

ActiveVisorTM

ActiveVisor

Startup Guide

3rd Edition February, 2019

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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	Required for client management operations.
Screen	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.

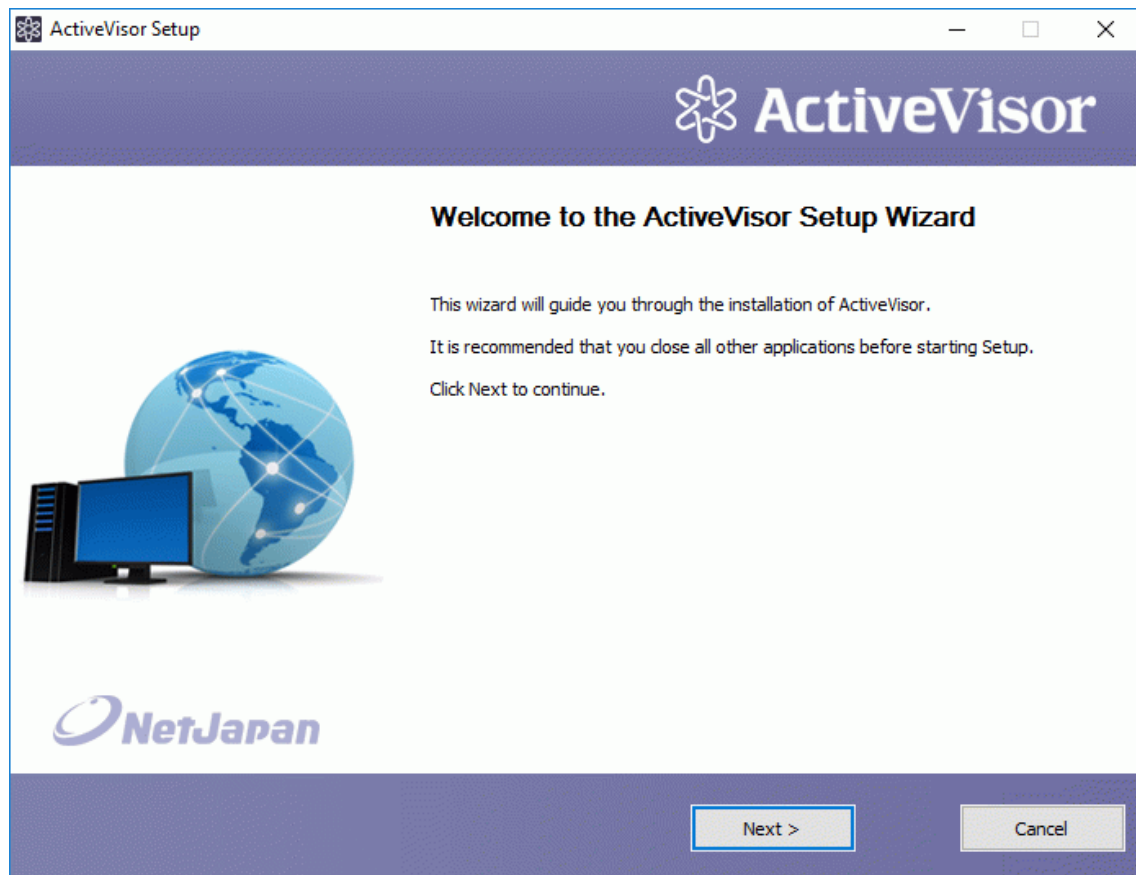


Fig. 1.1 Launch the ActiveVisor Set-up Wizard

Click [Next]. Enter the product key.

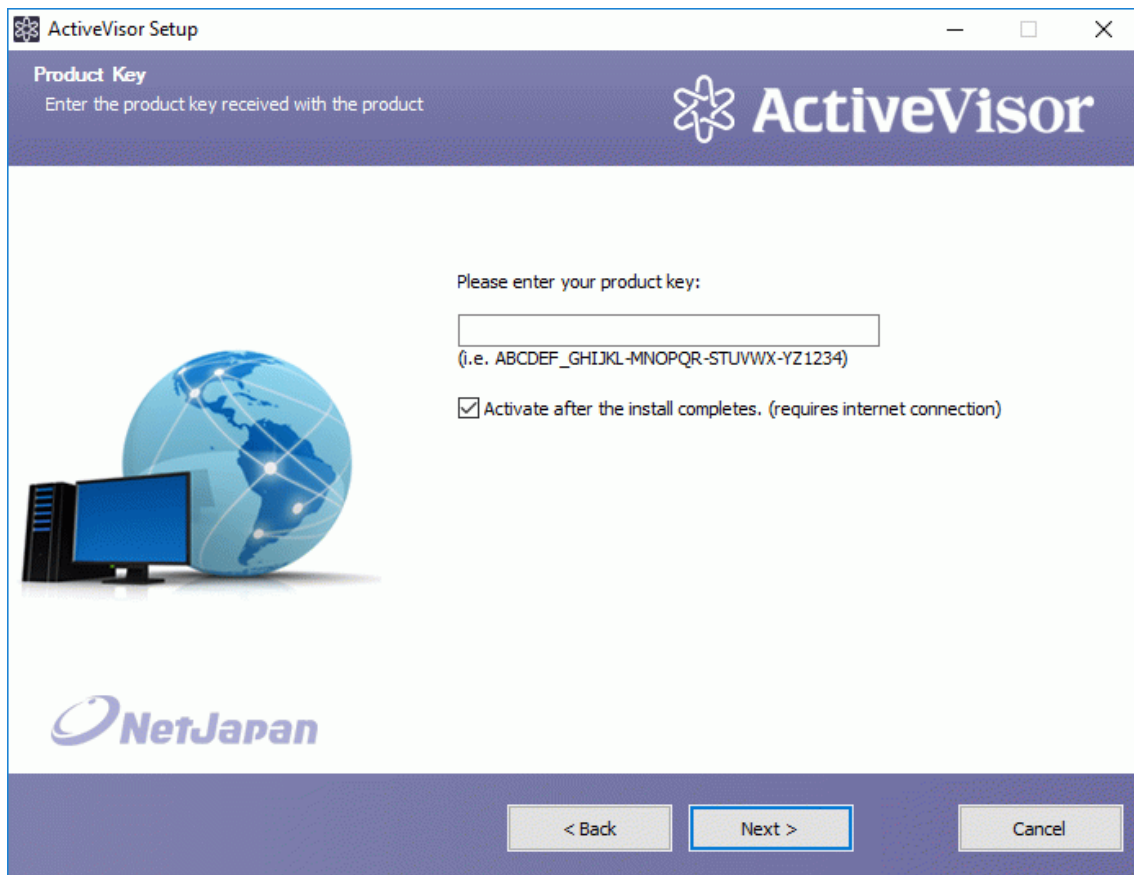


Fig. 1.2 Enter the product key

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

The End User's License Agreement is displayed.

