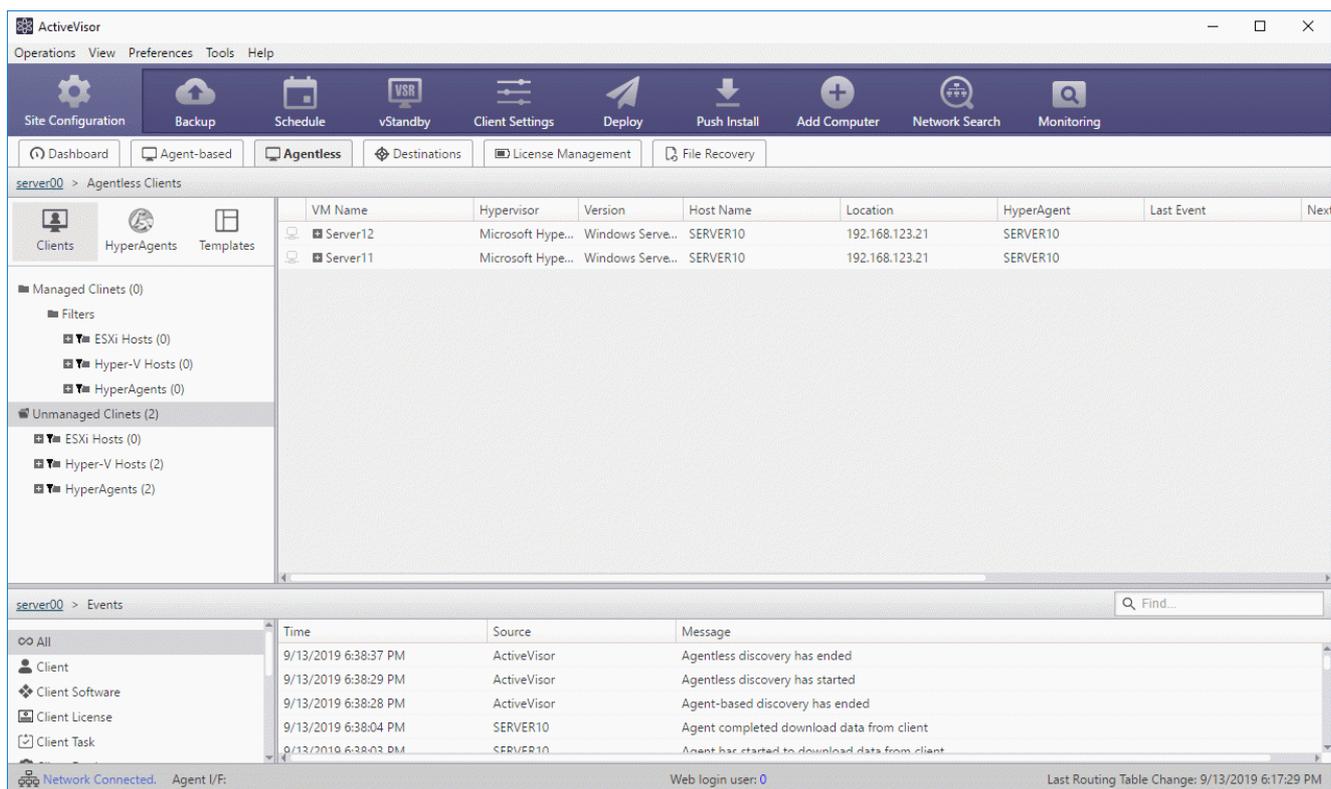


Fig. 1.16 List of Agentless Clients

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

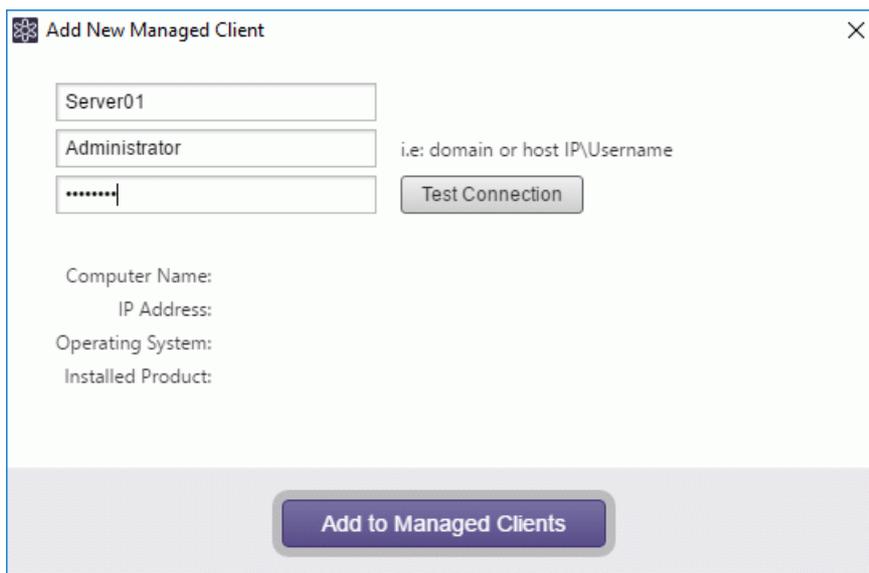


Fig. 1.17 [Add New Managed Client]

Enter the local host name or IP address, User Name and Password. Click [Test Connection] to establish the connection.

Once the connection is established, click [Add to Managed] to add the client machine to the [Managed] list in [Agent-based] tab.

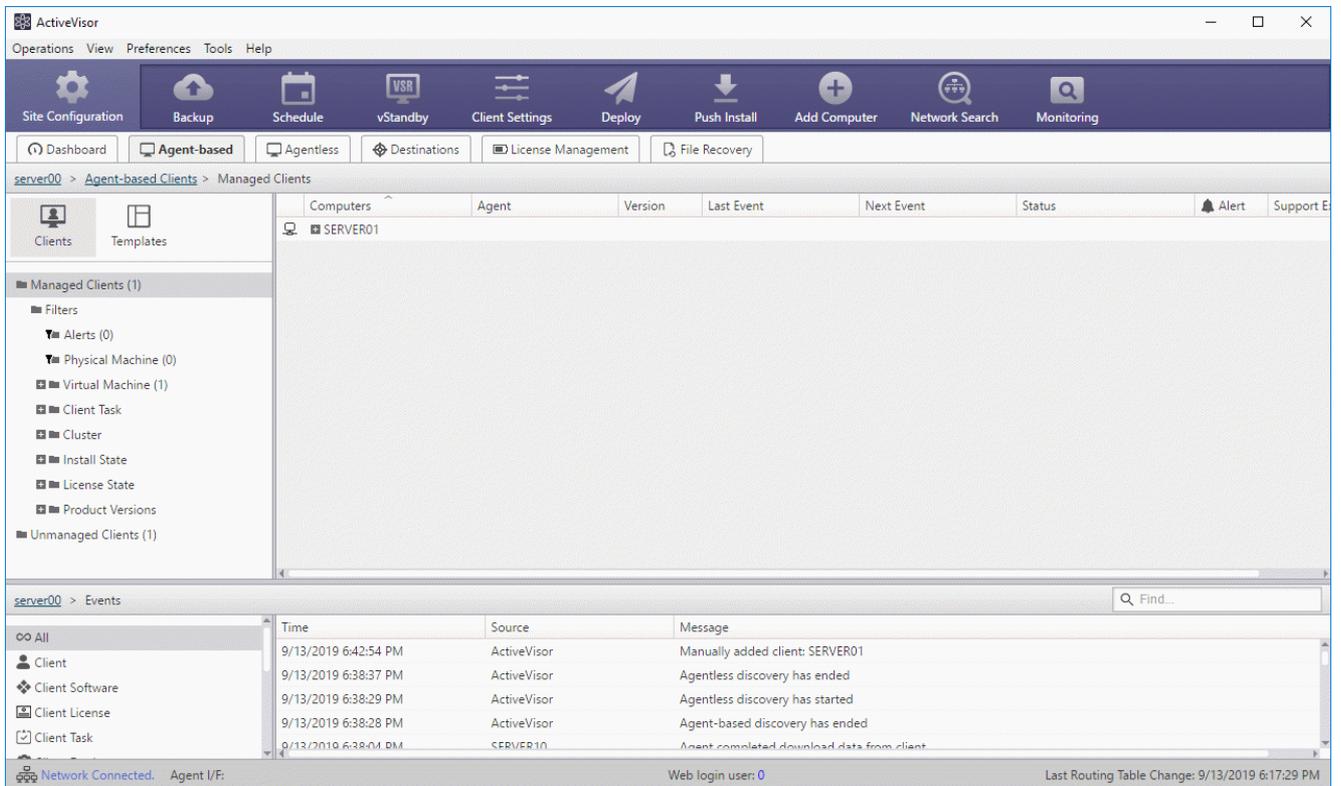


Fig. 1.18 Add to Managed

Server02 and Server03 are also added to Managed.

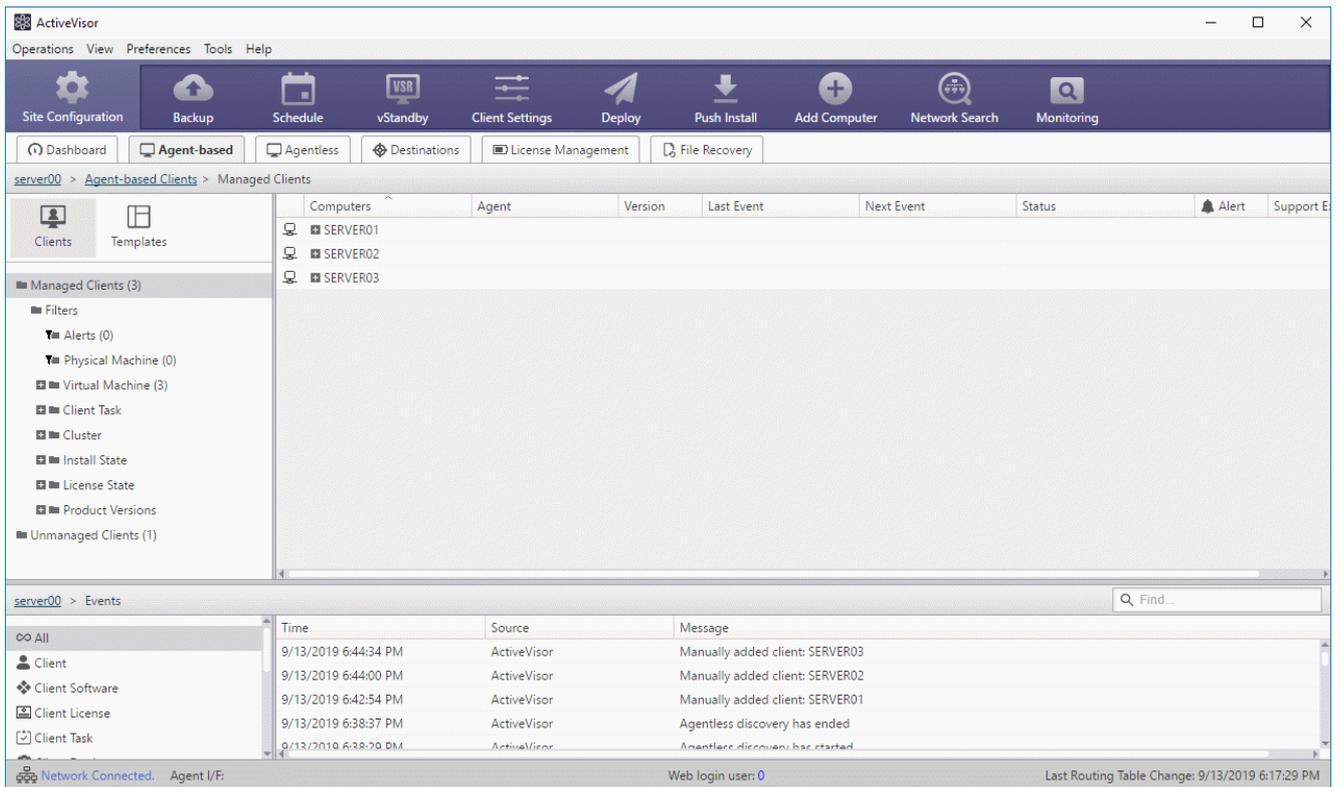


Fig. 1.19 Server02 and Server03 are added to Managed

To manage clients by using ActiveVisor, add the clients to [Managed] in [Agent-based] tab and [Agentless] tab.

Drag and drop the clients from the [Unmanaged] to [Managed] list, or right-click on a client in [Unmanaged] list and select [Move to Managed].

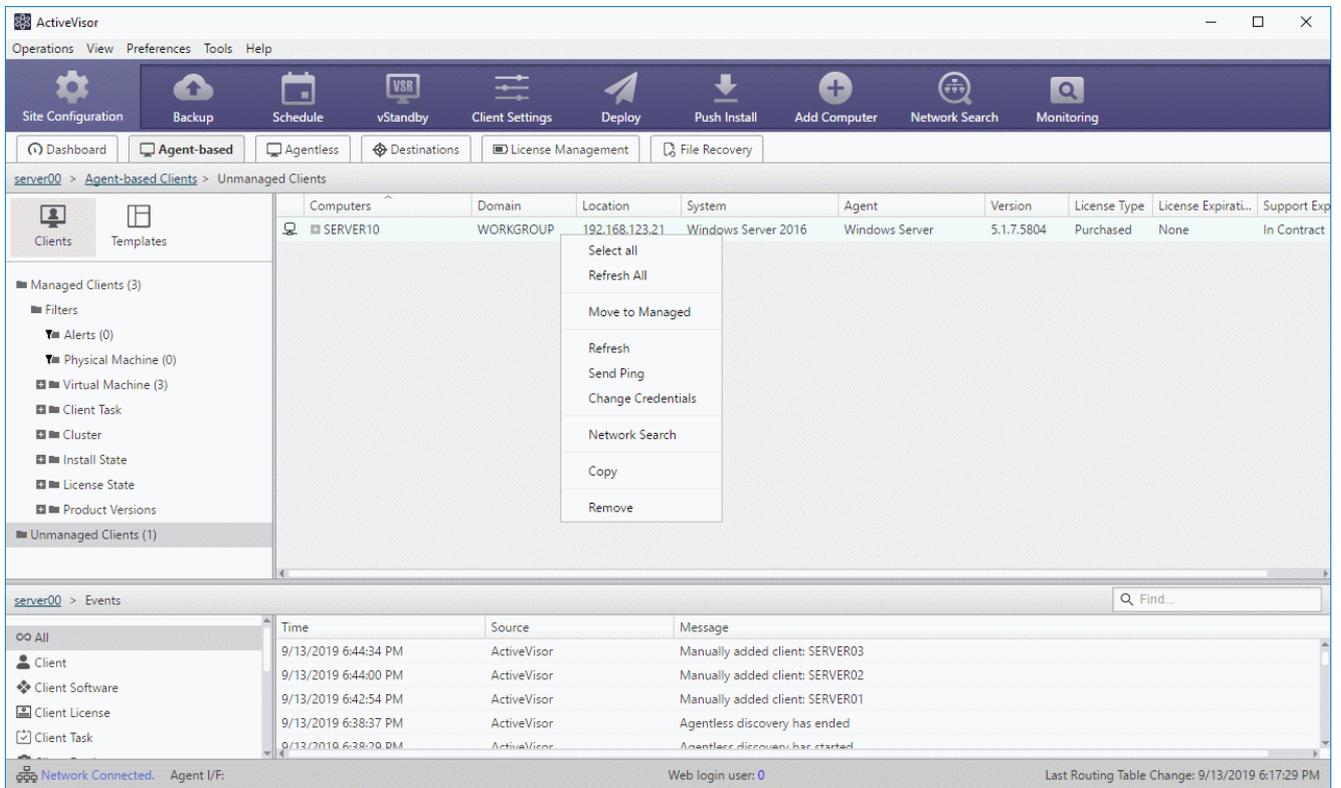


Fig. 1.20 Add clients to [Managed]

The clients are now in the [Managed Clients] list. It is not necessary to add all of the client machines, just add the clients that require management.

## 2. Push Install ActiveImage Protector to Clients

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In order for ActiveVisor to manage client machines, ActiveImage Protector has to be installed to the clients. ActiveImage Protector works as the agent for ActiveVisor that 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 local folder ("C:/work" in this example) on the machine which ActiveVisor is installed. The installer program may be installed in optical media and executed, however, it is recommended to save the installer program and installation files to the local folder to deliver faster read and write speeds.

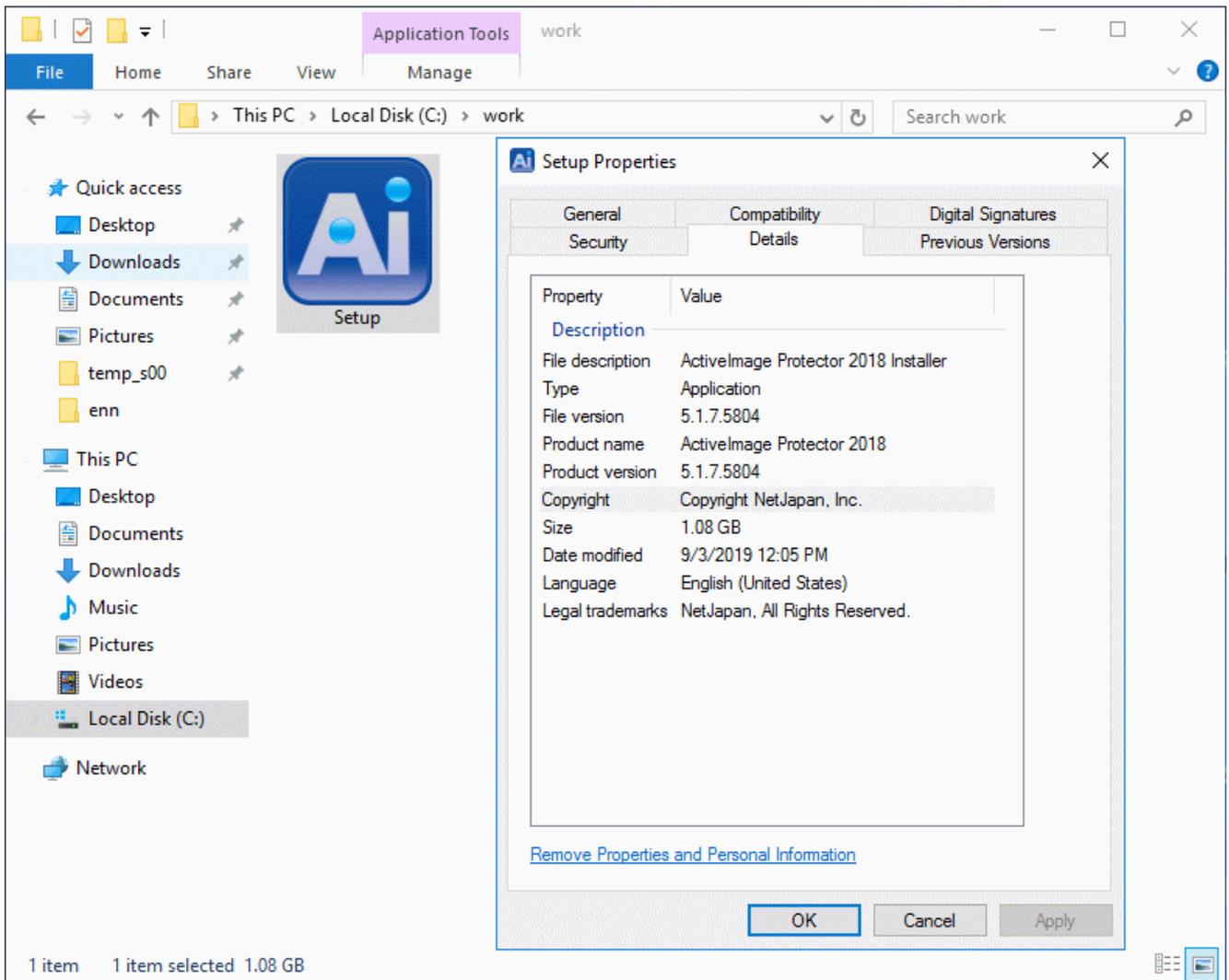


Fig. 2.1 Copy ActiveImage Protector installer program

Next, have the product key handy. Actiphy provides you with a product key in order to activate 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 [License Management] tab. The license information of the clients on which ActiveImage Protector is installed is displayed in [License Management] tab.

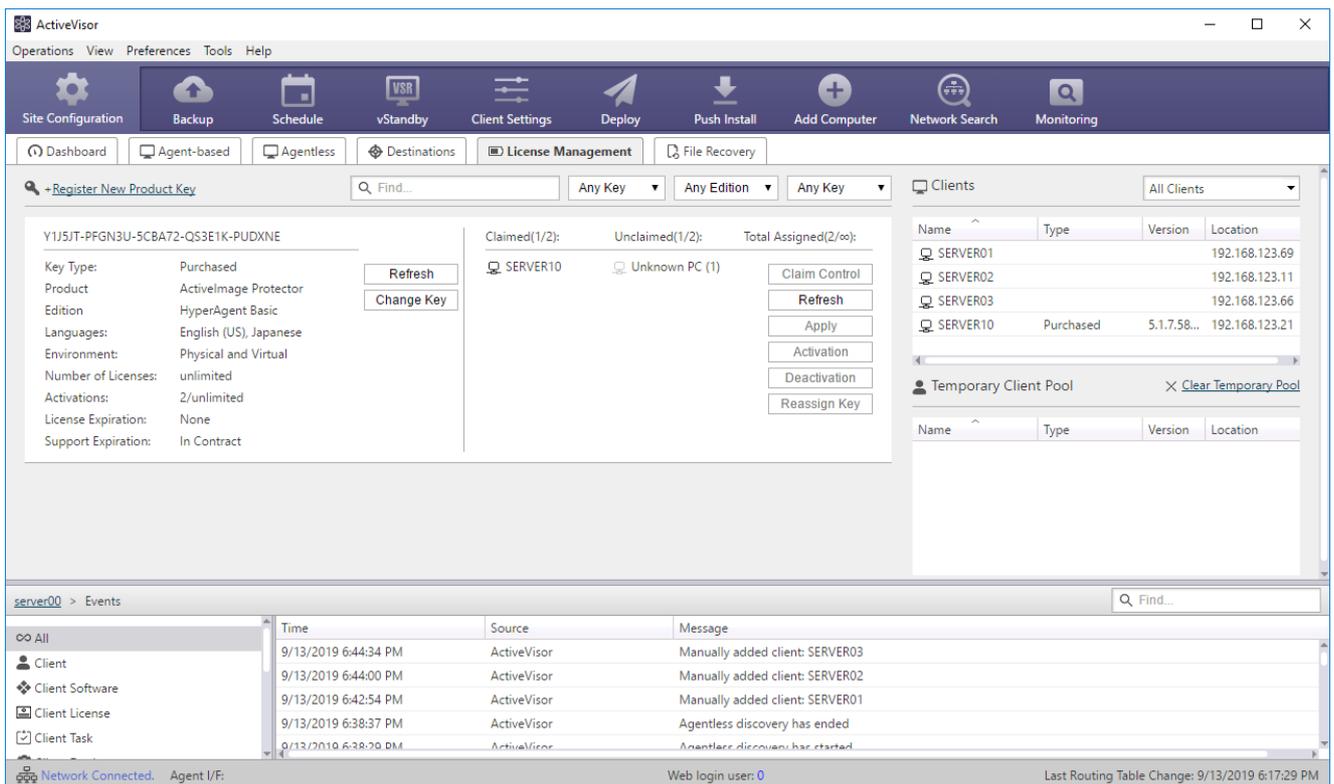


Fig. 2.2 [License Management] tab

To register a new product key, click [Register New Product Key] from the upper left corner of the [License Management] dialog box. The following dialog prompts you to enter the product key.

Click [OK].

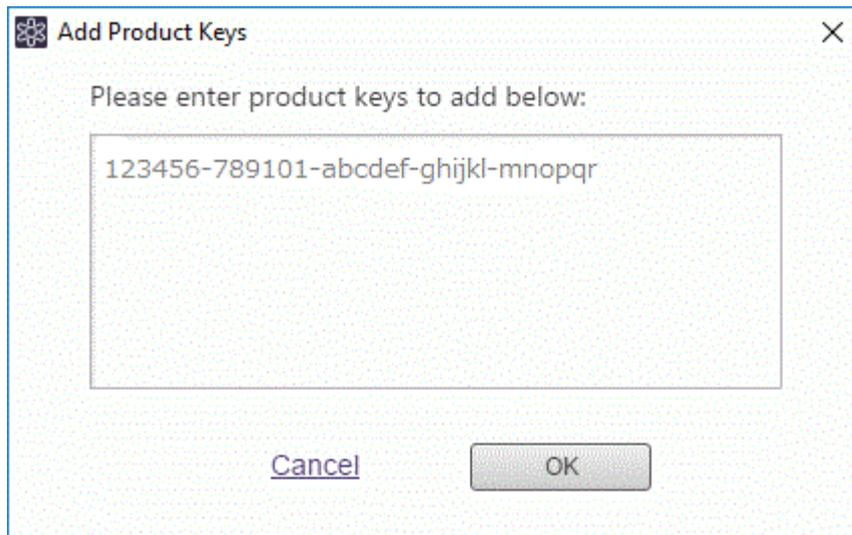


Fig. 2.3 Add Product Key

Product keys for the server are registered here.

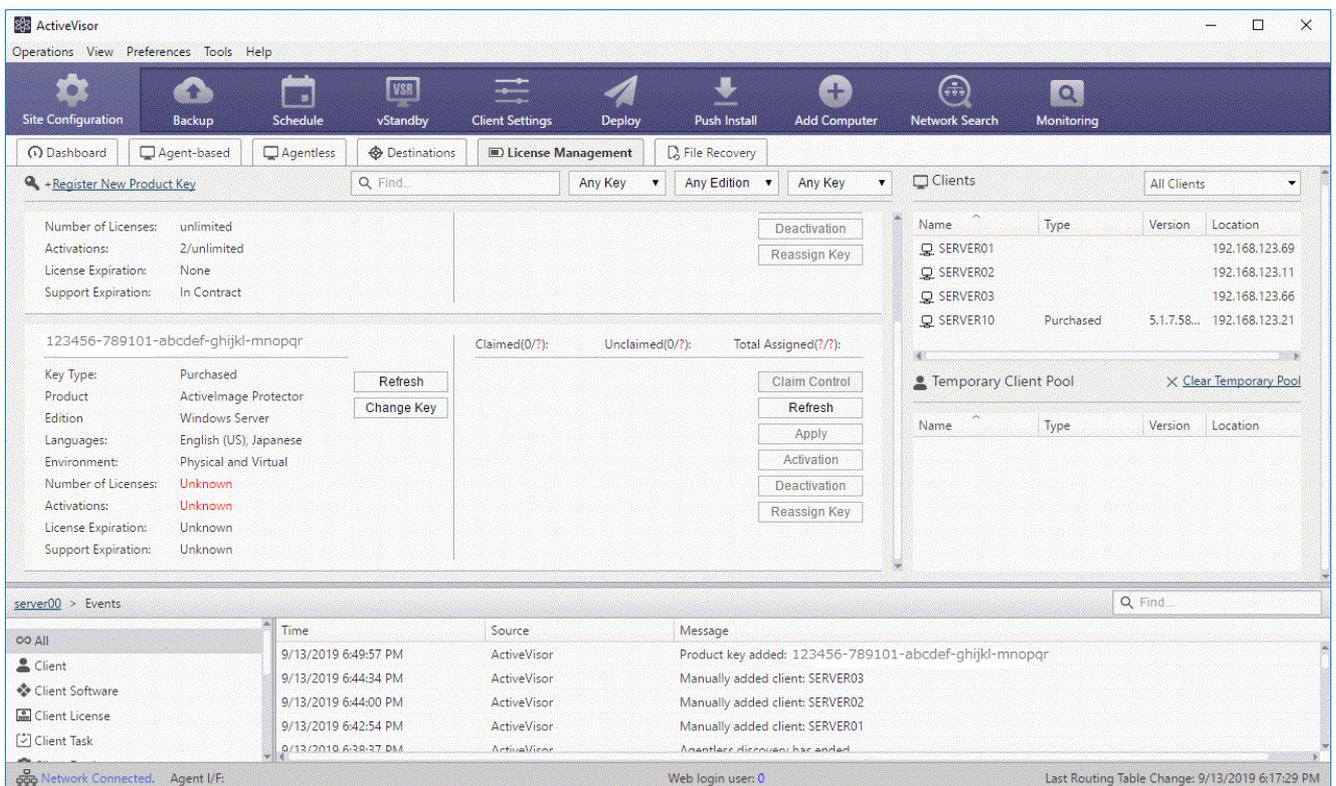


Fig. 2.4 Registered Product Key

## 2.2 Push Install

To start a Push Install, please select [Push Install] → [Initial Install].

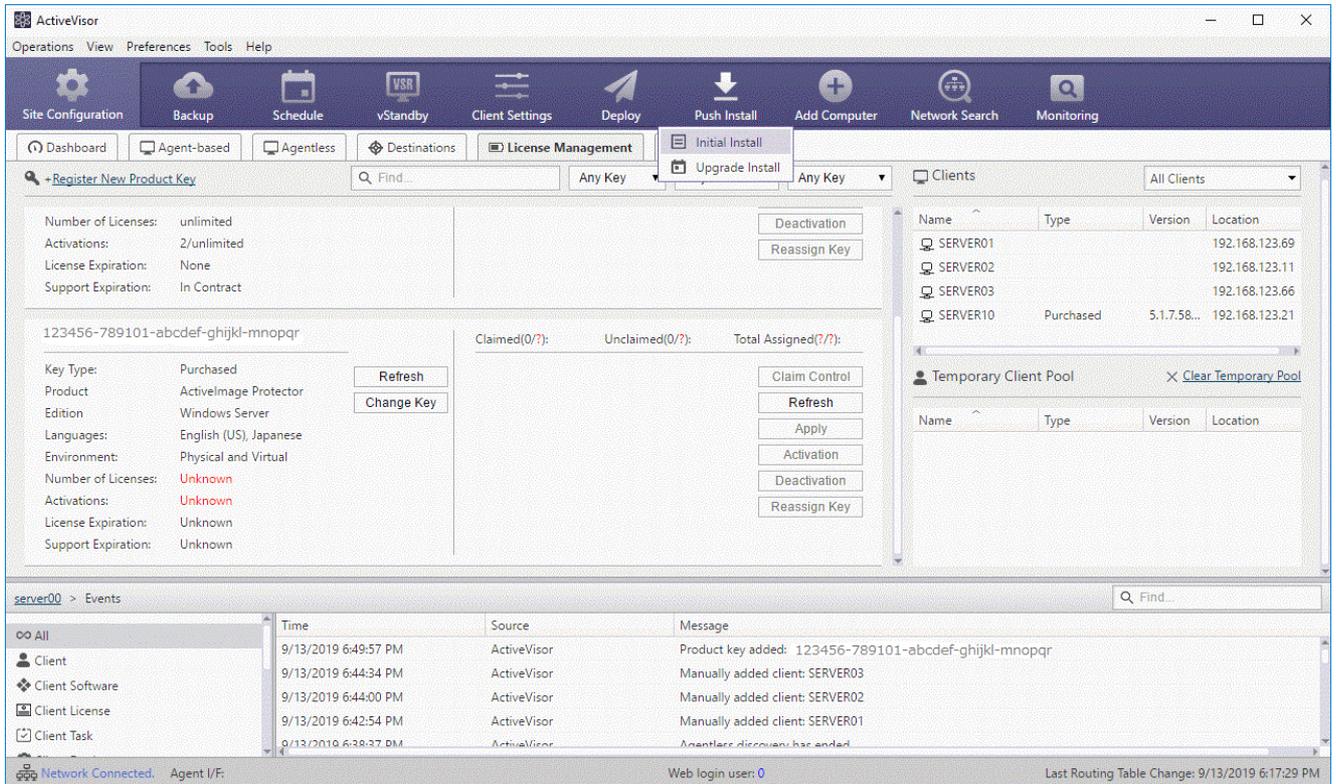


Fig. 2.5 Select [Initial Install]

The following dialog is displayed to select the installation package and the product key.

The screenshot shows a dialog box titled "Push Install" with a close button (X) in the top right corner. The dialog is divided into several sections:

- Package Selection:** Two dropdown menus at the top, "Select Install Package" and "Select Product Key".
- Product Information:** Labels for "Product:", "Version:", "Date: N/A", "Edition:", "License:", and "Environment:".
- Select Install Components:** A section header.
- Options:** Two checkboxes: "No reboot on installing" and "No auto activate".
- Target Computers:** A section header with an "Add new ..." button. Below it is a table with columns: "Computers" (with a checkmark and an upward arrow), "IP Address", "System", and "Status". The table body is currently empty.
- Buttons:** "Cancel" and "Install" buttons at the bottom right.

Fig. 2.6 Push Install Wizard

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

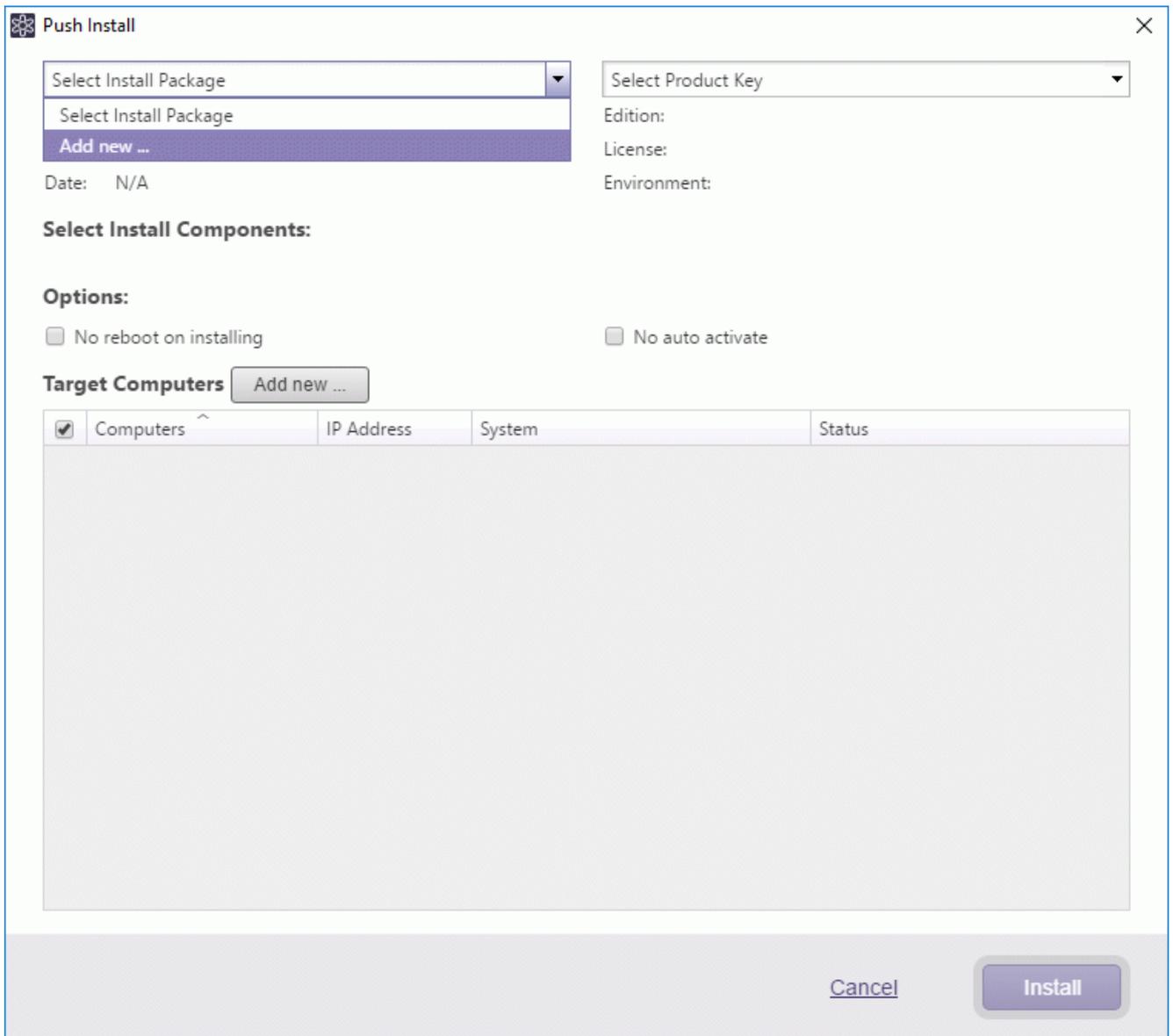


Fig. 2.7 Select [Add new]

Specify the location of the ActiveImage Protector installer program as shown in Fig. 2.1.

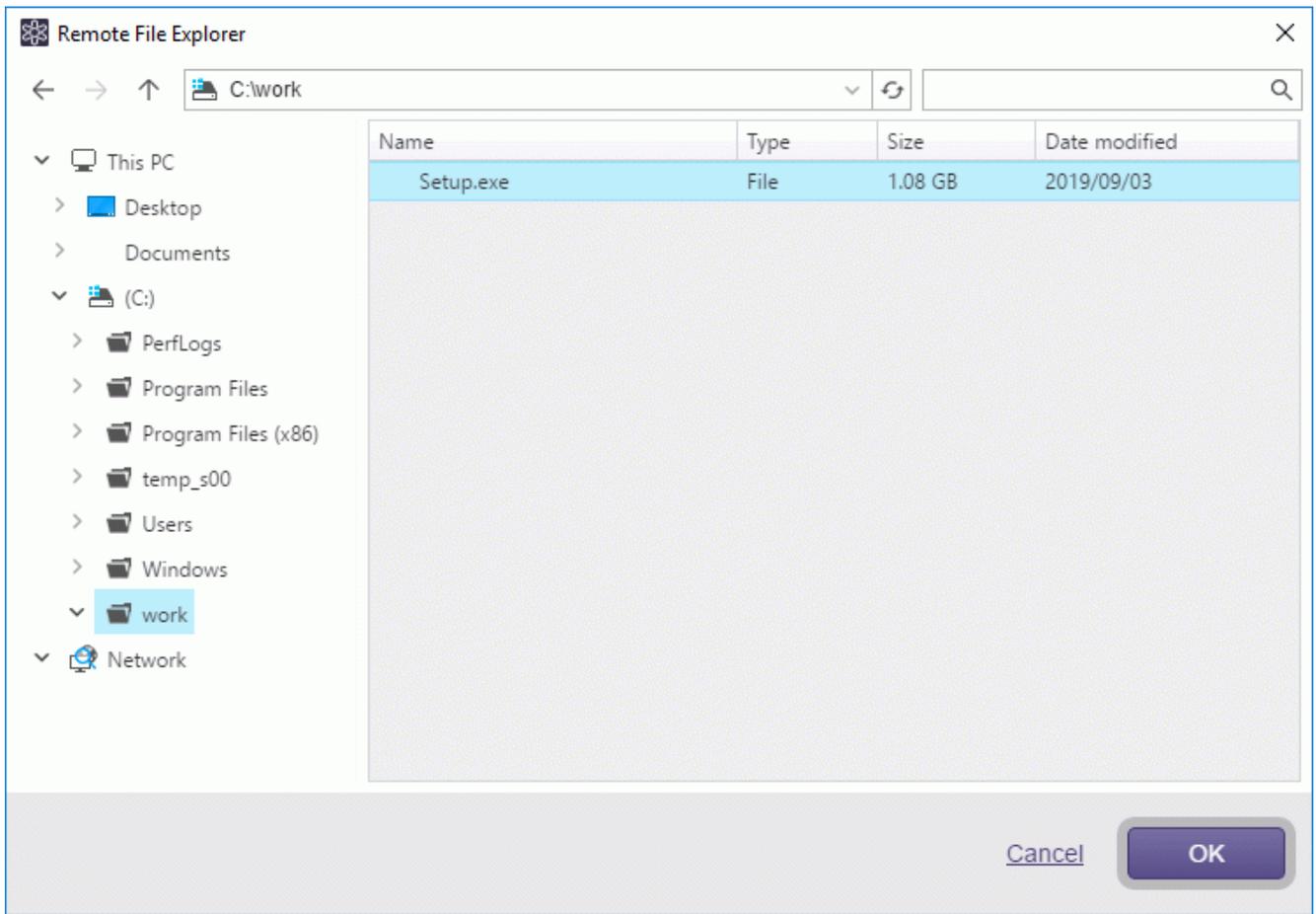


Fig. 2.8 Specify the location of ActiveImage Protector installer program

[Setup] is added to the pull-down menu for selection for the next Push Install to be performed.

In the same manner, click [▼] to the right of [Select Product Key] and select the product key added in Fig. 2.4. Select [Add new] to add a new product key (Fig. 2.3).

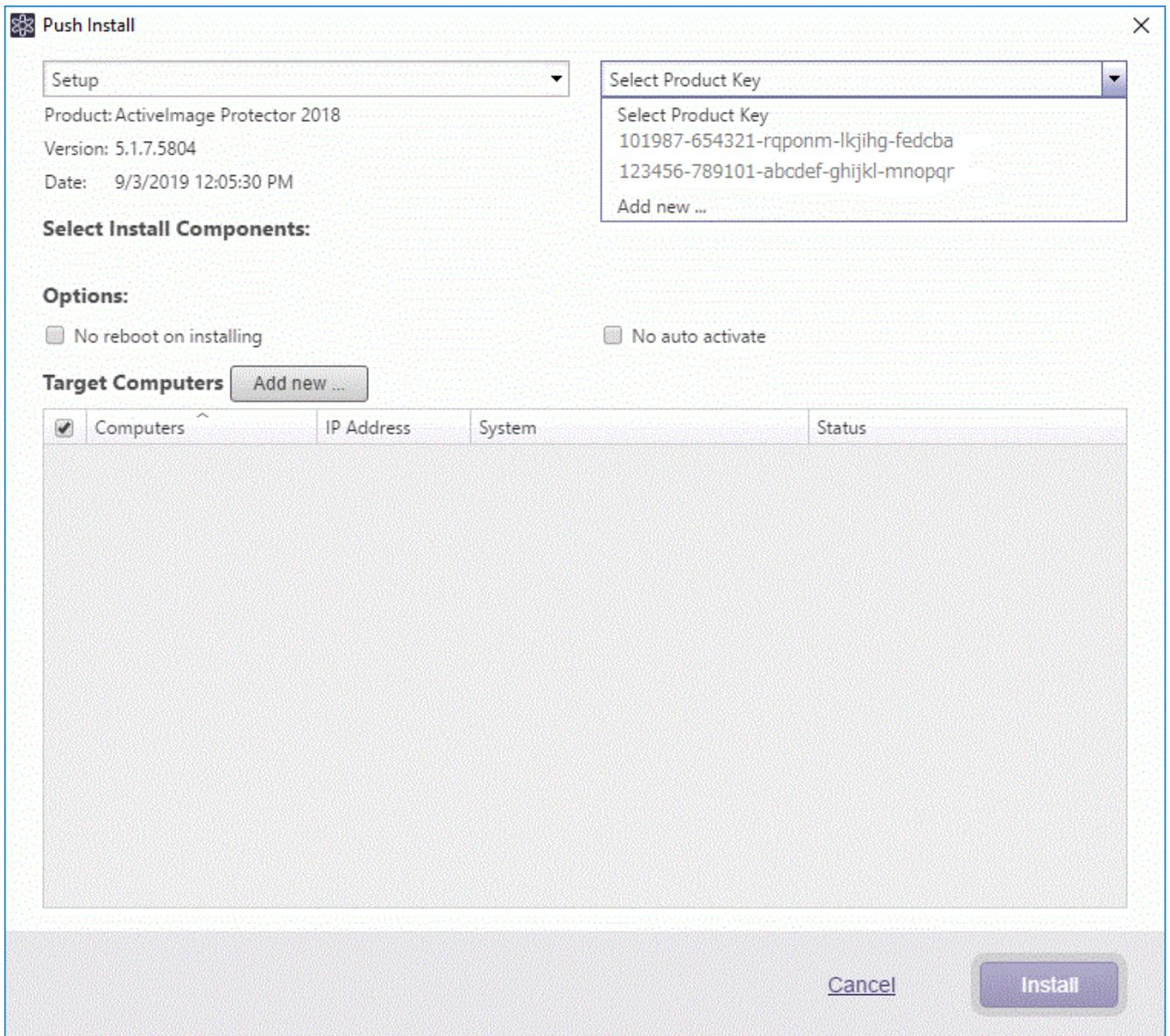


Fig. 2.9 Select Product Key

The settings for Push Install are configured as described.

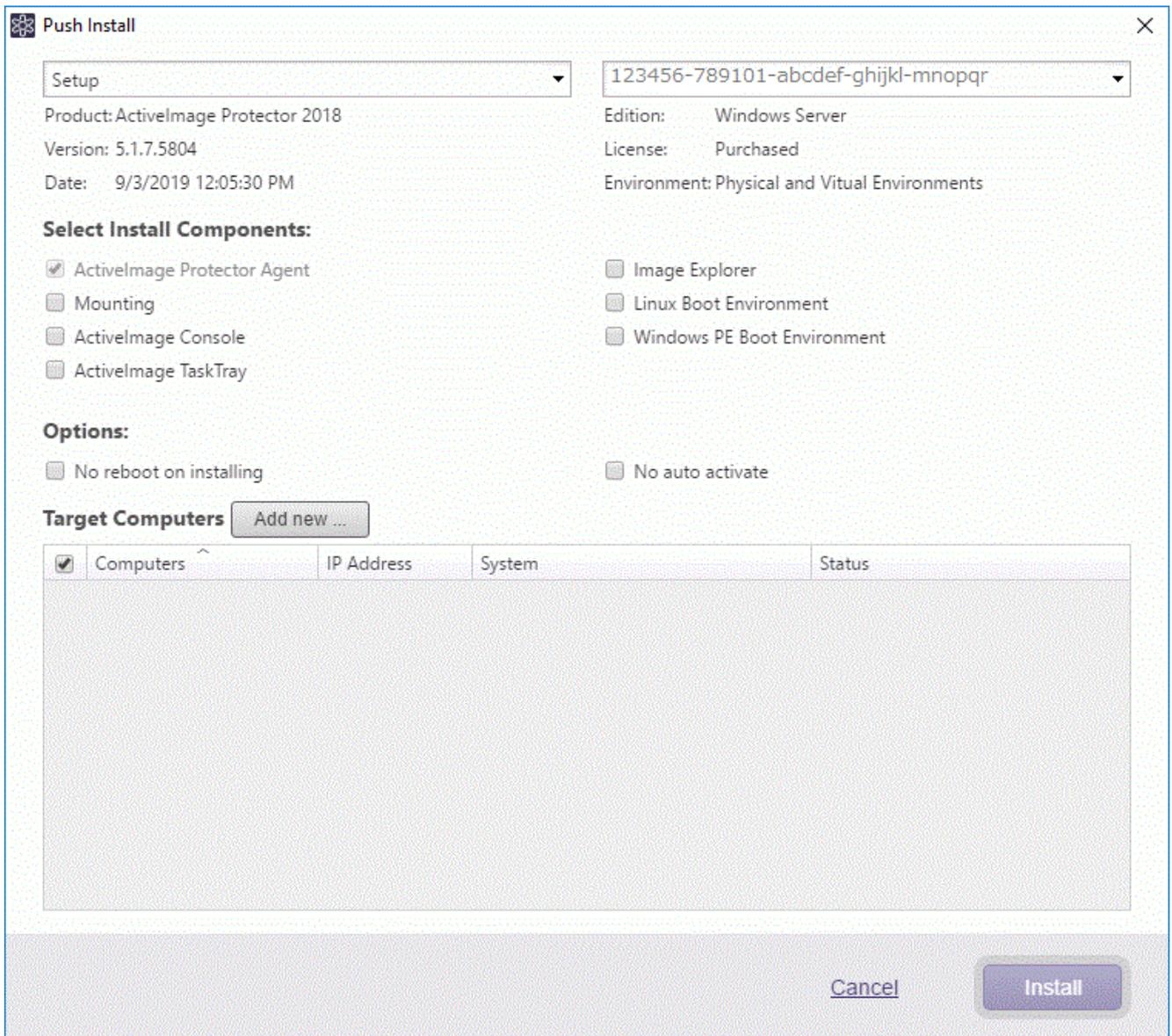


Fig. 2.10 Push Install Settings

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

Specify the destination for the Push Install. Click [Add New] to the right of [Target Computers] as shown in Fig. 2.10. The managed clients are listed.