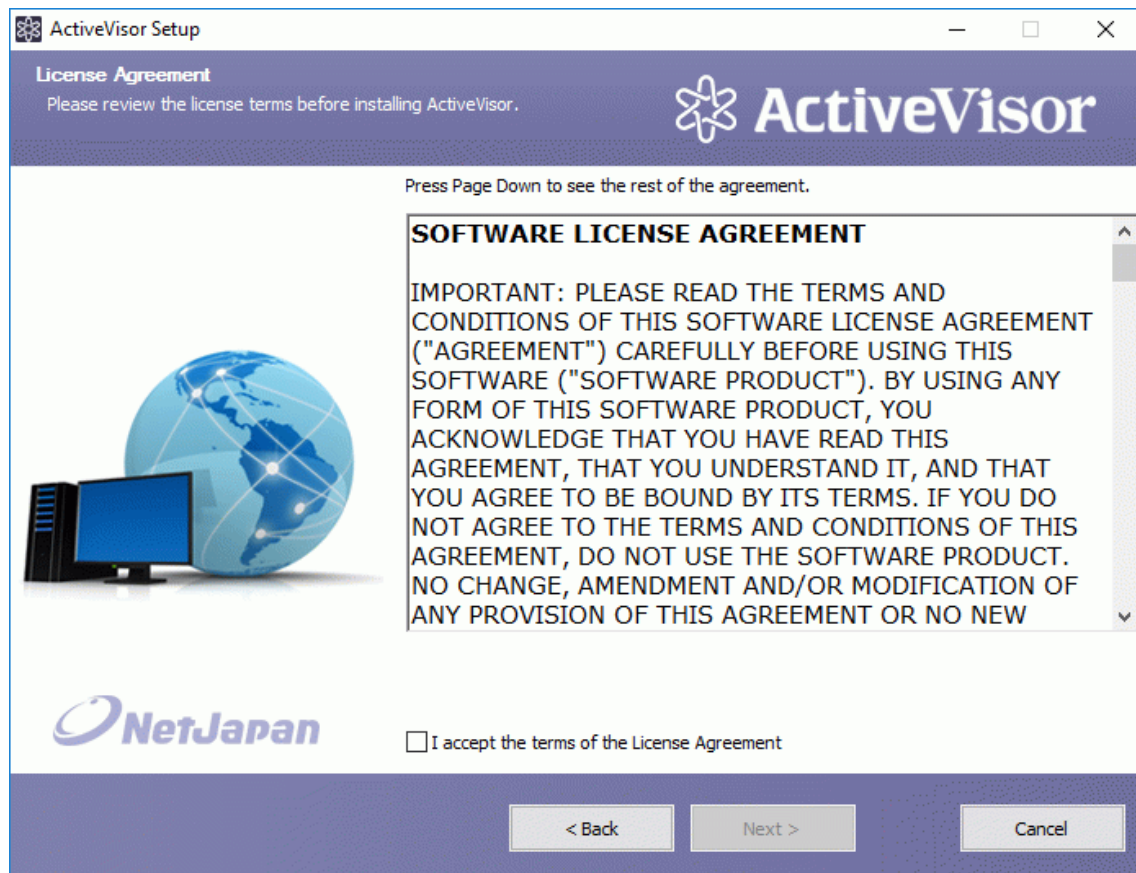


Fig.1.3 End User's License Agreement

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.

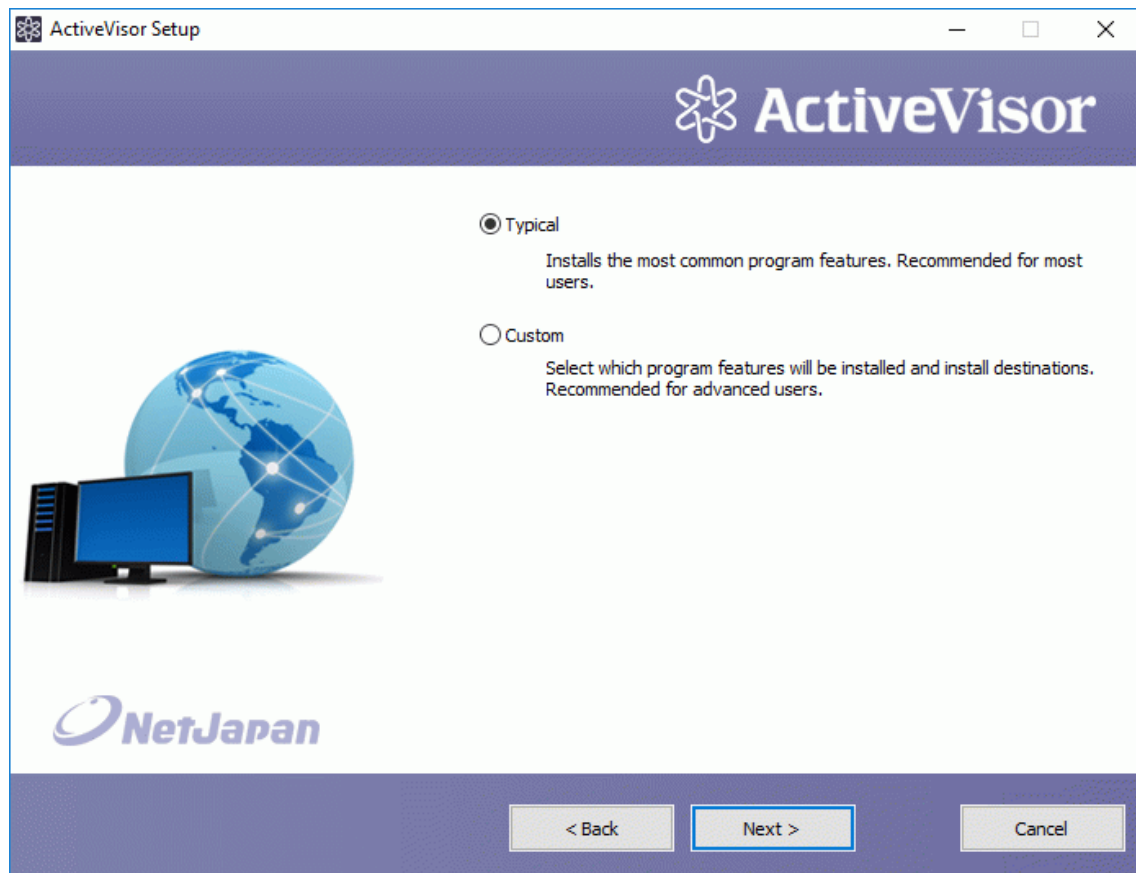


Fig. 1.4 Select Setup type

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

Installation starts.

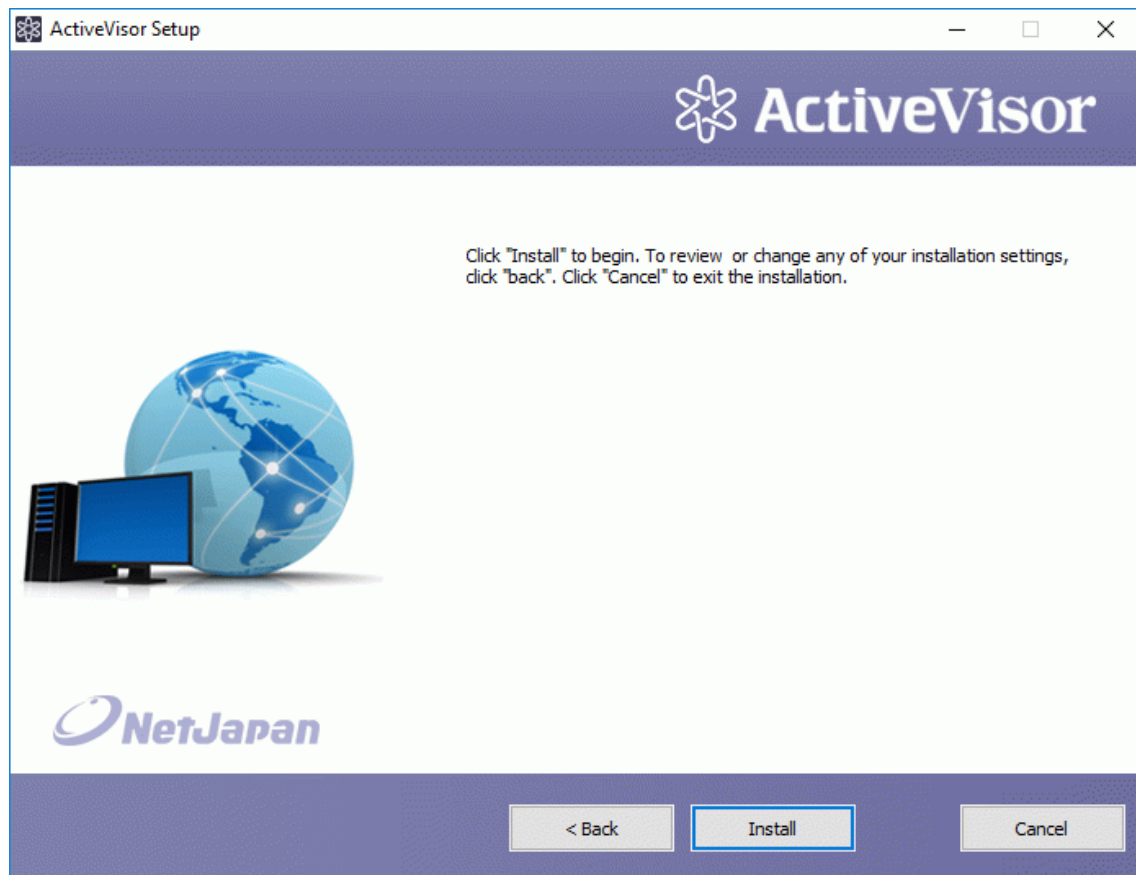


Fig. 1.5 Ready to start installation

Click [Install] to start installation.

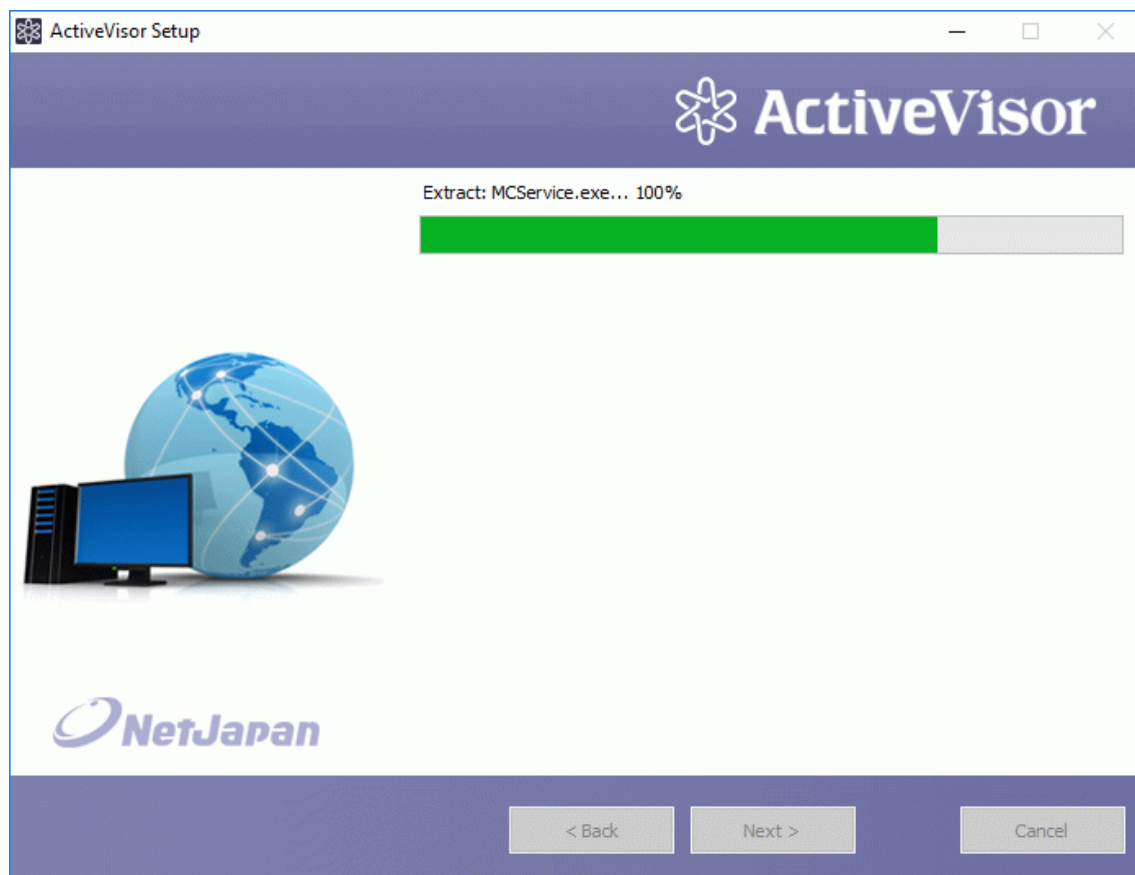


Fig. 1.6 Installation in progress.

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.