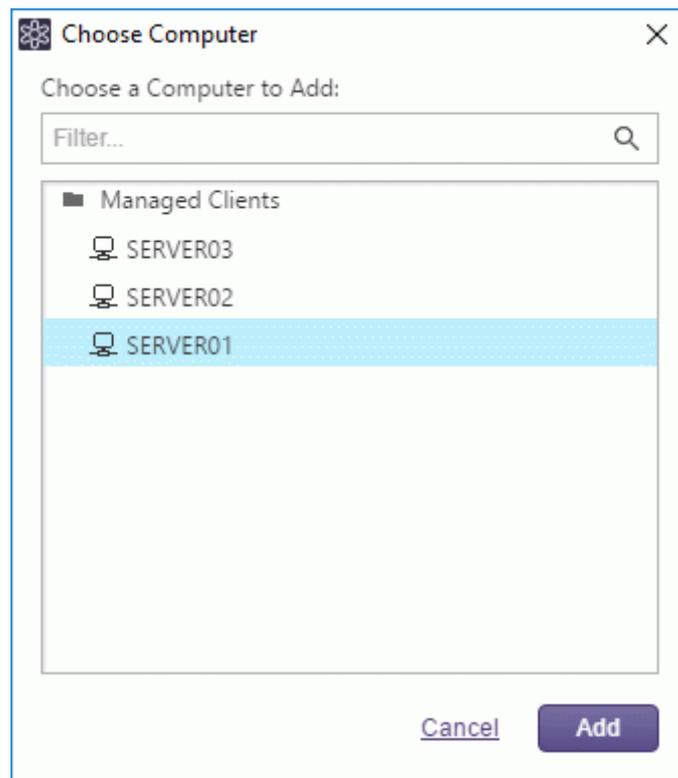


Fig. 2.11 Managed Client List

Select a client and click [Add].

The target client for the Push Install is indicated as shown in Fig. 2.12.

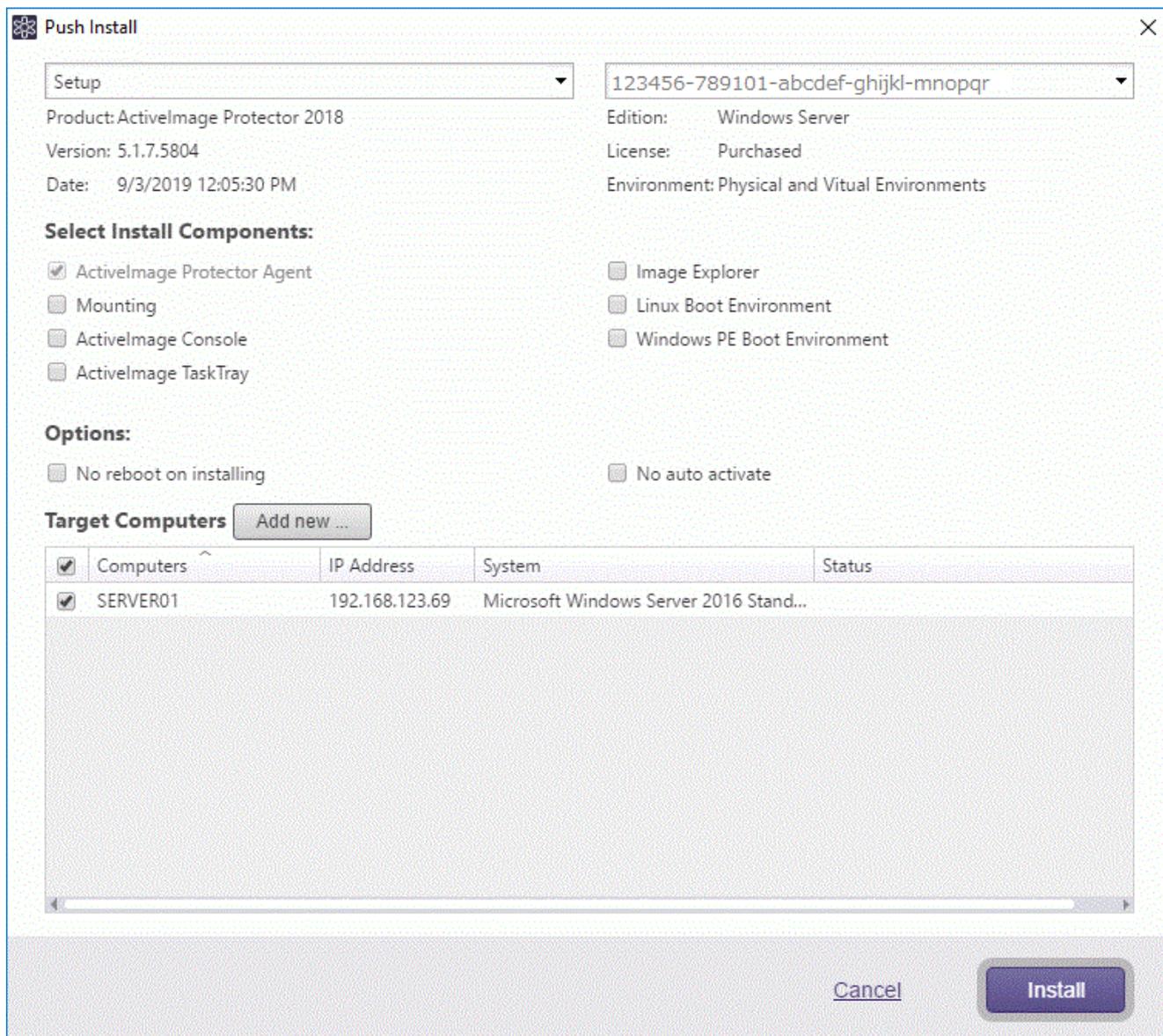


Fig. 2.12 Add target clients for Push Install

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

Click [Install] as shown in Fig. 2.12, and the following dialog confirming restart of the target clients' system upon completion of installation is displayed.

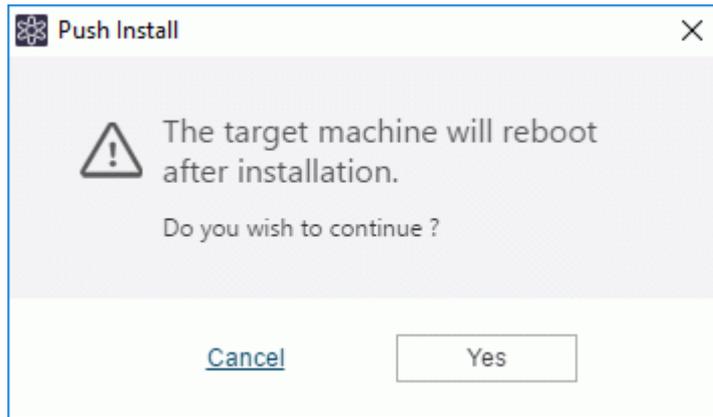


Fig. 2.13 Confirming restart of the target machine

Click [Yes].

Push Install starts.

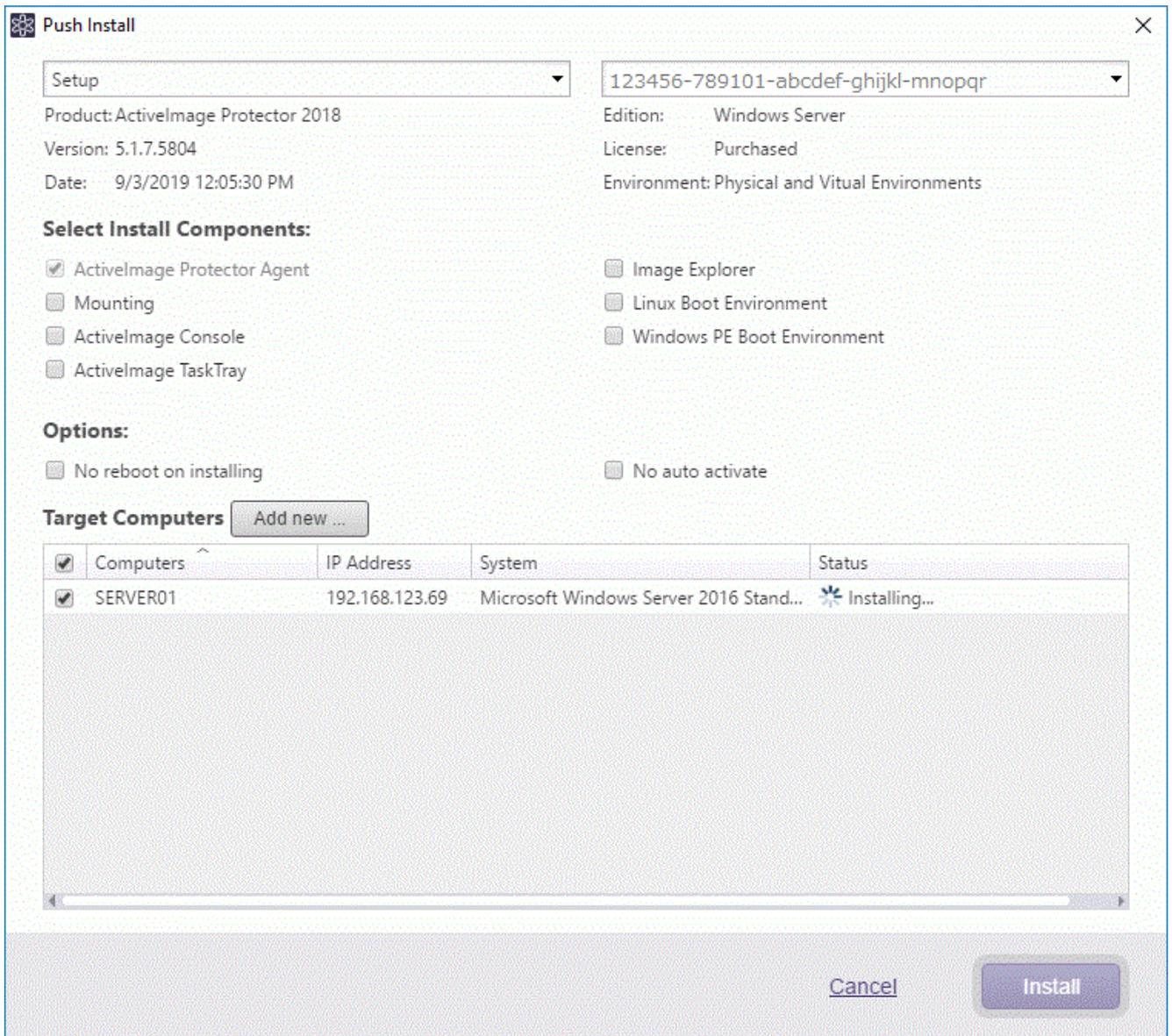


Fig. 2.14 Push Install in progress

After the Push Install completes, the target system restarts.

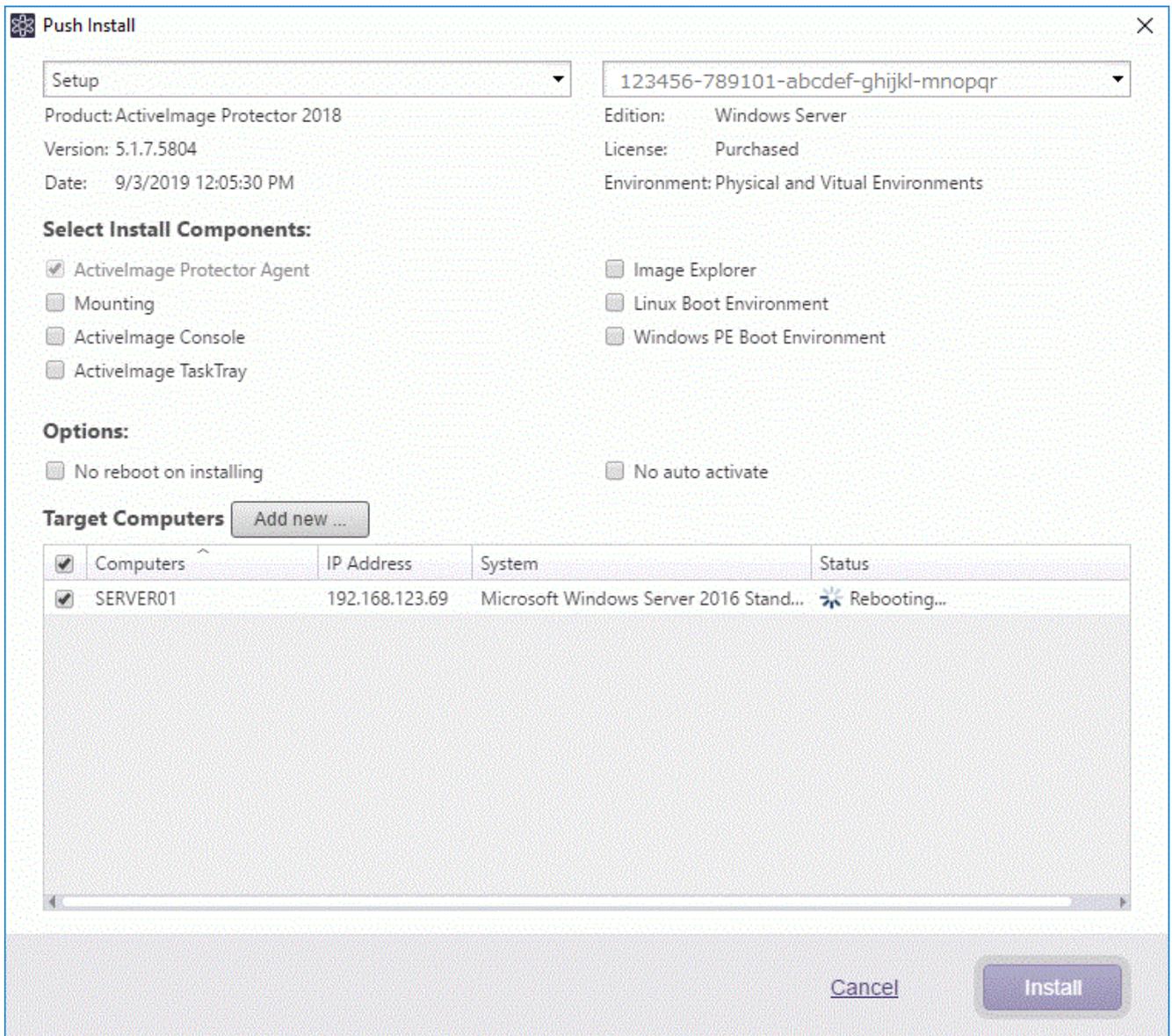


Fig. 2.15 Restarting the system

Push Install completed as shown in Fig. 2.16.

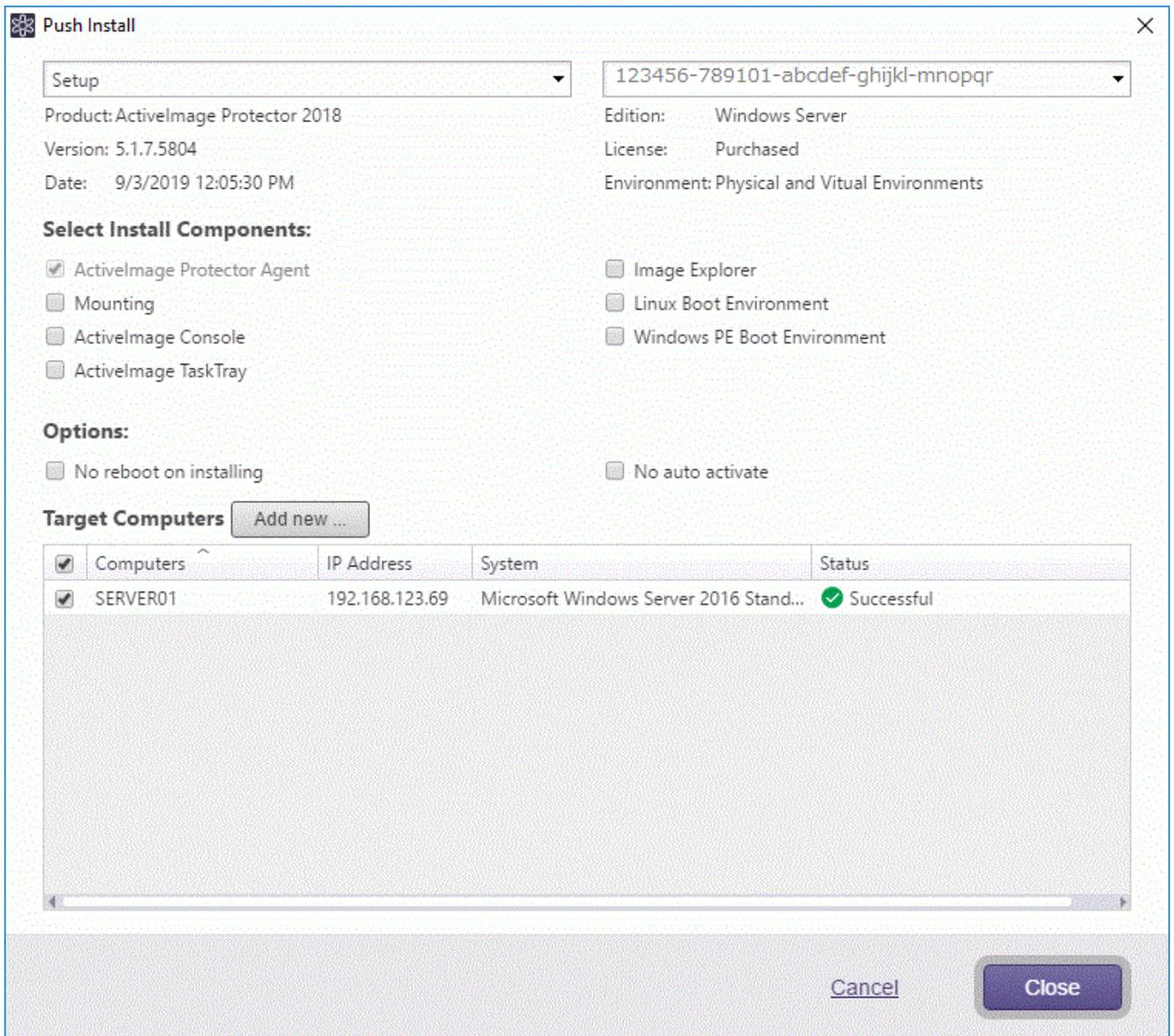


Fig. 2.16 Push Install completed

Click [Close] to close the dialog.

Make sure that Activelmage Protector is installed on the target clients as shown in Fig. 2.17.

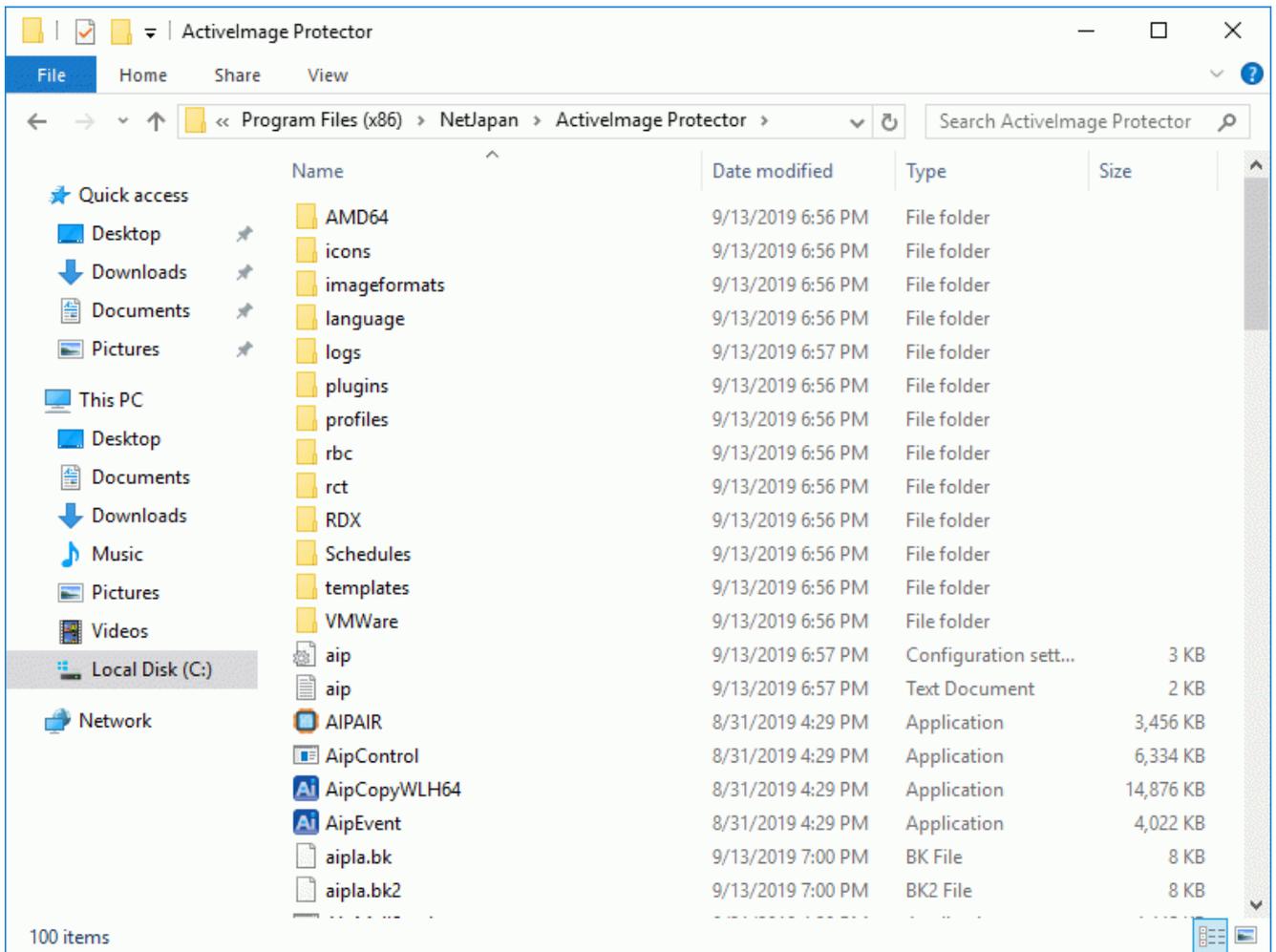


Fig. 2.17 Activelmage Protector installed on clients

If the Push Install failed, please confirm that the client firewall setting is configured to allow access, managing, and sharing the clients.

When the Push Install successfully completed, ActiveImage Protector agent and its version are indicated for the managed clients listed in [Agent-based] tab and the icon indicated at the left end turns green.

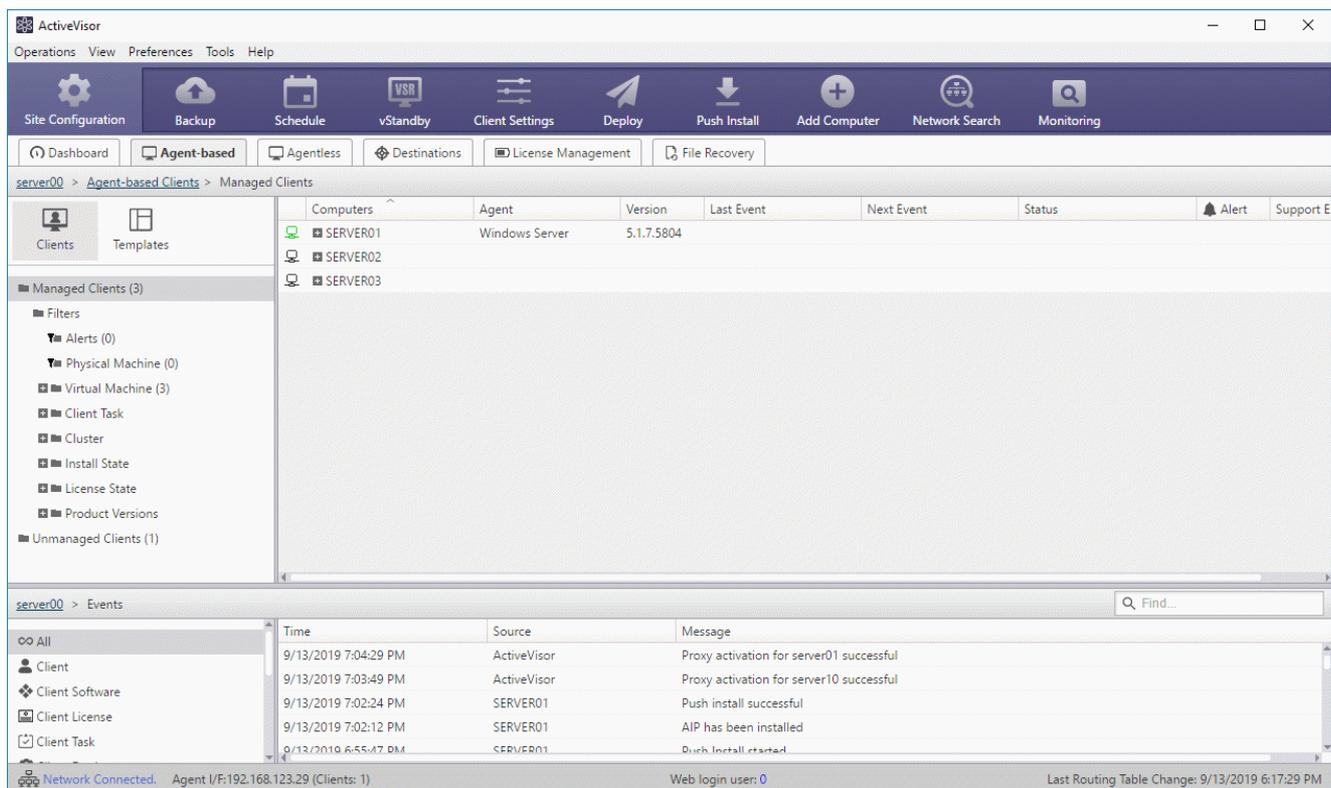


Fig. 2.18 Push Install completed on the client

When the Push Install completed on every managed client, the green icons are indicated for the entire client machines as shown in Fig. 2.19.

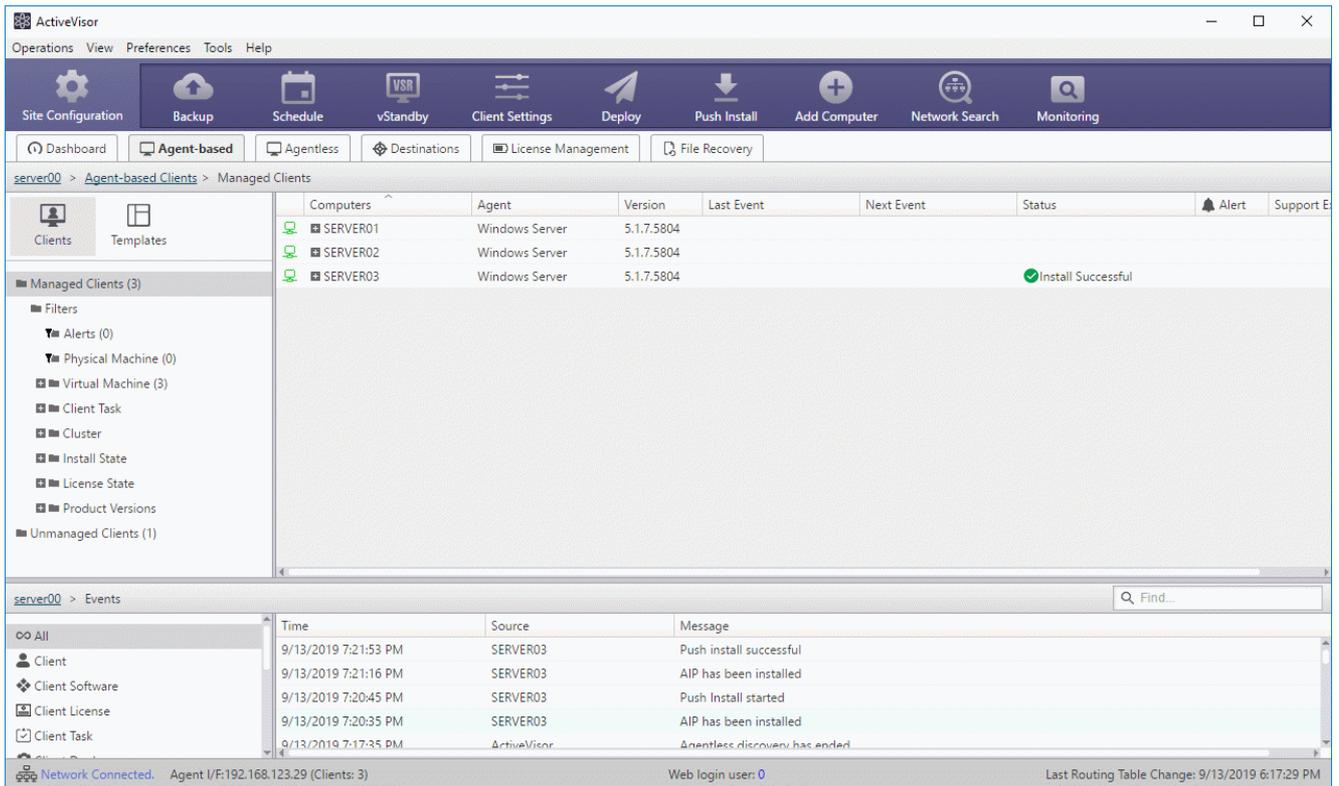


Fig. 2.19 Push Install completed on every managed client

## 2.3 Operate ActiveVisor via Web browser

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

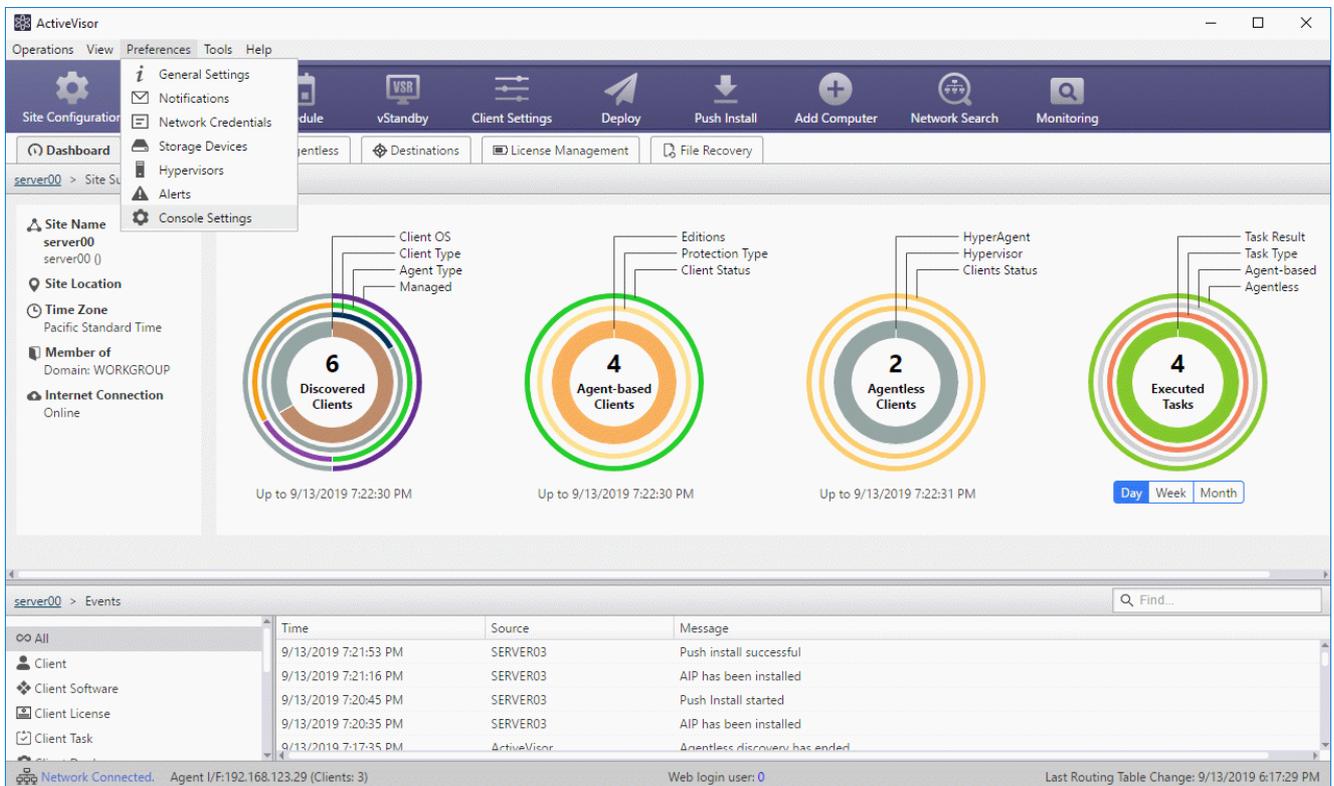


Fig. 2.20 [Preferences] menu

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

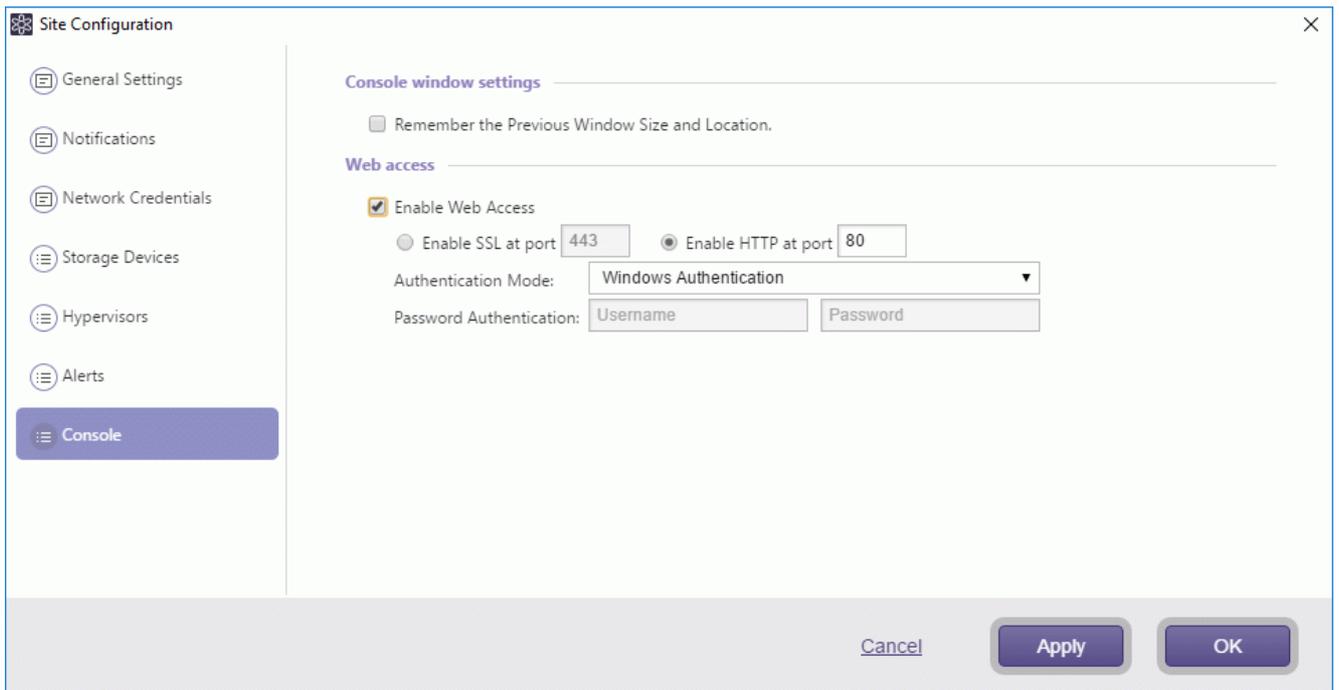


Fig. 2.21 [Console window settings]

Please click the checkbox to [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 Google Chrome is installed, enter the IP address of the client machine on which ActiveVisor is installed.

The following [Login] window appears.

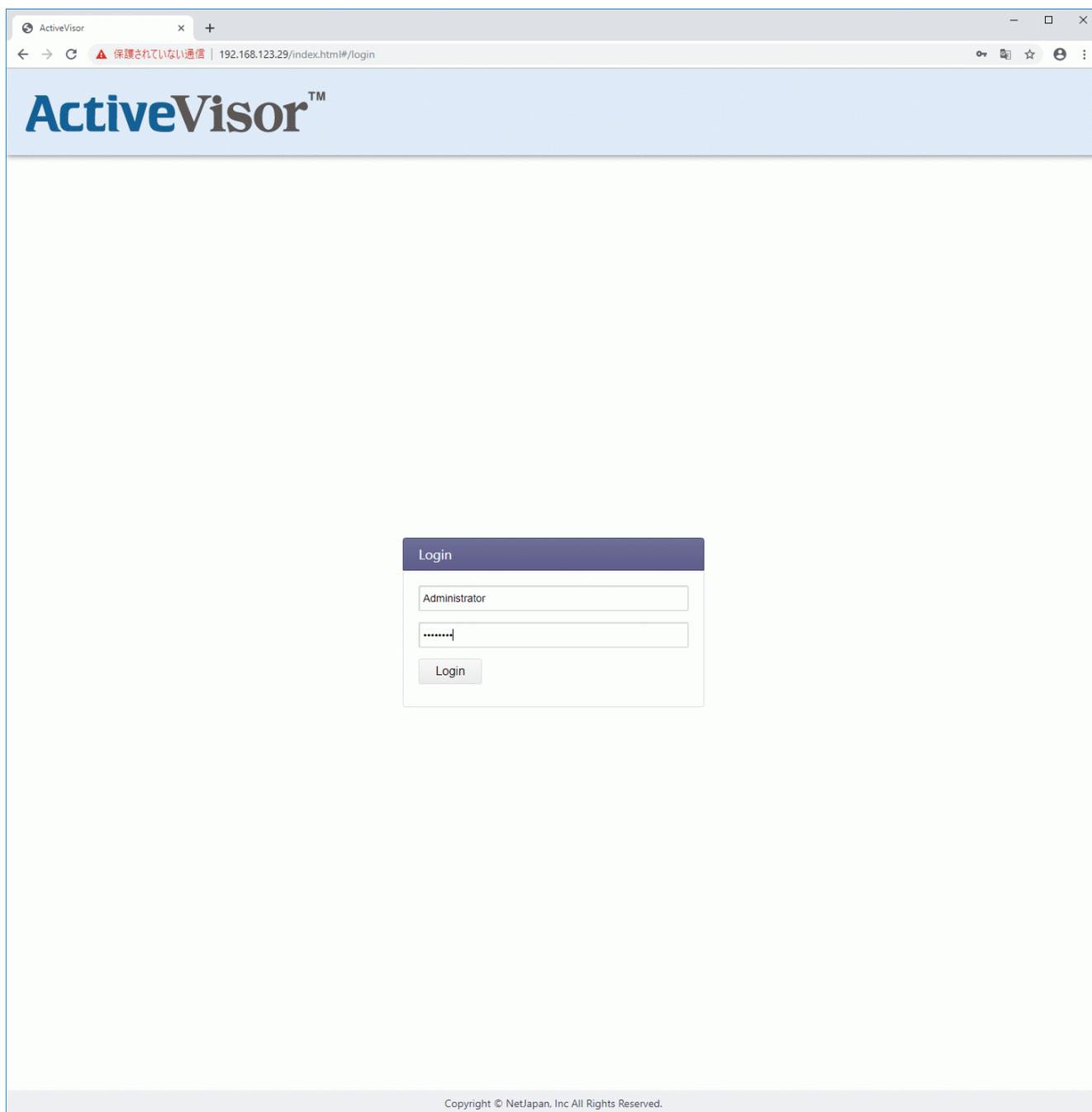


Fig. 2.22 [Login] dialog

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

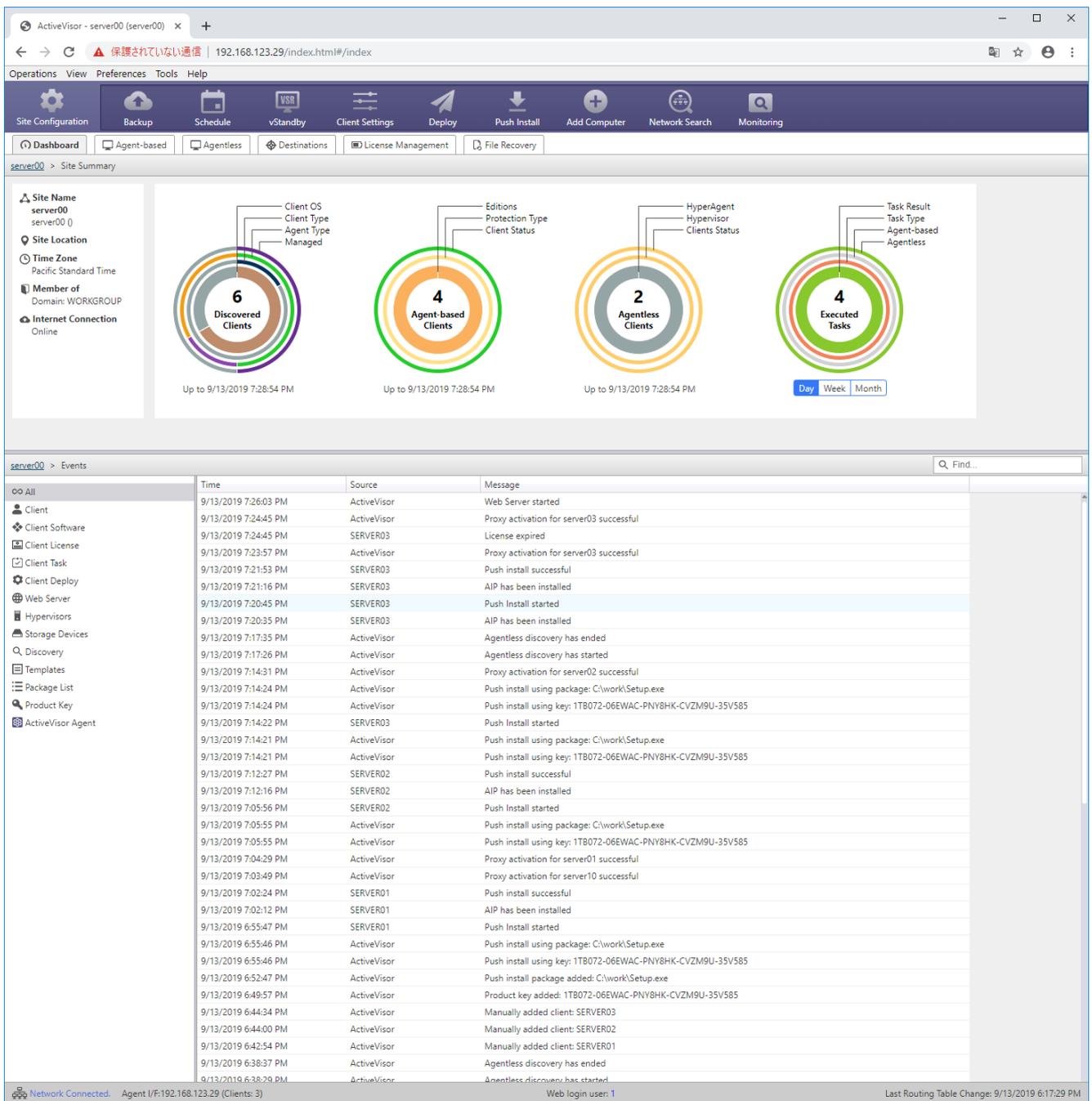


Fig. 2.23 ActiveVisor’s browser console

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].

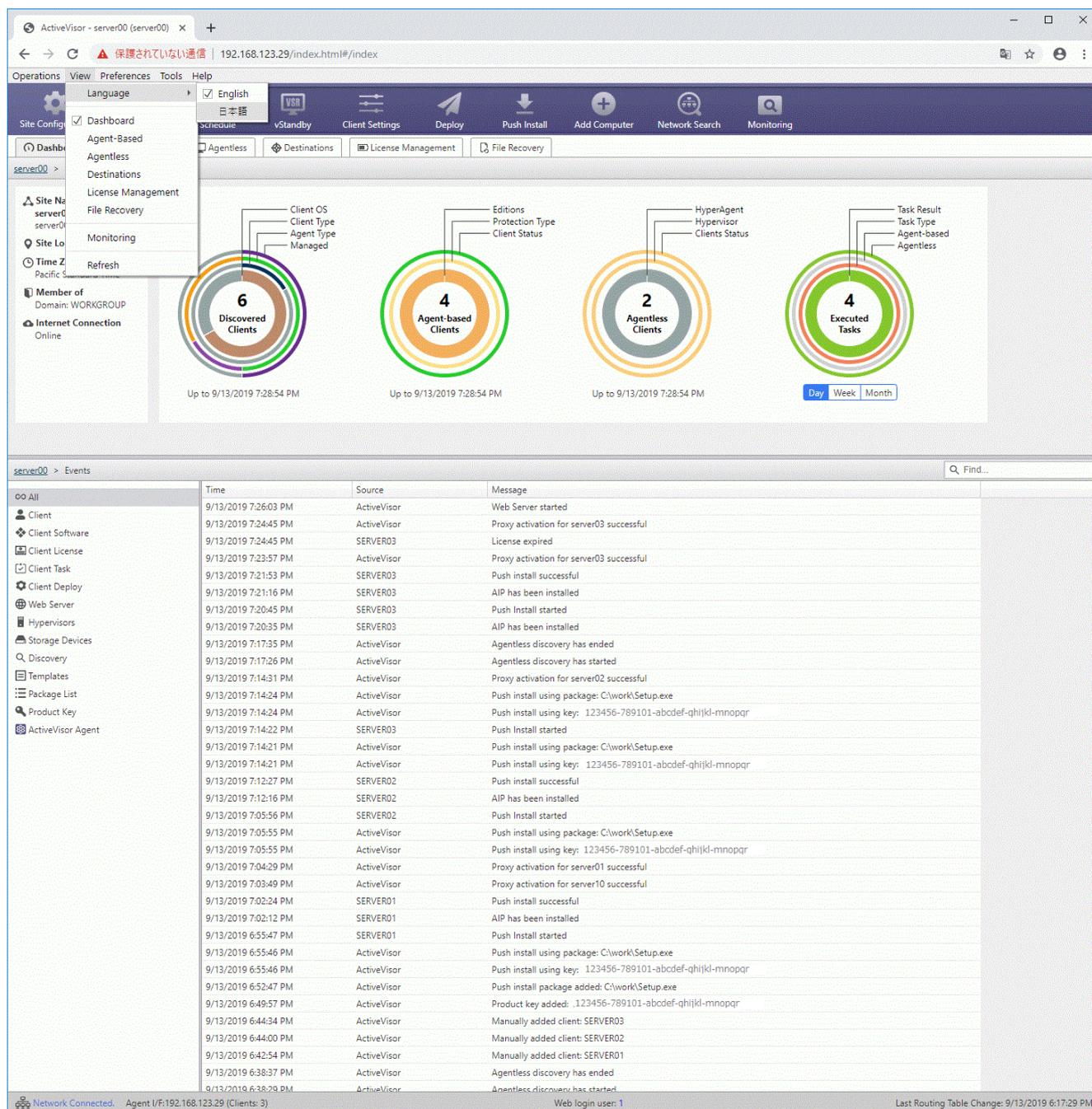


Fig. 2.24 Switch the console text from Japanese to English

The same message appears on ActiveVisor's console on the host.

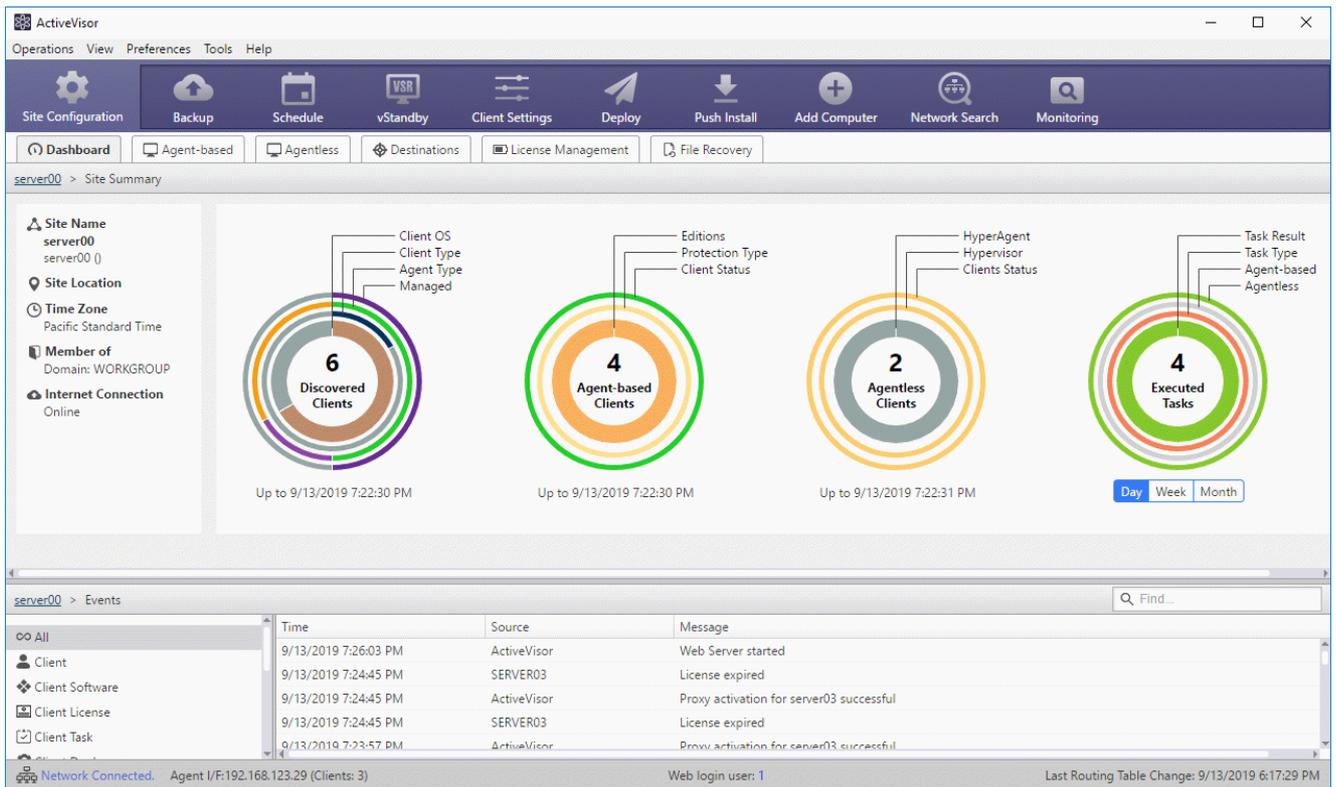


Fig. 2.25 ActiveVisor's Console window

The new browser based console provides System Administrators with more flexibility to manage client machines from any location.

# 3. Create and Deploy Backup Tasks

This chapter provides the procedures to create backup tasks for agent-based clients 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 for flexible schedule settings. Using ActiveVisor, follow the procedures below to create and deploy schedule settings to target agent-based clients.

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

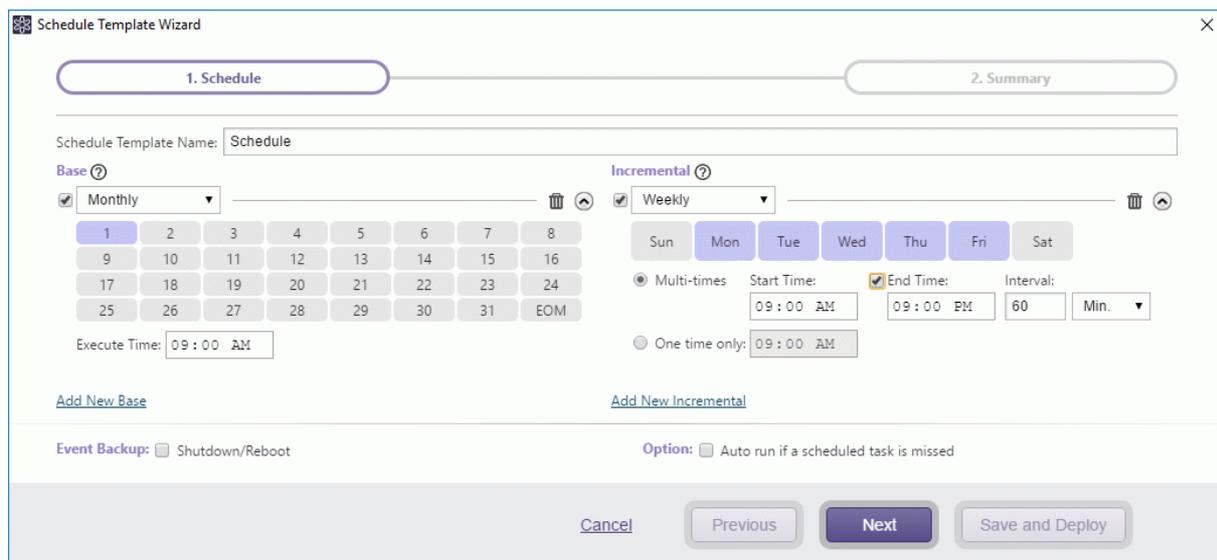


Fig. 3.1 Schedule Template Wizard

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. 3.1 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].

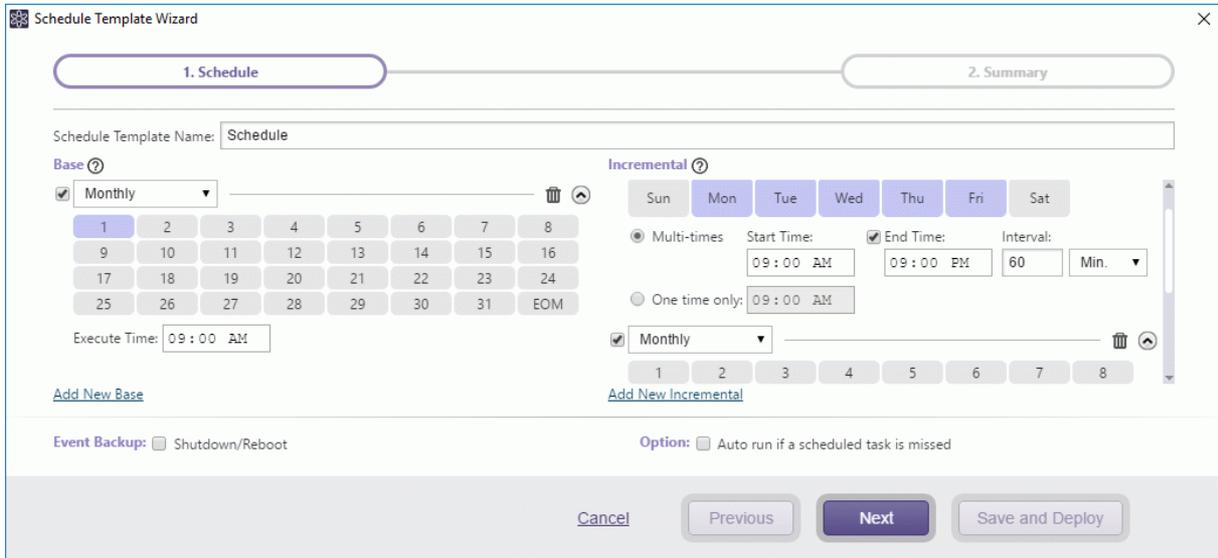


Fig. 3.2 Add Backup Schedule

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, ActiveVisor provides more flexible schedule options, 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.

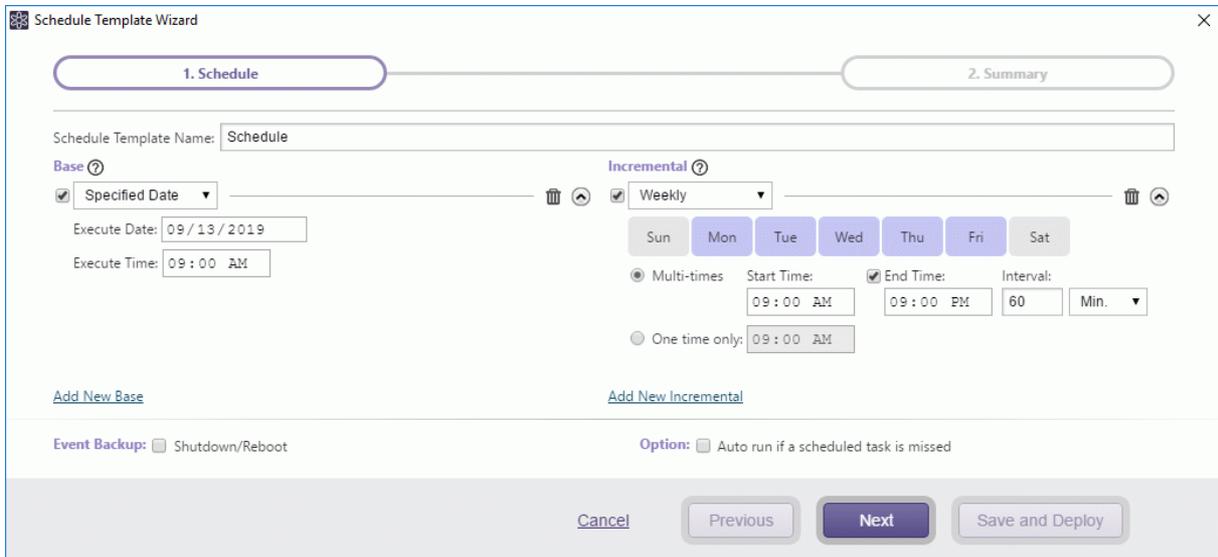


Fig. 3.3 [Specified Date]

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

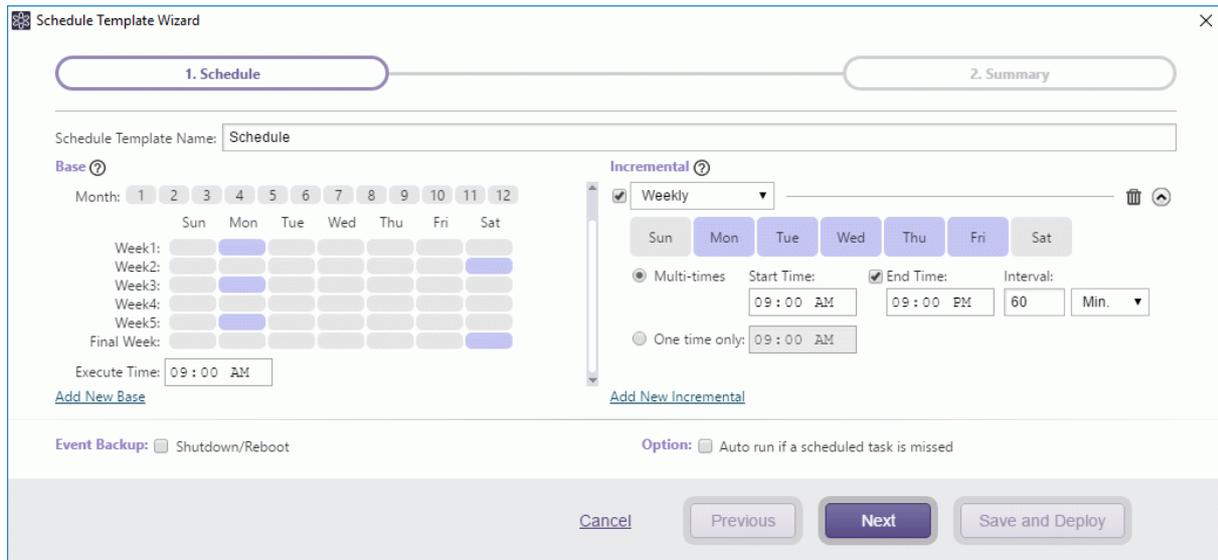


Fig. 3.4 [Designate Specific Days] Schedule Option

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.

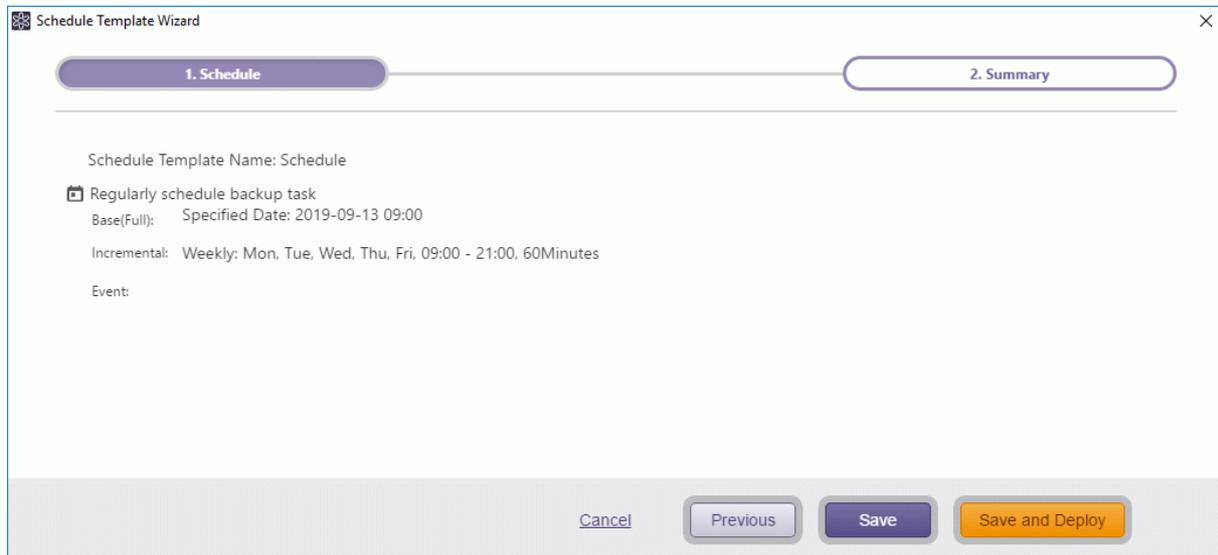


Fig. 3.5 Summary

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 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 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.

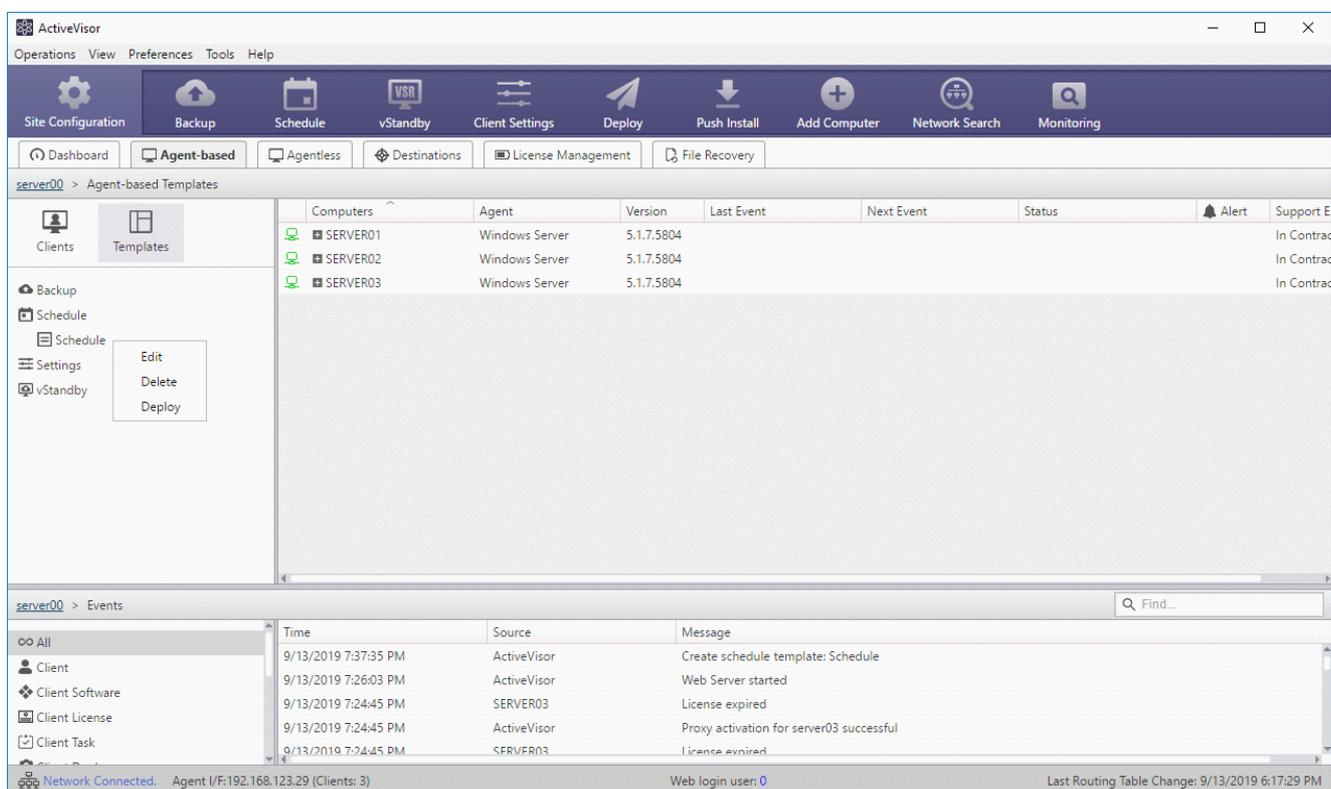


Fig. 3.6 [Templates] provides monitoring of scheduled backup tasks

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 and [Create Backup Task Template].

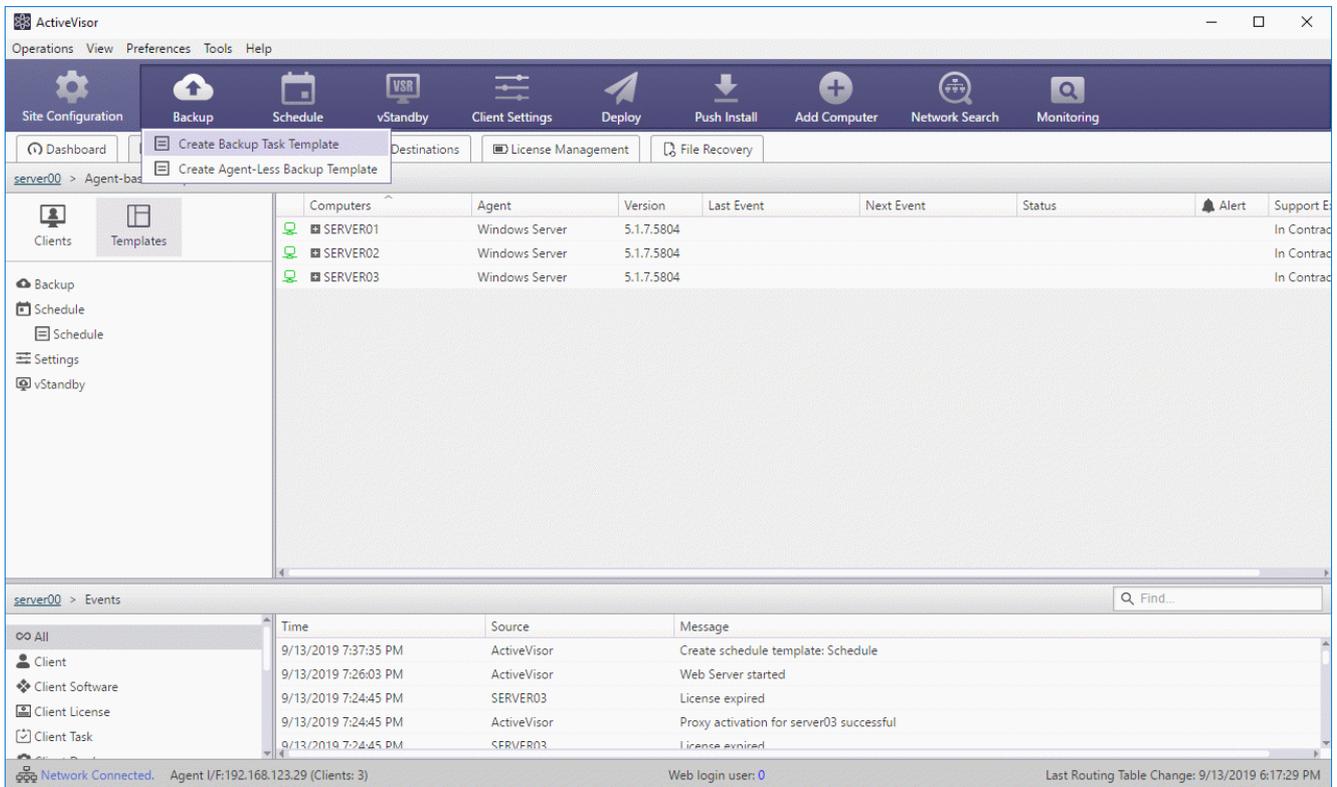


Fig. 3.7 Select [Create Backup Task Template]

Agent-based Backup Template Wizard is launched.

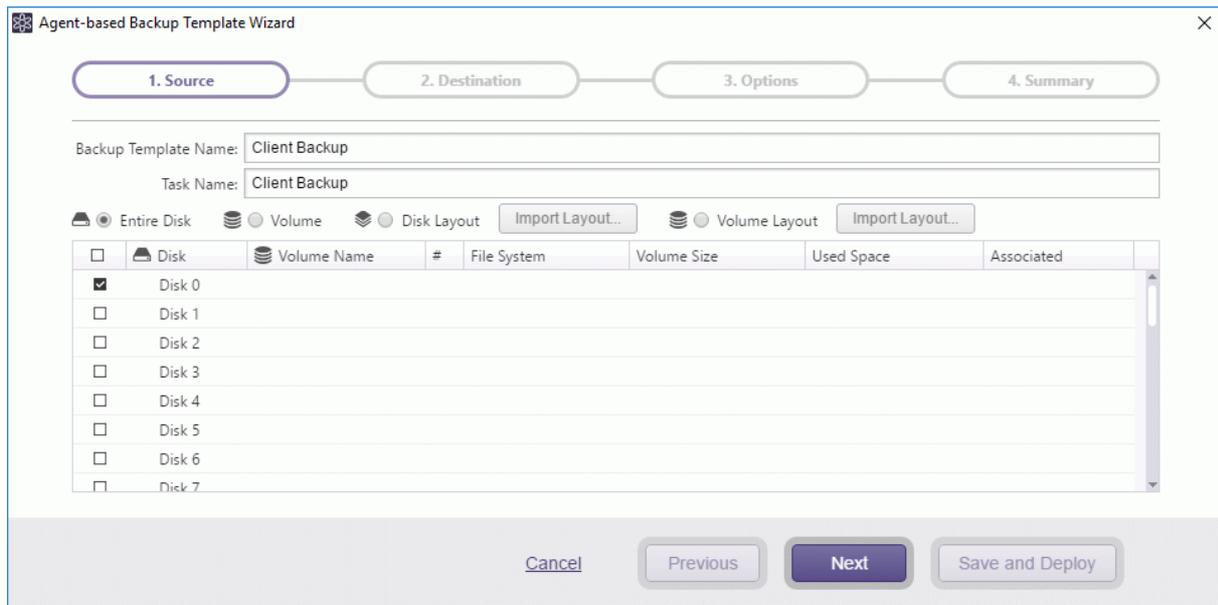


Fig. 3.8 Agent-based Backup Template Wizard

First, you need to register disks. The following example describes how to register “Disk 0” to ActiveVisor. By default, ActiveVisor can register up to 31 disks maximum. You can register different destinations for the respective backup schedules. 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 separate 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.

You can also specify a volume layout for the backup source.

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

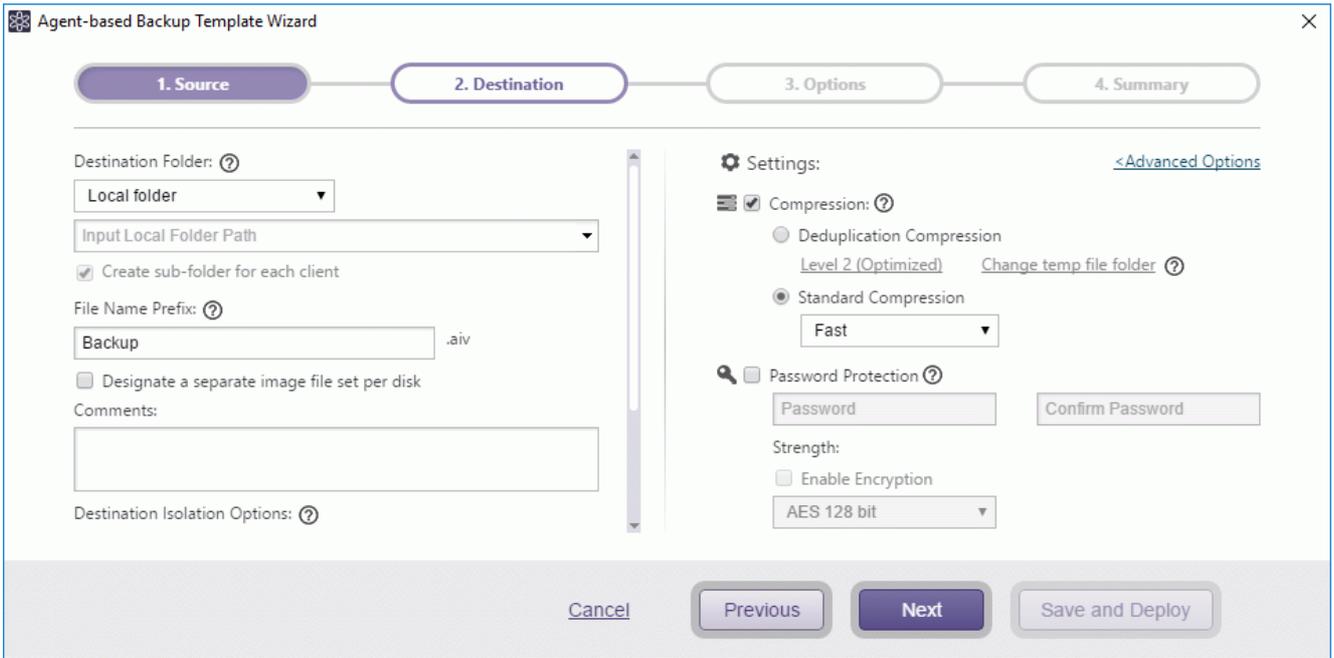


Fig. 3.9 Destination Setting

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].

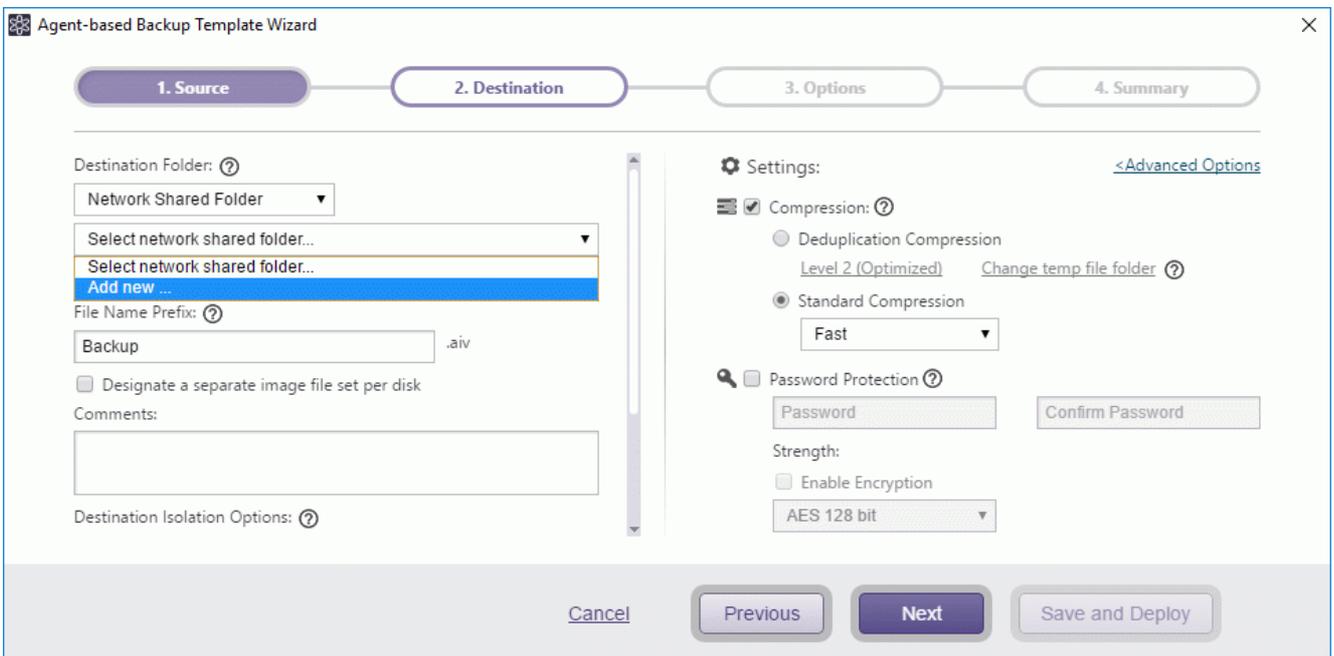


Fig. 3.10 Select [Network shared folder]

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

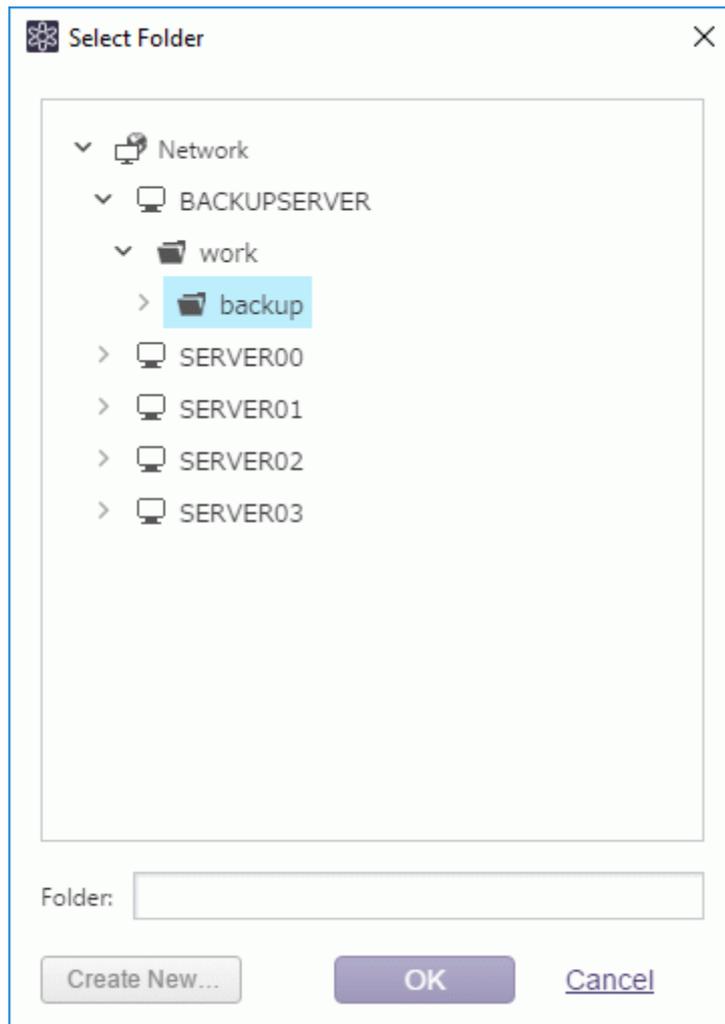


Fig. 3.11 Select Folder

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

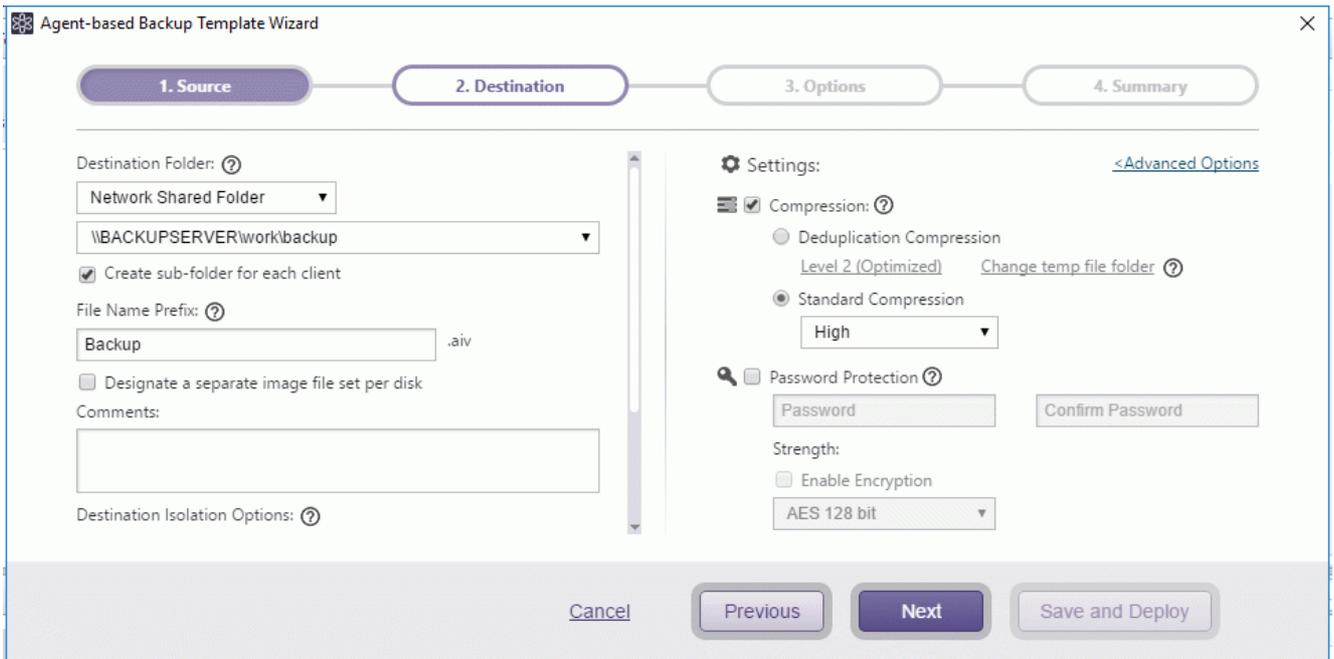


Fig. 3.12 Example of the destination setting

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.

You can configure the option settings in [Settings] for ActiveImage Protector backup tasks. The backup options include features to improve Compression, set Password Protection, and to designate a level of Encryption for the backup image file.

Enabling the Compression option reduces storage requirements by further compacting the backup image files. Begin by checking the [Compression] box then, select the desired type of compression; Deduplication Compression or Standard Compression. There are three levels of Deduplication Compression to choose from. To set the highest level of compression, select level 1. If using Standard Compression, the two options are Fast and High. If [High] is selected, the result is a smaller backup image but processing time is increased.

Secure the backup image file by assigning a unique password.

Enabling the encryption for the backup image files ensures that the backup files cannot be compromised. There are three levels of encryption to choose from, RC5, AES-128, or AES 256 bit. AES 256 having the strongest encryption.

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. ImagelSolate™ technology protects the backup storage and backup files from potential malware or ransomware attacks.

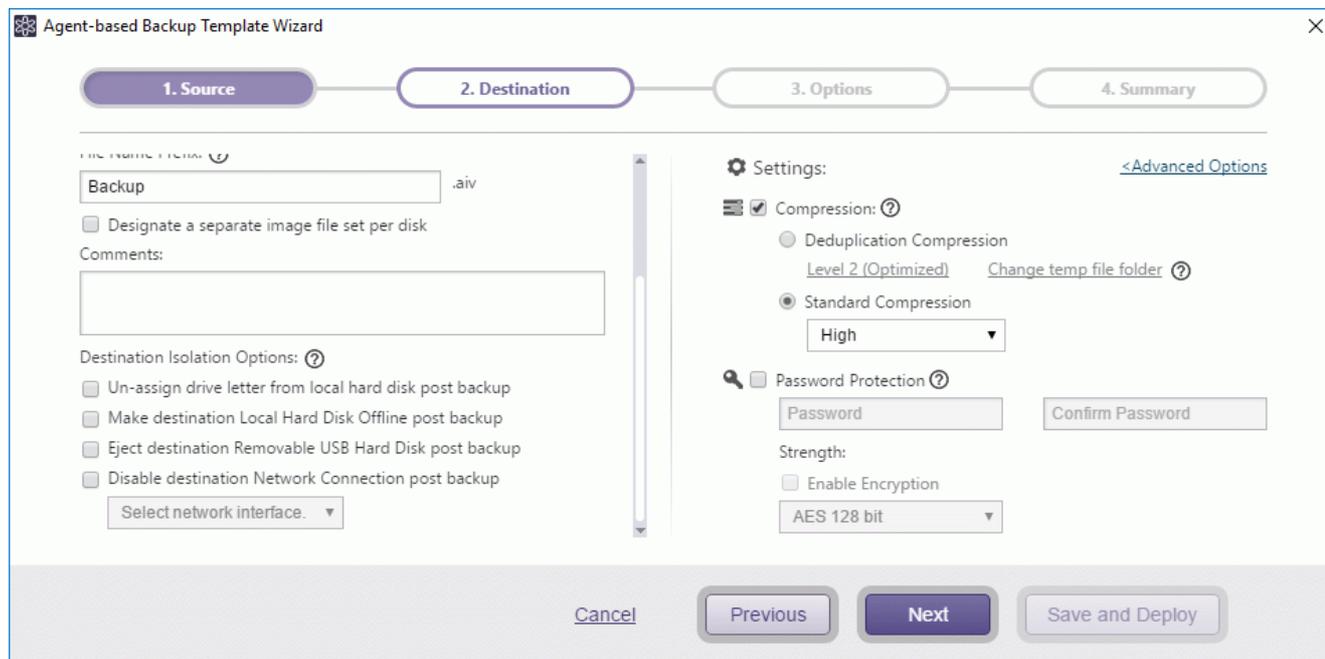


Fig. 3.13 Destination Isolation Options

[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.

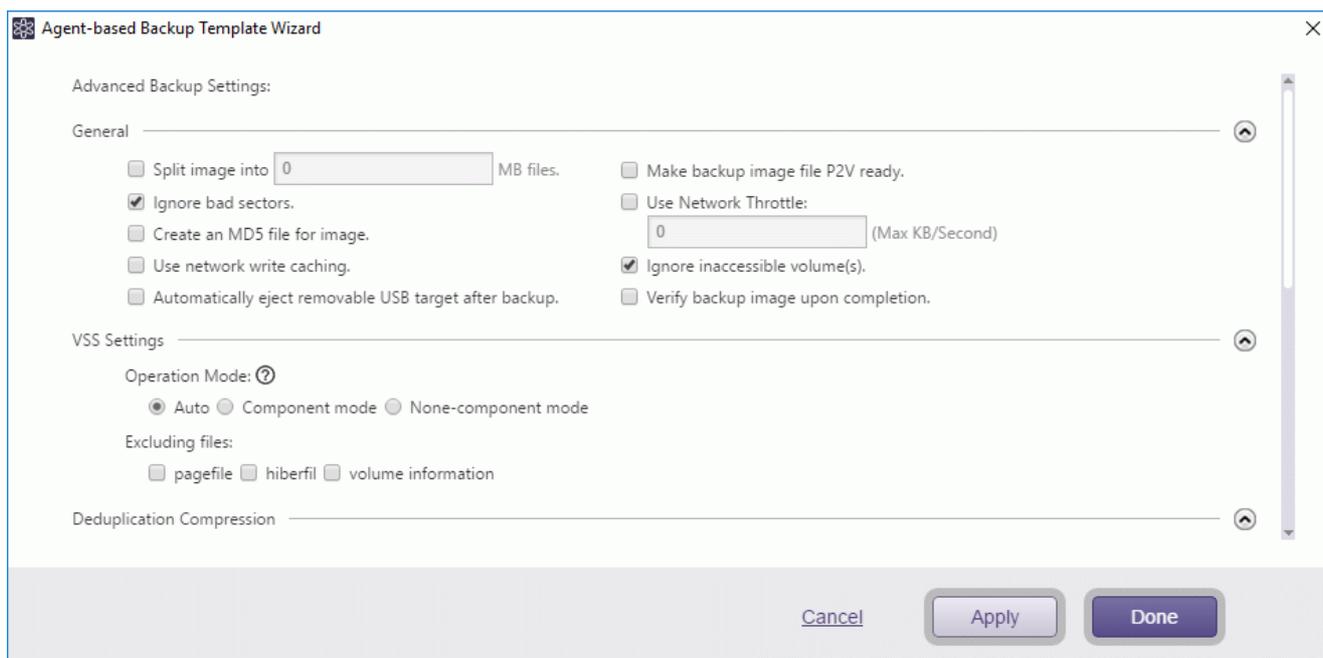


Fig. 3.14 Advanced Backup Settings

[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.
- Ignore inaccessible volume(s)
- Verify backup image upon completion
- Use network throttle
- Use network write caching (when storing image files in network shared folder)
- Automatically eject removable USB target after backup.

There are three advanced 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

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

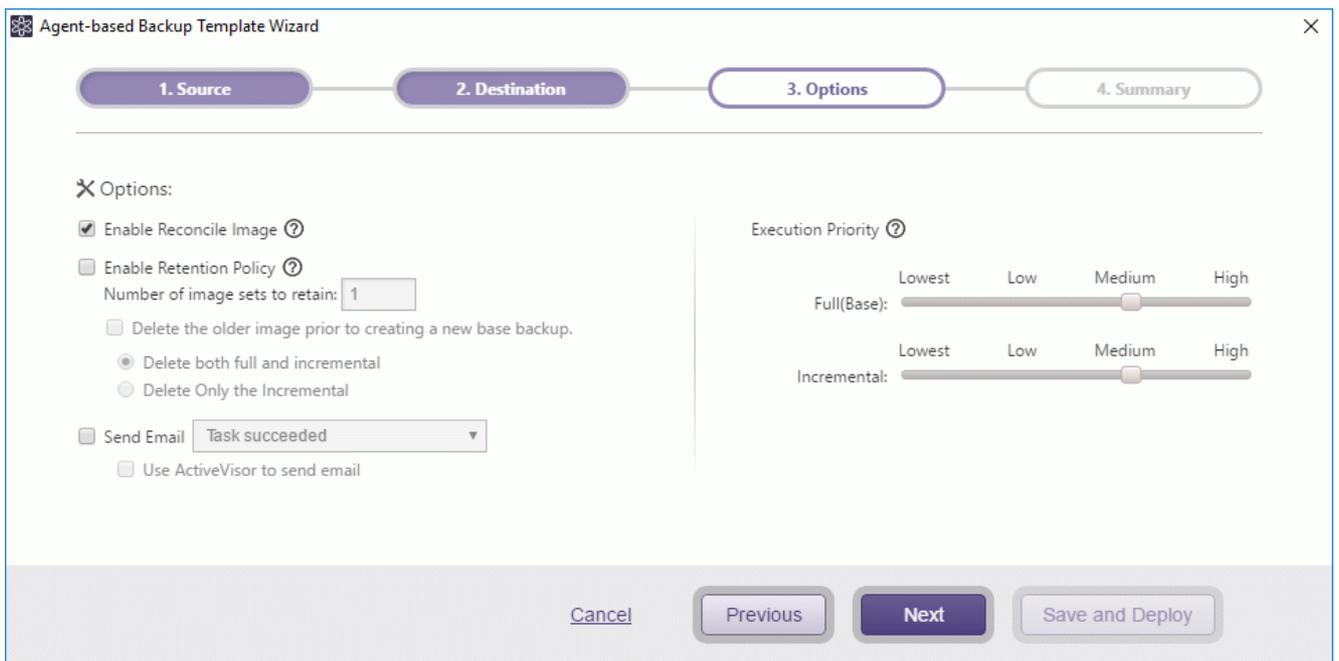


Fig. 3.15 Options

The following options are provided for scheduled backup tasks:

- Enable Reconcile Image
- Enable Retention Policy
- Send email
- Execution Priority

[Enable Reconcile Image]: provides a means to keep continuity in an incremental image set should an incremental file become compromised, is deleted, or corrupted. If this option is disabled and an incremental file in an image set is deleted or corrupted, the subsequent backup task creates a new full base file.

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.

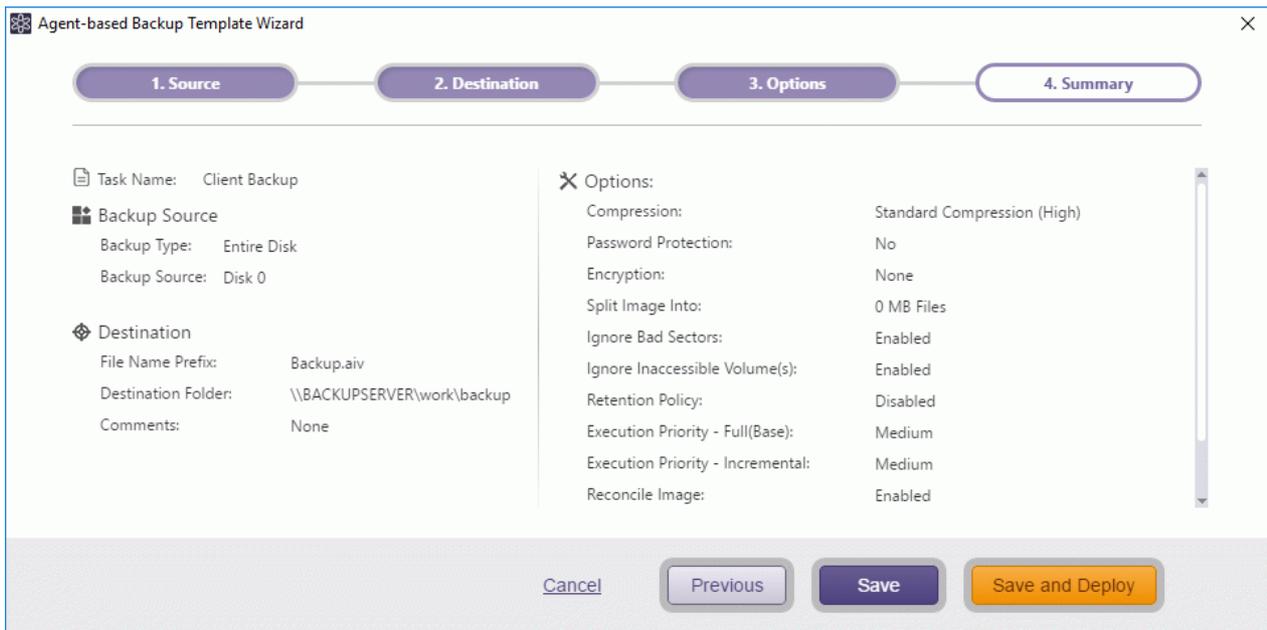


Fig. 3.16 Summary

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.