The screenshot shows the 'ActiveVisor' application window with the 'Site Configuration' tab selected. The window has a menu bar (Operations, View, Preferences, Tools, Help) and a toolbar with icons for Site Configuration, Backup, Schedule, vStandby, Client Setting, Deploy, Push Install, Add Computer, Network Search, and Monitoring. The main content area is titled 'Site Initialization Settings' and contains the following sections:

- Site Name:** A text input field containing 'server01'. Below it is a placeholder text: 'Please enter identifying name for this site.'
- Location:** A text input field containing 'Location'. Below it is a placeholder text: 'Please enter location for this site.'
- Site Credentials:** A section titled 'Please select network authentication type and enter authentication credentials.' It contains two radio buttons: 'Active Directory' (unchecked) and 'Windows Network' (checked). Below the 'Active Directory' radio button are three text input fields: 'Admin User Name', 'Password', and 'Domain Name'. Below the 'Windows Network' radio button is one text input field: 'Administrator'. The 'Password' field contains a masked password '*****'.
- Operation Mode:** A section titled 'Please select whether to run ActiveVisor in Online mode or in Offline mode.' It contains two radio buttons: 'Internet Online Mode - ActiveVisor will interact with Online Activation Server to obtain latest information.' (selected) and 'Internet Offline Mode - ActiveVisor will act as a standalone license server on local network.' Below these radio buttons is a blue text warning: 'You must request Offline License Bundle to use Internet Offline Mode. Product keys included in the Offline License Bundle will be locked into standalone mode, and will be barred from regular online activation.' Below the warning are two buttons: 'Copy URL' and 'Set Bundle File'.

At the bottom of the window are two buttons: 'Done' and 'Cancel'. The status bar at the very bottom shows 'Network Connected', 'Agent I/F:', 'Web login user: 0', and '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

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.

From [Operation Mode], select one of the following, [Internet Online Mode] or [Internet Offline Mode]. When 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.

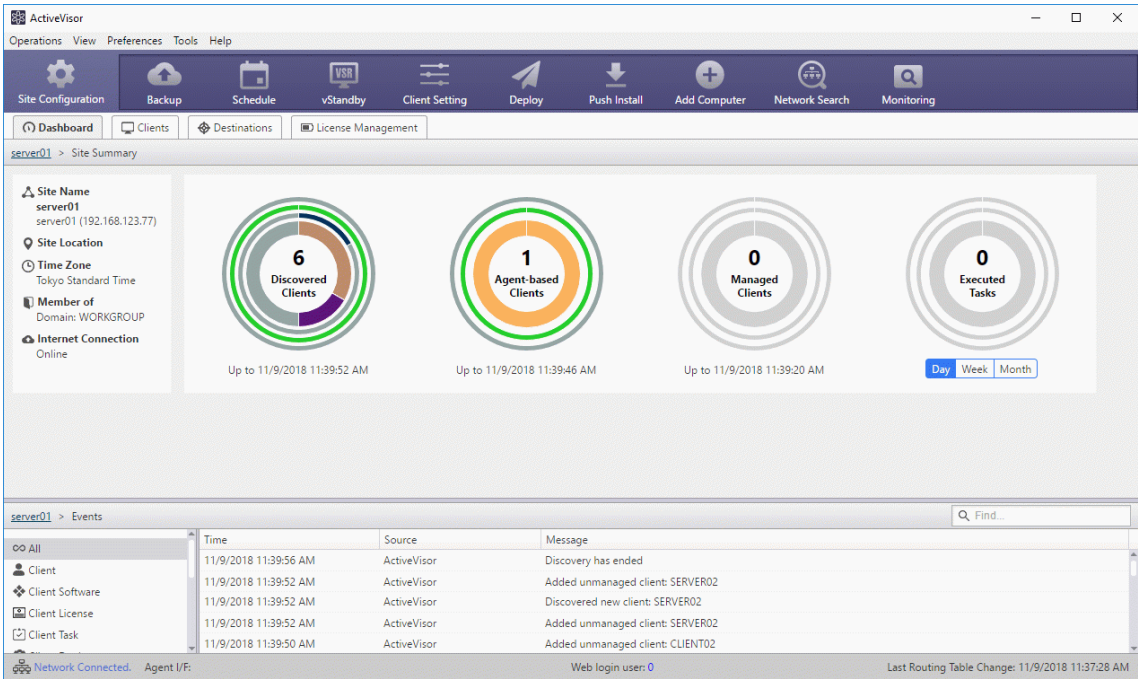


Fig. 1.9 The number of clients indicated in [Dashboard] tab

Switching from the [Dashboard] tab to the [Client] tab displays the list of the found clients.

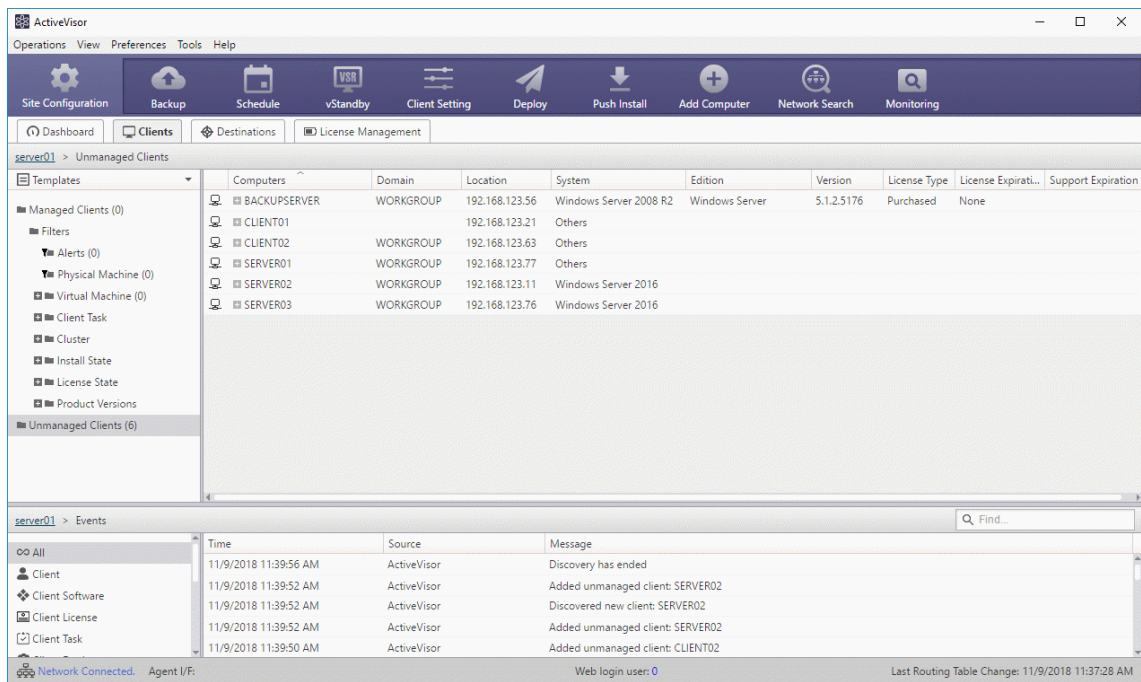


Fig. 1.10 List of the found clients

In the initial display, the clients are listed as [Unmanaged 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].