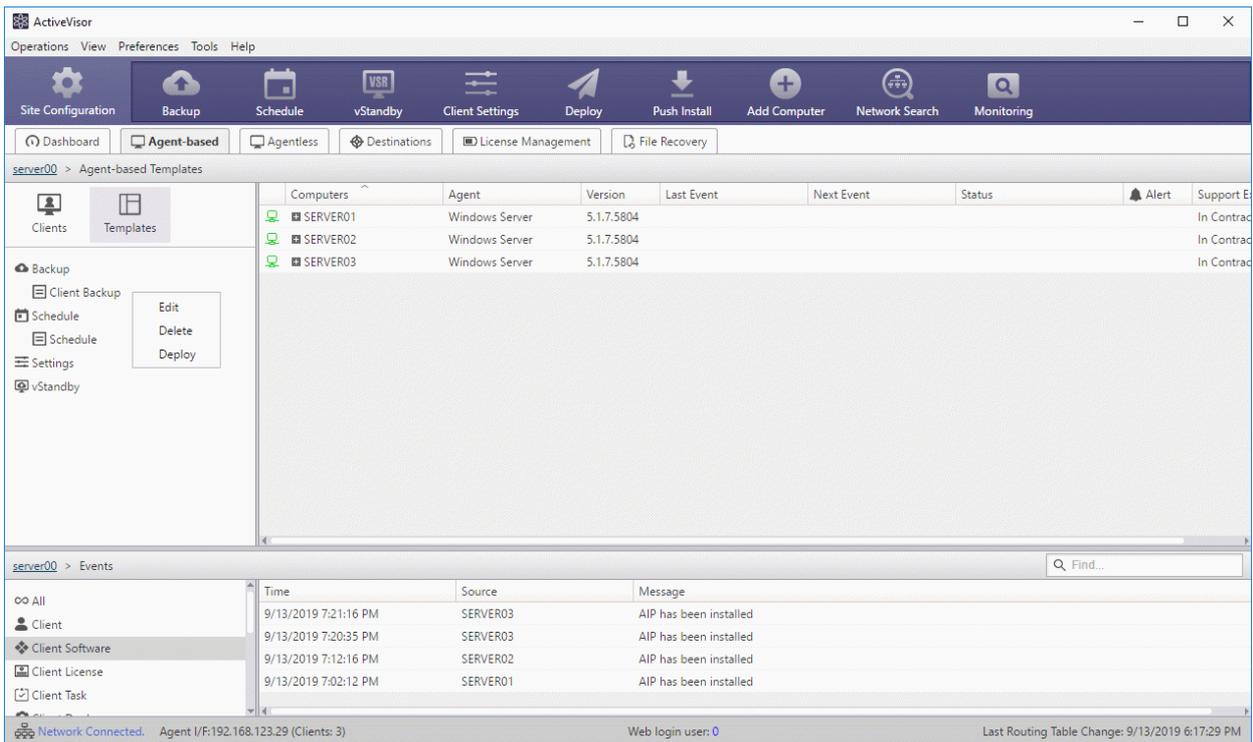


Fig. 3.17 Ensure the backup template is saved in [Template]

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)
- Agentless Backup
- Schedule
- vStandby Task
- Backup Agent Settings
- HyperAgent Settings

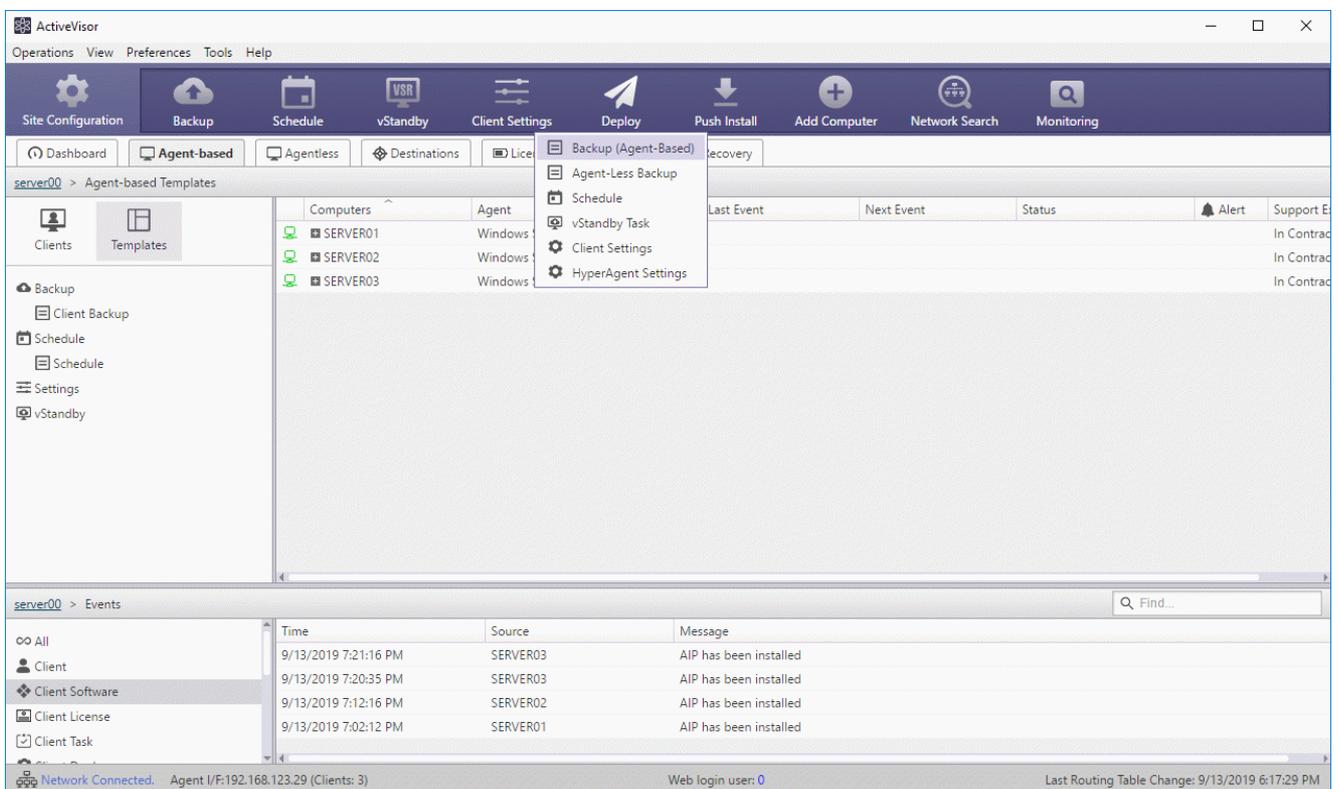


Fig. 3.18 [Deploy] Menu

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

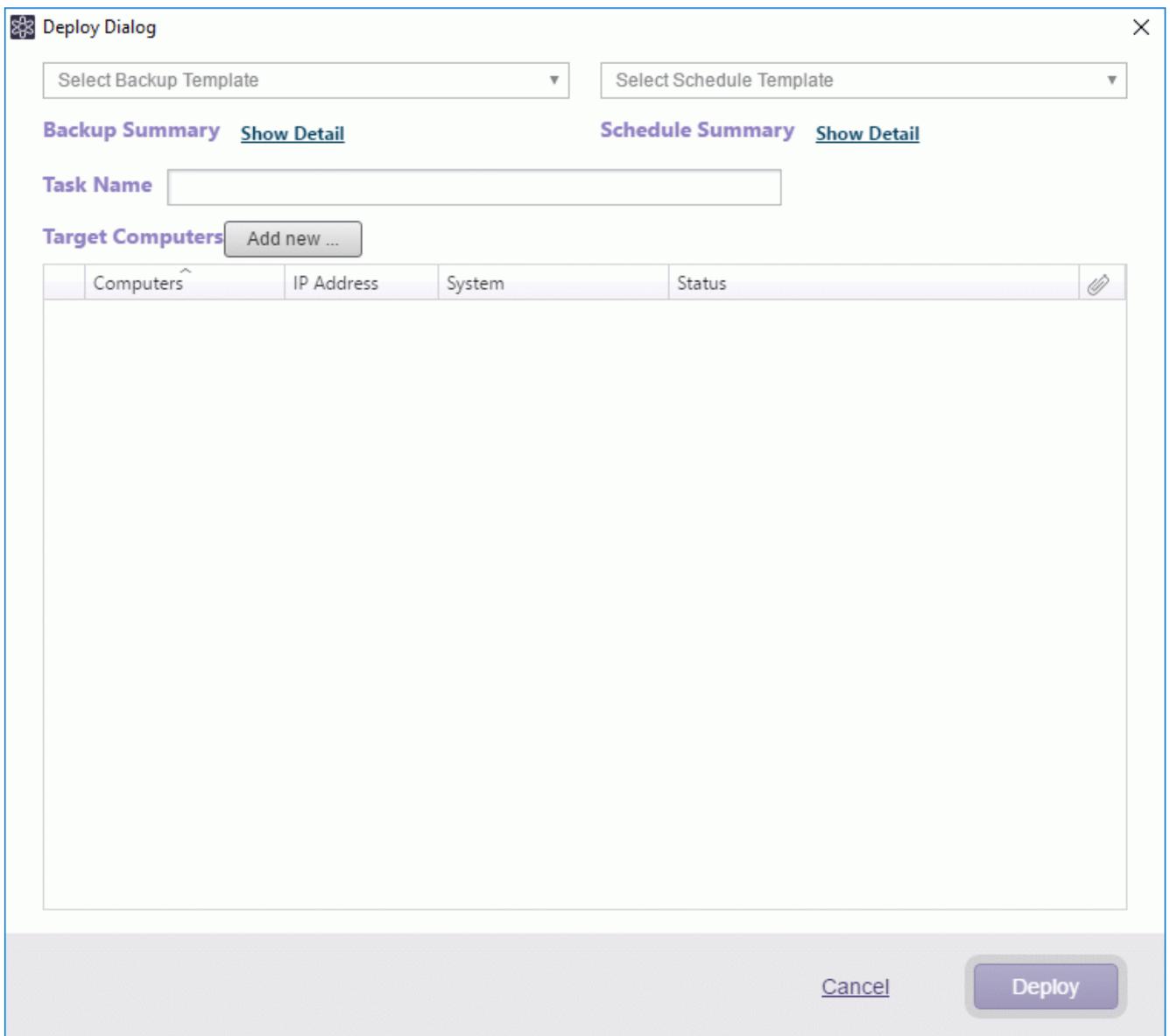


Fig. 3.19 Deploy Dialog

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

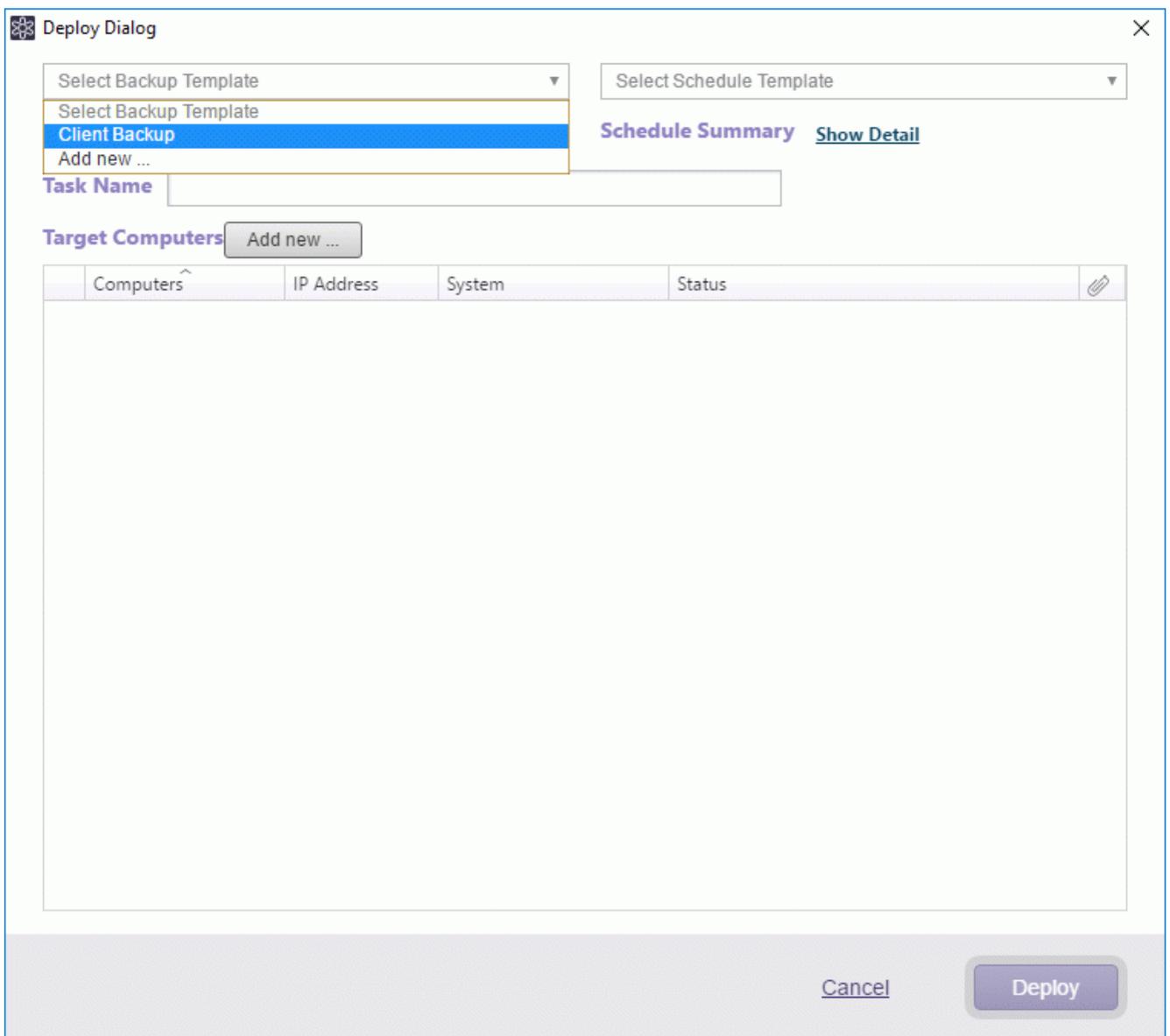


Fig. 3.20 Pull-down menu displayed for [Select Backup Template]

Select [Client Backup] in the pull-down menu.

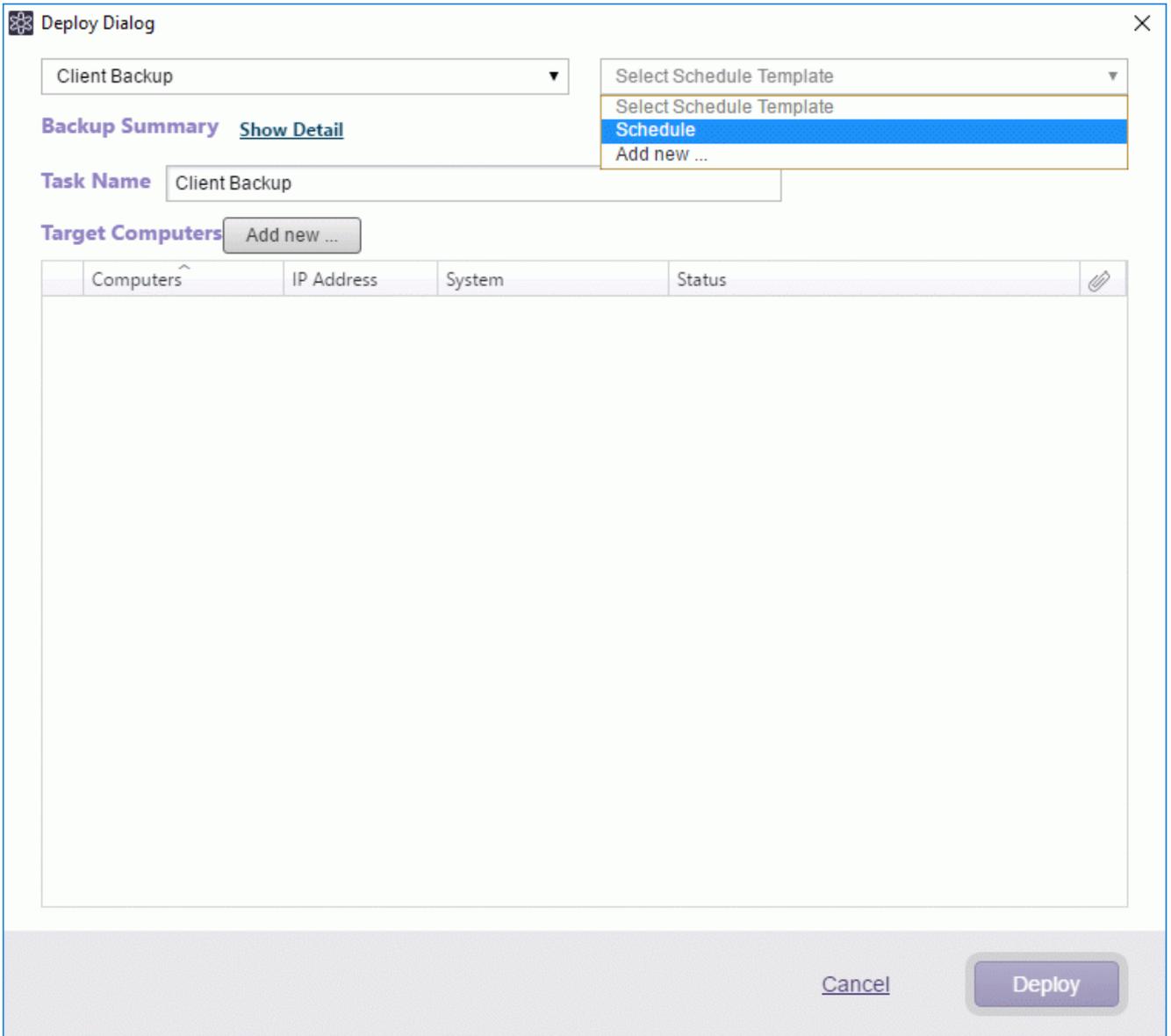


Fig. 3.21 Pull-down menu displayed for [Select Schedule Template]

Select [Schedule] in the pull-down menu and click [Add New] to select deploy target agent-based clients.

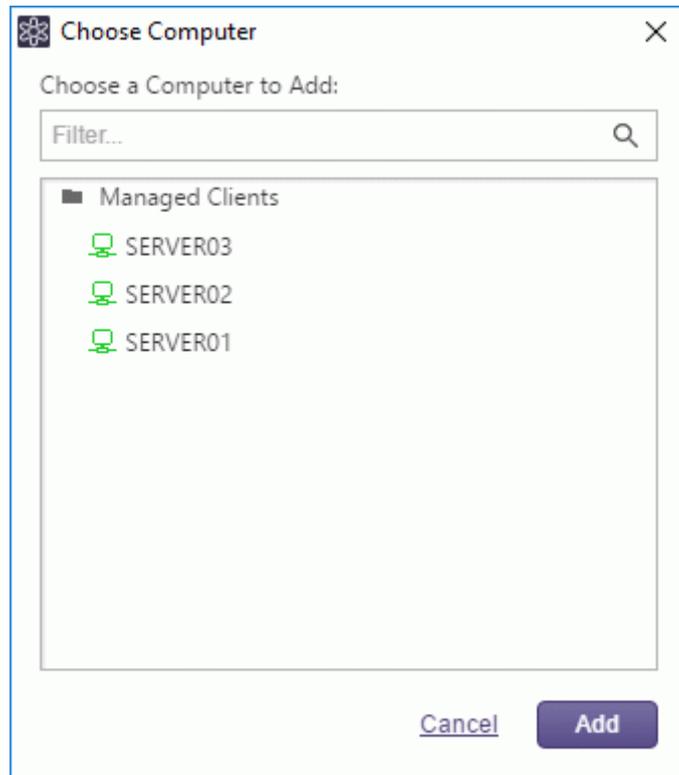


Fig. 3.22 Select Clients

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

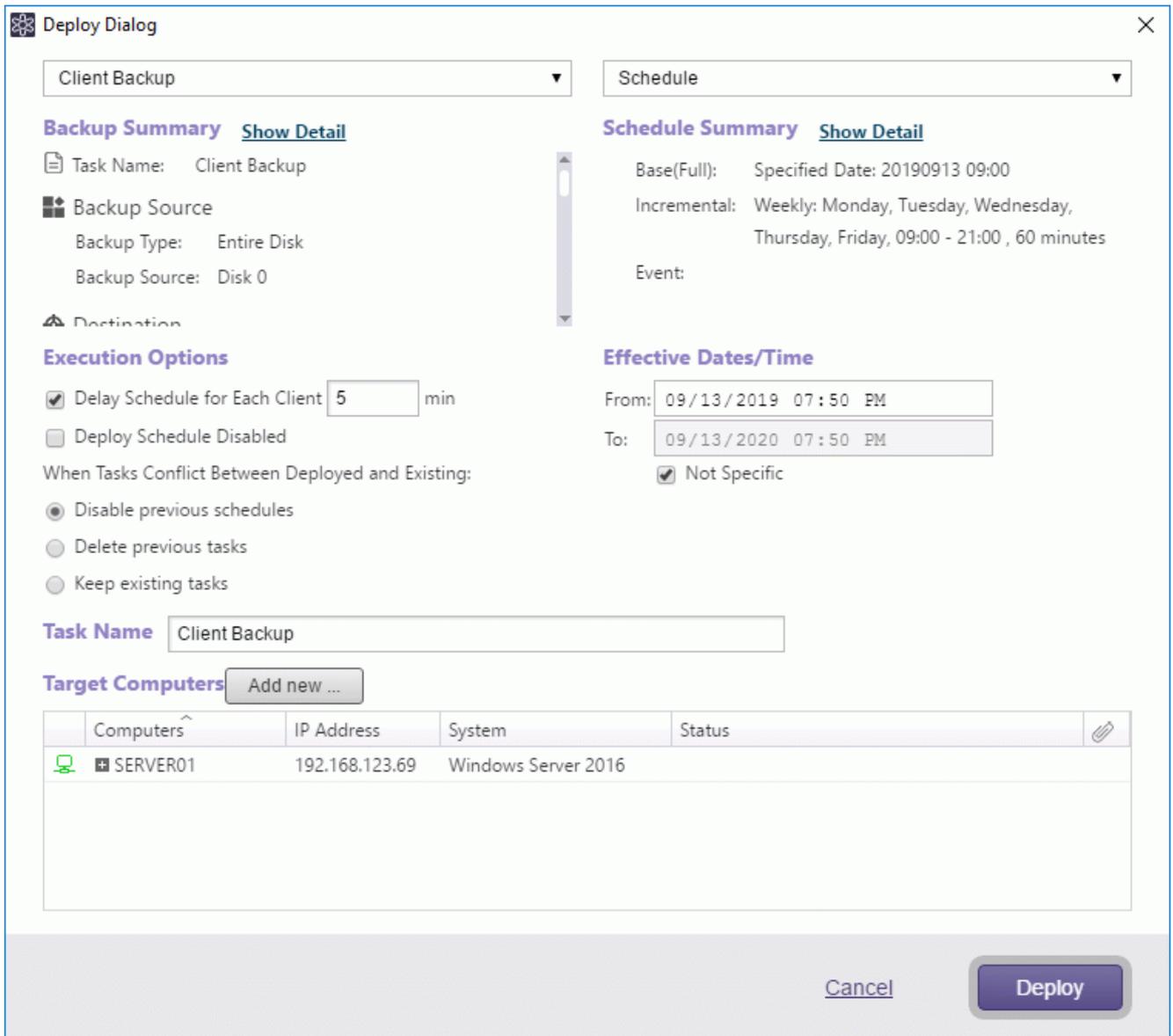


Fig. 3.23 Add Client to Target Computers

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.

[When tasks conflict between deployed and existing]: Select how ActiveVisor should behave if a backup schedule task already exists on the client. There are 3 options:

[Disable previous schedules]

[Delete previous tasks] or

[Keep existing task].

[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.

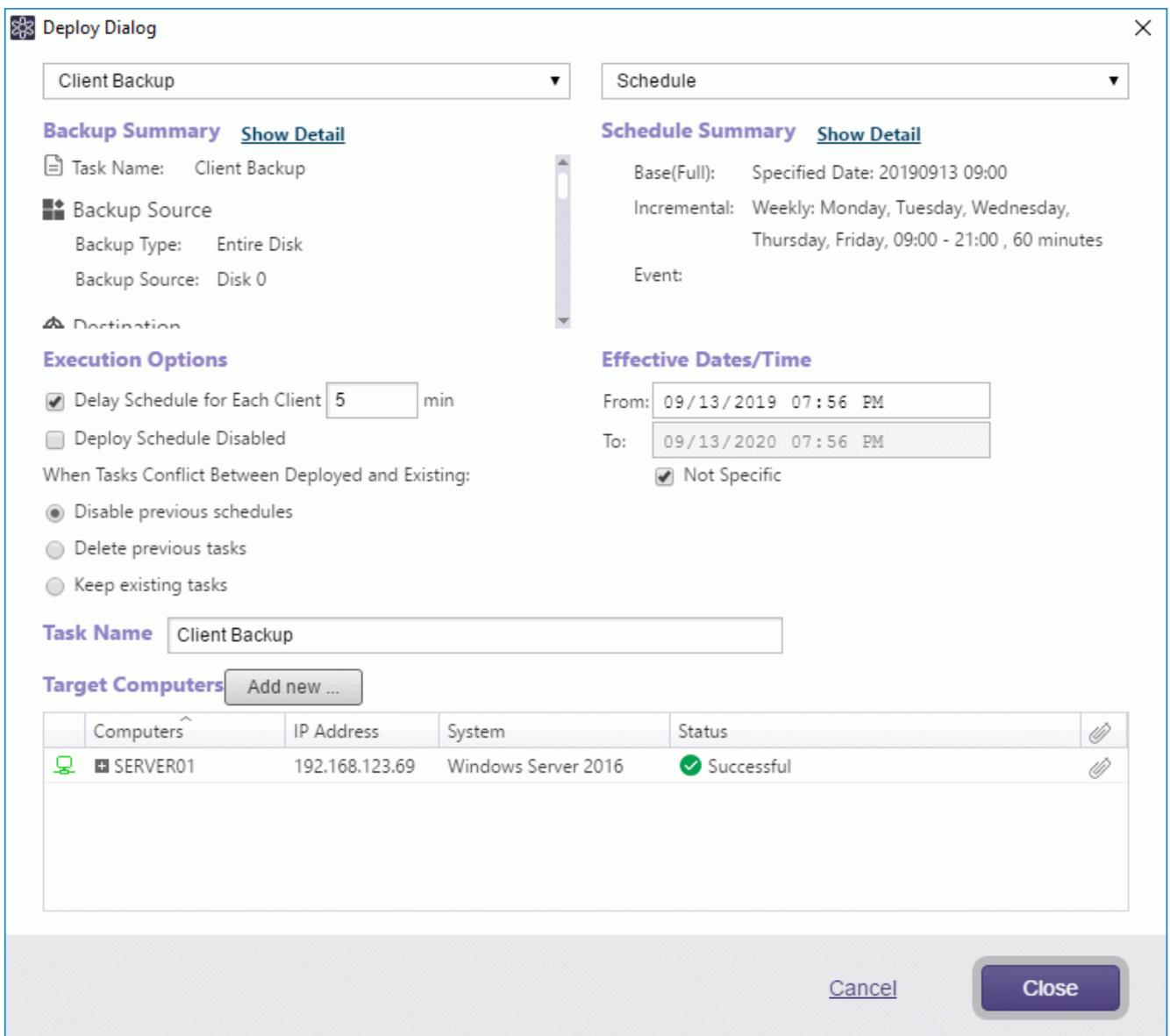


Fig. 3.24 Deploy succeeded

In the [Agent-based] tab, [Deploy Successful] is indicated in [Status] when a deploy task successfully completed.

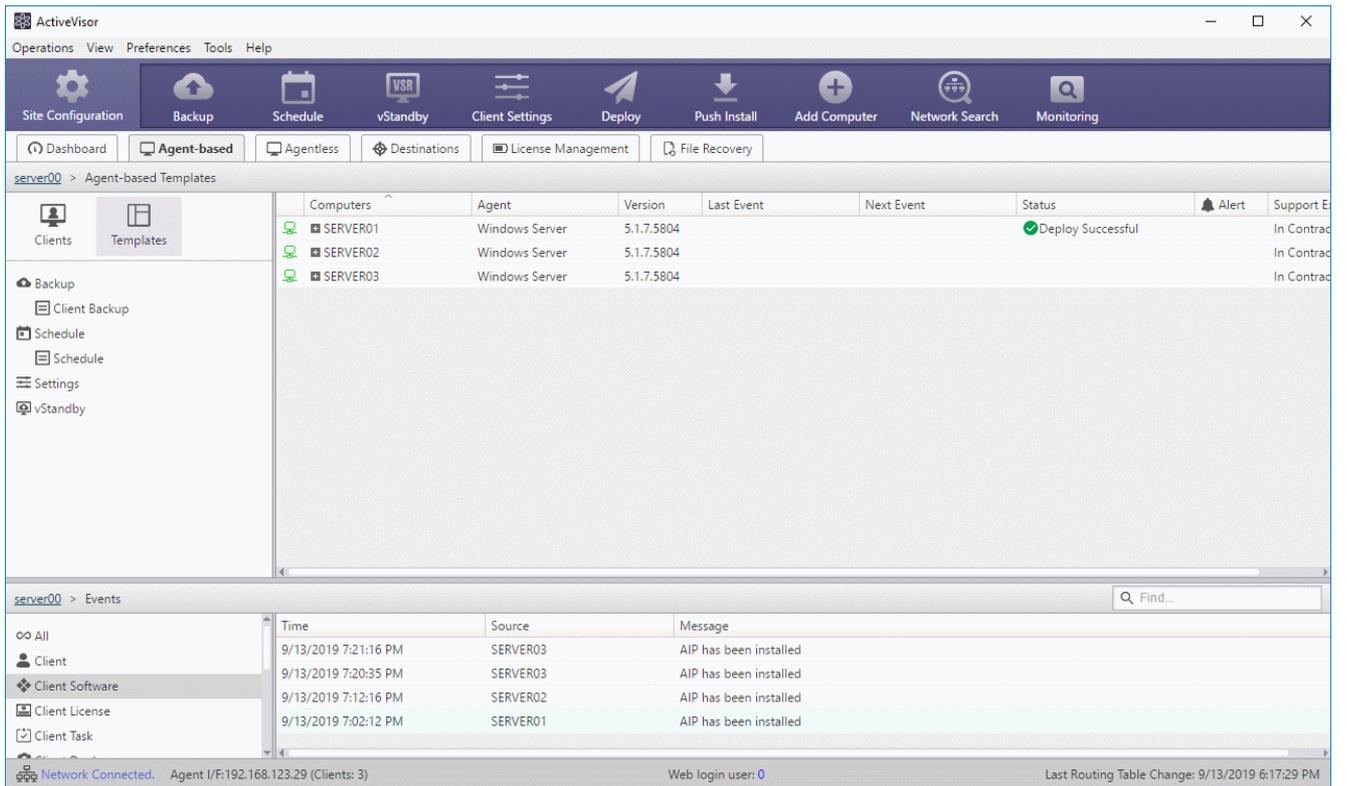


Fig.3.25 Monitor the status of Deploy task in the [Agent-based] tab

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

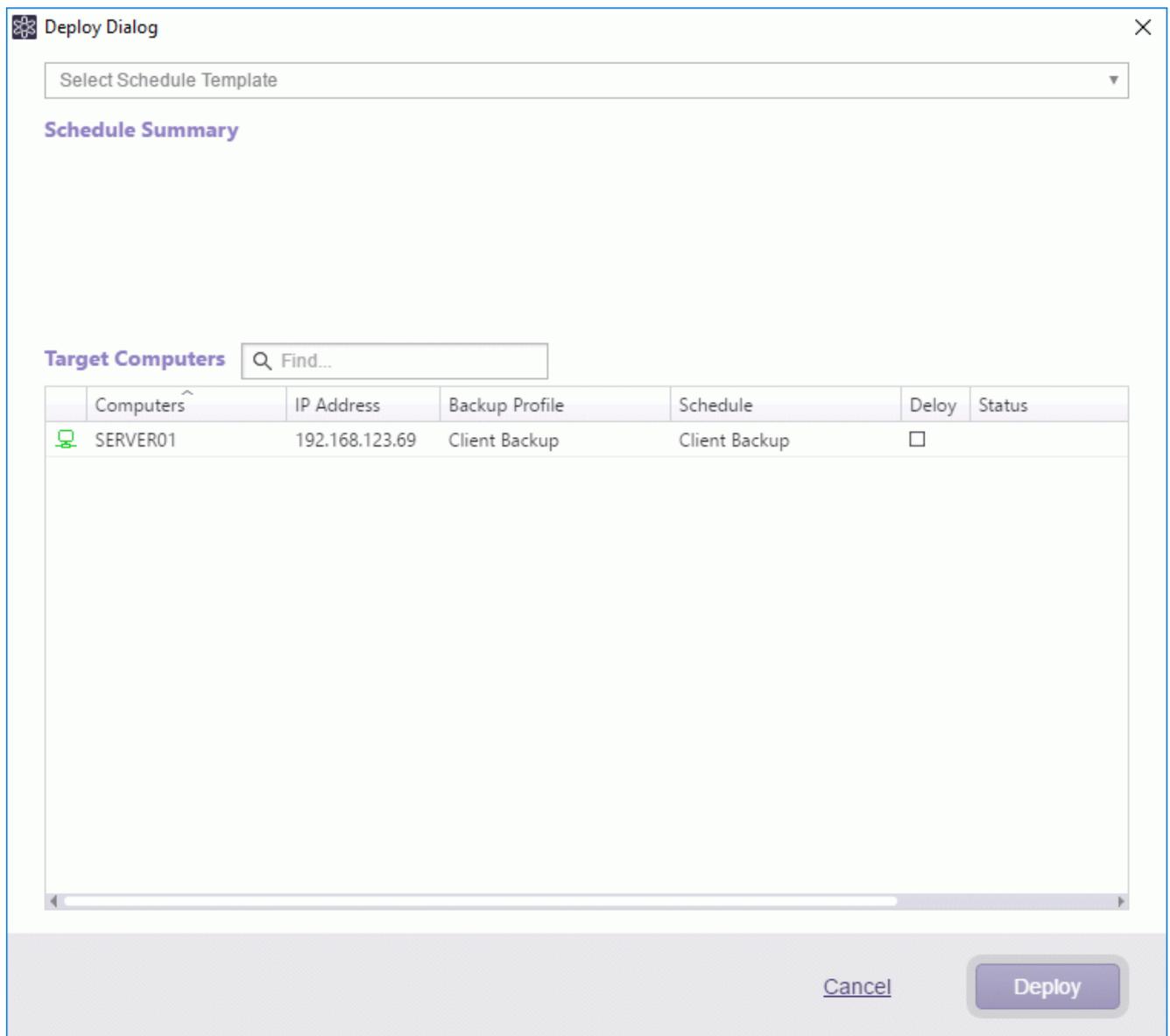


Fig. 3.26 Select [Schedule] in Deploy menu to display Deploy Dialog

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

# 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 presentation in a pie chart indicating the number of found agent-based clients and agentless clients, executed tasks, OS types, ActiveImage Protector editions installed on the client machines, and successful or failed backup tasks.

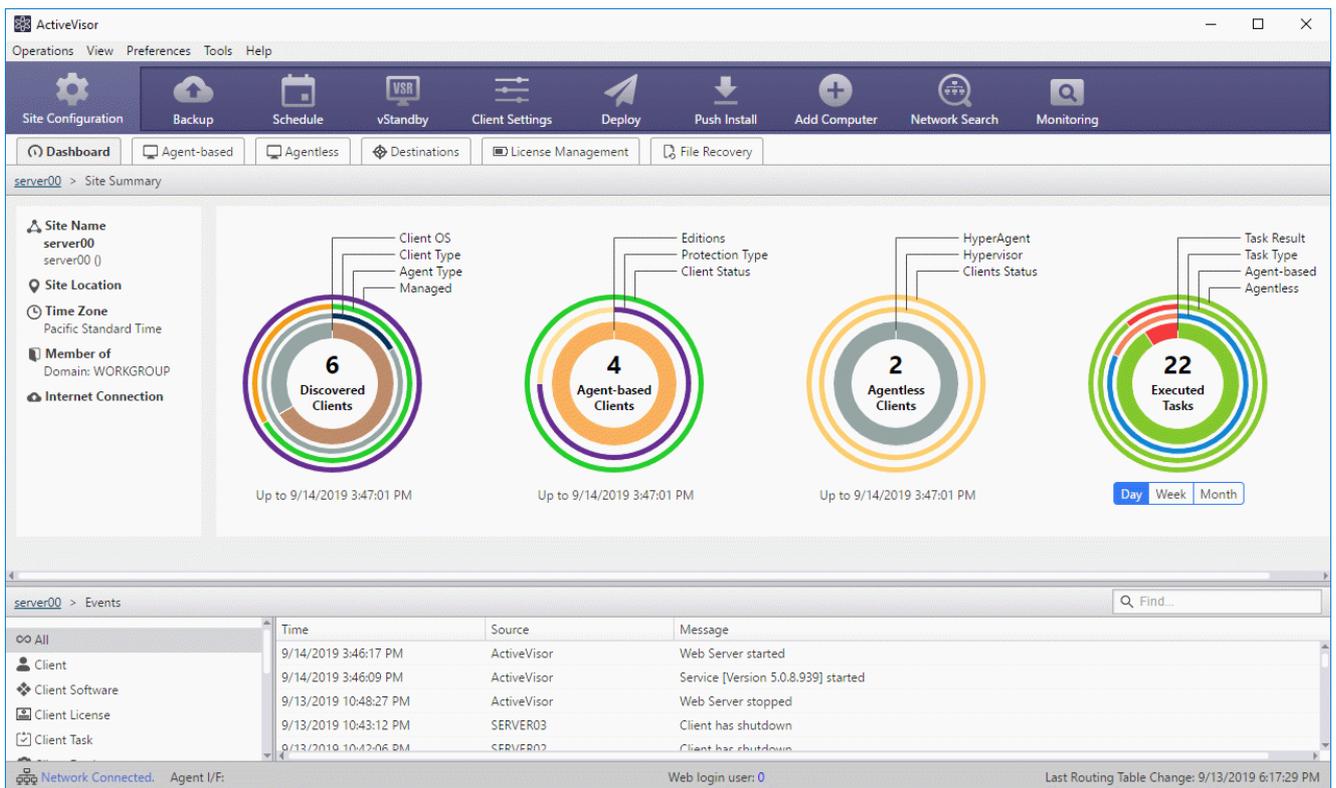


Fig. 4.1 [Dashboard] tab

## 4.2 [Agent-based] Tab

[Agent-based] tab shows the found agent-based clients and created templates.

The screenshot displays the ActiveVisor web interface. The top navigation bar includes 'Operations', 'View', 'Preferences', and 'Tools'. Below this is a secondary menu with icons for 'Site Configuration', 'Backup', 'Schedule', 'vStandby', 'Client Settings', 'Deploy', 'Push Install', 'Add Computer', 'Network Search', and 'Monitoring'. The main content area is divided into two sections: 'Managed Clients' and 'Events'.

**Managed Clients Table:**

| Computers | Agent          | Version    | Last Event           | Next Event           | Status | Alert | Support E  |
|-----------|----------------|------------|----------------------|----------------------|--------|-------|------------|
| SERVER01  | Windows Server | 5.1.7.5804 | 9/13/2019 8:00:00 PM | 9/13/2019 9:00:00 PM | 100.0% |       | In Contrac |
| SERVER02  | Windows Server | 5.1.7.5804 | 9/13/2019 8:05:00 PM | 9/13/2019 9:05:00 PM | 100.0% |       | In Contrac |
| SERVER03  | Windows Server | 5.1.7.5804 | 9/13/2019 8:01:00 PM | 9/13/2019 9:00:00 PM | 100.0% |       | In Contrac |
| SERVER10  | Windows Server | 5.1.7.5804 |                      |                      |        |       | In Contrac |

**Events Log Table:**

| Time                 | Source      | Message  |
|----------------------|-------------|--|
| 9/13/2019 8:11:39 PM | SERVER02    | Task logs updated from client                          |
| 9/13/2019 8:11:38 PM | SERVER02    | Task Client BackupINC on client has ended successfully |
| 9/13/2019 8:10:36 PM | ActiveVisor | Proxy activation for server02 successful               |
| 9/13/2019 8:07:28 PM | SERVER03    | Task logs updated from client                          |
| 9/13/2019 8:07:27 PM | SERVER03    | Task Client Backup on client has ended successfully    |

The bottom status bar shows 'Network Connected', 'Agent I/F:192.168.123.29 (Clients: 4)', 'Web login user: 0', and 'Last Routing Table Change: 9/13/2019 6:17:29 PM'.

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 display [Create New Group] from the context-menu.

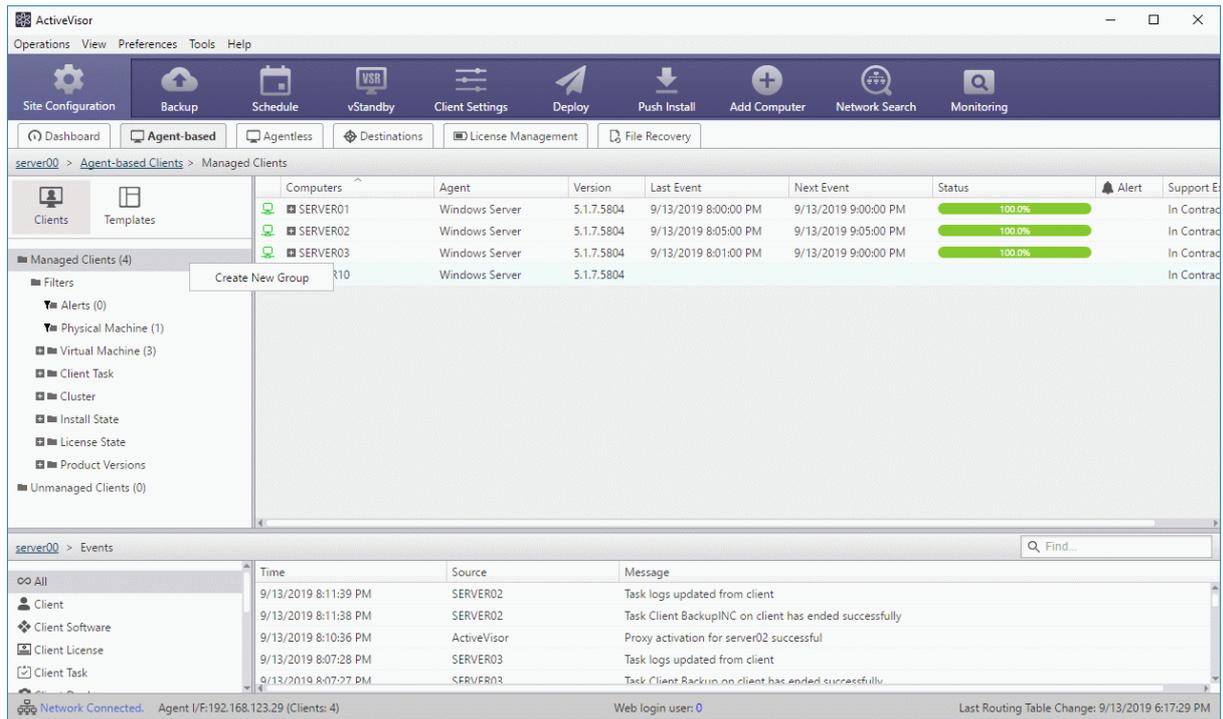


Fig. 4.3 [Create New Group] menu

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

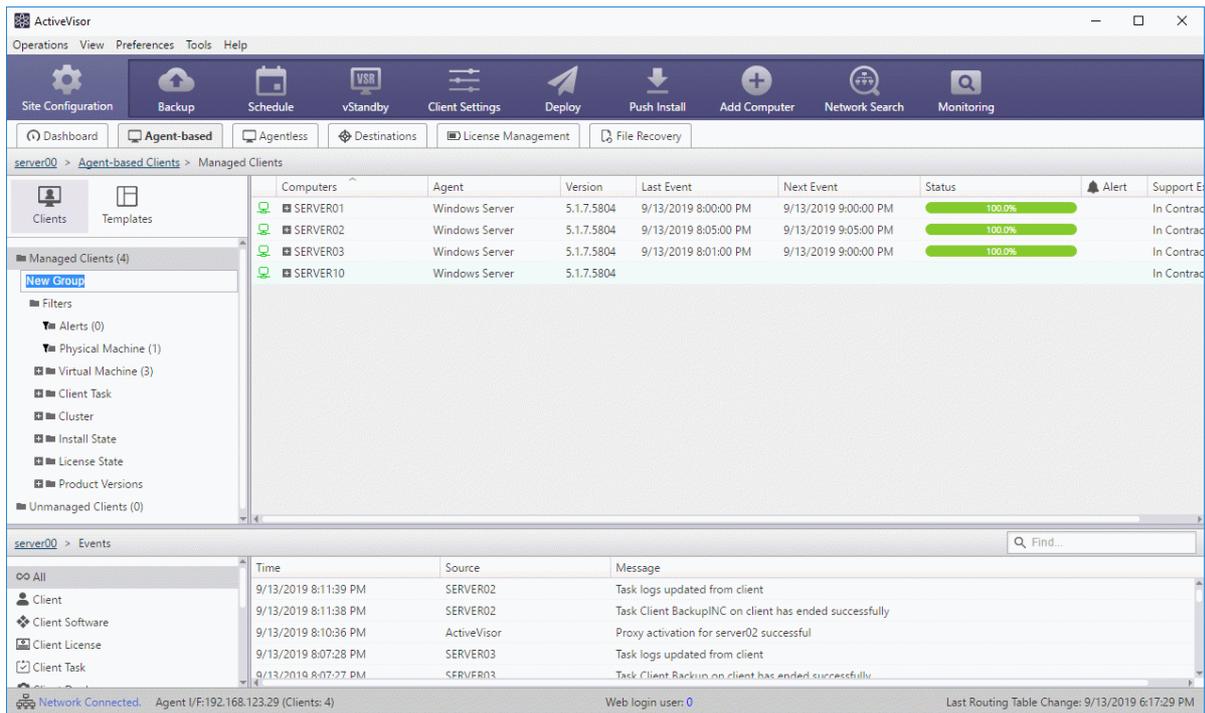


Fig. 4.4 Create Sub-group

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.

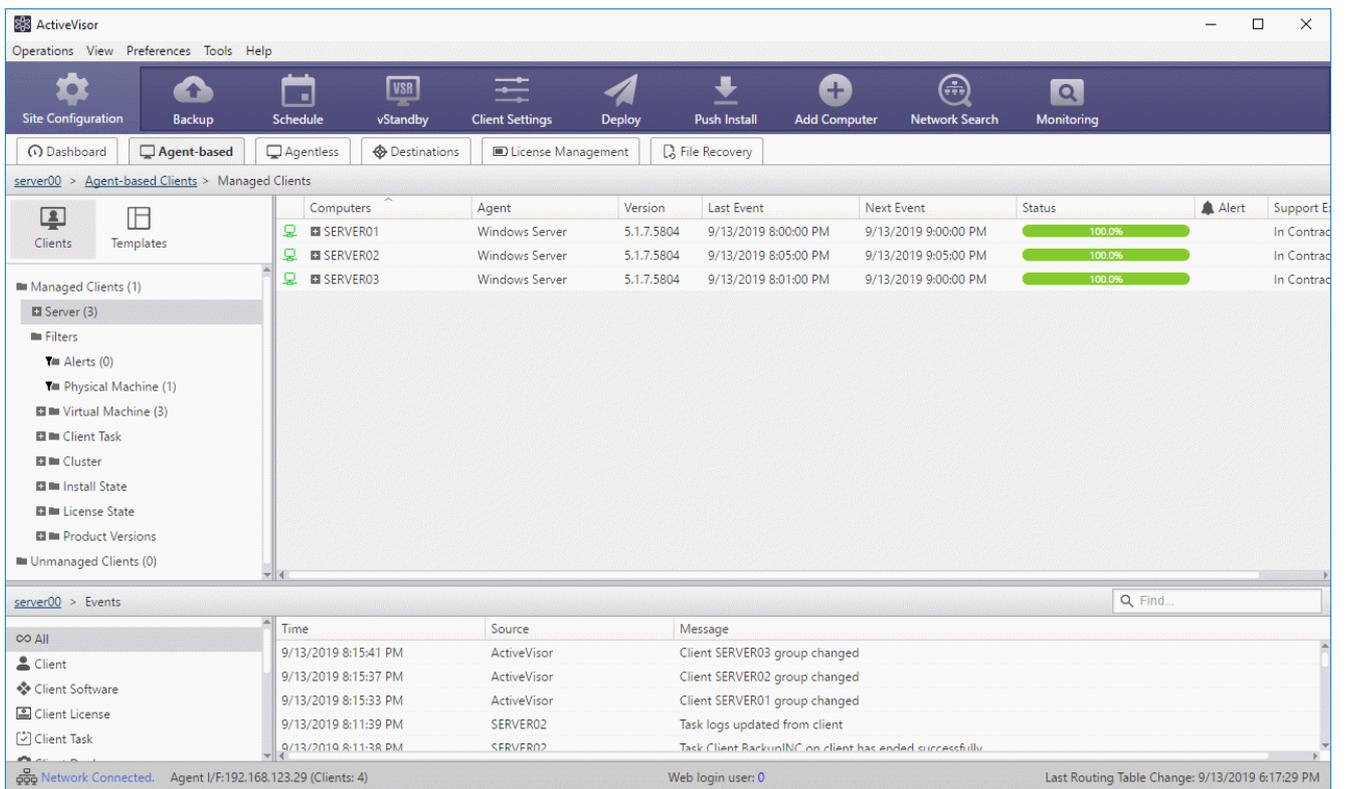


Fig. 4.5 Grouping clients

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

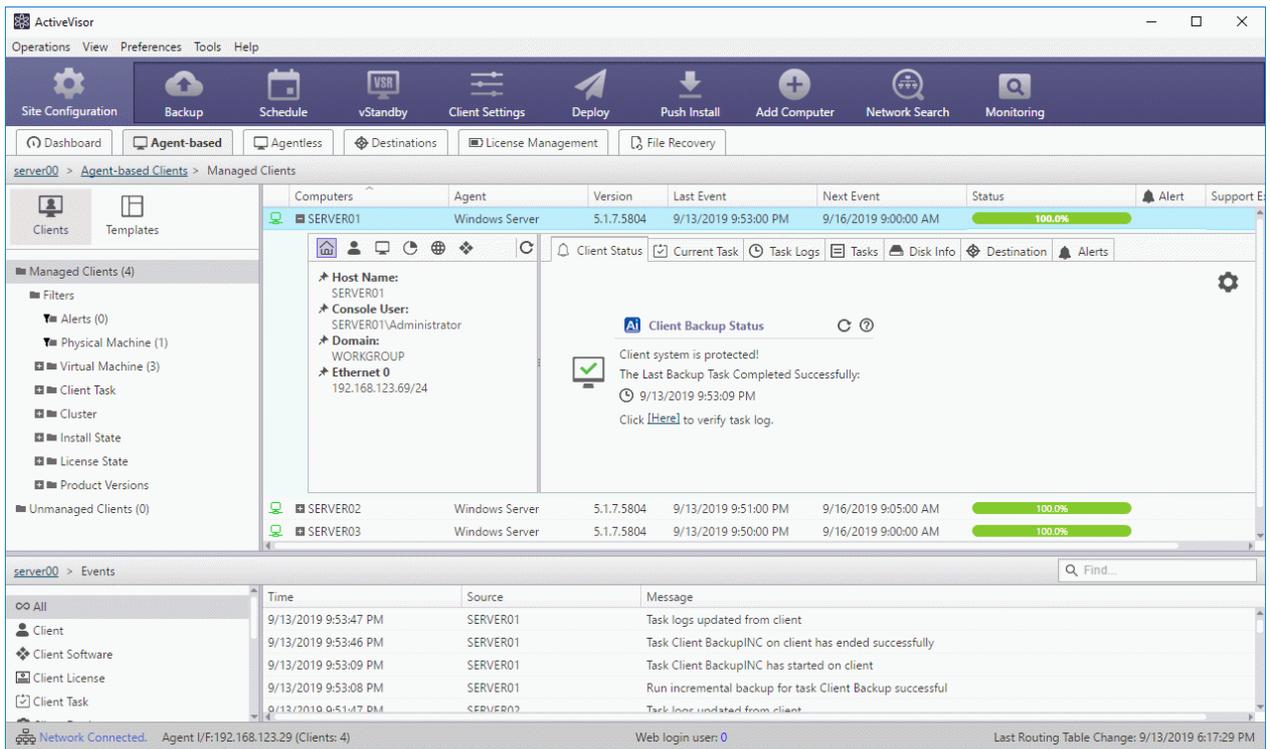


Fig. 4.6 Detailed client information

The buttons at the upper left display information that include the client OS, network, etc.

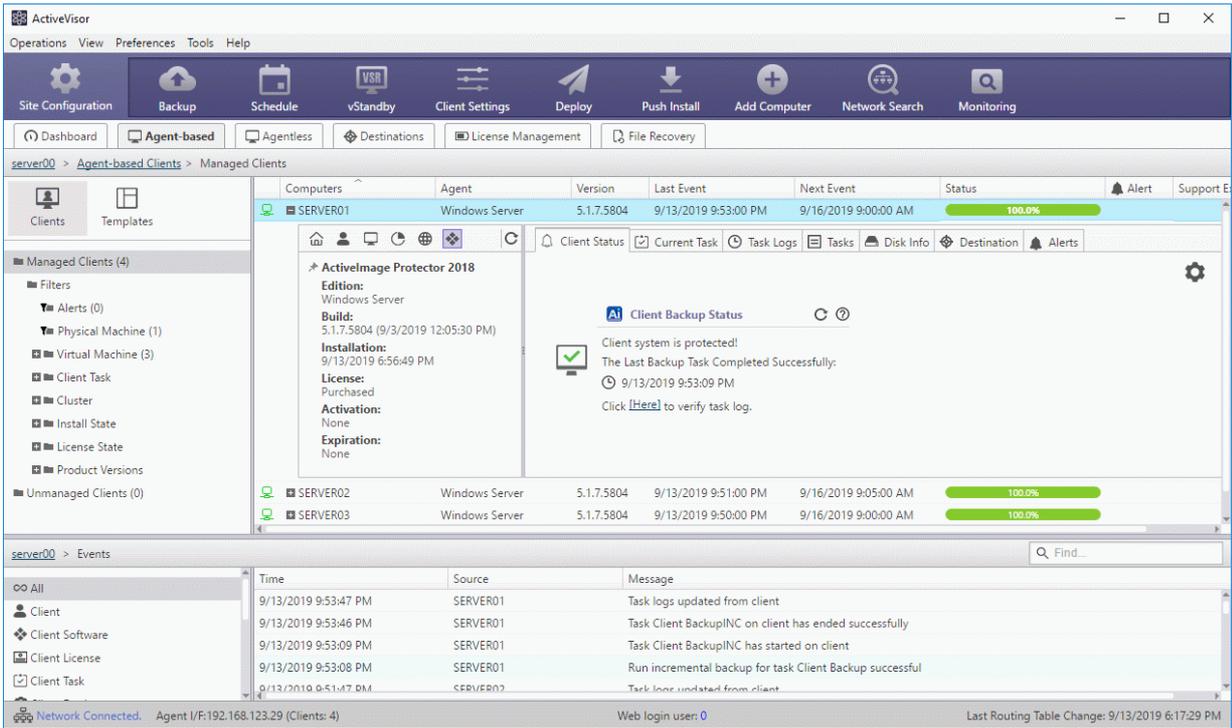


Fig. 4.7 ActiveImage Protector agent on clients

There are seven tabs in the right pane of the dialog. The most recent backup status is displayed in the left-most [Client Status] tab (Fig. 4.6 and 4.7).

The status of the current running task is displayed in [Current Task] tab. The progress bar displays the percentage completed of a running task.

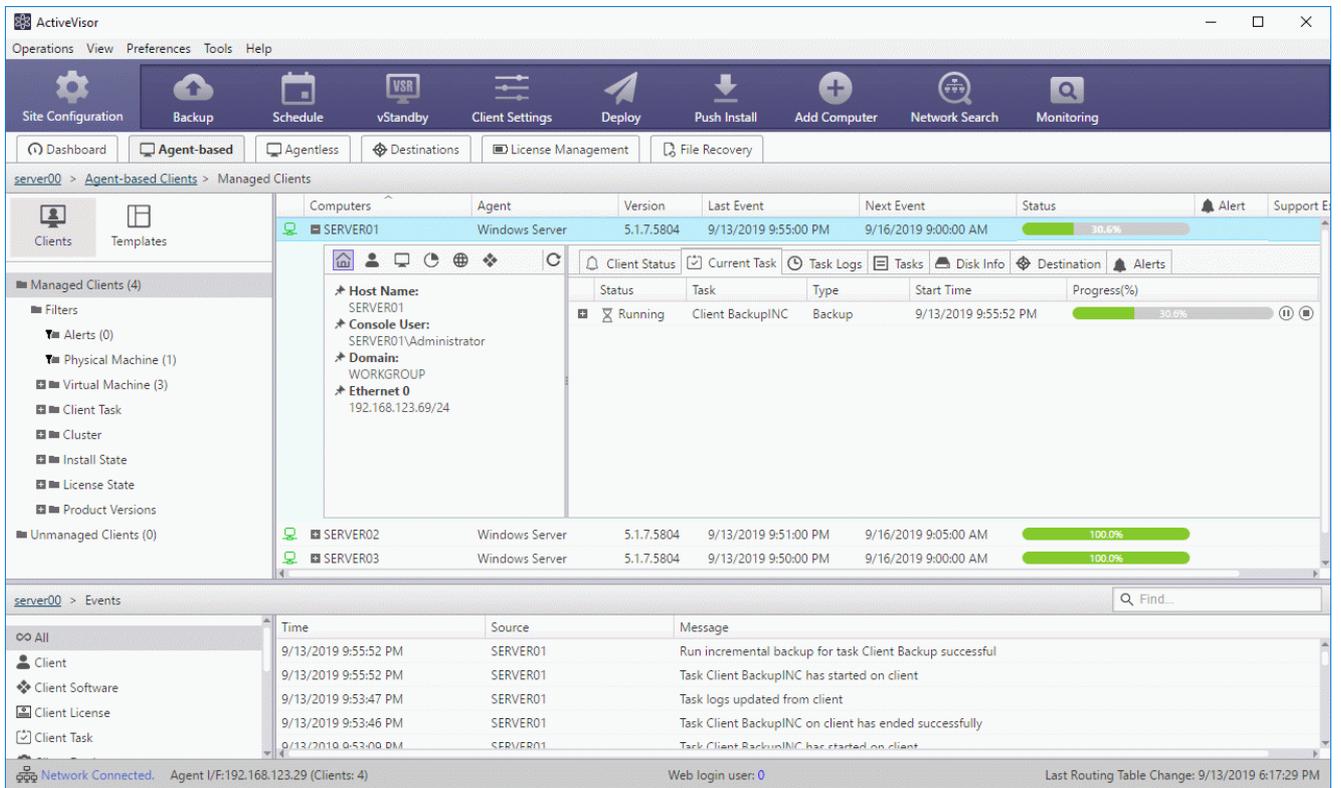


Fig. 4.8 [Current Task] tab

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

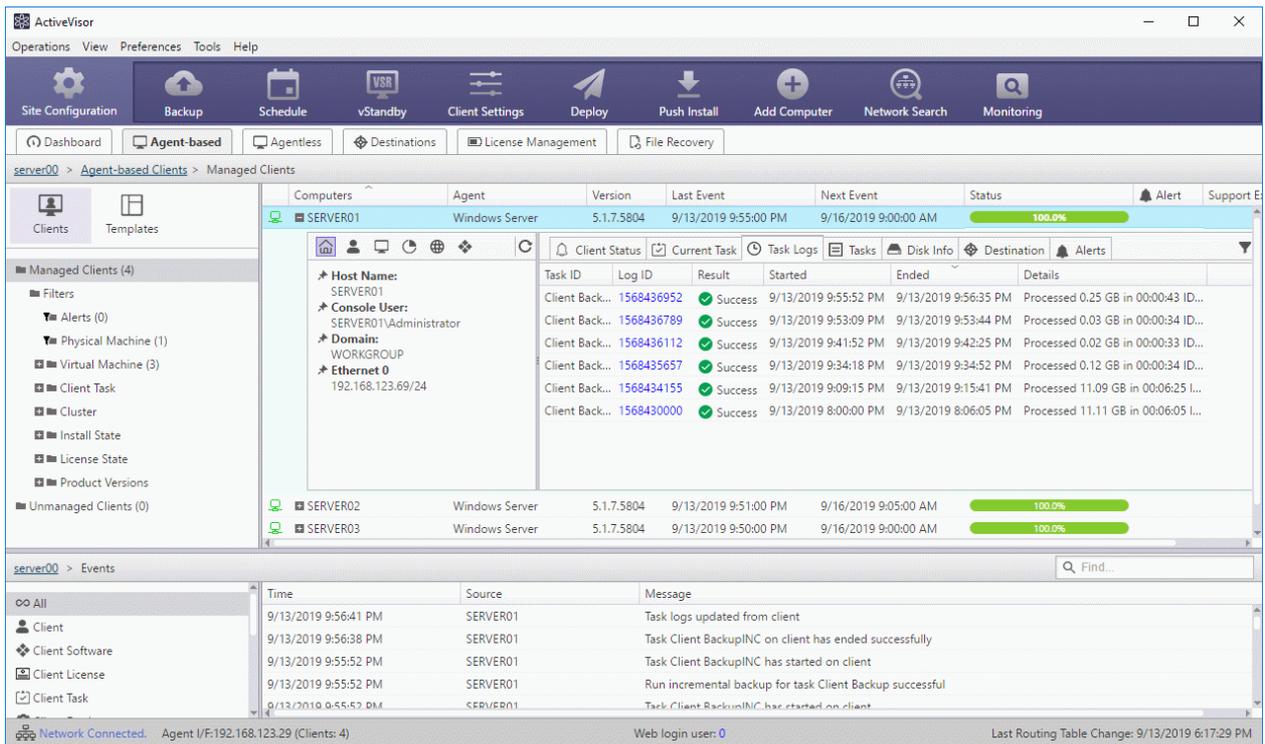


Fig. 4.9 [Task Logs] tab

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

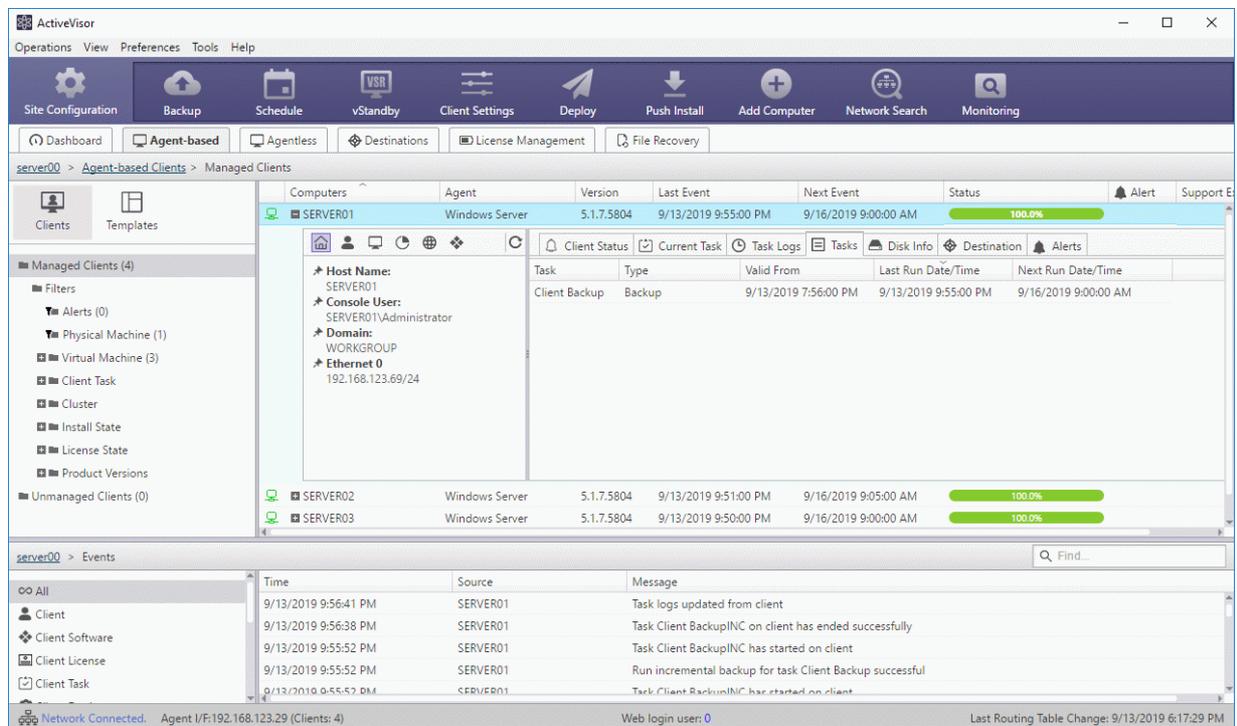


Fig. 4.10 [Tasks] tab

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

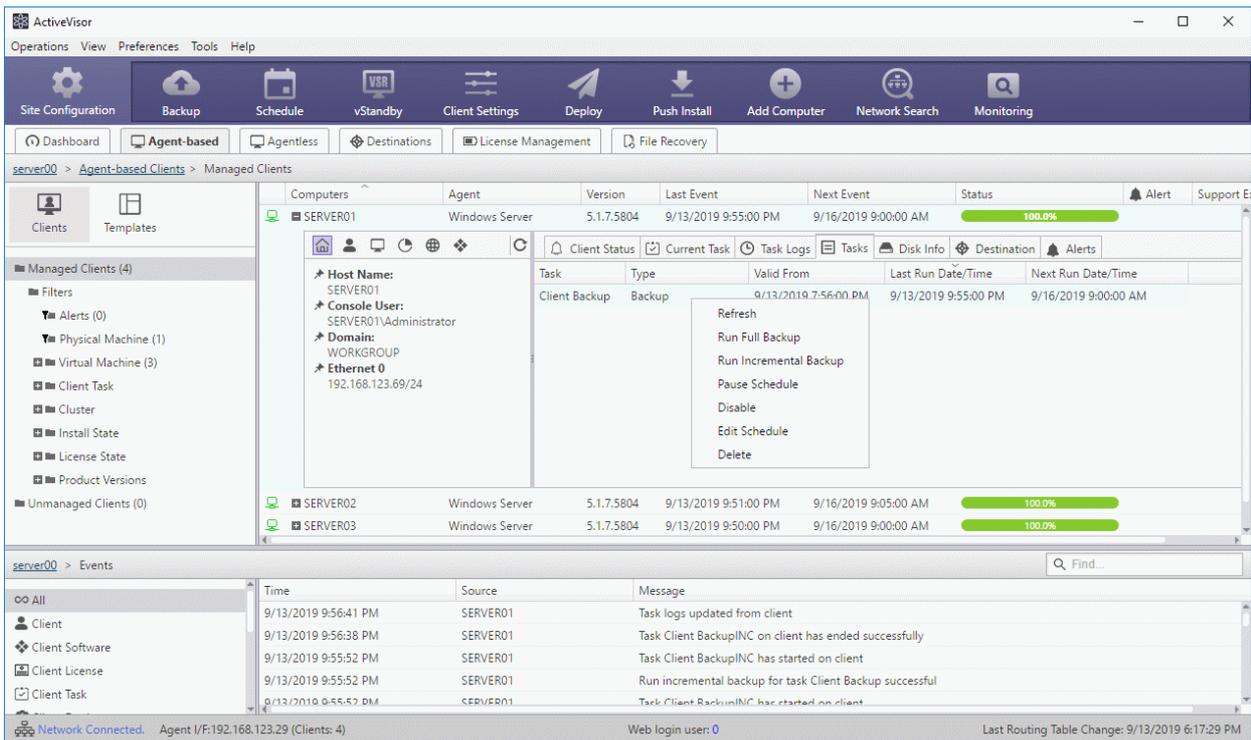


Fig. 4.11 Context menu for initiating a task operation

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

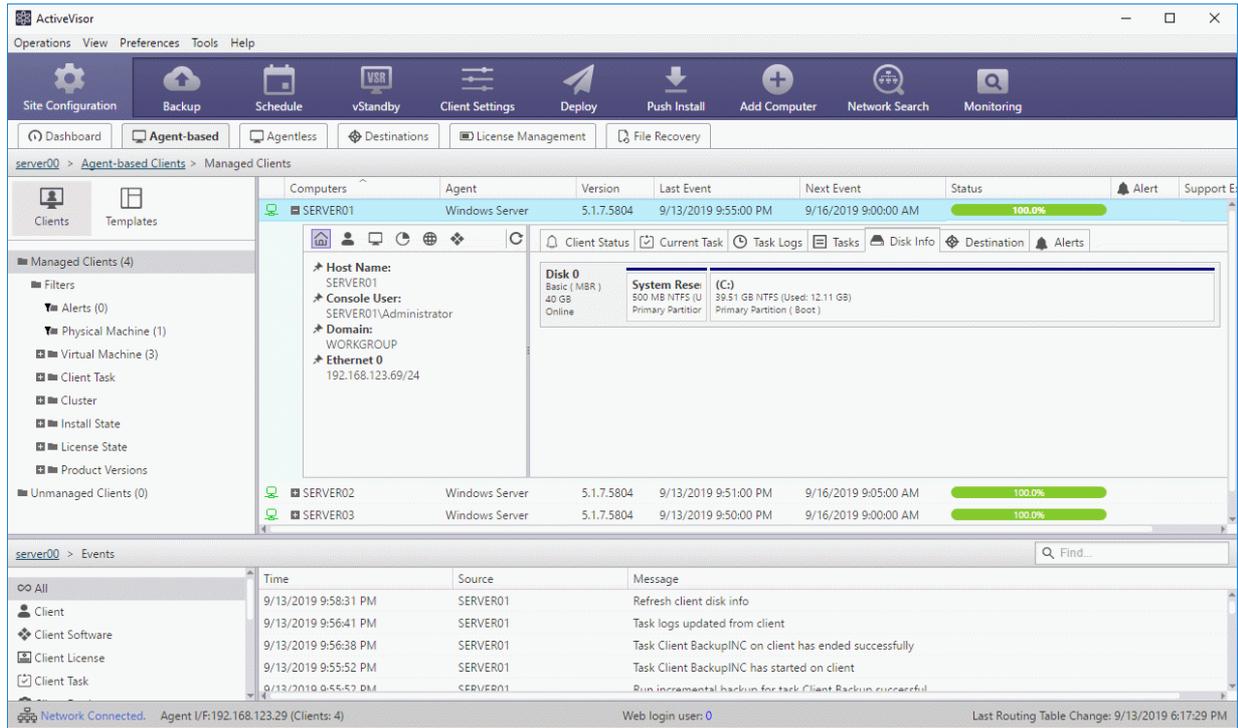


Fig. 4.12 [Disk Information] tab

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

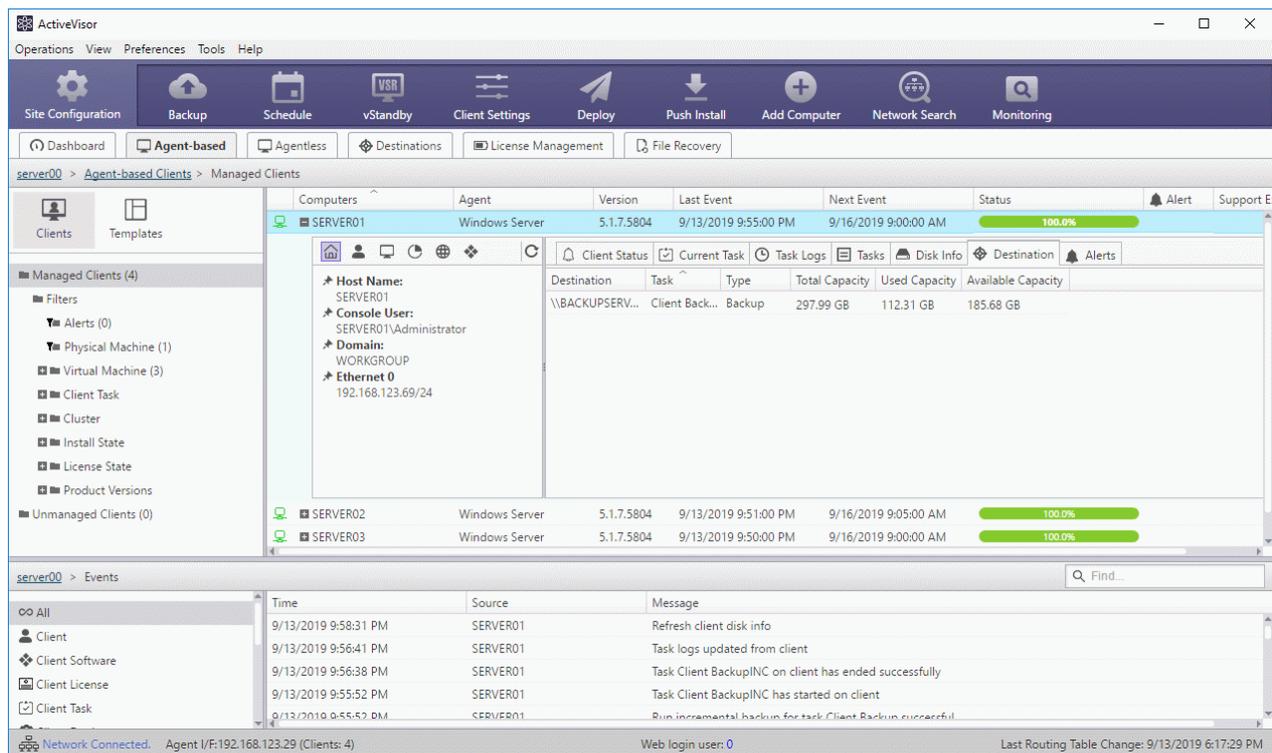


Fig. 4.13 [Destination] tab

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

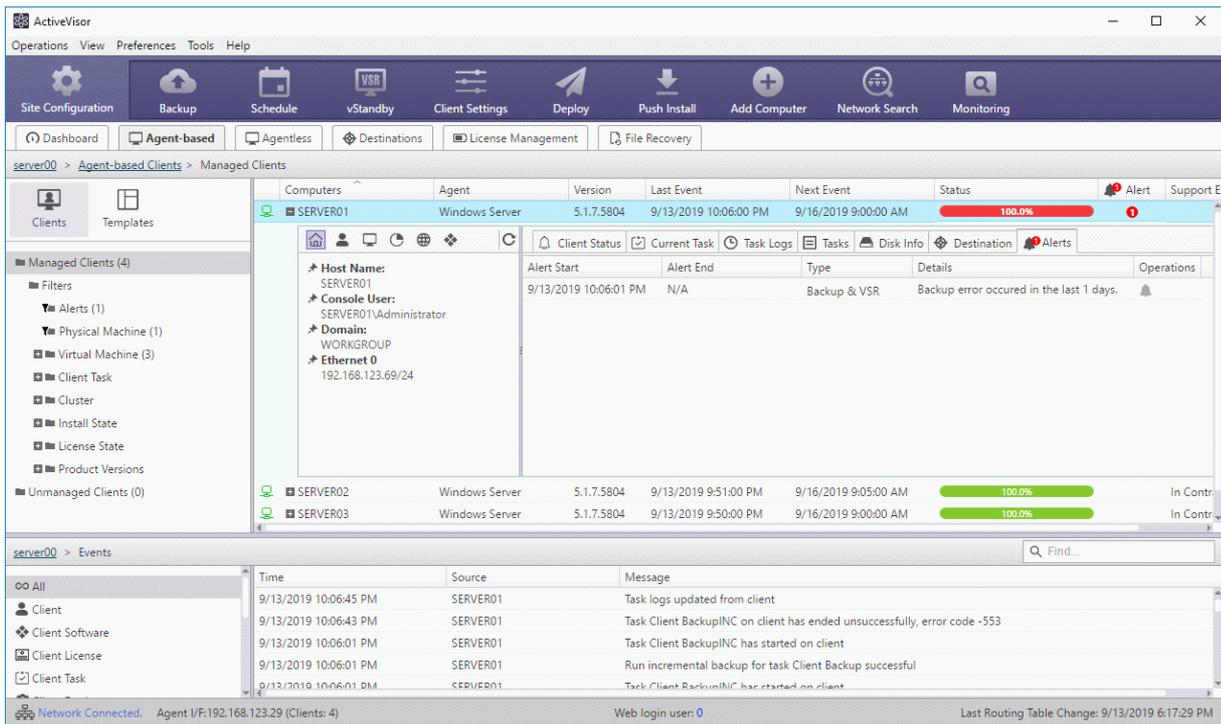


Fig. 4.14 [Alert] tab

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

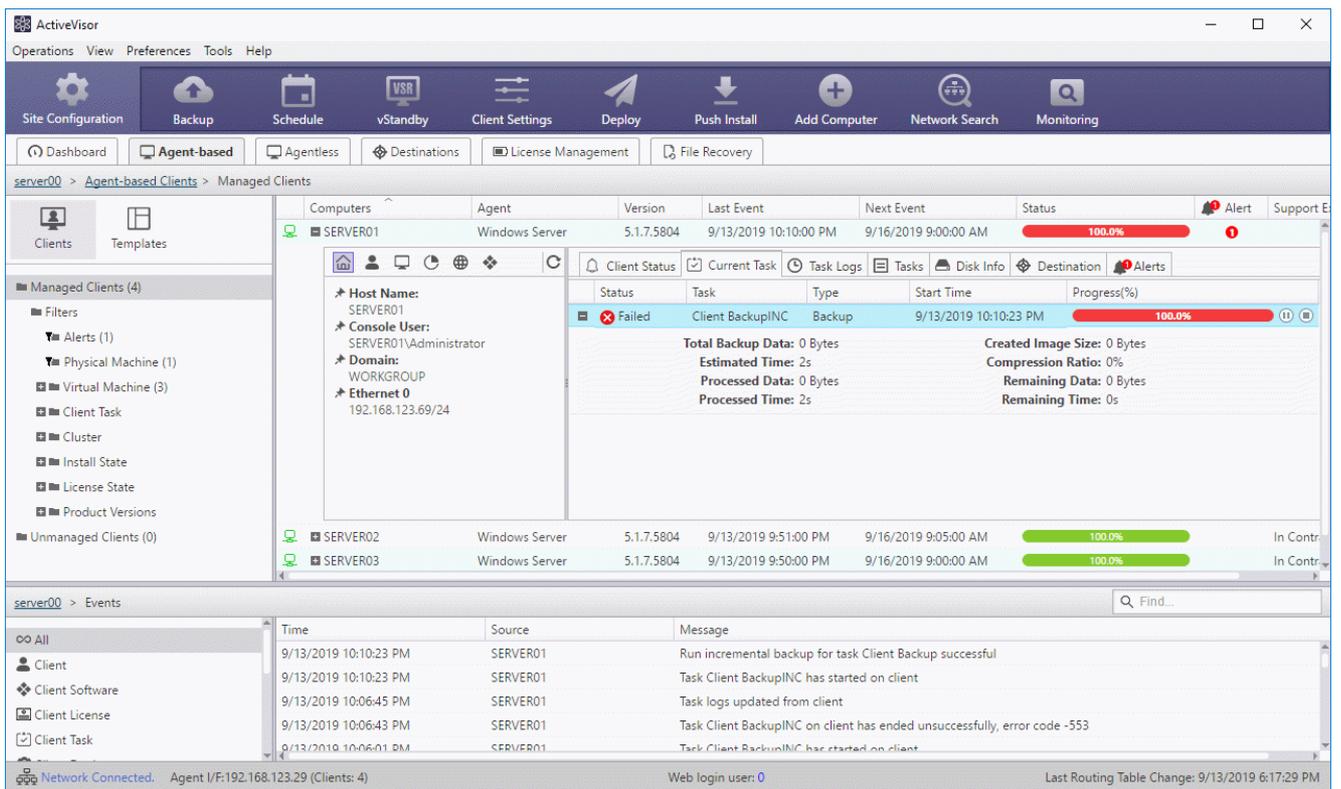


Fig. 4.15 [Task Log] tab in the event of failure

## 4.3 [Destination] tab

Displays the information of networked storage devices configured as the destination and the hypervisor for backup tasks of managed clients.

The screenshot shows the ActiveVisor interface with the [Destinations] tab selected. The main content area is divided into three sections: Storage Devices, Hypervisors, and Events.

**Storage Devices:** A table lists the destination 'server01' with its last and next event times and status. Below this, a 'Backup Throughput' table shows task logs for 'SERVER01' with columns for Client, Task, Log ID, Result, Started, Ended, and Details.

| Client   | Task        | Log ID     | Result  | Started               | Ended                 | Details            |
|----------|-------------|------------|---------|-----------------------|-----------------------|--------------------|
| SERVER01 | Client B... | 1568436952 | Success | 9/13/2019 9:55:52 ... | 9/13/2019 9:56:35 ... | Processed 0.25 ... |
| SERVER01 | Client B... | 1568436789 | Success | 9/13/2019 9:53:09 ... | 9/13/2019 9:53:44 ... | Processed 0.03 ... |
| SERVER01 | Client B... | 1568436112 | Success | 9/13/2019 9:41:52 ... | 9/13/2019 9:42:25 ... | Processed 0.02 ... |
| SERVER01 | Client B... | 1568435657 | Success | 9/13/2019 9:34:18 ... | 9/13/2019 9:34:52 ... | Processed 0.12 ... |
| SERVER01 | Client B... | 1568434155 | Success | 9/13/2019 9:09:15 ... | 9/13/2019 9:15:41 ... | Processed 11.0...  |

**Hypervisors:** A table with columns for Name, Last Event, Next Event, and Status, currently empty.

**Events:** A table with columns for Time, Source, and Message, showing recent system events.

| Time                 | Source   | Message  |
|----------------------|----------|--|
| 9/13/2019 9:58:31 PM | SERVER01 | Refresh client disk info                                 |
| 9/13/2019 9:56:41 PM | SERVER01 | Task logs updated from client                            |
| 9/13/2019 9:56:38 PM | SERVER01 | Task Client BackupINC on client has ended successfully   |
| 9/13/2019 9:55:52 PM | SERVER01 | Task Client BackupINC has started on client              |
| 9/13/2019 9:55:52 PM | SERVER01 | Run incremental backup for task Client Backup successful |

The bottom status bar shows 'Network Connected', 'Agent I/F: 192.168.123.29 (Clients: 4)', 'Web login user: 0', and 'Last Routing Table Change: 9/13/2019 6:17:29 PM'.

Fig. 4.16 [Destiantion] tab

## 4.4 [License Management] tab

Managed product key usage is displayed in [License Management] tab.

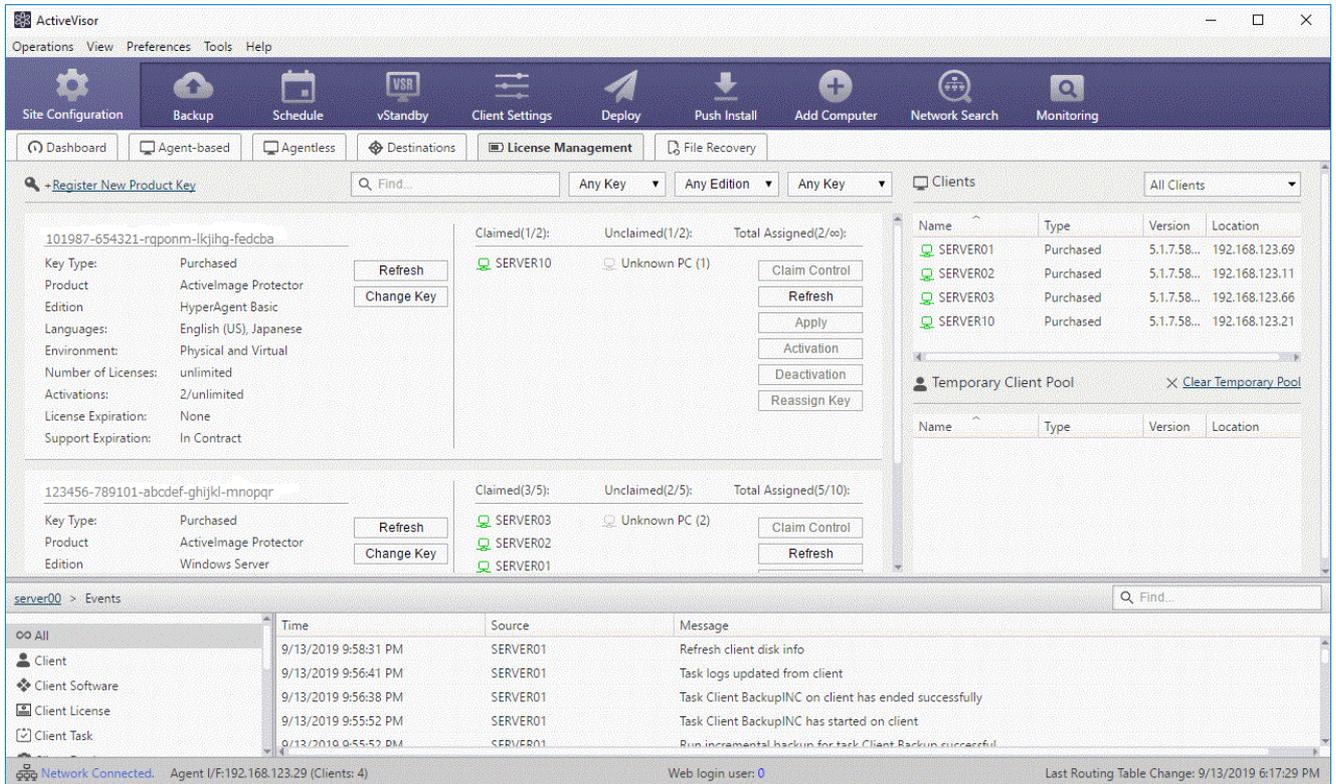


Fig. 4.17 [License Management] tab

Agents' event history is displayed in the lower pane of the respective tabs.

## 4.5 Monitoring

Select [Monitoring] in the top menu to display the status of the clients in the list. Click [Monitoring] to launch ActiveVisor Monitor as shown in Fig. 4.18.

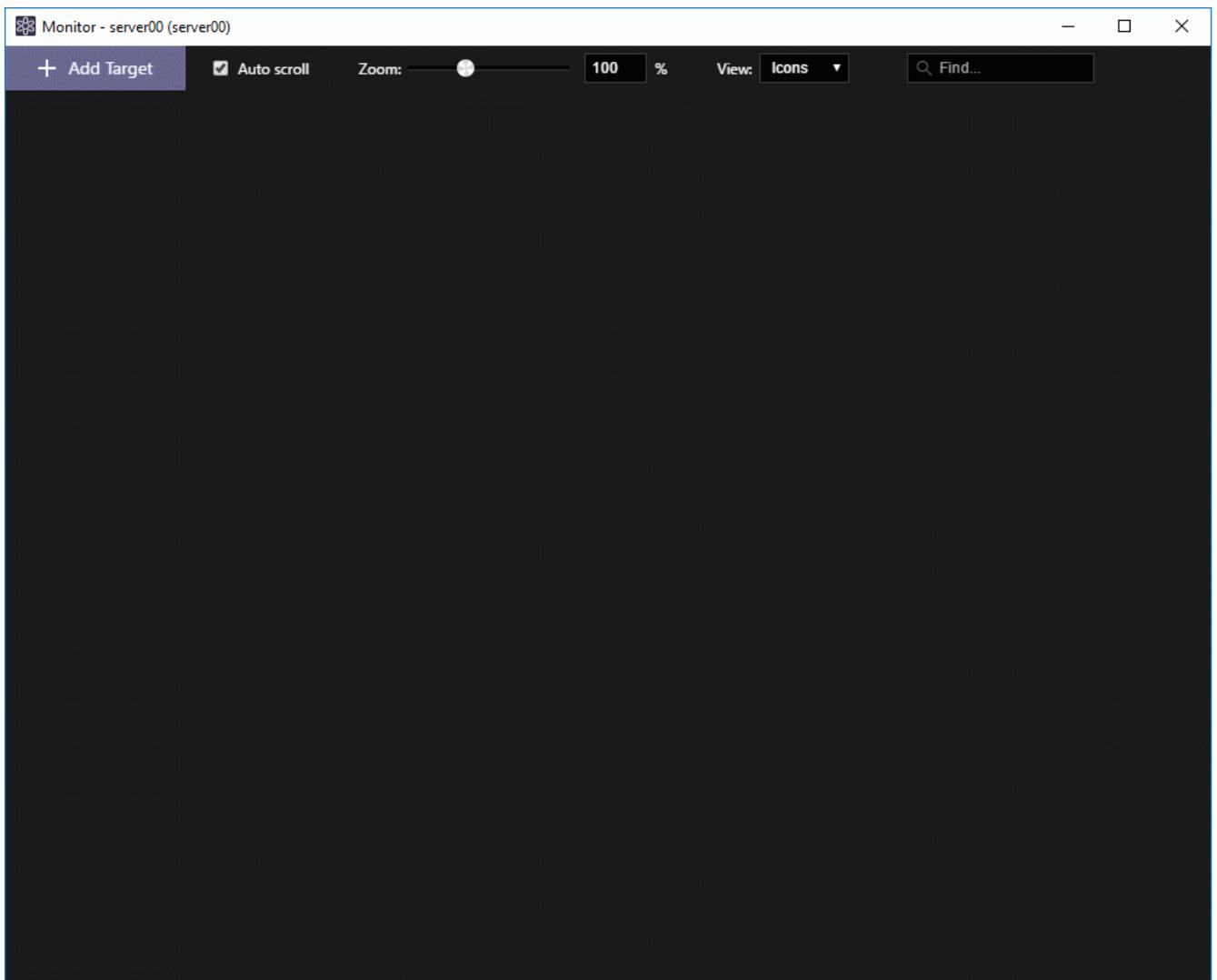


Fig. 4.18 ActiveVisor Monitor

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. 4.19.

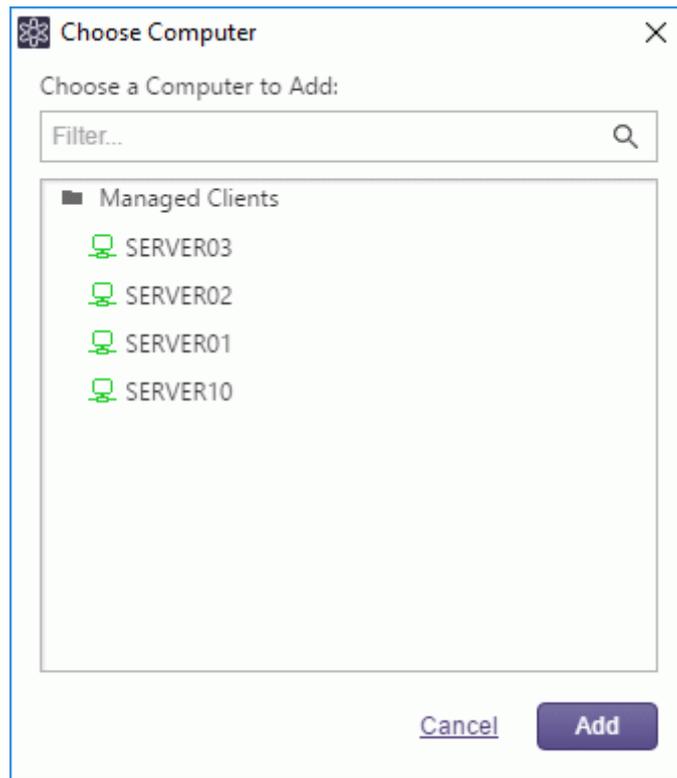


Fig. 4.19 Choose Computer

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

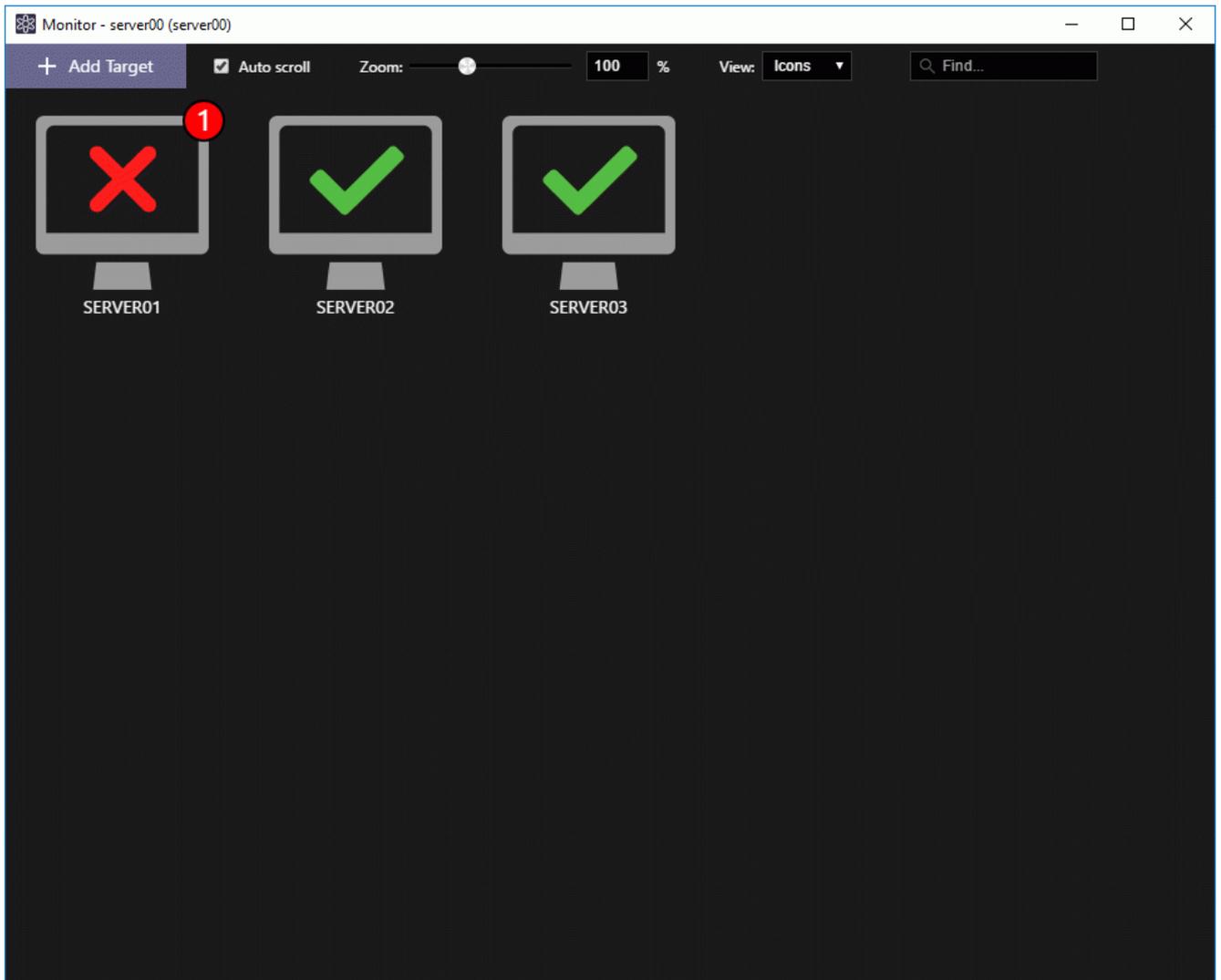


Fig. 4.20 Status of managed clients (Icon)

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.