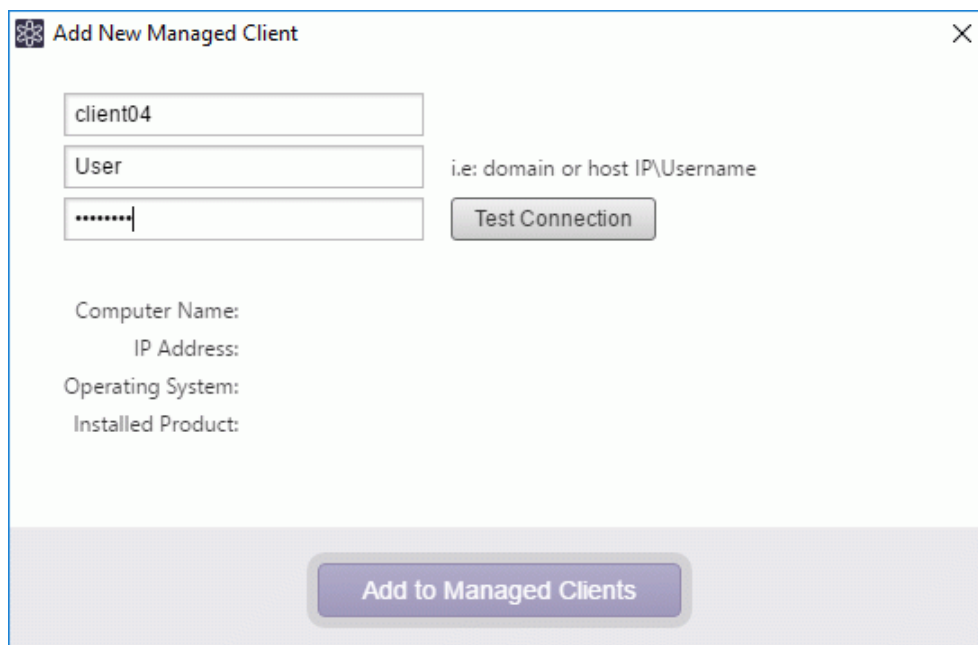


Fig1.11 Add New Managed Client

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 Clients] to add the client machine to the [Managed Clients] list in [Clients] tab.

To manage clients by using ActiveVisor, add clients to the [Managed Client] list in the [Clients] tab.

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

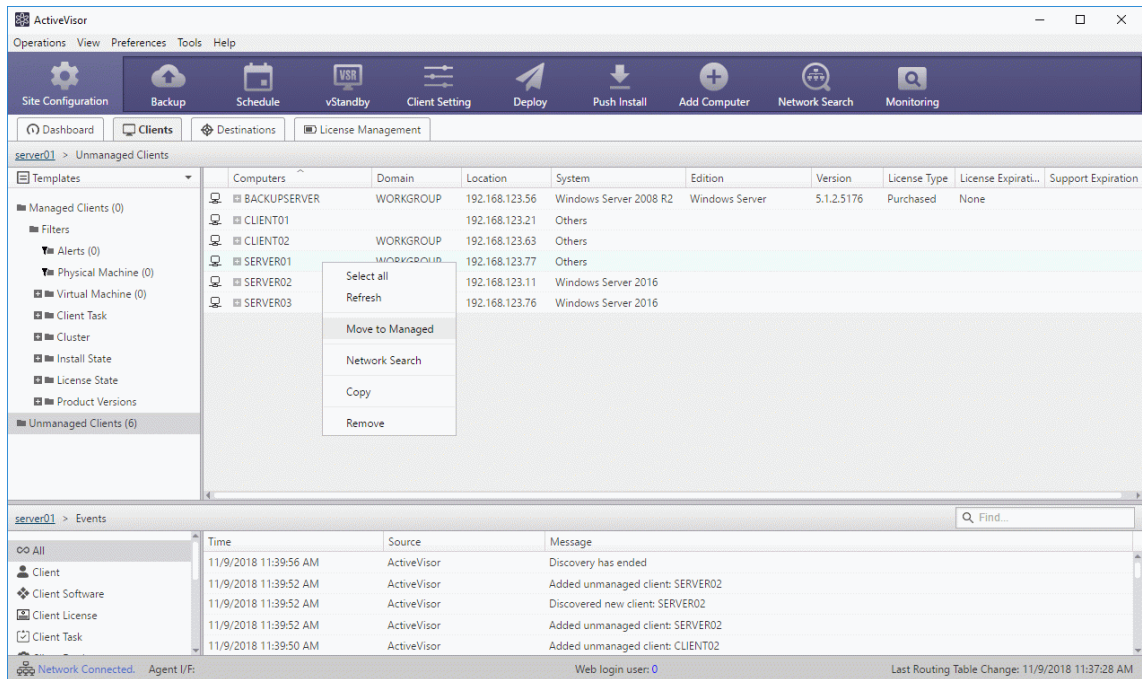


Fig. 1.12 Add clients to [Managed Clients]

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

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

2.1 Preparation Steps

First, copy the ActiveImage Protector installation files to the machine which ActiveVisor is installed. The push Install can be used from optical media however, it is recommended to save the installation files to the local folder to deliver faster read and write speeds.