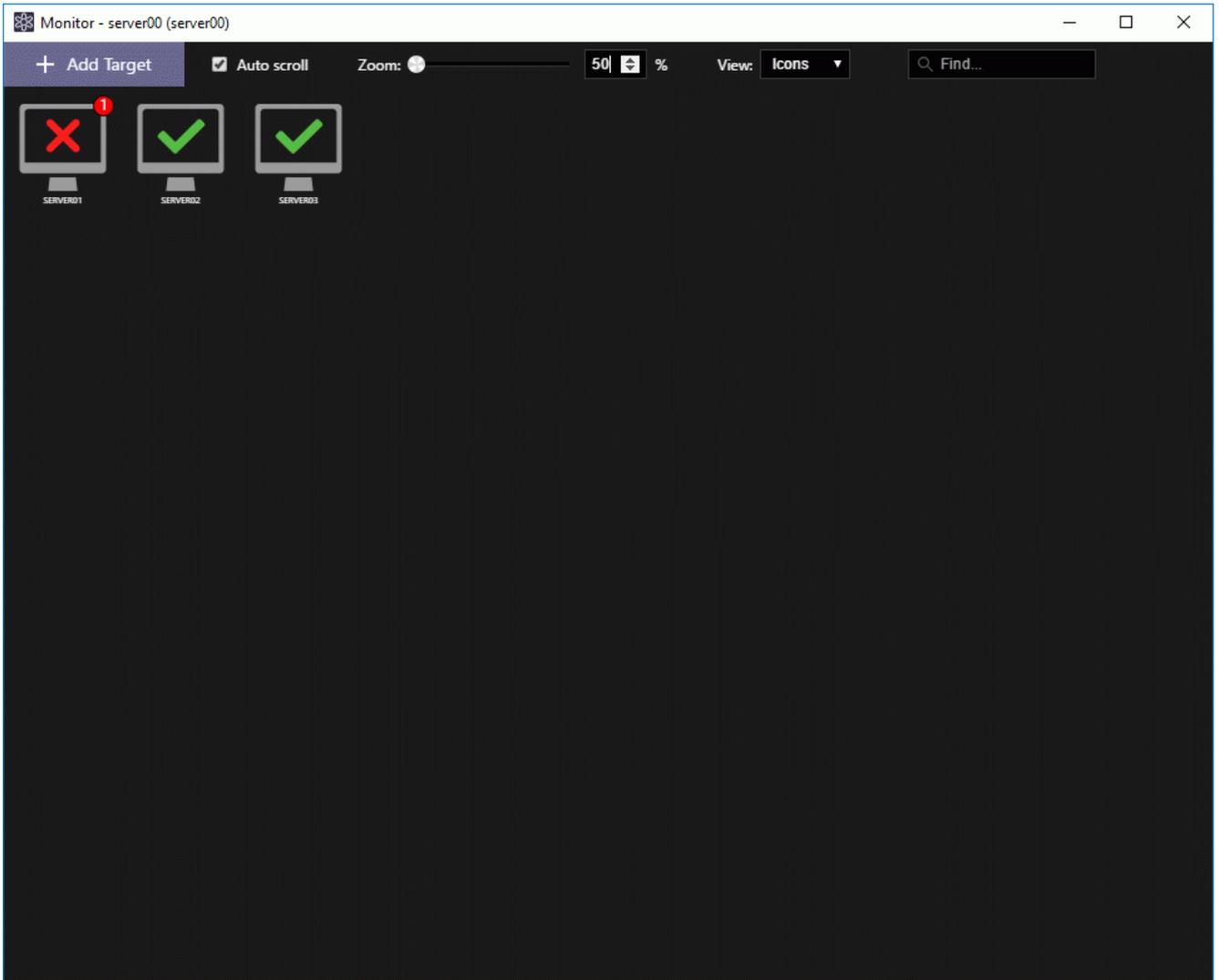


Fig. 4.21 Zoom out (Icon)

This example shows three icons representing three 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.

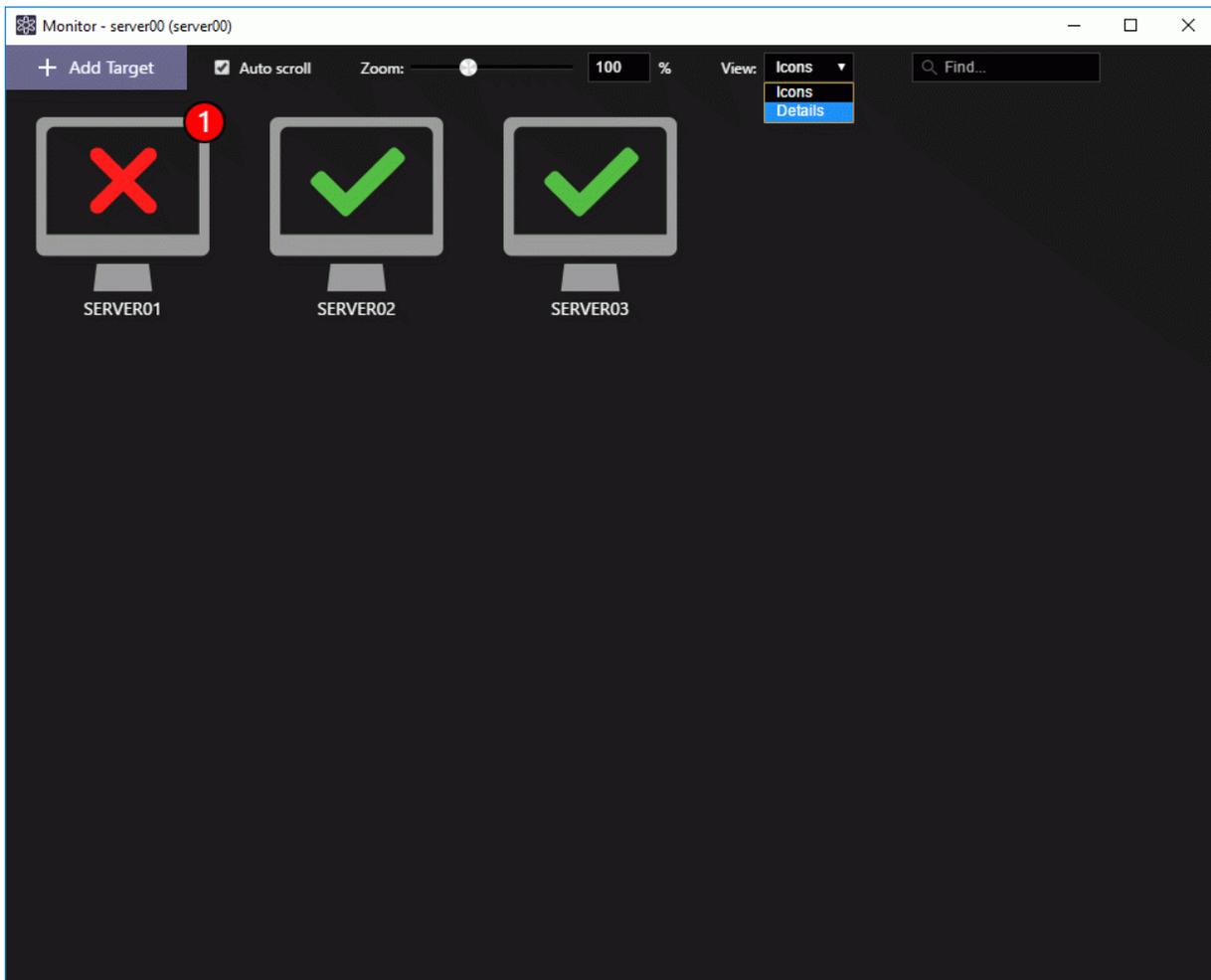


Fig. 4.22 [View] menu

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.

The only difference is that ActiveVisor Monitor enables the display of multiple managed clients in the same window.

Monitor - server00 (server00)

+ Add Target     Auto scroll    Zoom: 100 %    View: Details    Find...

---

**Host Name:**  
SERVER01

**Console User:**  
SERVER01\Administrator

**Domain:**  
WORKGROUP

**Ethernet 0**  
192.168.123.69/24

Client Status    Current Task    Task Logs    Tasks    Disk Info    Destination    Alerts

| Alert Start           | Alert End | Type         | Details                                   | Operations |
|-----------------------|-----------|--------------|---|------------|
| 9/13/2019 10:06:01 PM | N/A       | Backup & VSR | Backup error occurred in the last 1 days. |            |

---

**Host Name:**  
SERVER02

**Console User:**

**Domain:**  
WORKGROUP

**Ethernet 0**  
192.168.123.11/24

Client Status    Current Task    Task Logs    Tasks    Disk Info    Destination    Alerts

| Task ID        | Log ID     | Result  | Started              | Ended                | Details                             |
|----------------|------------|---------|----------------------|----------------------|-------------------------------------|
| Client Back... | 1568436669 | Success | 9/13/2019 9:51:09 PM | 9/13/2019 9:51:43 PM | Processed 0.02 GB in 00:00:33 ID... |
| Client Back... | 1568436097 | Success | 9/13/2019 9:41:37 PM | 9/13/2019 9:42:08 PM | Processed 0.02 GB in 00:00:31 ID... |
| Client Back... | 1568435676 | Success | 9/13/2019 9:34:37 PM | 9/13/2019 9:35:08 PM | Processed 0.02 GB in 00:00:31 ID... |
| Client Back... | 1568433900 | Success | 9/13/2019 9:05:01 PM | 9/13/2019 9:05:35 PM | Processed 0.03 GB in 00:00:33 ID... |
| Client Back... | 1568430300 | Success | 9/13/2019 8:05:01 PM | 9/13/2019 8:11:37 PM | Processed 11.10 GB in 00:06:35 L... |

---

**Host Name:**  
SERVER03

**Console User:**

**Domain:**  
WORKGROUP

**Ethernet 0**  
192.168.123.66/24

Client Status    Current Task    Task Logs    Tasks    Disk Info    Destination    Alerts

| Task          | Type   | Valid From           | Last Run Date/Time   | Next Run Date/Time   |
|---------------|--------|----------------------|----------------------|----------------------|
| Client Backup | Backup | 9/13/2019 7:59:00 PM | 9/13/2019 9:50:00 PM | 9/16/2019 9:00:00 AM |

Fig. 4.23 List window displays the status of managed clients (Details)

The Zoom feature allows you to zoom in and out of detail view.

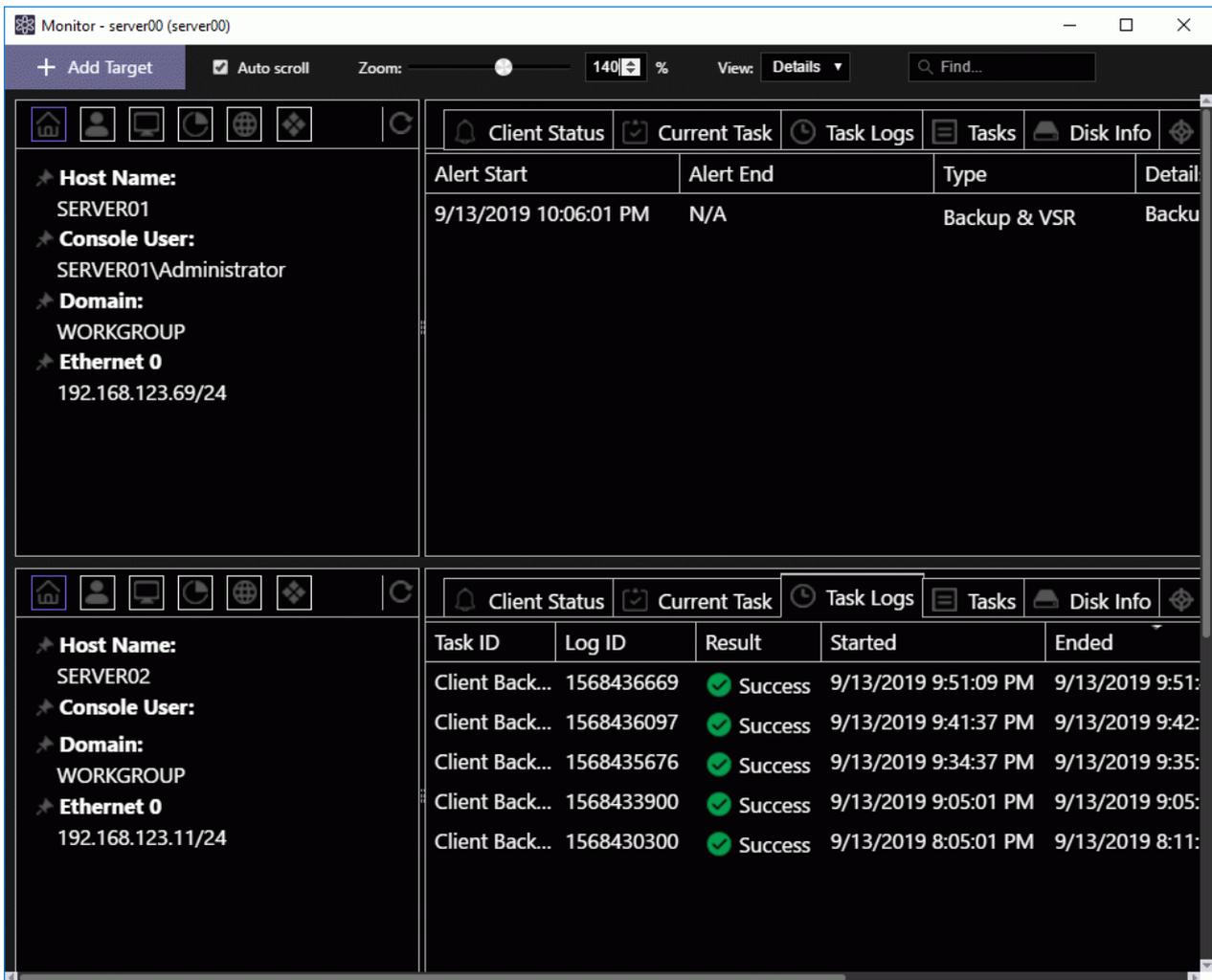


Fig. 4.24 Zoom up (Detail)

Right-click on an icon representing a client machine in the above Fig. 4.21 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 upper right of the [Client Status] tab (Fig. 4.23) to launch the [Client Settings Wizard].

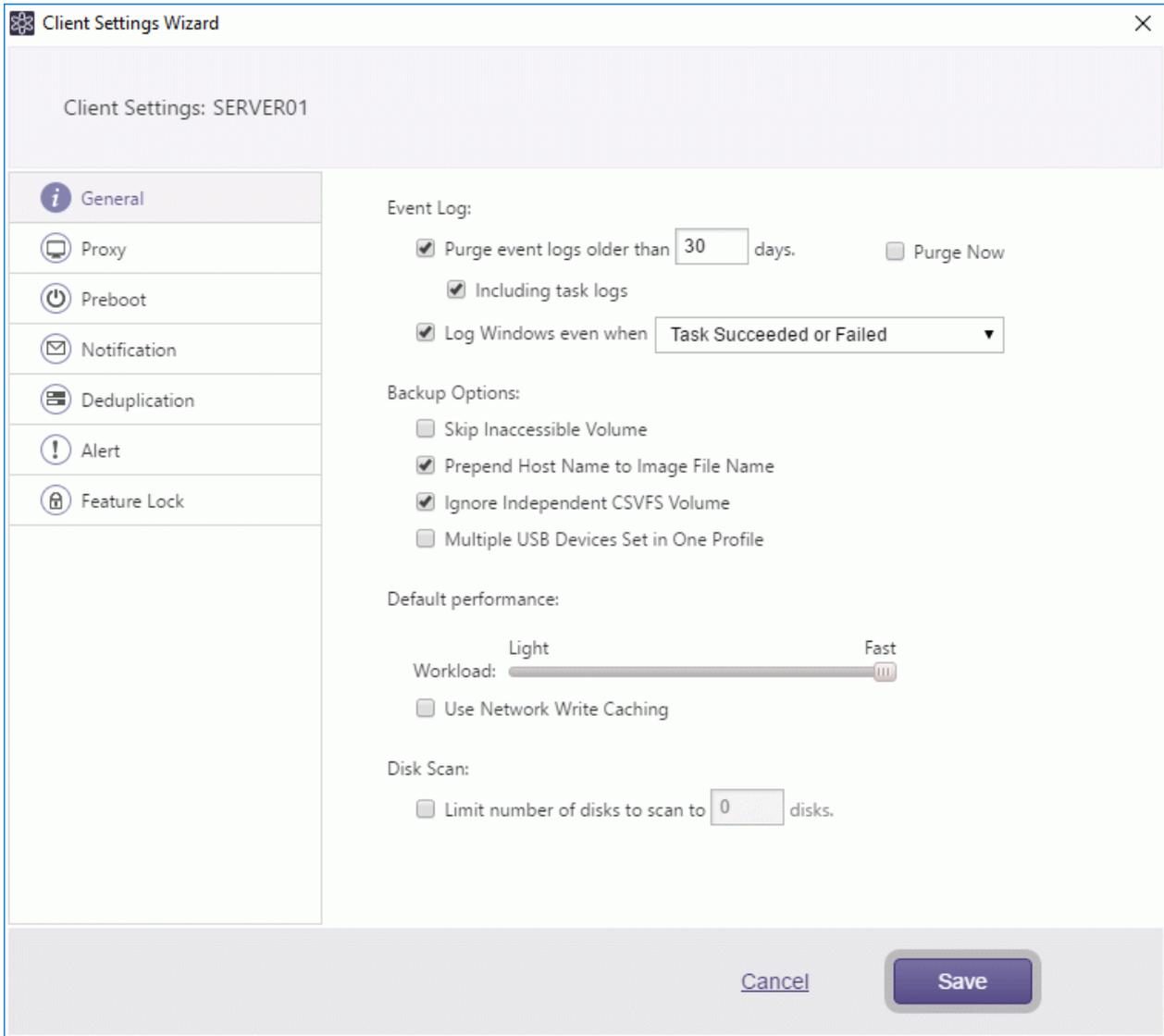


Fig. 4.25 Client Settings Wizard

You can configure the client settings here.

## 4.6 Management of Agentless Clients

ActiveImage Protector Version 5.1.4.5634 and the later versions provide Agentless Backup feature enabling to back up the virtual machines on hypervisor without the need for installing ActiveImage Protector agents on the virtual machines. ActiveVisor now provides the management tools for agentless clients.

After installation of ActiveVisor, first, client search starts. Entering proper information of a hypervisor, agentless clients (virtual machines for the backup source) are automatically found (Fig. 1.16). In the initial display, the clients are listed under [Unmanaged Clients], You need to move the clients to [Managed].

Right-click on a client on the list to display the context menu.

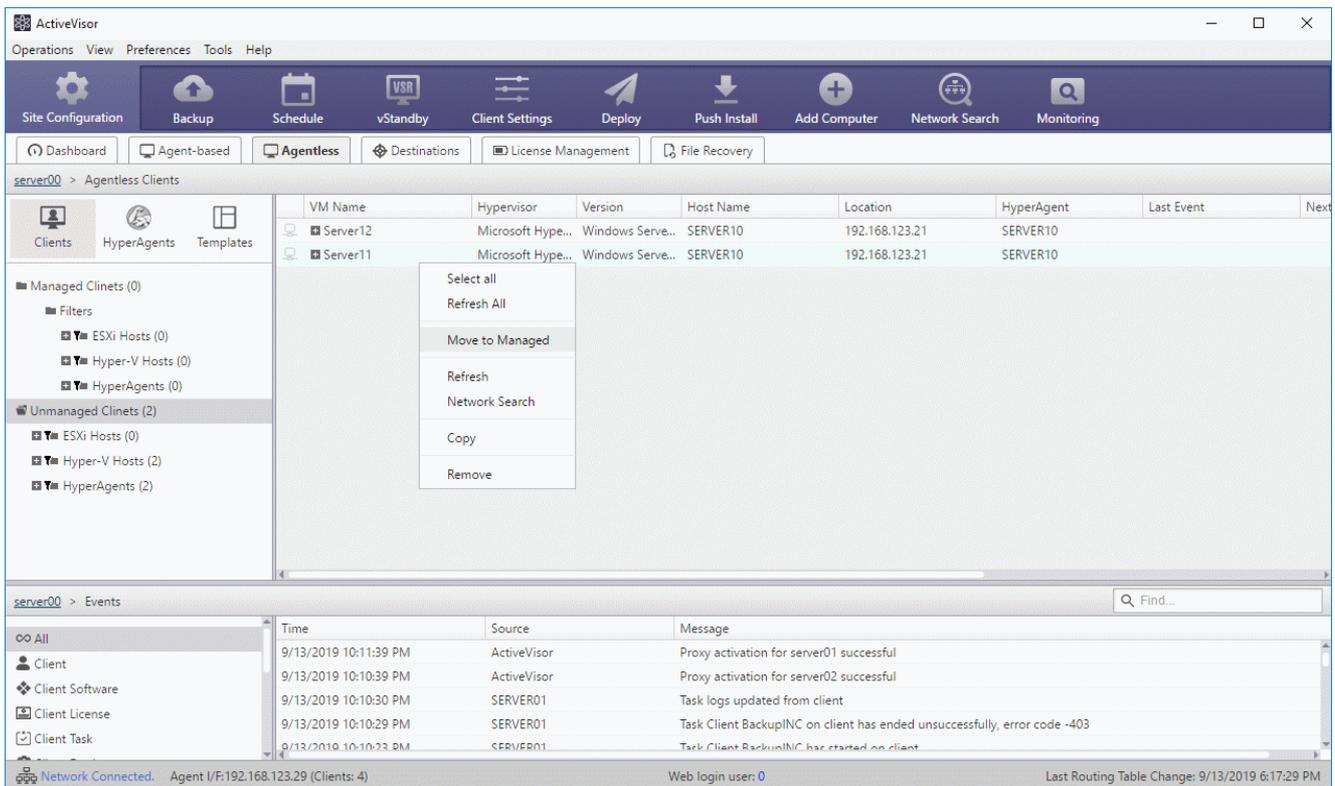


Fig. 4.26 Display the context menu

Select [Move to Managed] in the context menu. Move the remaining agentless clients to [Managed] in the same manner.

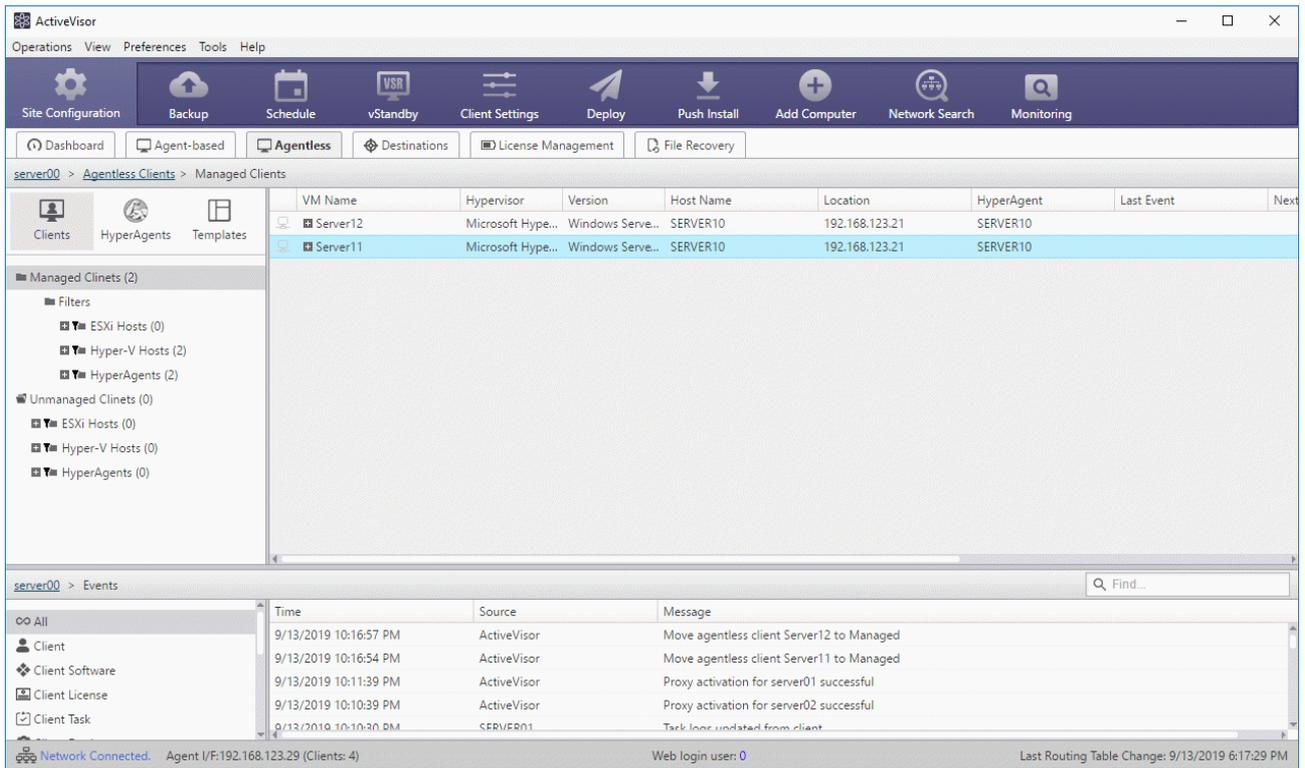


Fig. 4.27 Agentless clients moved to Managed

Right-click on an agentless client moved to [Managed] and the context menu is displayed as shown in Fig. 4.28.

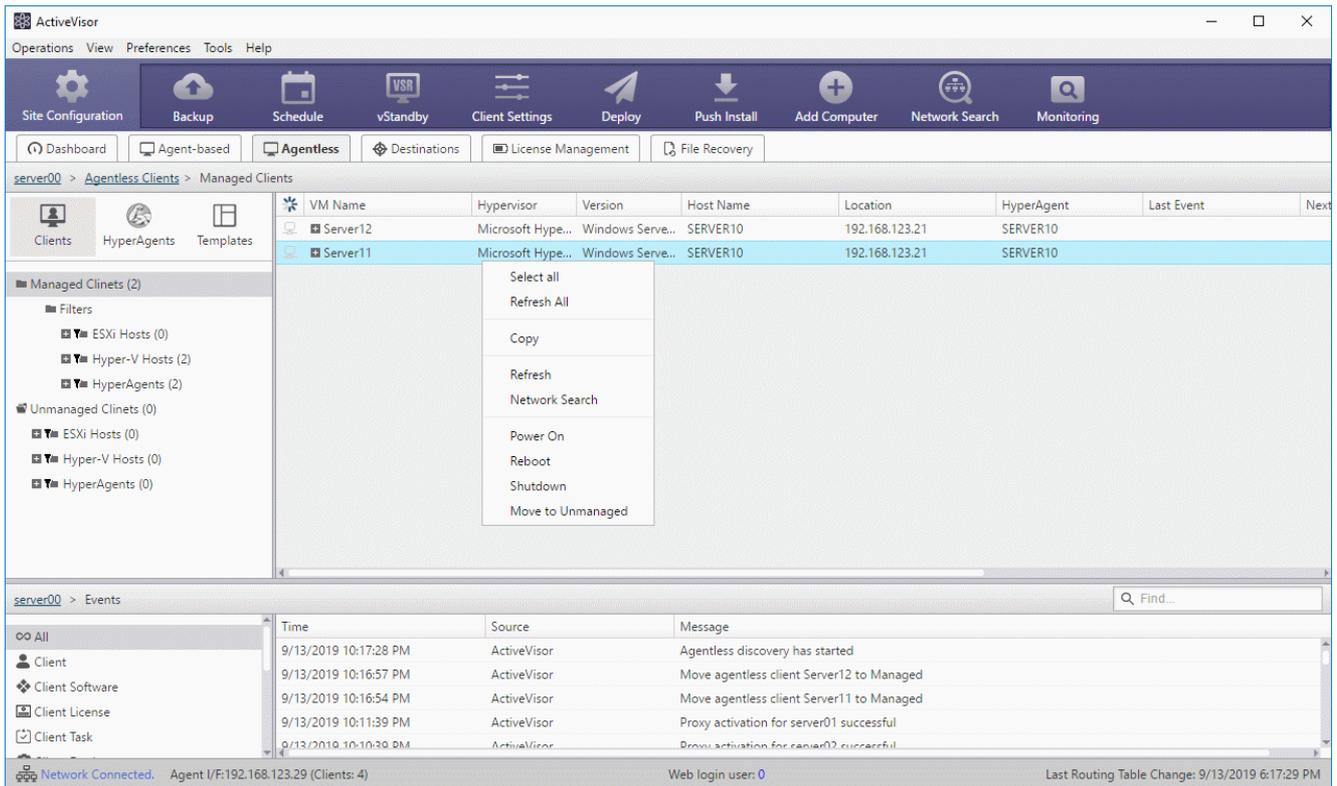


Fig. 4.28 Context menu displayed on managed agentless client

You can select the following commands from the context menu.

- Power-on
- Restart client's system
- Shut-down

With no backup agent installed on the client machine, backup command is not provided. Selecting [Shut-down], the specified agentless client will be shut down on hypervisor. You can monitor that [State] of the client machine is "Off" in Hyper-V Manager.

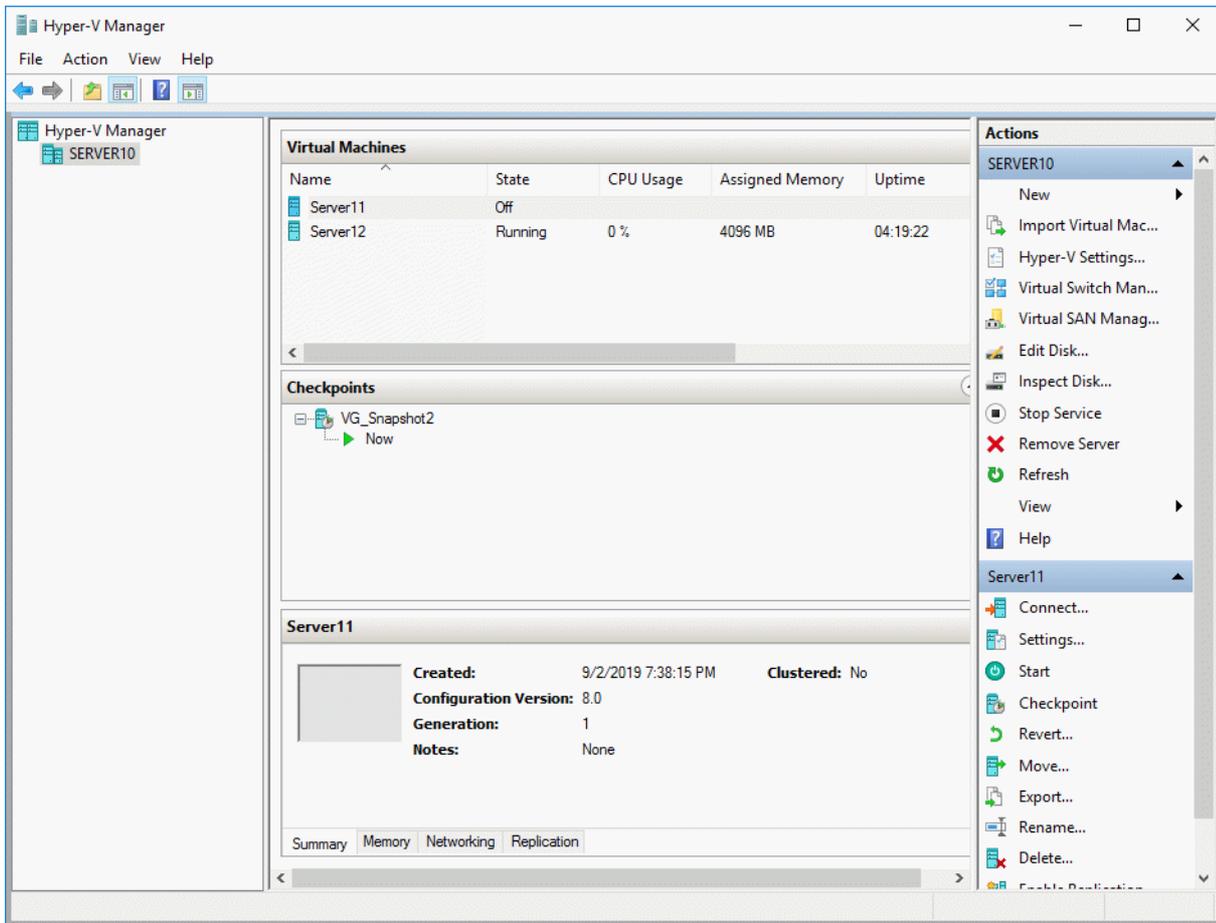


Fig. 4.29 Monitor [State] of the client machine in Hyper-V Manager

ActiveVisor provides Deploy Backup Task Template feature enabling you to create and deploy agentless backup task template to agentless clients to run.

Select [Backup] in the top menu and [Create Agent-less Backup Template].

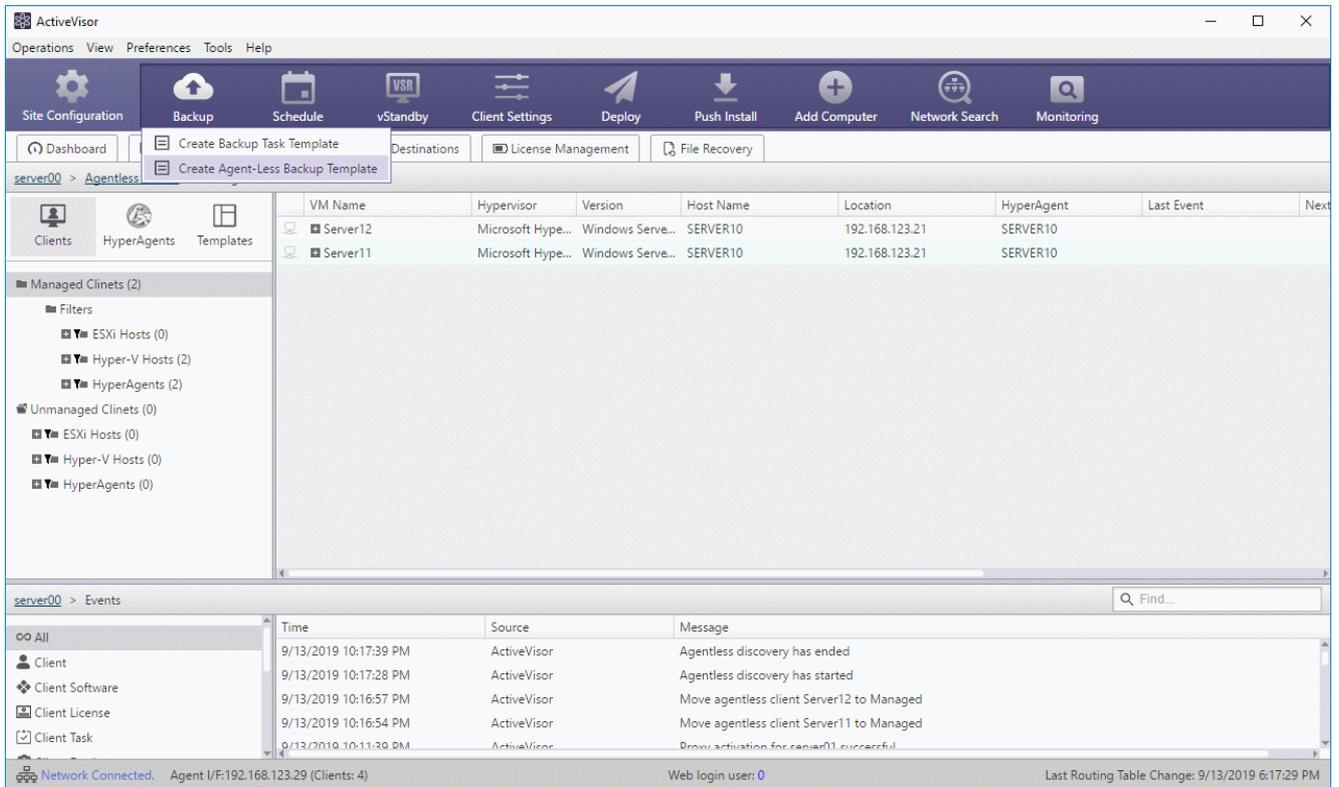


Fig. 4.30 Select [Create Agent-less Backup Template]

Agent-less Backup Template Wizard is launched.

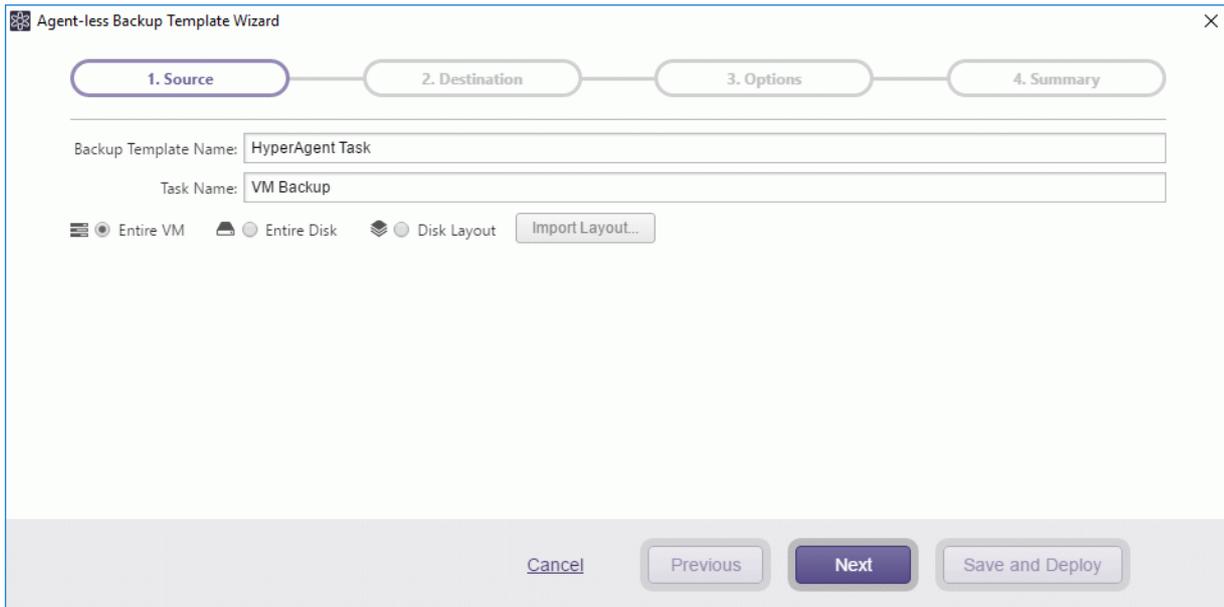


Fig. 4.31 Agent-less Backup Template Wizard

First, you need to specify a backup source. Please select [Entire Disk], [Volume] or [Disk Layout]. As to backup of agentless client, you are recommended to [Entire Disk] to include the host environment in backup source. You need to specify the template name and task name (did not change the default setting).

Second, please specify the destination.

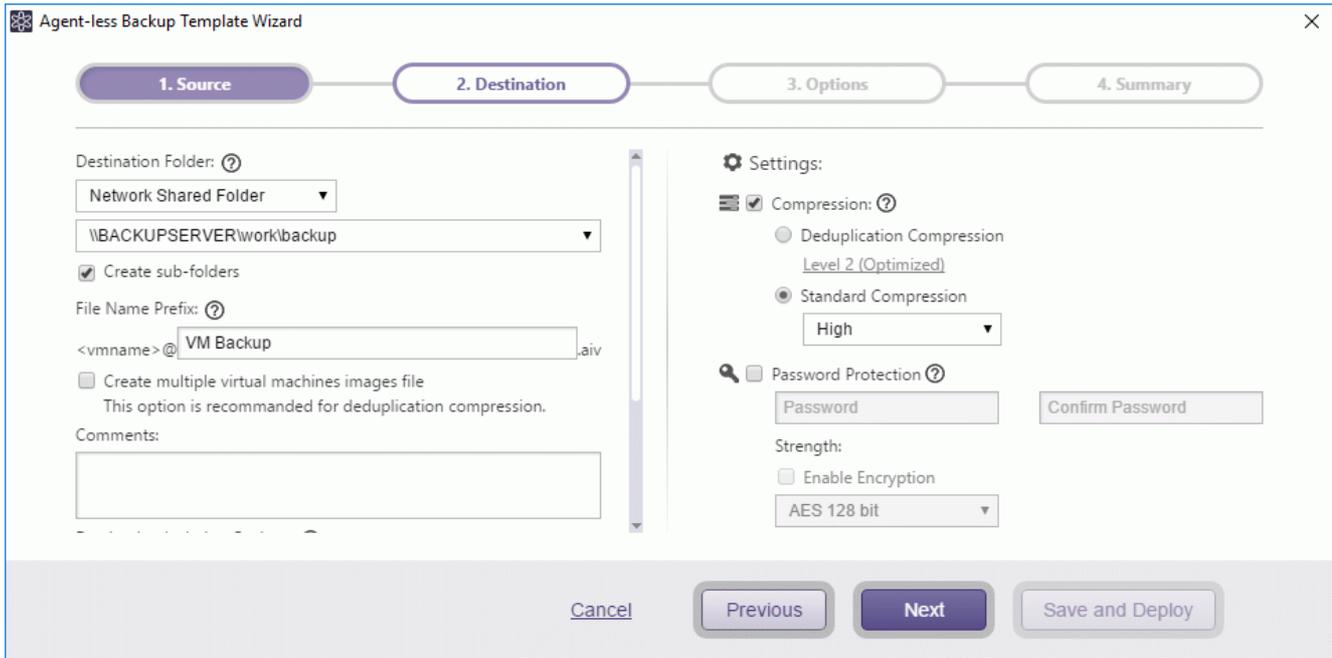


Fig. 4.32 Configure Destination Setting

Select a destination storage for saving the backup image files. Please configure the setting in the same manner as backup setting for agent-based client including [Destination Folder], [Settings], and Destination Isolation Option, if necessary.

Next, please configure the option settings.

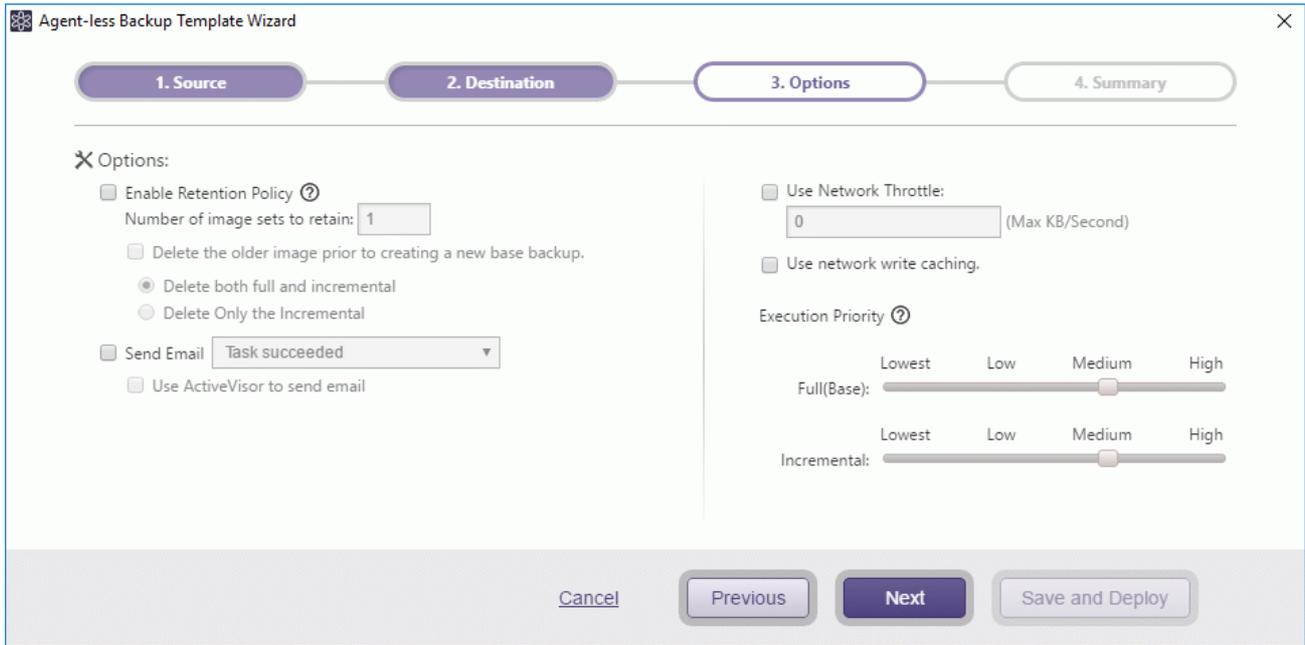


Fig. 4.33 [Options] setting

Please configure the option settings for Retention Policy, Task Execution Priority, etc. Again, you can configure the setting in the same manner as backup setting for agent-based client.

Use the Summary window to review the backup configuration and options.

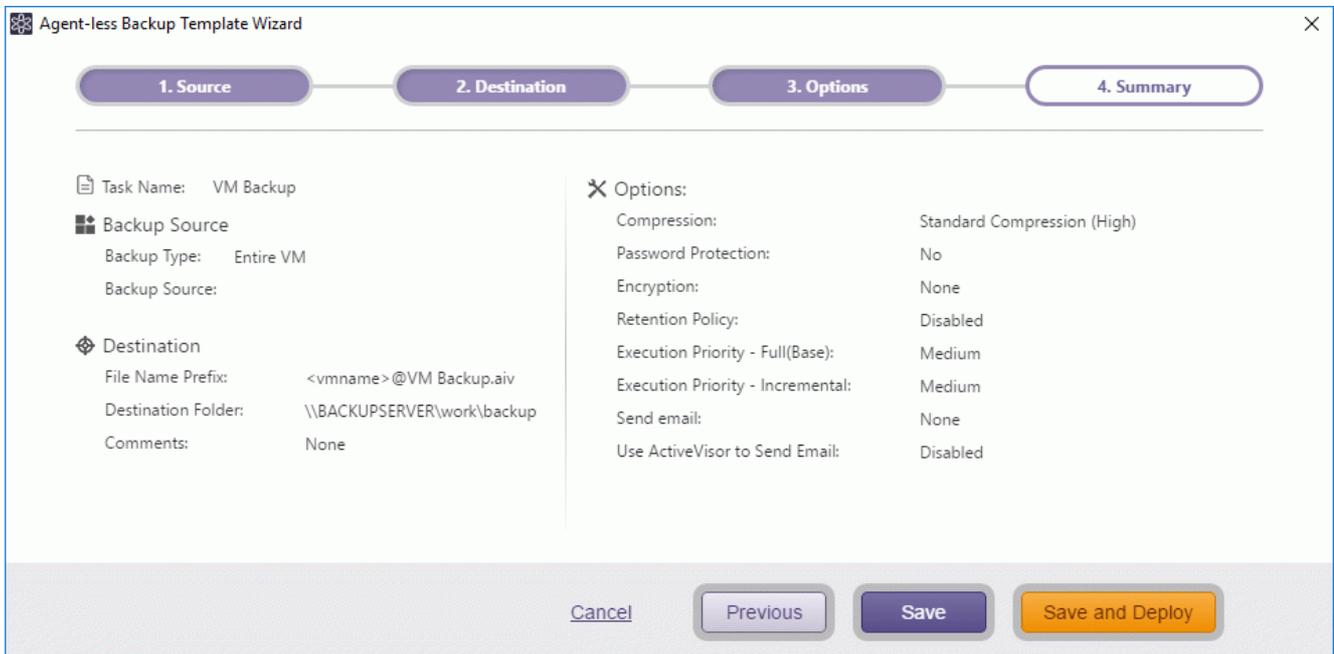


Fig. 4.34 Summary window

Click [Save] to save the template. Please make sure the agentless backup template is created by selecting [Template] in [Agentless] tab.

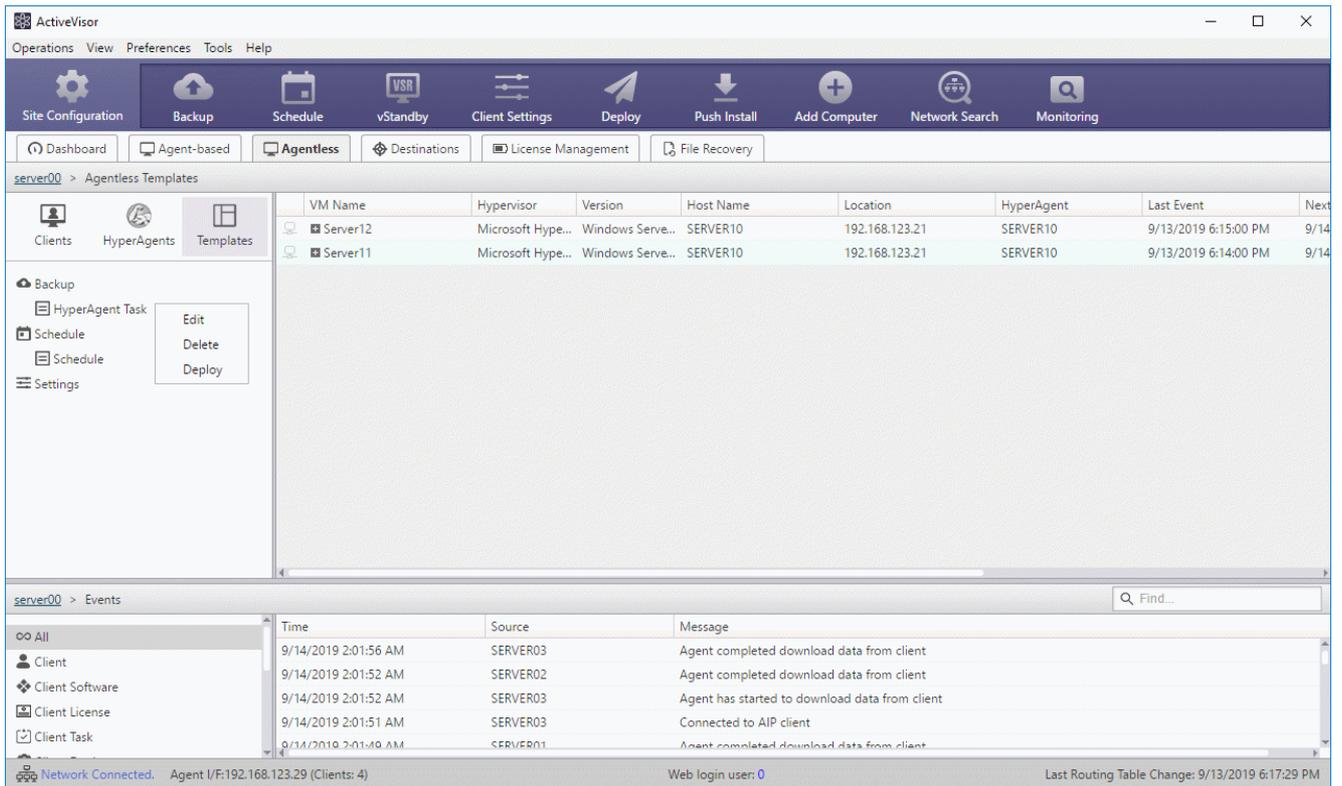


Fig. 4.35 Check for the created template in [Template]

You can check the schedules in [Schedule]. These are the schedules created for agent-based backup (ref. “3.1 Create Backup Schedule”.) If necessary, please create a schedule for agentless backup (in this example, the schedule for agent-based backup will be used.)

Next, deploy the created backup task and schedule template to agentless clients. Please select [Deploy] in the top menu and [Agentless Backup].

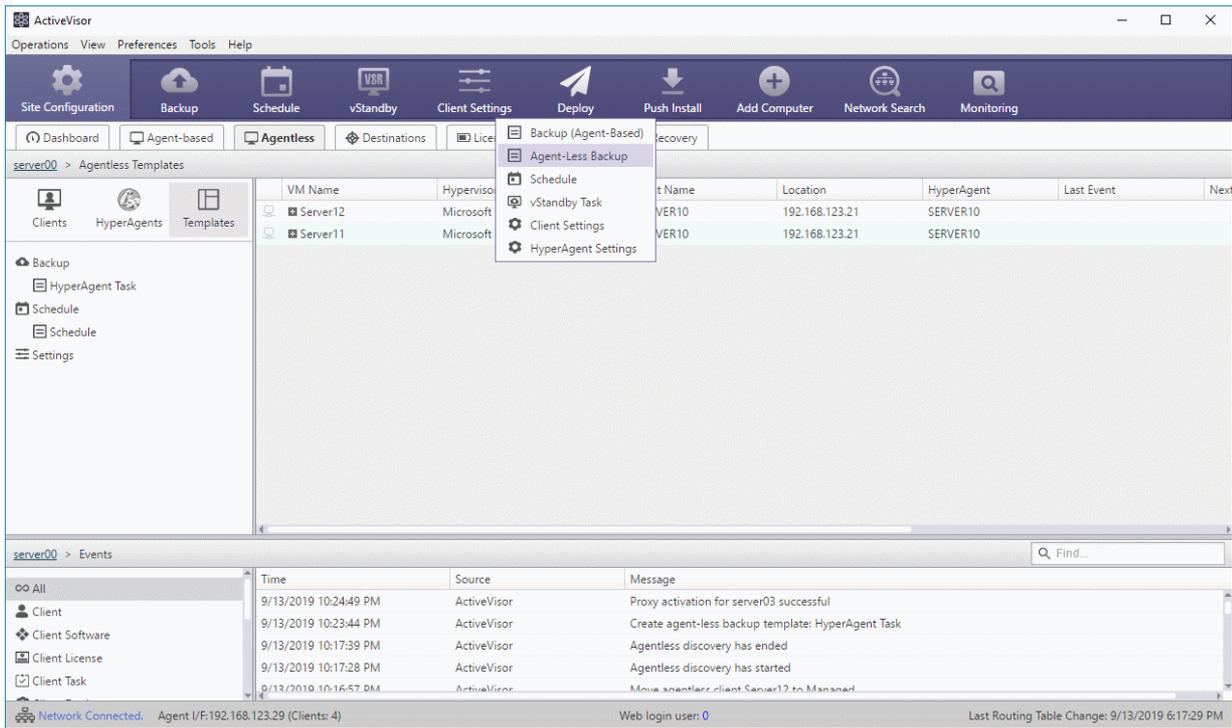


Fig. 4.36 [Deploy] menu

Please enter “HyperAgent Task” for the backup template and “Schedule” for the schedule template. In [Target Host and VMs] at the lower left, currently registered hosts (hypervisors) and the virtual machines are listed. In this example, select [SERVER10] host, [Server12] and [Server11] virtual machines, click [>] to copy them to [Selected Hosts and VMs].

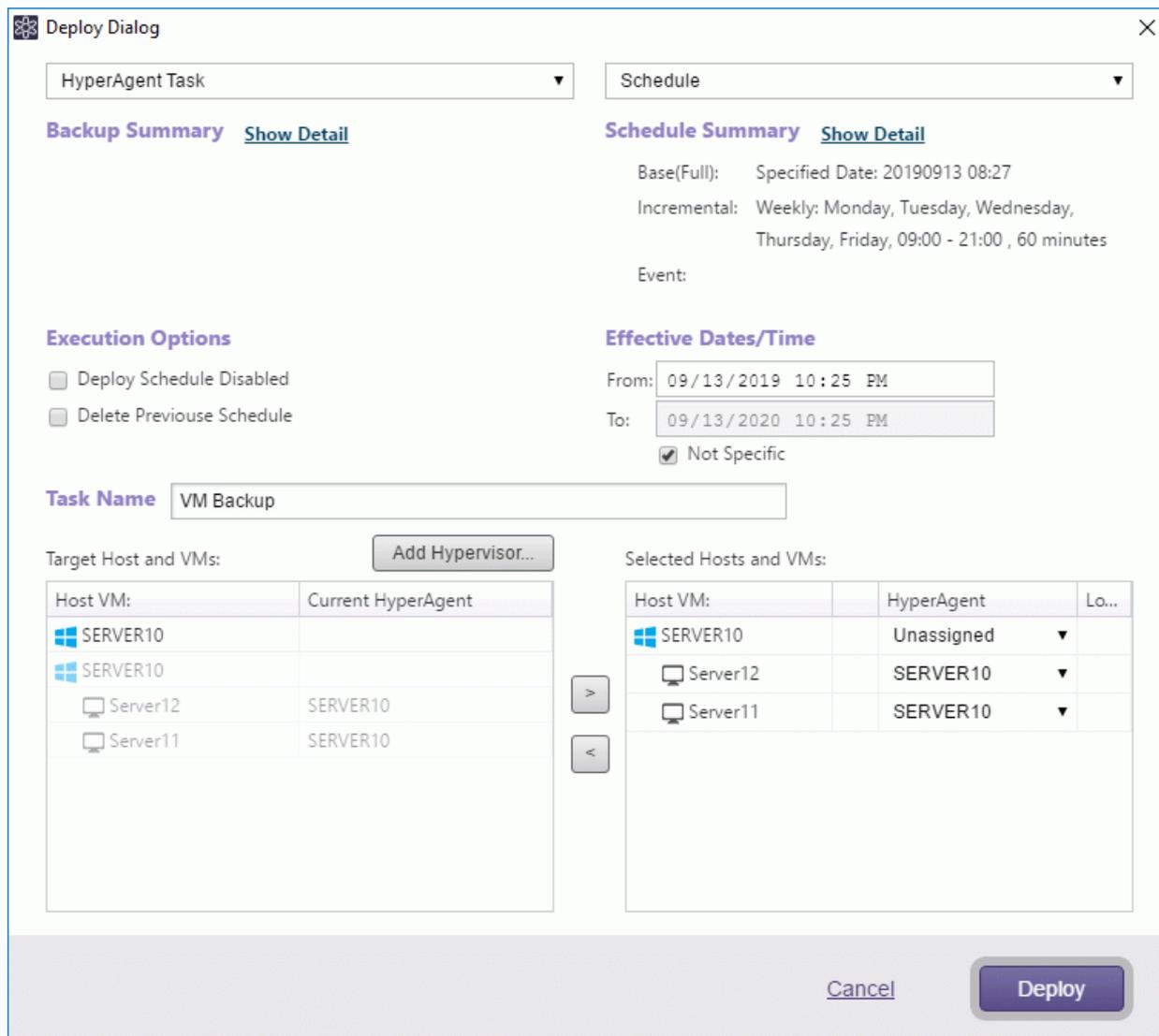


Fig. 4.37 Deploy template to agentless client

Click [Deploy] to deploy the backup task and the schedule templates.

Now, you are ready to manage backup of agentless clients from ActiveVisor.

Let's select [Deploy] in the top menu and [HyperAgent Settings].

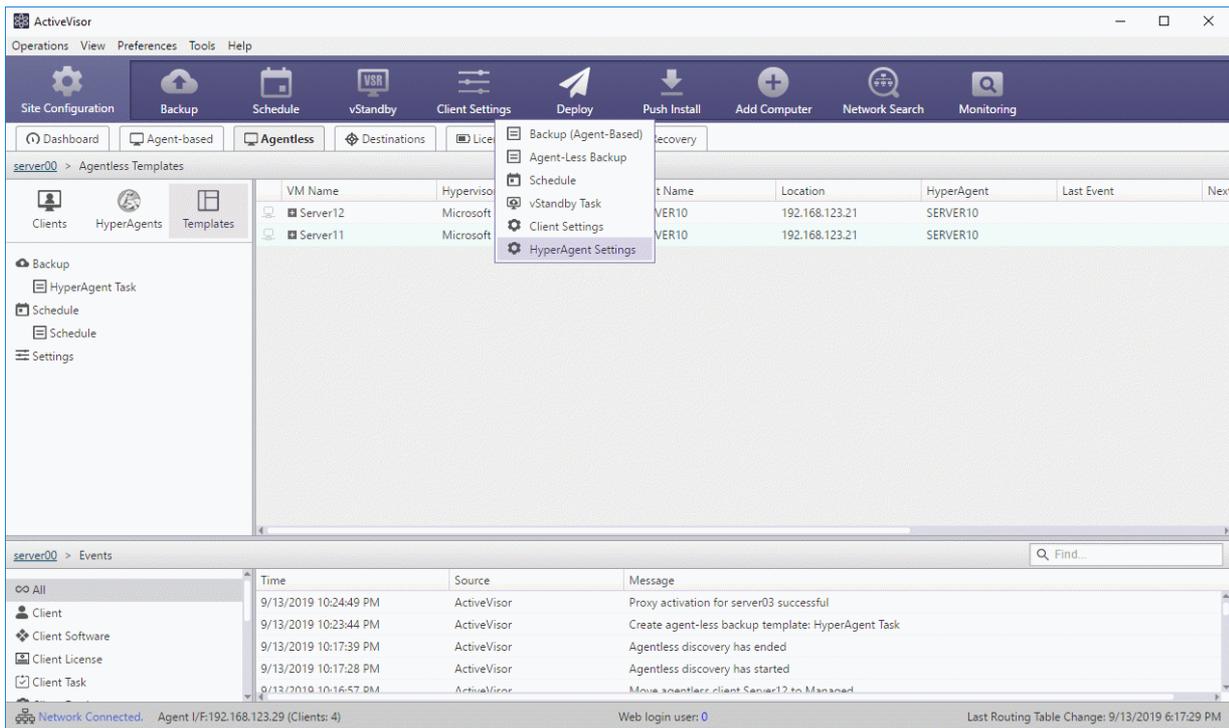


Fig. 4.38 [HyperAgent Settings] in [Deploy] menu

ActiveVisor provides [HyperAgent Settings] feature enabling you to configure ActiveImage Protector HyperAgent settings for agentless backup.

Selecting [HyperAgent Settings], [Deploy Dialog] is displayed as follows.

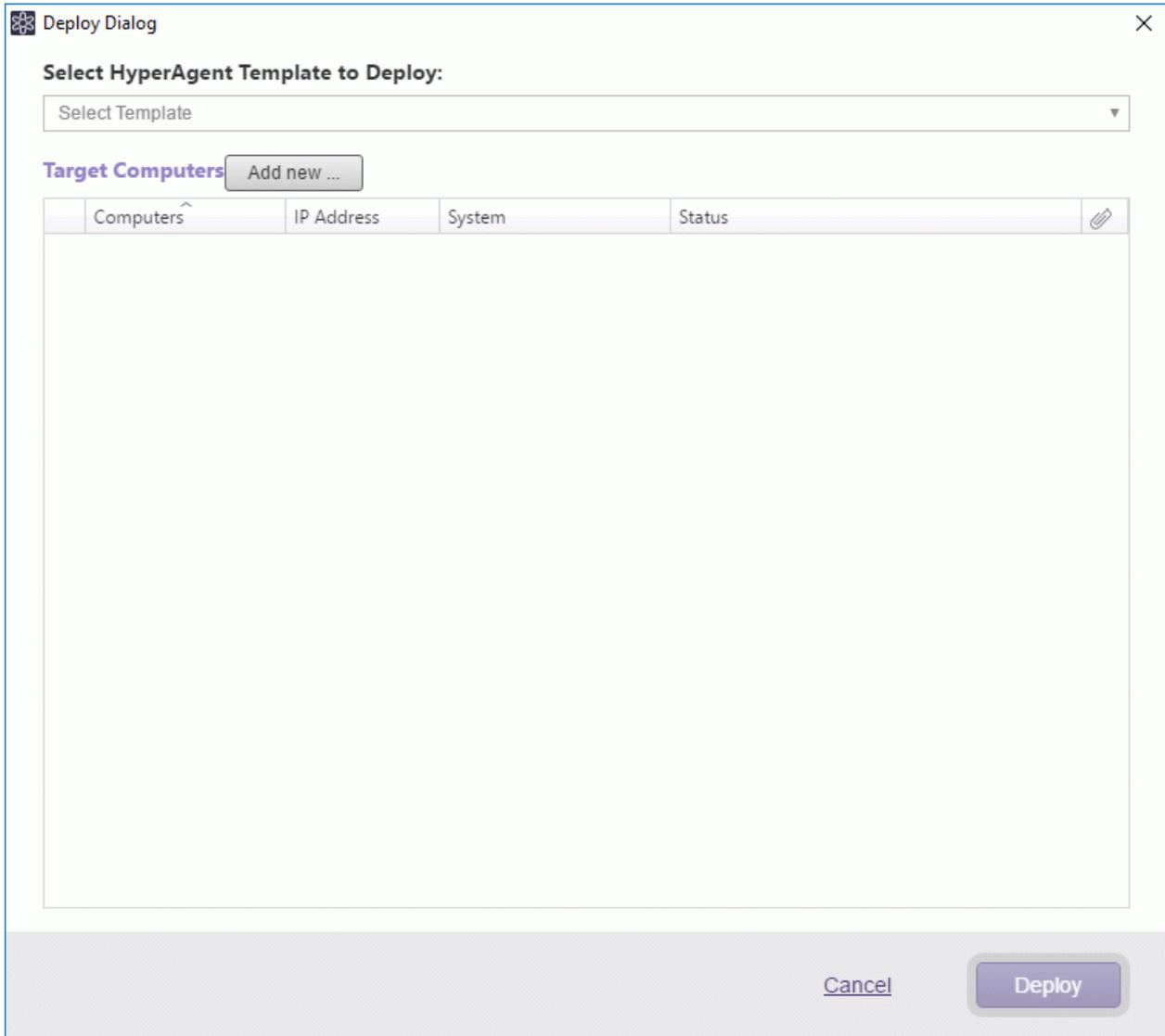


Fig. 4.39 [Deploy Dialog]

Click [▼] to the right of [Select Template] and the pull-down menu is displayed. Please select [Add New].

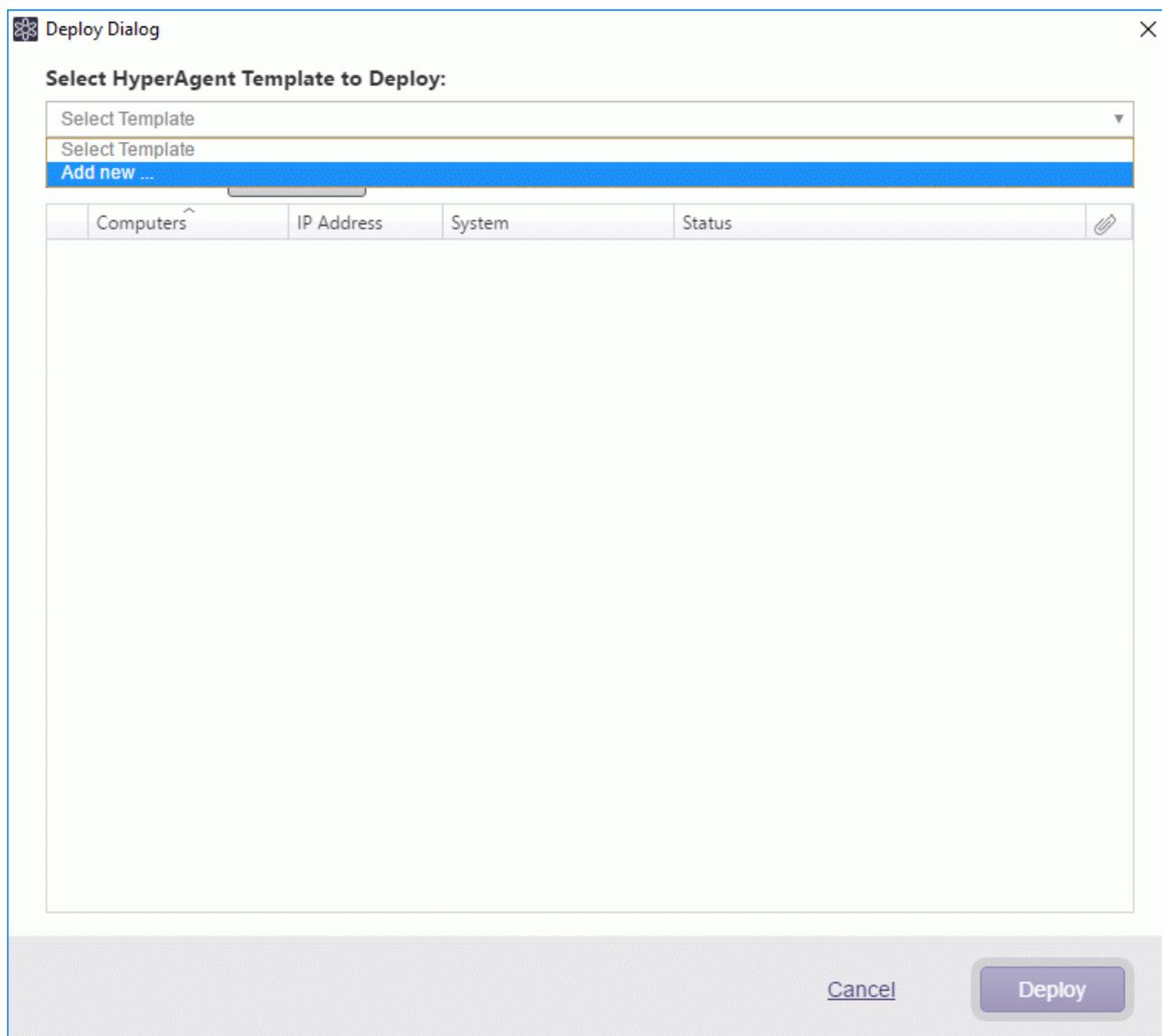


Fig. 4.40 Select [Add New]

[HyperAgent Setting Wizard] is launched.

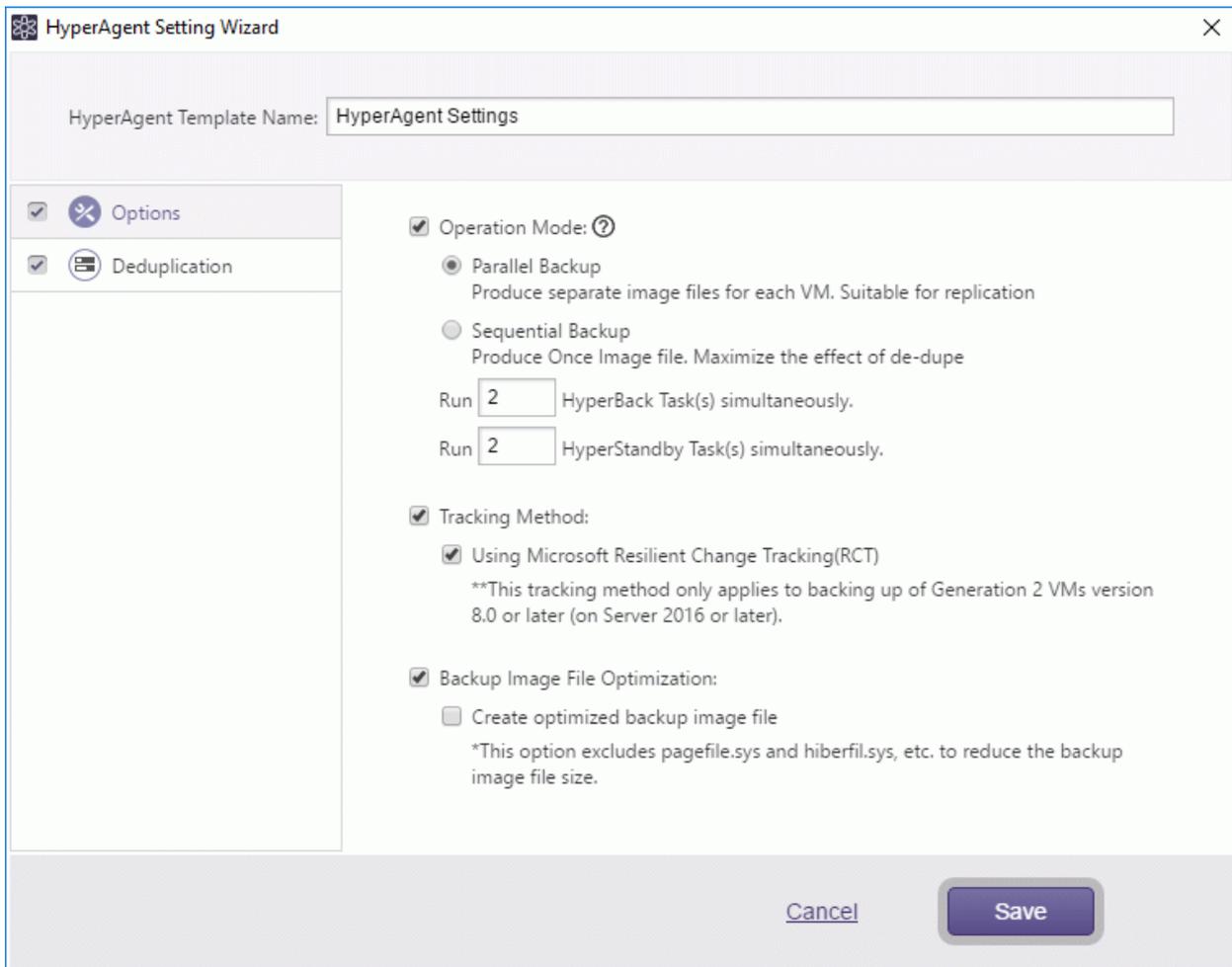


Fig. 4.41 [HyperAgent Setting Wizard]

Click the preceding checkboxes and the setting items become active. [Options] settings include [Operation Mode], [Tracking Method] and [Backup Image File Optimization].

[Deduplication] includes the settings regarding the temporary file folder.

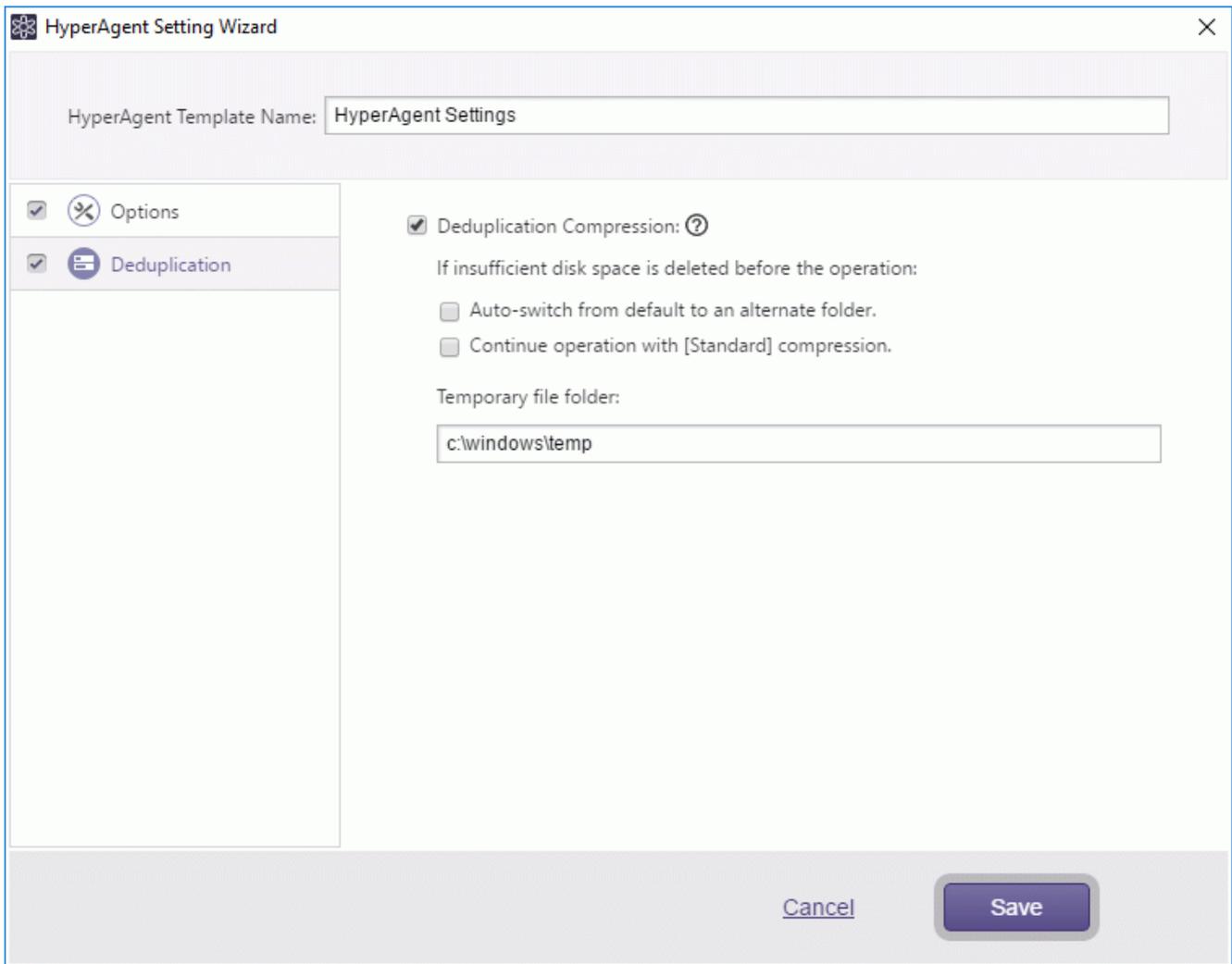


Fig. 4.42 [Deduplication]

Please review the configured settings and click [Save] to save the created template under the specified name (in this example, the default settings are not changed.)

The saved template is shown in [Template] in ActiveVisor. You can edit or delete the configured setting in this dialog.

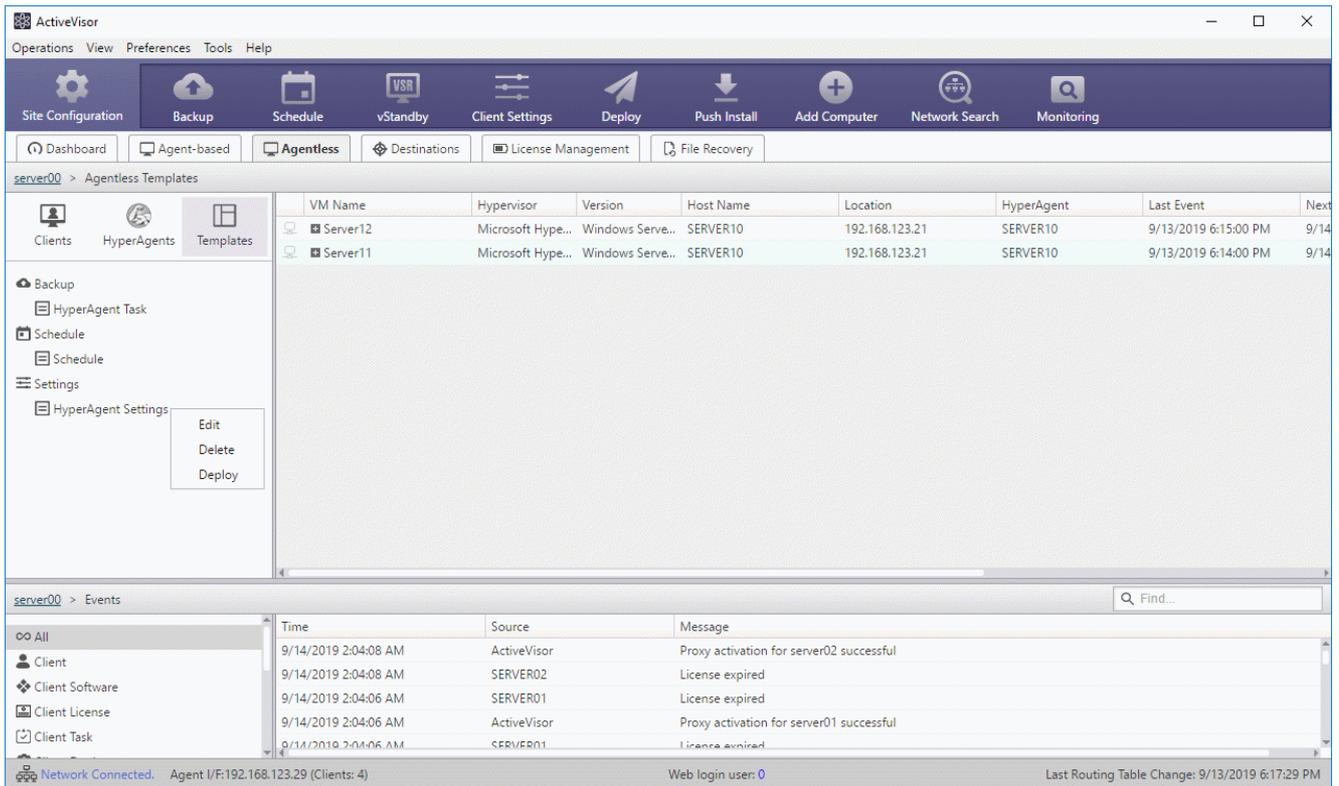


Fig. 4.43 Saved Templates

Select [HyperAgent Settings] in [Deploy] menu. Select “HyperAgent Setting” for the template to deploy.

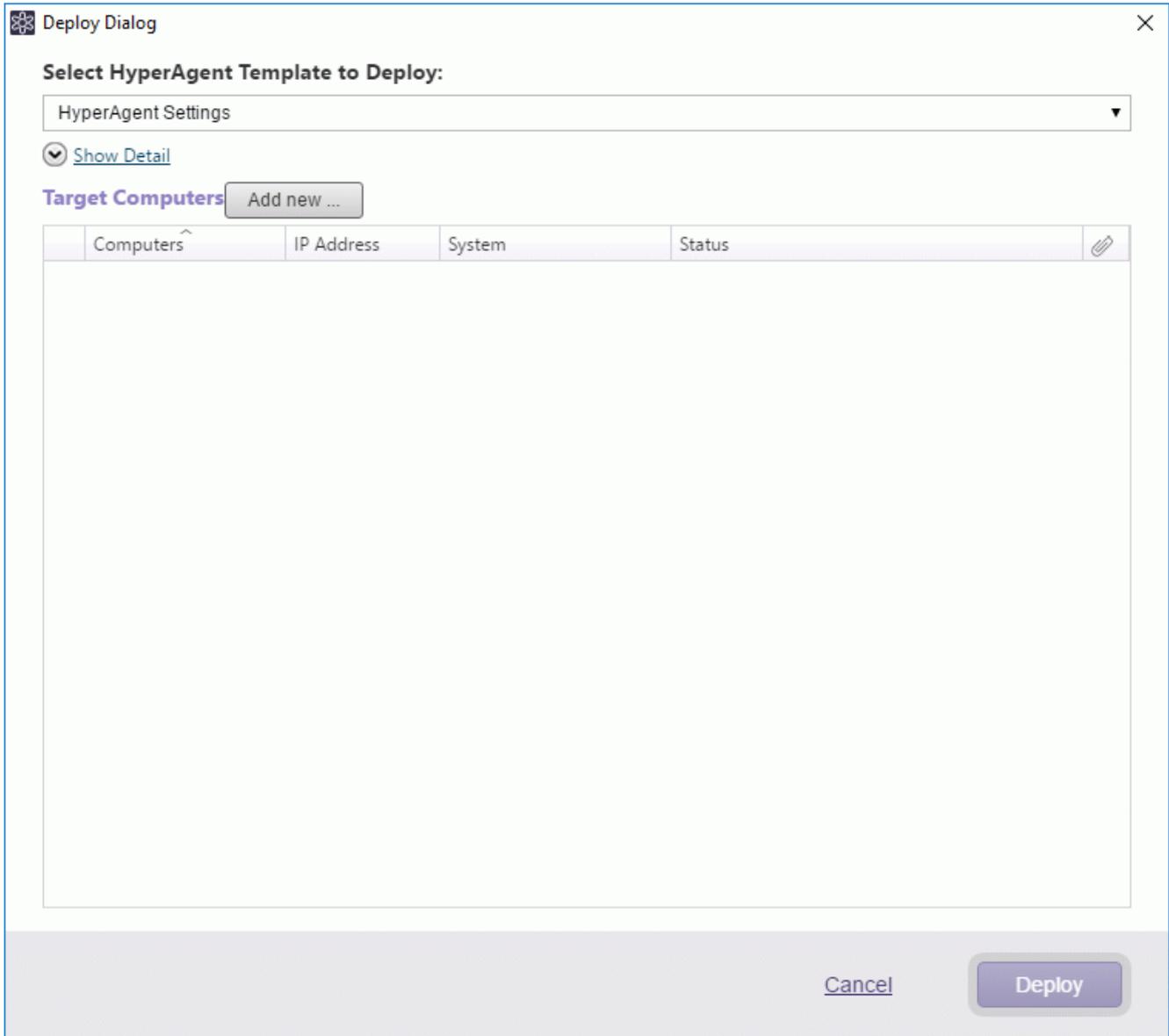


Fig. 4.44 Select “HyperAgent Setting” template

Click [Add New] to specify the computer which ActiveImage Protector HyperAgent runs to manage agentless backup.

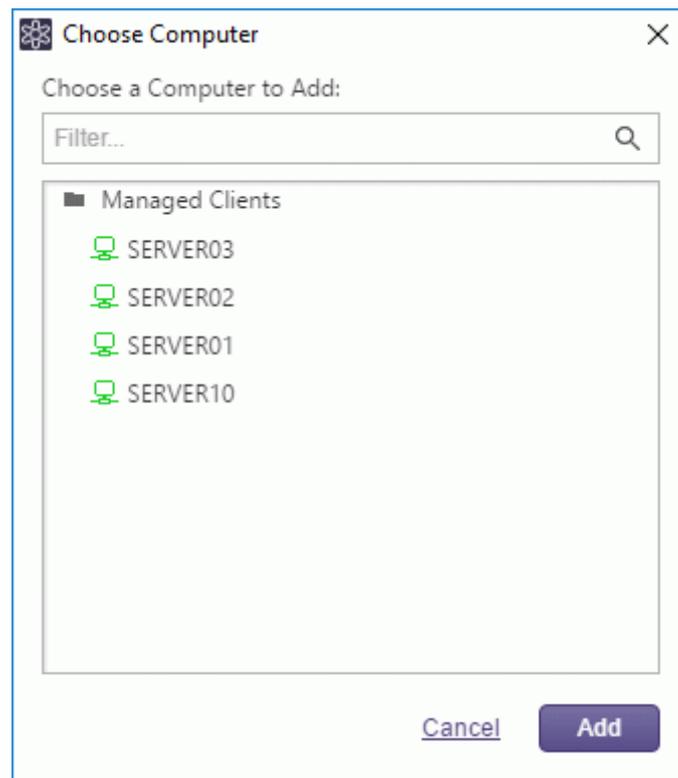


Fig. 4.45 Select Computer to add

As you have completed the settings, click [Deploy].

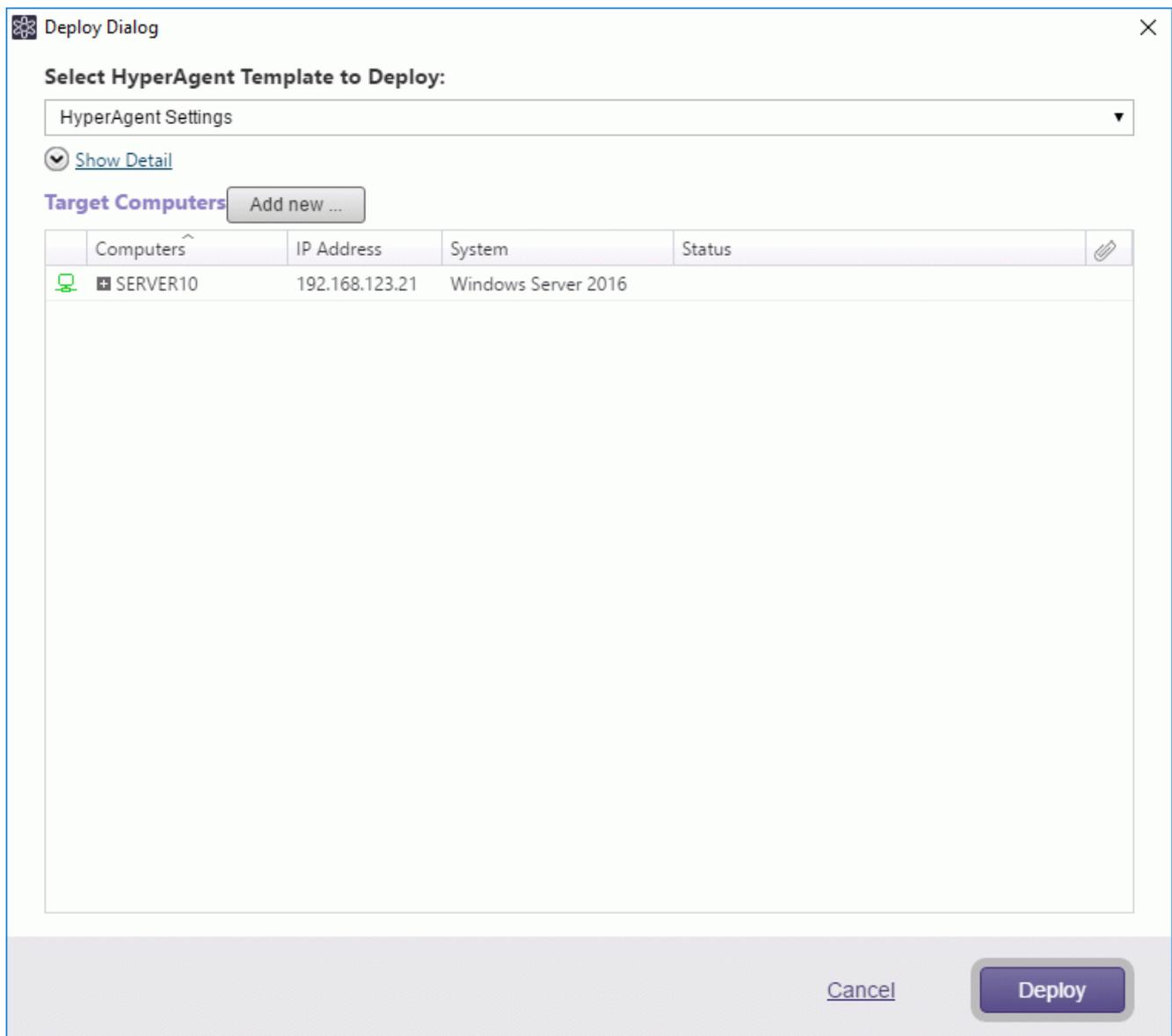


Fig. 4.46 Deploy the template to the target computer

Upon completion of the Deploy template, the icon indicated in [Status] column turns green and [Successful] is indicated. Click [Close] to end.

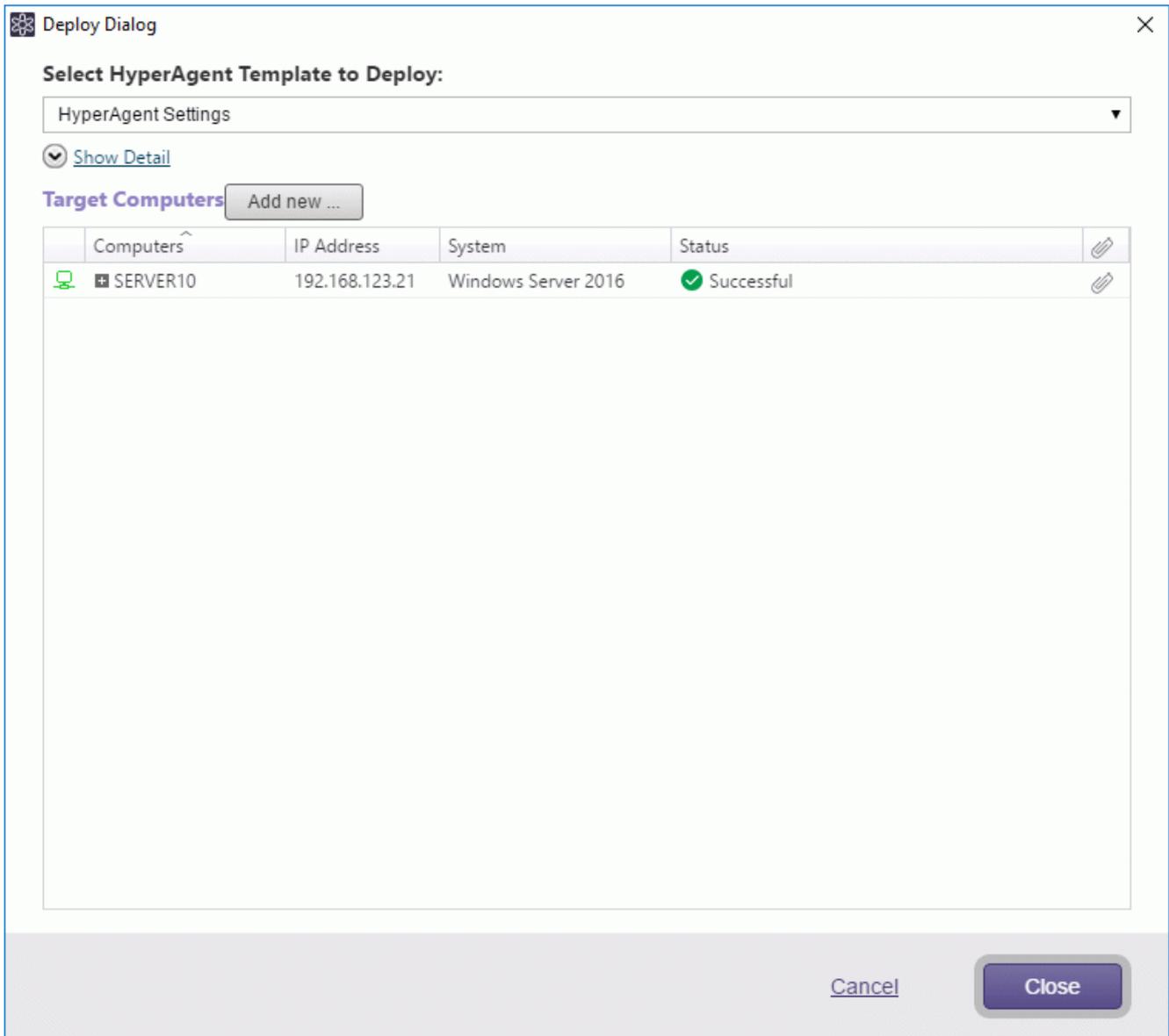


Fig. 4.47 Deploy successfully completed

Comparing with the management of agent-based clients, there are not so many setting items for backup management of agentless clients. You will find it convenient if the computer which hypervisor runs on is located at remote site, as ActiveVisor provides easy-use backup management and maintenance tools.

## 4.7 ActiveVisor File Recovery

ActiveVisor provides File Recovery feature to restore a specific file or folder from an ActiveImage Protector backup image 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. 4.47.