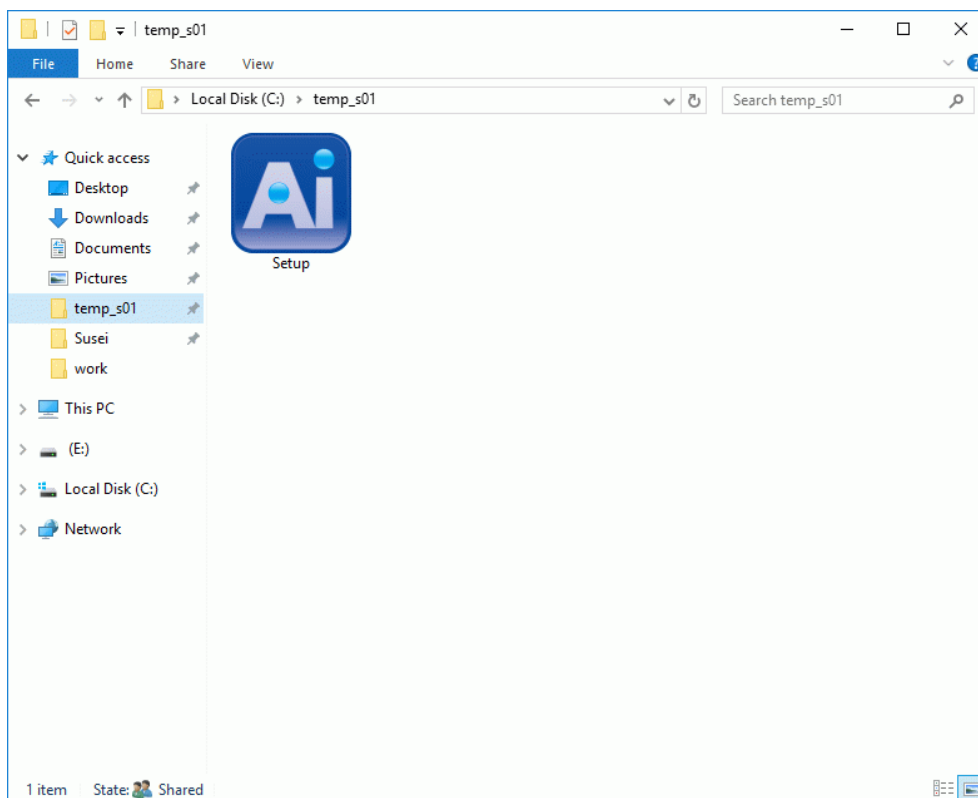


Fig. 2.1 Copy ActiveImage Protector installation files

Next, have the product key handy. NetJapan 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.

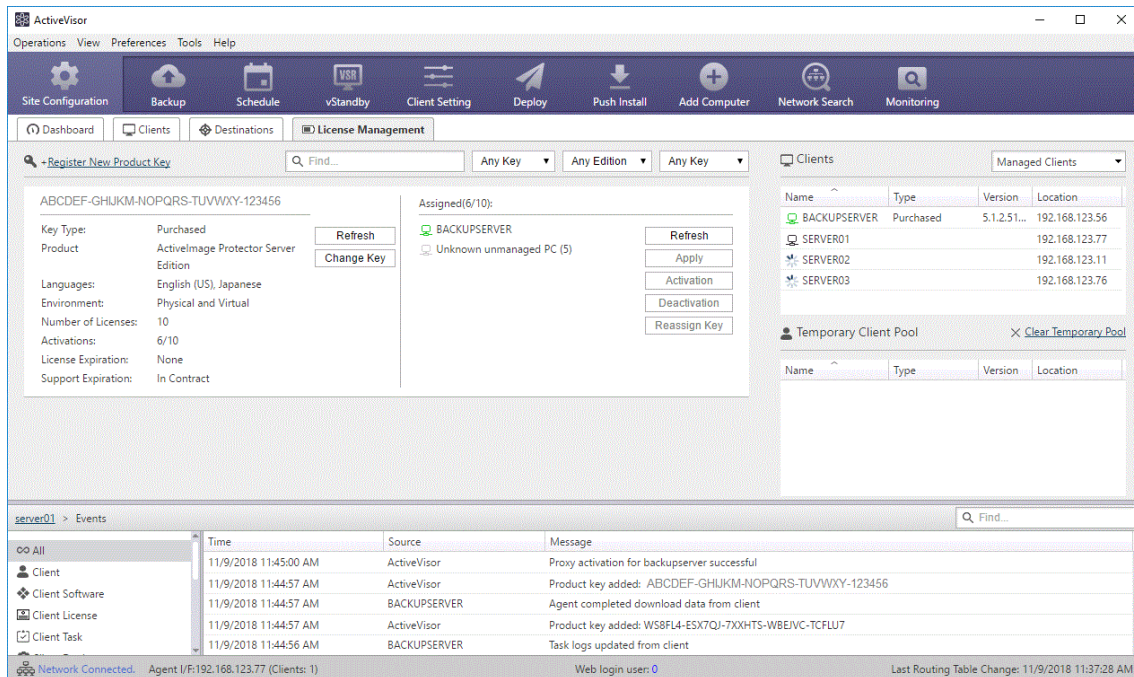


Fig. 2.2 [License Management] tab

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]

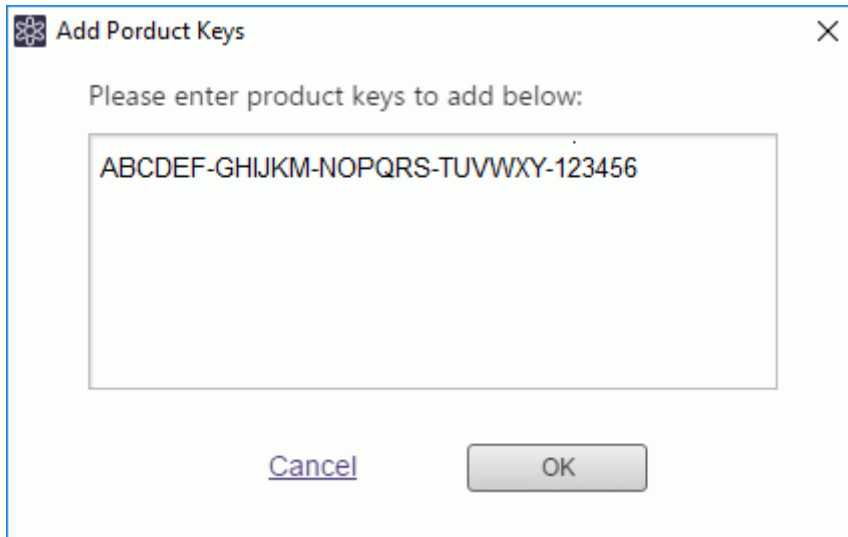


Fig. 2.3 Add Product Key

Product keys for the server and clients are registered here.