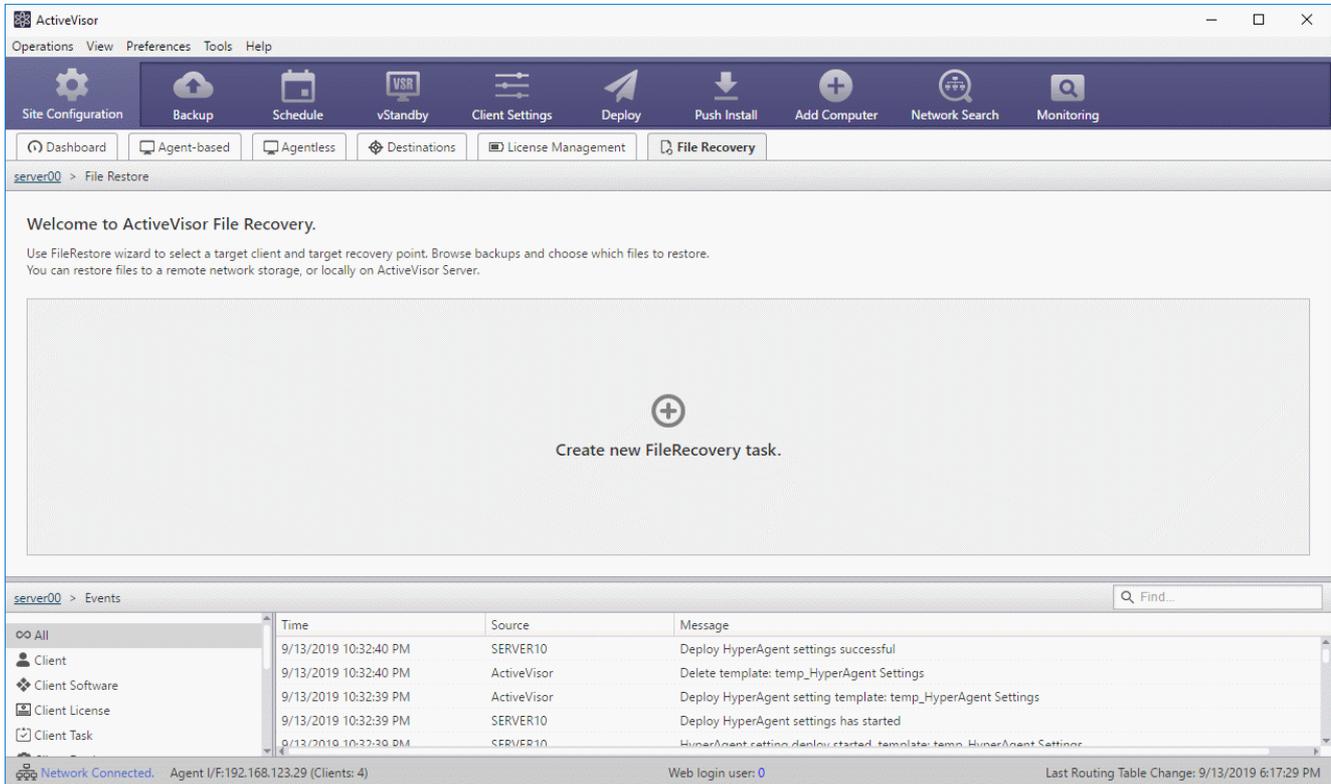


Fig. 4.48 [File Recovery] tab

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.

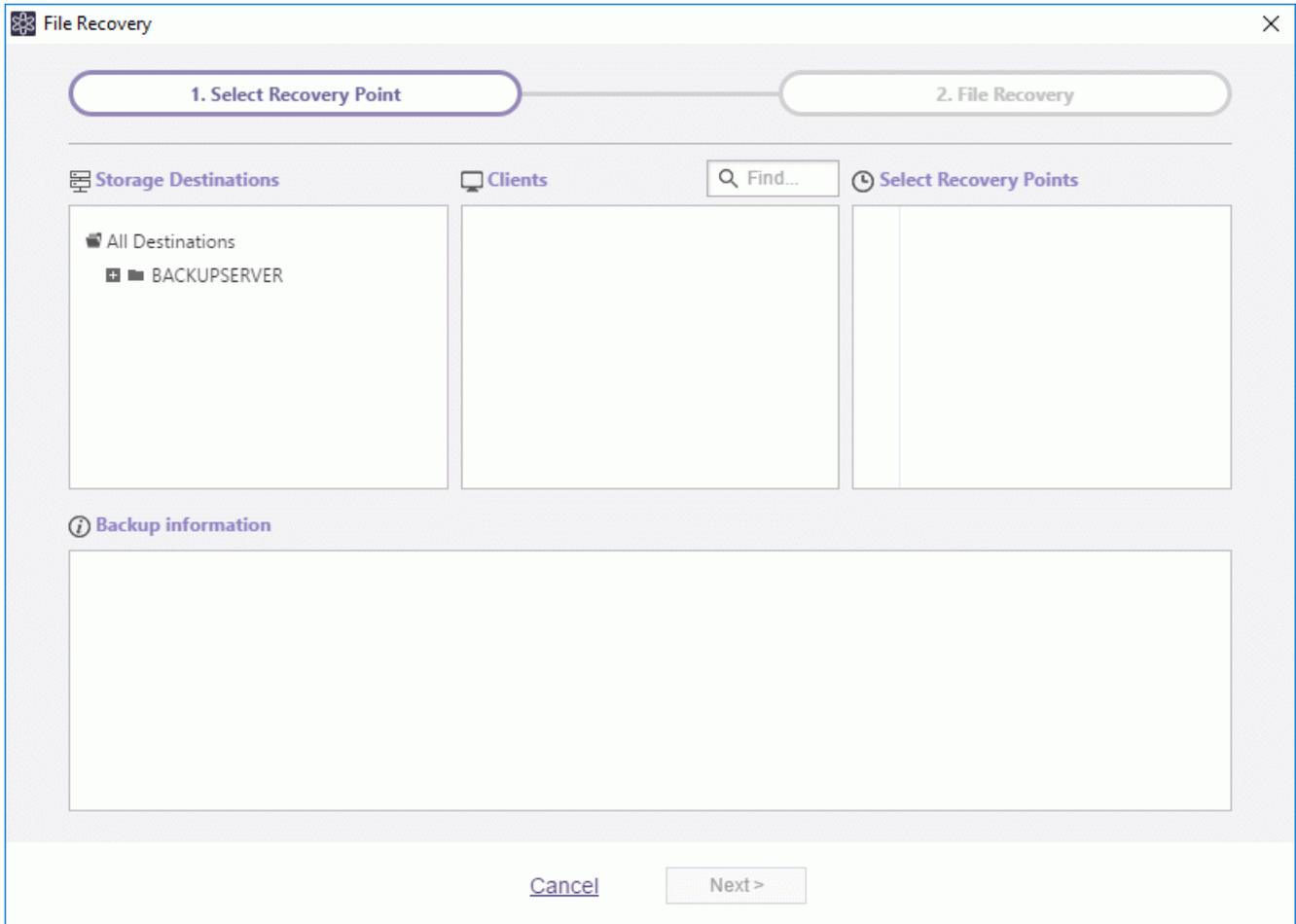


Fig. 4.49 [File Recovery] wizard

The [Storage Destination] is automatically registered.

Now, you need to configure the target client and the recovery point.

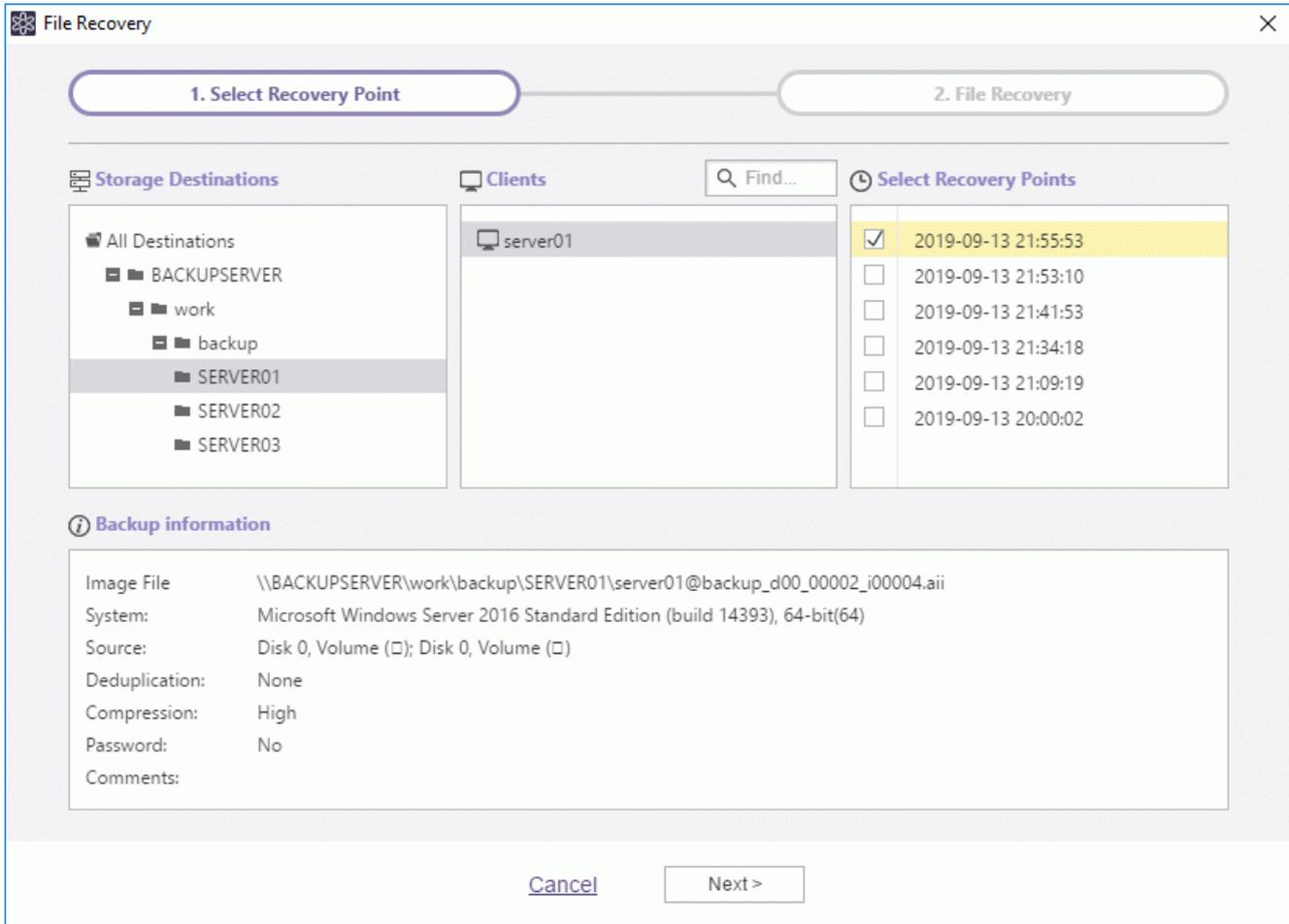


Fig. 4.50 Select Recovery Point

Backup information is provided in the lower pane.

Click [Next] to mount the recovery point.

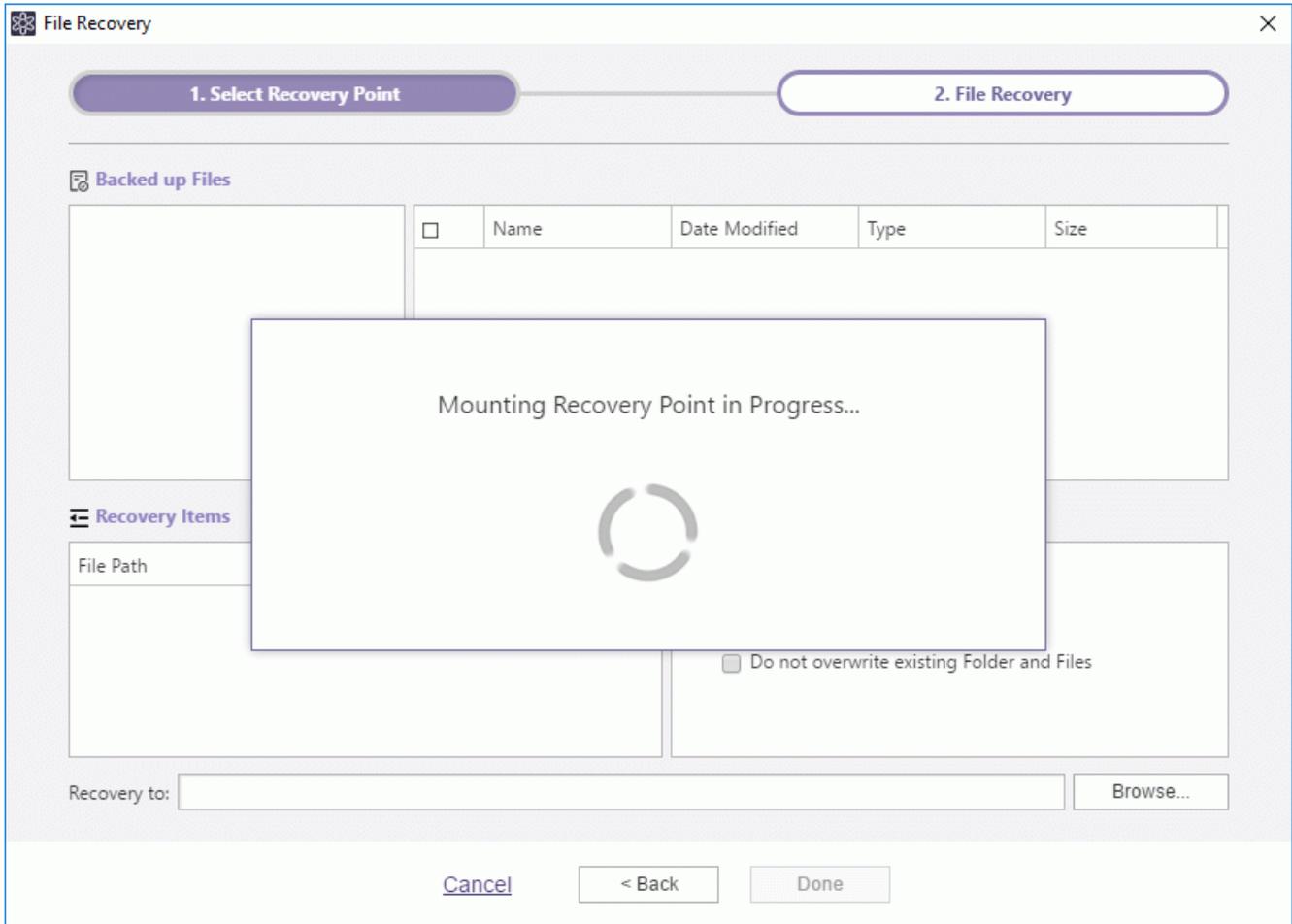


Fig. 4.51 Mount Recovery Point

Select the source backup file to restore a file / folder from.

The backup file is mounted in the file/folder structure (mostly the same manner as ActiveImage Protector Mount Backup Image feature.)

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

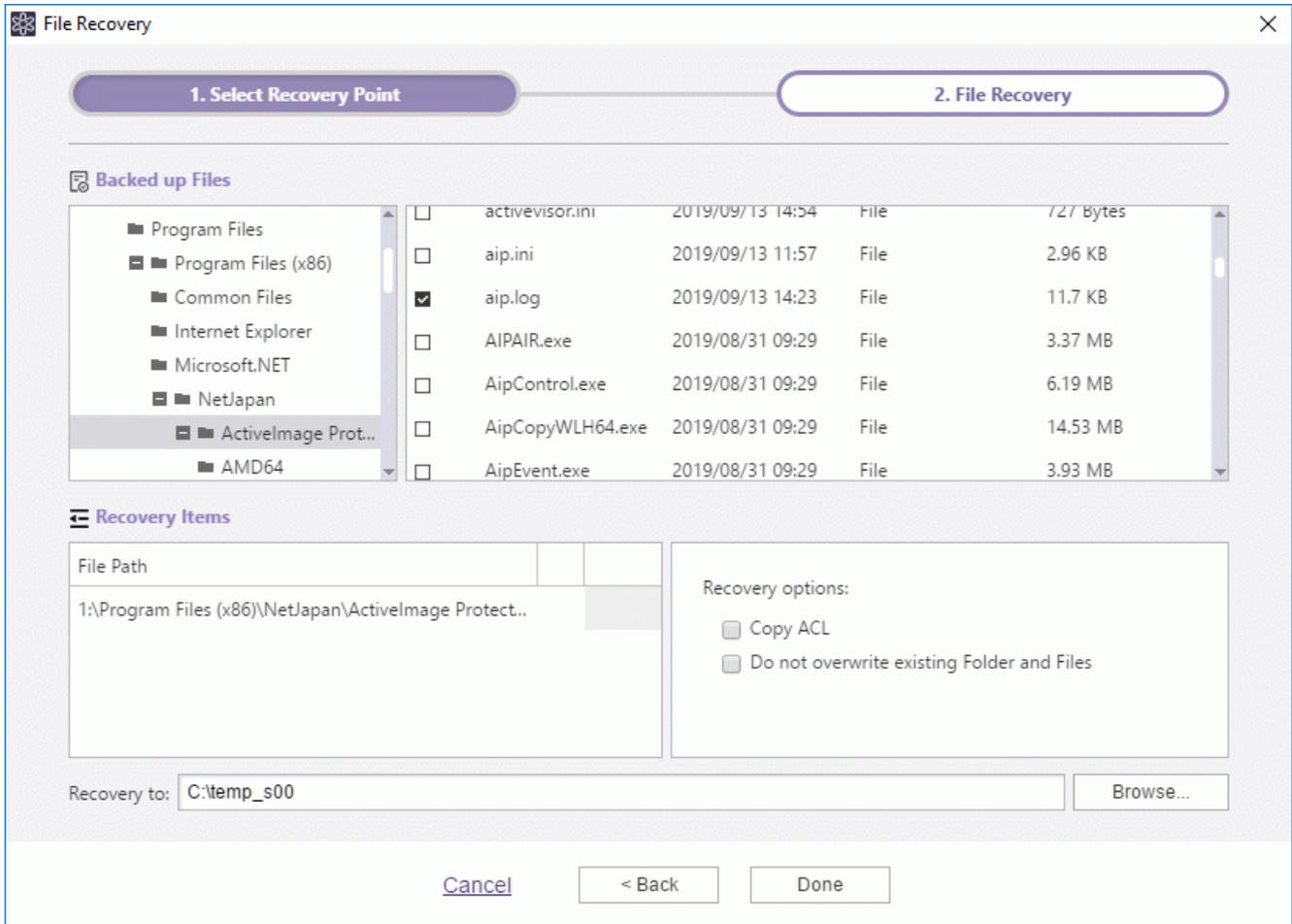


Fig. 4.52 Select a source file and the restore destination

Click [Done] to start the File Recovery process and the task is saved / indicated.

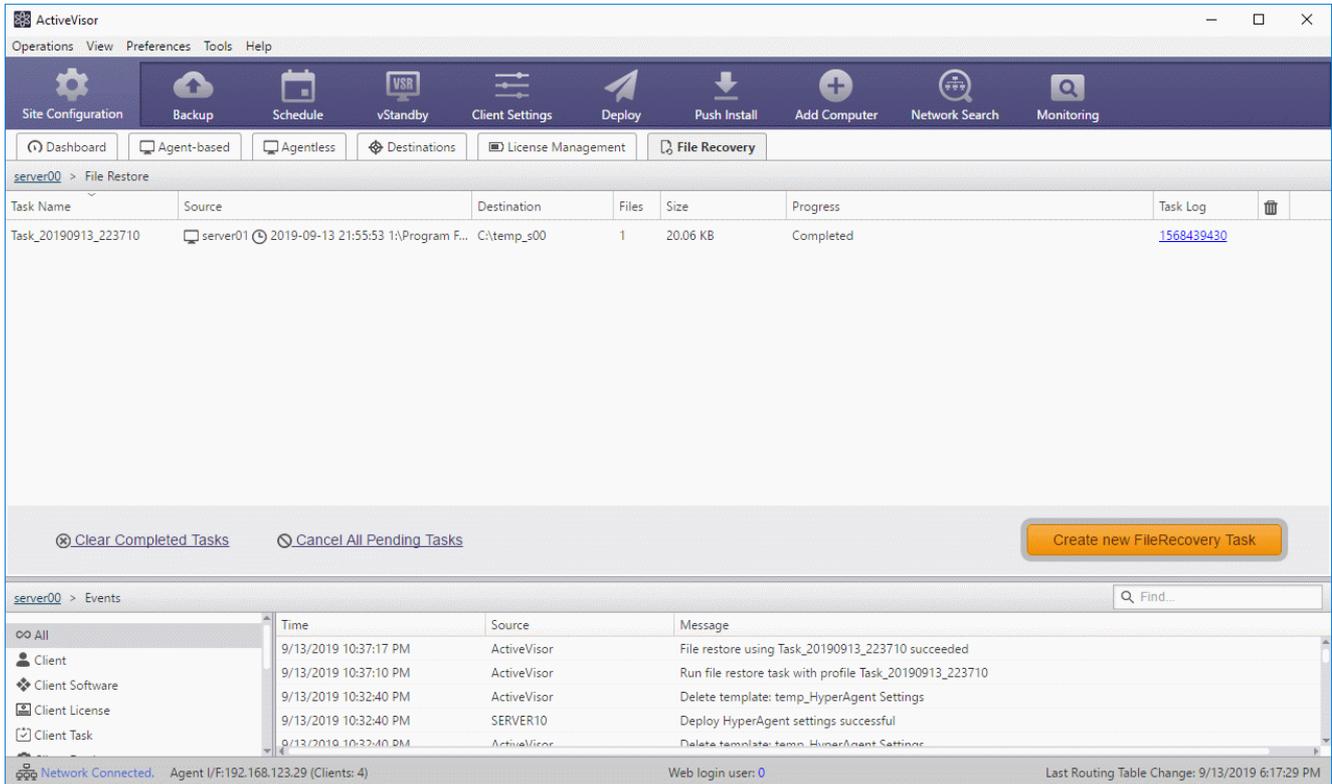


Fig. 4.53 File Recovery task is listed

Click [Create new FileRecovery Task] to launch [File Recovery] wizard as shown in Fig. 4.49.

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

## 5. Internet Offline Mode

Due to security reasons, some business enterprises or organizations completely block computers from accessing the internet. In the earlier version of ActiveVisor, a License Management feature is offered only over the network to provide the client management capabilities, including client activation.

The new Internet Offline Mode enables ActiveVisor to operate ActiveImage Protector agents on managed clients without internet access.

After installation of the new version of ActiveVisor, the [Site Initialization Settings] window is launched for the initial setting.

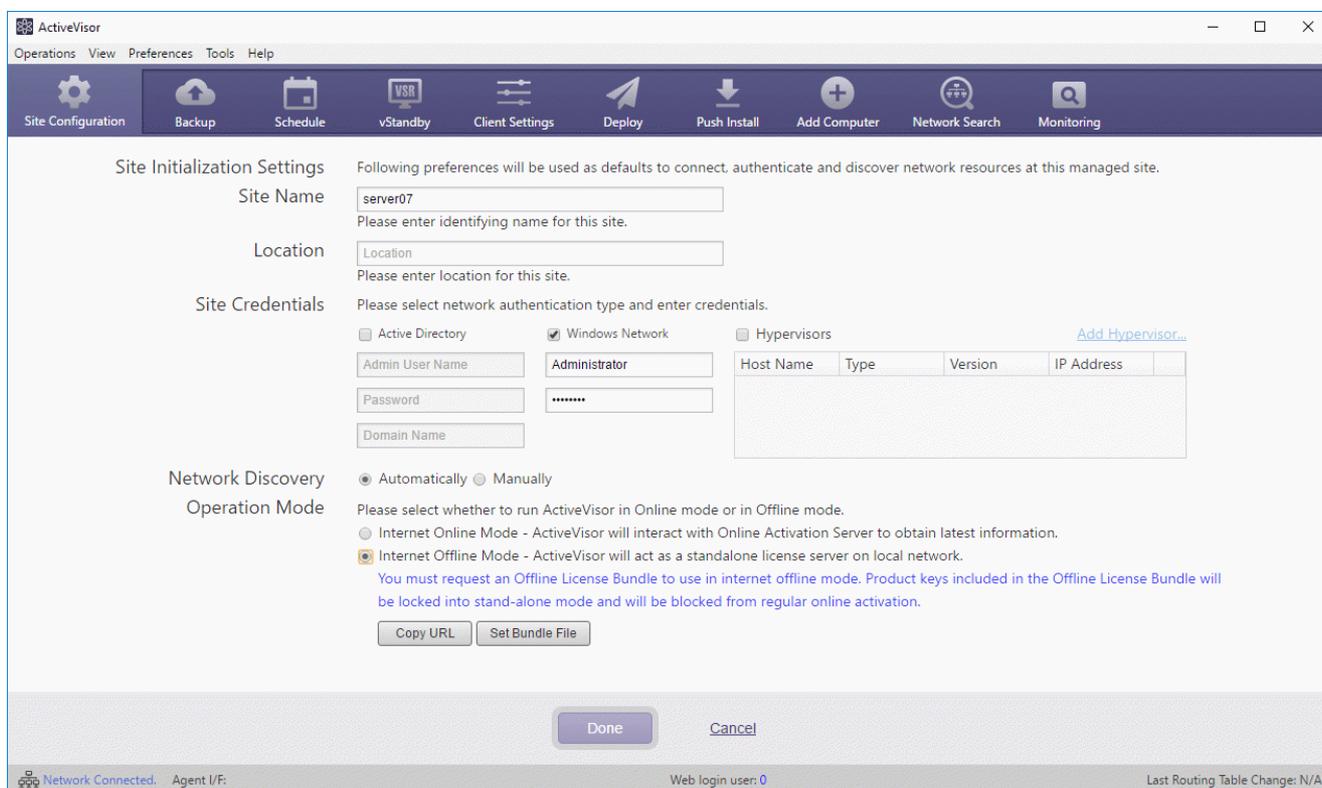


Fig. 5.1 [Site Initialization Settings]

Select [Operation mode] - [Internet Offline Mode]. The two buttons under [Operation Mode] become appear. Now, request Offline License Bundle for offline activation. An offline license bundle is a file necessary for offline activation for ActiveImage Protector.

Click [Copy URL] to retrieve the URL of the site for issuing offline license bundles.

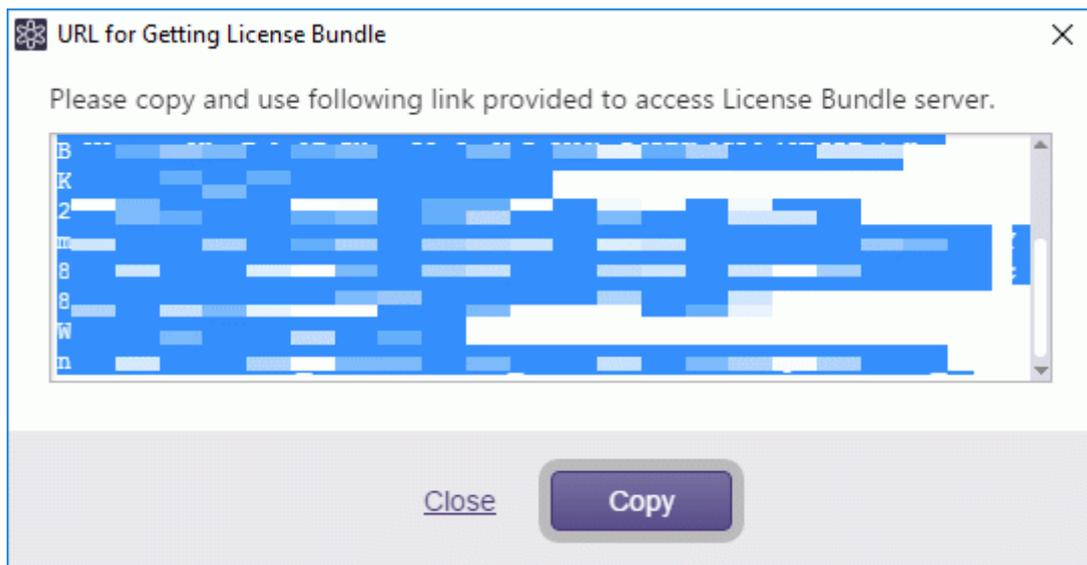


Fig. 5.2 URL for Getting License Bundle

Click [Copy] to copy the URL. After copying the URL, the [Copy URL] confirmation dialog shown in Fig. 5.3 is displayed.

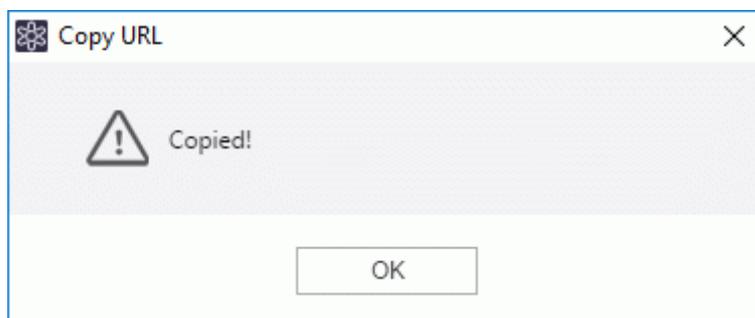


Fig. 5.3 Copying URL completed.

ActiveVisor, on the host with no internet access, saves the copied URL in a text file, launches a Web browser on a PC with internet access and pastes the URL from the text file to the address bar. The license bundle request form is then displayed (the form may not be correctly displayed on an earlier version of the web browser. If this is the case, please use the latest version of a web browser such as Google Chrome.)

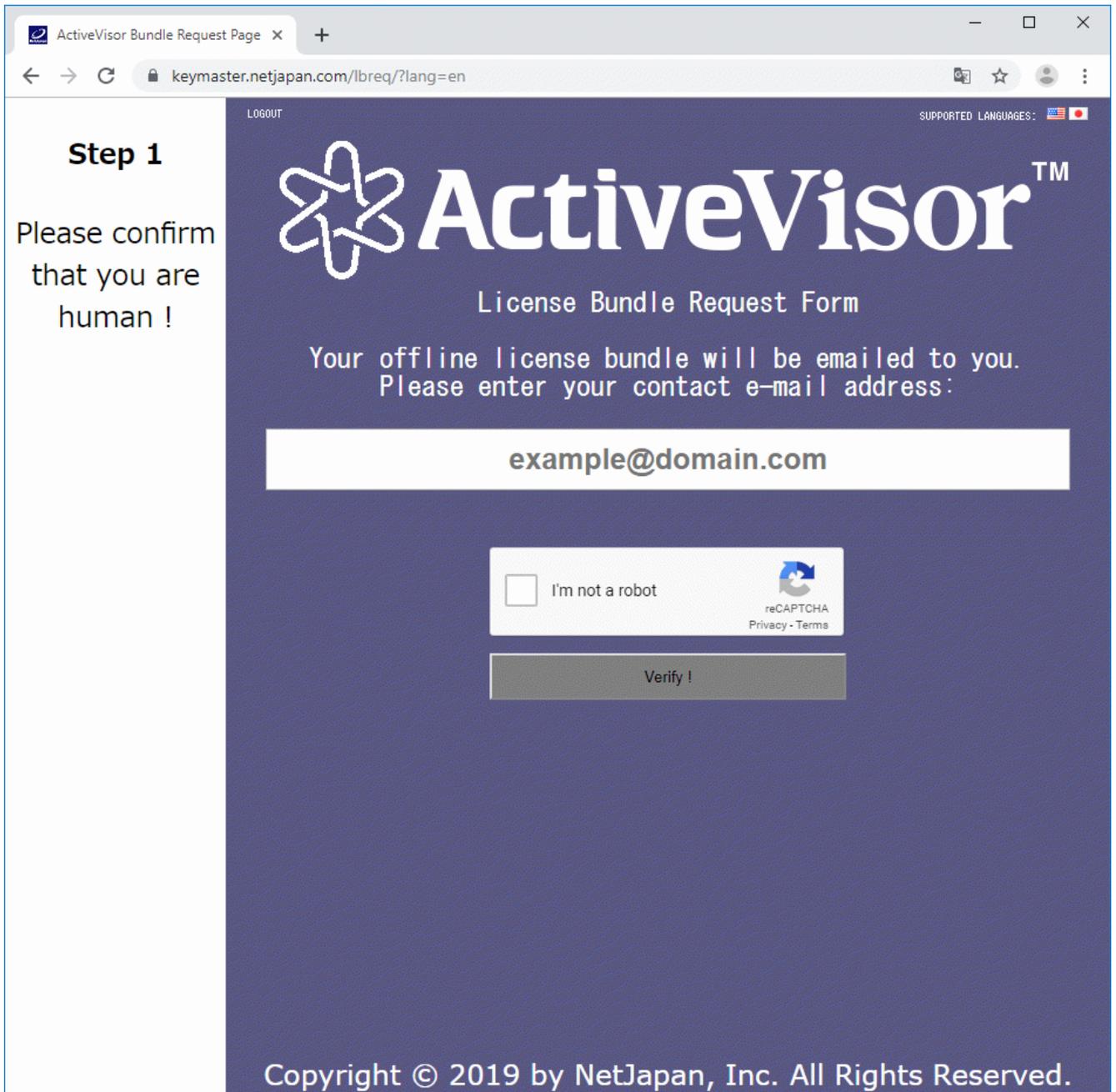


Fig. 5.4 ActiveVisor License Bundle Request Form

Please enter an E-Mail address and verify the computer user is a human.

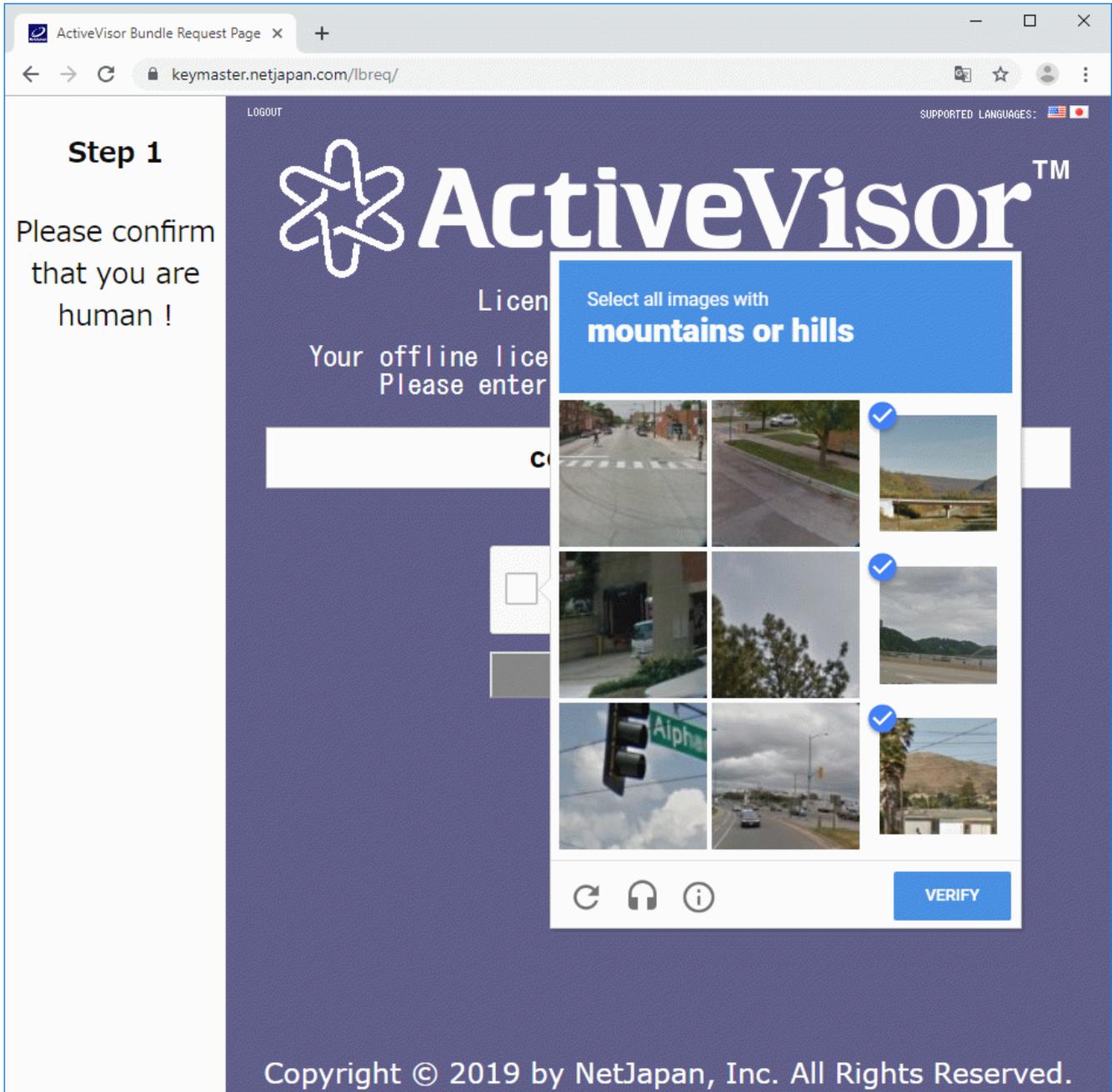


Fig. 5.5 Enter E-Mail address and reCAPTCHA







Transition back to the window shown in Fig. 5.1 and click the [Set Bundle File] button.

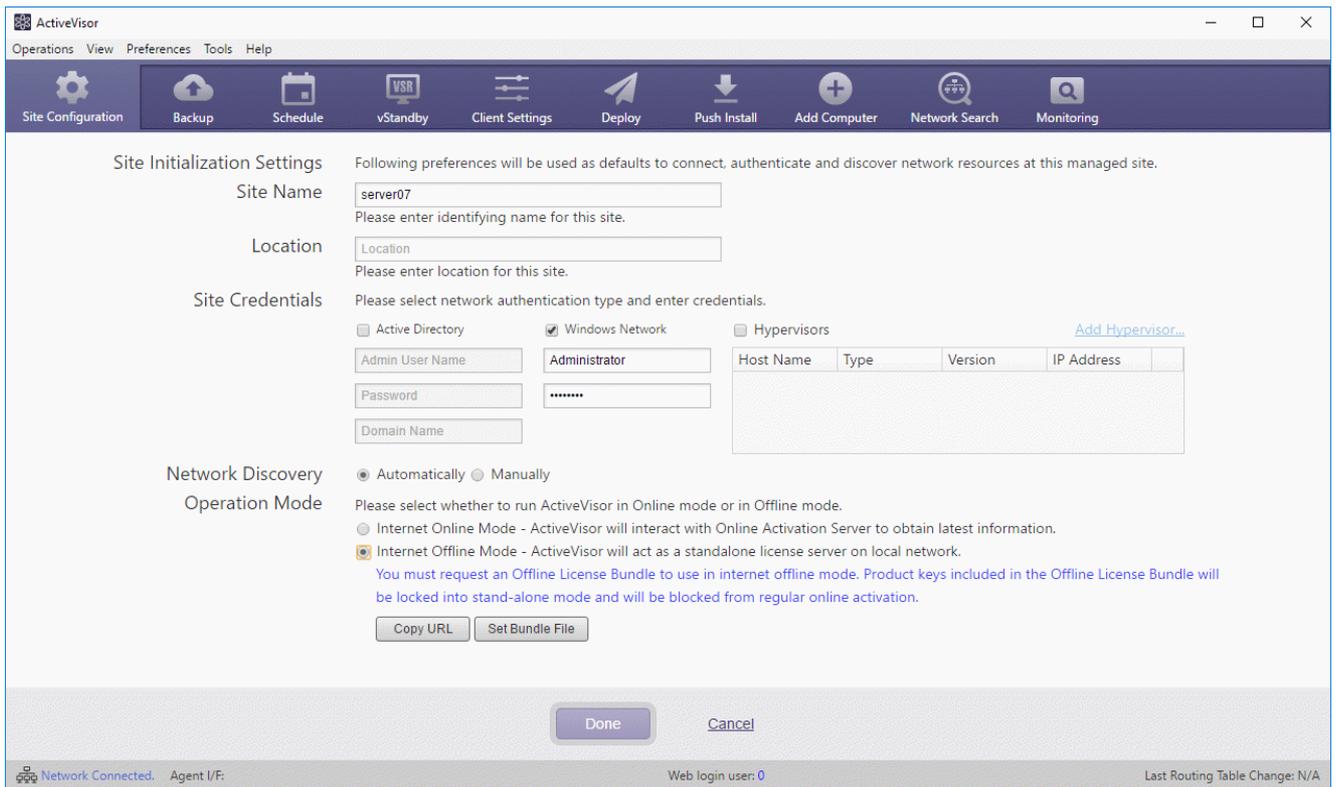


Fig. 5.1 [Site Initialization Settings]

The [Remote File Explorer] window is displayed and the copied offline license bundle is loaded.

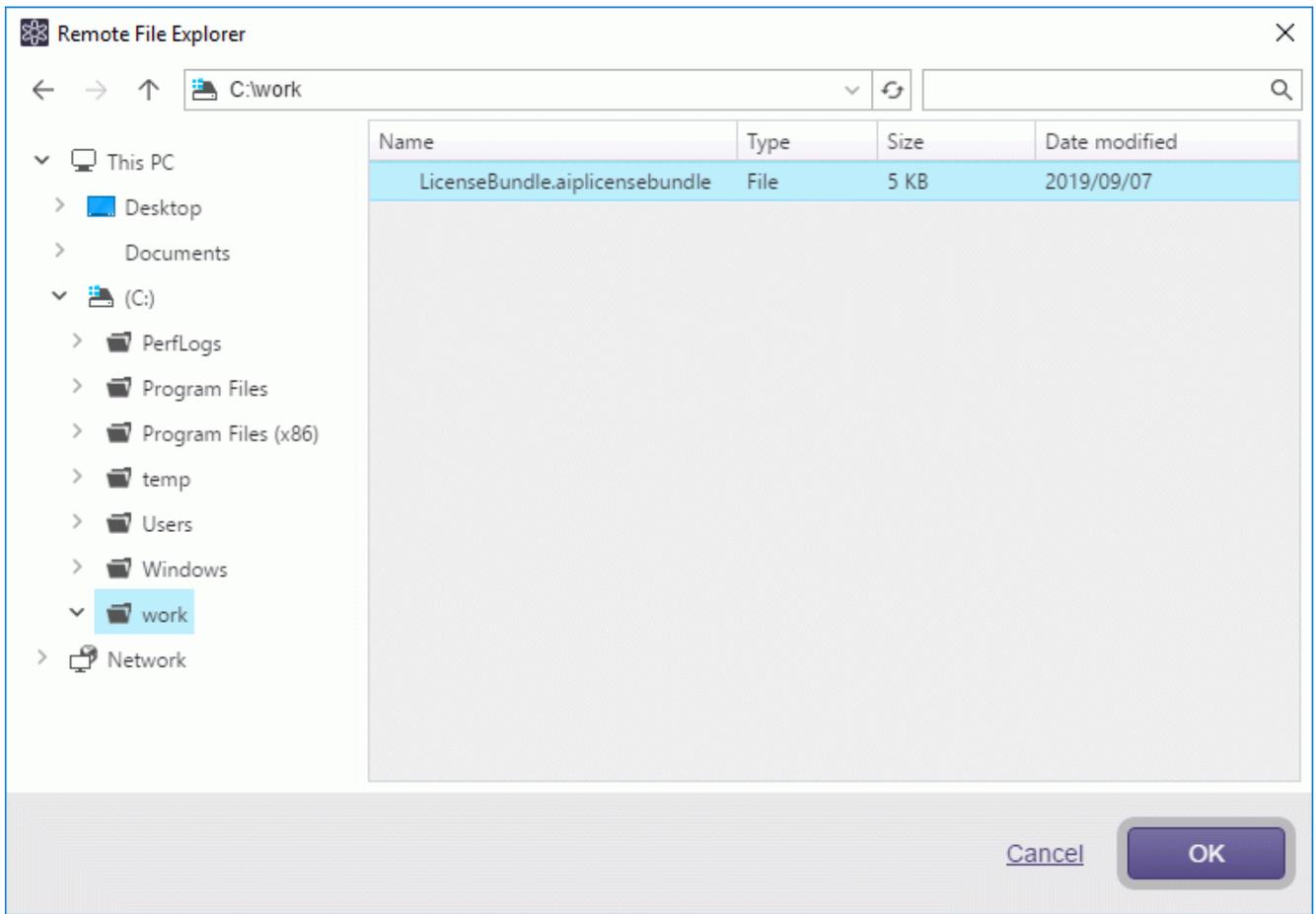


Fig. 5.9 Offline License Bundle is loaded

Lastly, click [Done] in the [Site Initialization Setting] dialog.

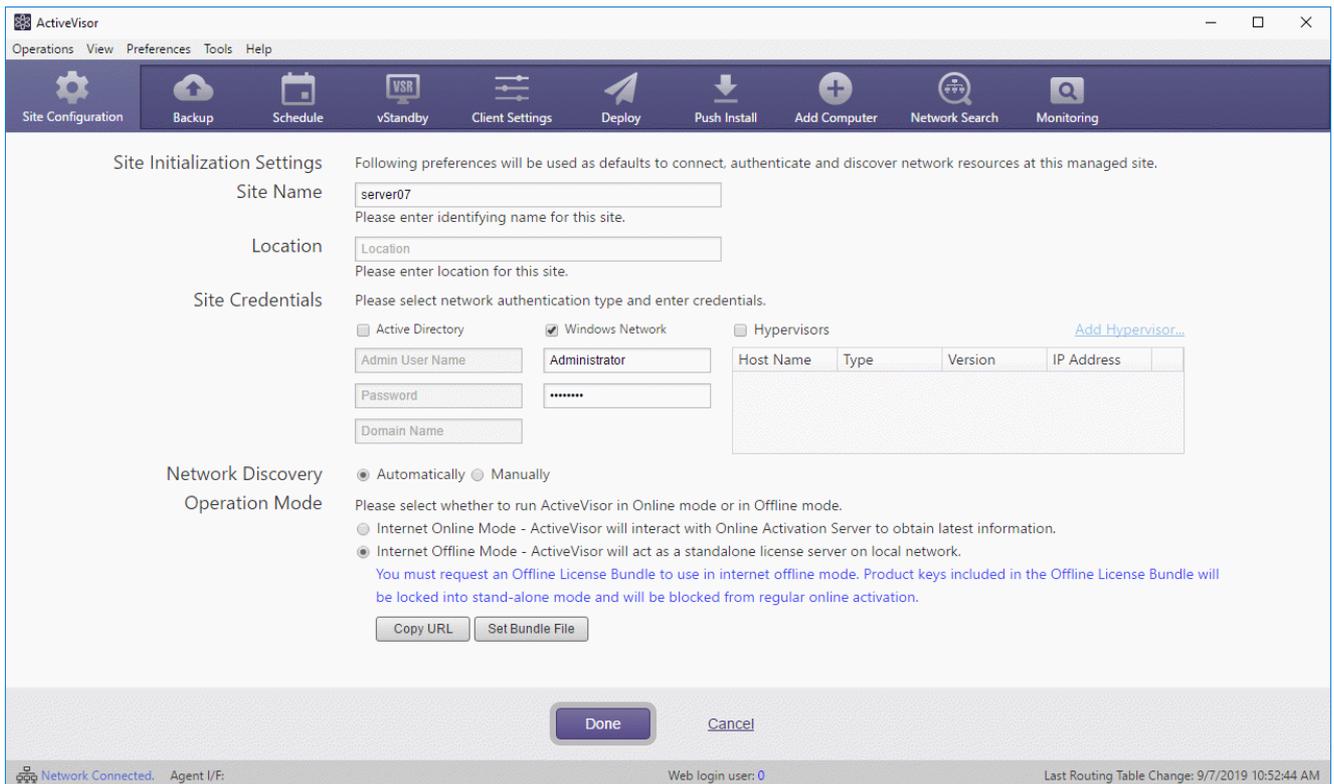


Fig. 5.10 Click [Done] to finish

Hereafter, the host on which ActiveVisor is installed works as a license server for the client's activation.

Whenever add a target client or update the support contract, you need to take the above operating procedures to obtain offline license bundle file.

# APPENDIX

---

## 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>

### ●ActiveVisor FAQ

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

Support information can be accessed at the FAQ web site.

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

(TEL) +81-3-5256-0877 (FAX) +81-3-5256-0878 E-mail: [global-sales@actiphy.com](mailto:global-sales@actiphy.com)

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