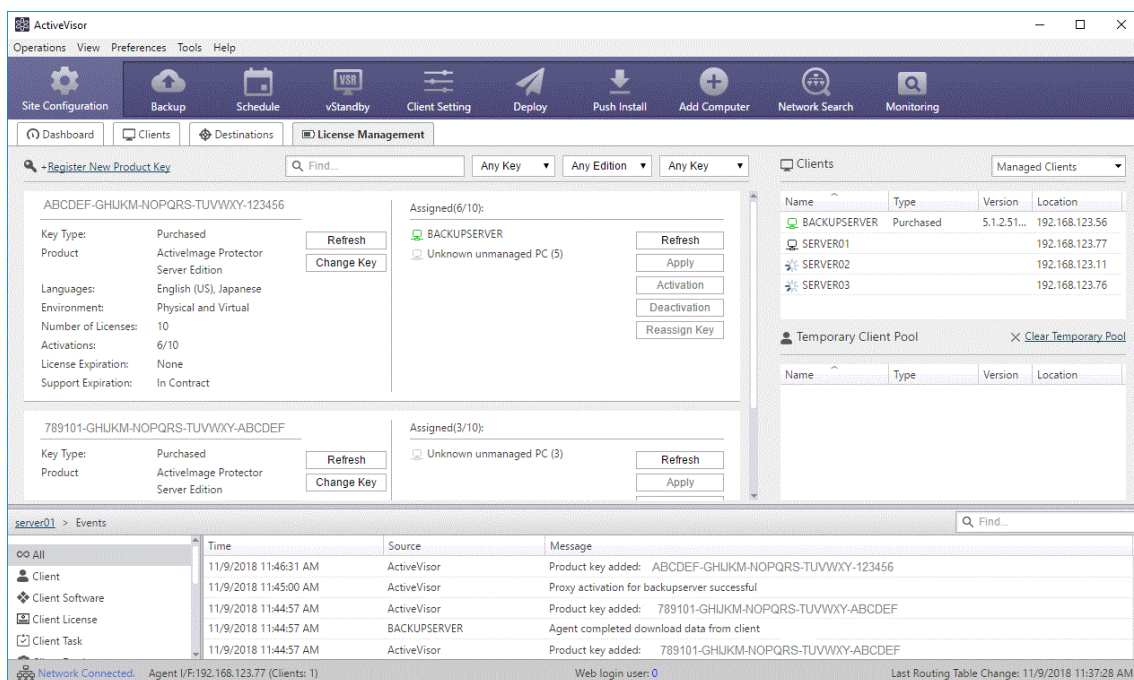


Fig. 2.4 Registered Product Key

2.2 Push Install

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

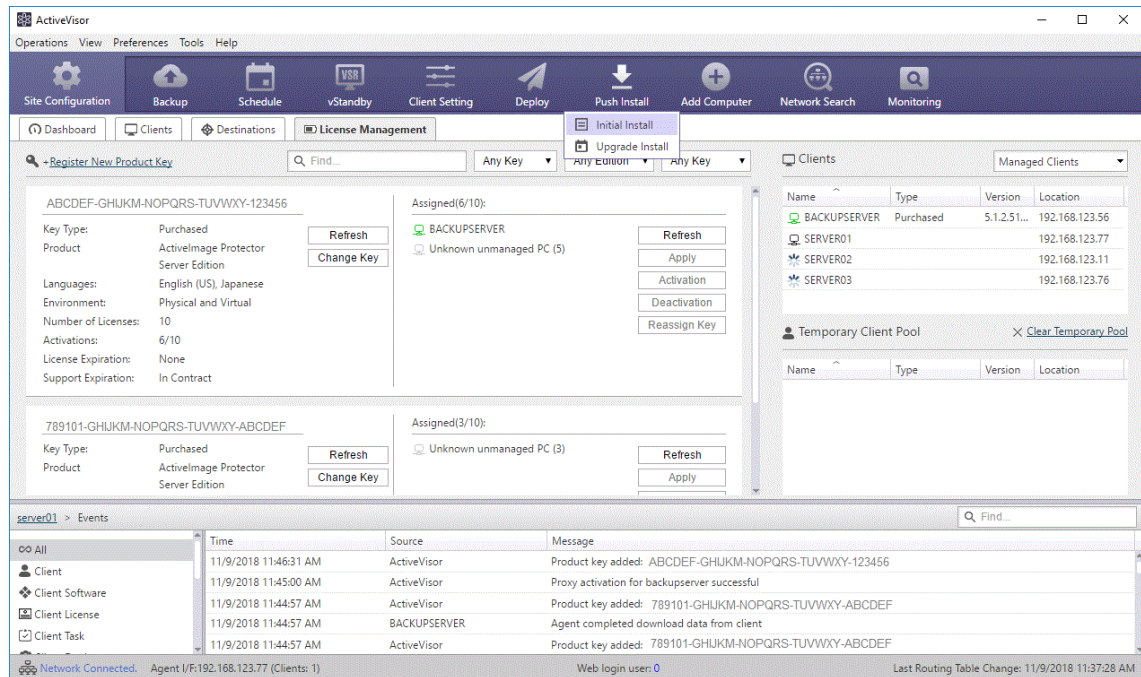


Fig. 2.5 Select [Initial Install]

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

Push Install [X]

Select Install Package [v] Select Product Key [v]

Product: Edition:
Version: License:
Date: N/A Environment:

Select Install Components:

Options:

☐ No reboot on installing ☐ No auto activate

Target Computers [Add new ...]

<input checked="" type="checkbox"/> Computers ^	IP Address	System	Status
---	------------	--------	--------

[Cancel] [Install]

Fig. 2.6 Select Push Wizard

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

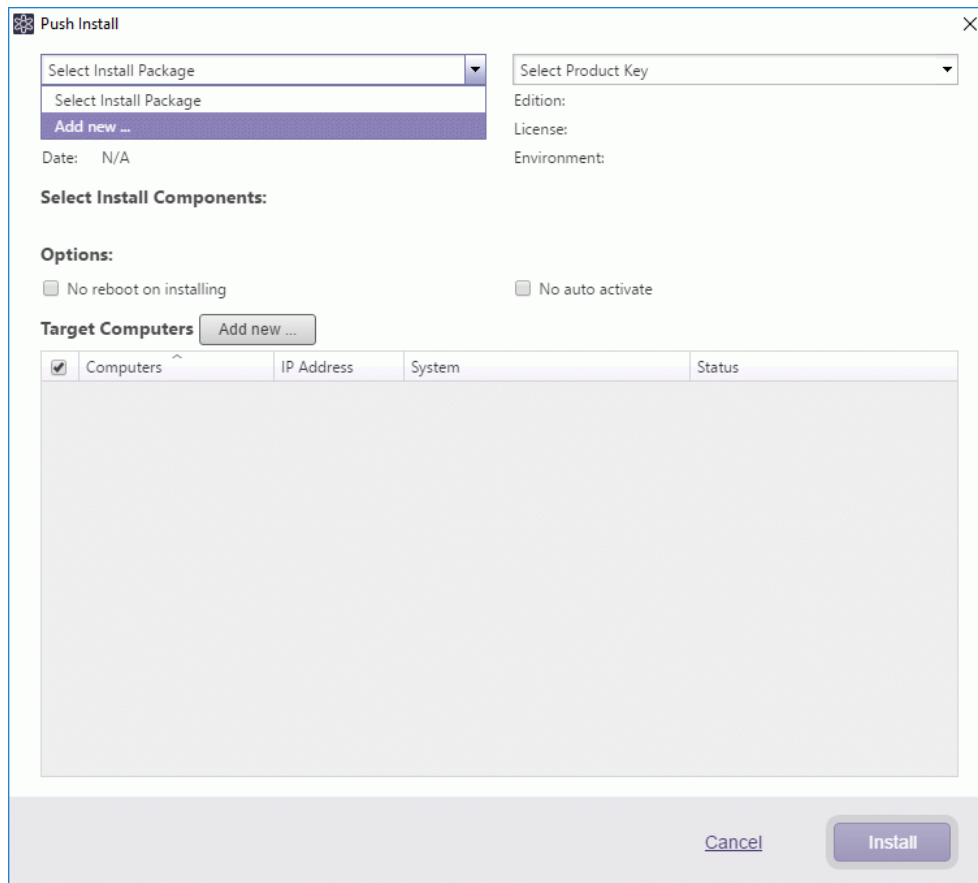


Fig. 2.7 Select [Add new]

Specify the location of the ActiveImage Protector installation files as shown in Fig. 2.1.

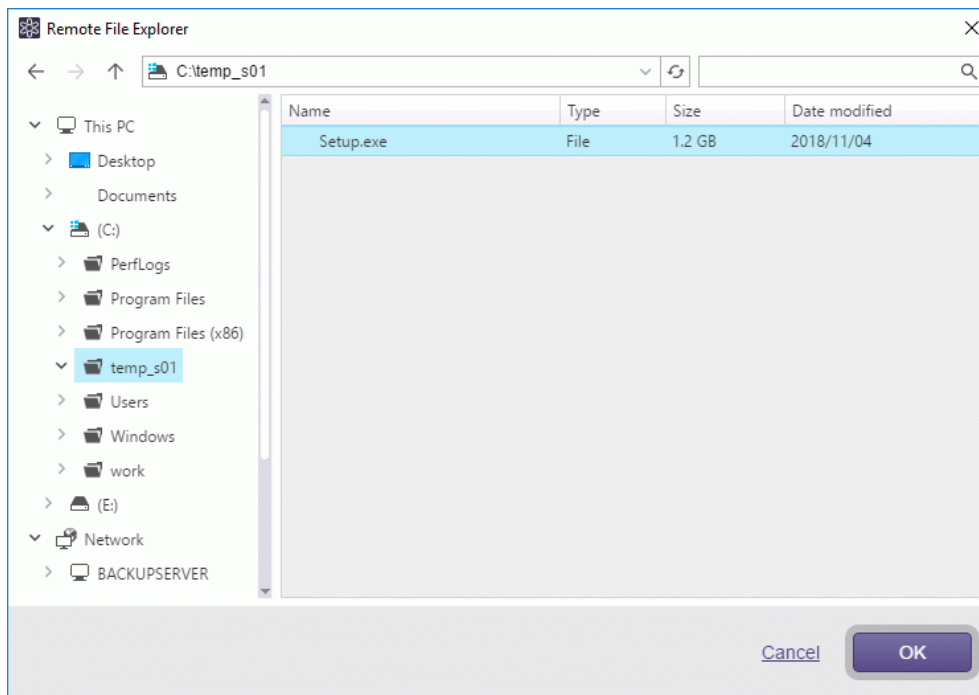


Fig. 2.8 Specify the location of ActiveImage Protector installation files

[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).

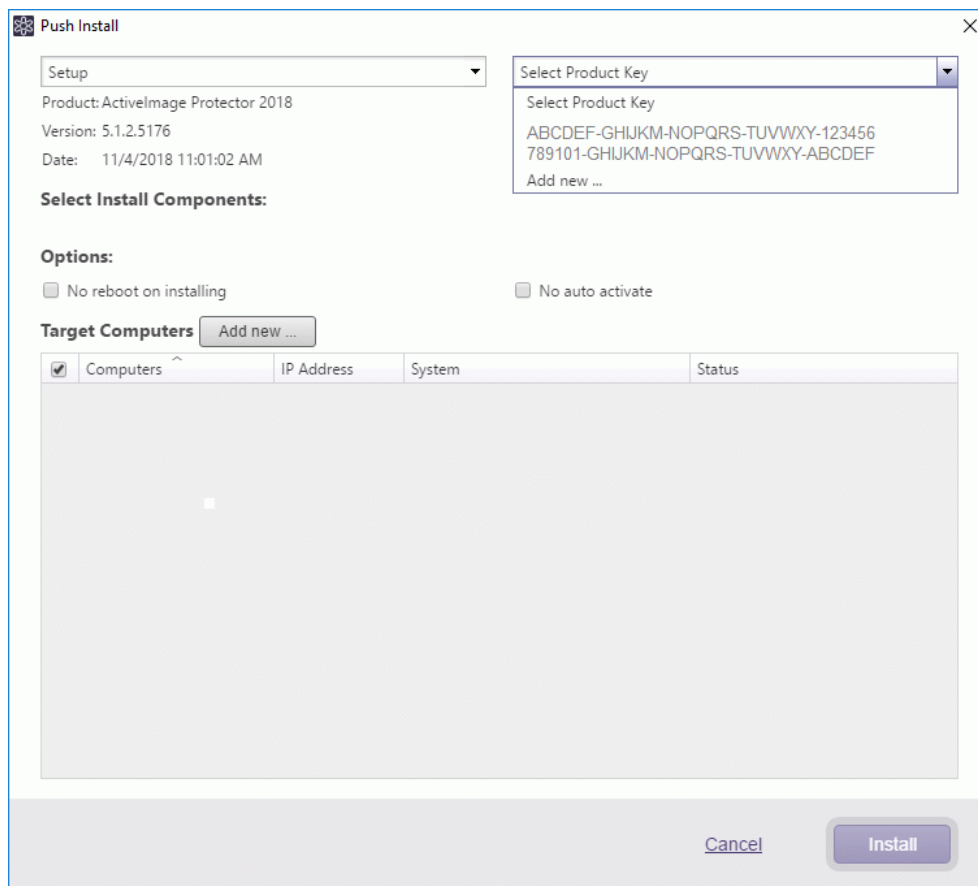


Fig. 2.9 Select Product Key

The settings for Push Install are configured as described.

Push Install
✕

Setup ▾

Product: ActiImage Protector 2018
Version: 5.1.2.5176
Date: 11/4/2018 11:01:02 AM

.ABCDEF-GHIJKM-NOPQRS-TUVWXY-123456 ▾

Edition: Windows Server
License: Purchased
Environment: Physical and Virtual Environments

Select Install Components:

☒ ActiImage Protector Agent
☐ Mounting
☐ ActiImage Console
☐ ActiImage TaskTray

☐ Image Explorer
☐ Linux Boot Environment
☐ Windows PE Boot Environment

Options:

☐ No reboot on installing
☐ No auto activate

Target Computers

Add new ...

<input checked="" type="checkbox"/>	Computers ^	IP Address	System	Status

Cancel

Install

Fig. 2.10 Push Install Settings

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.

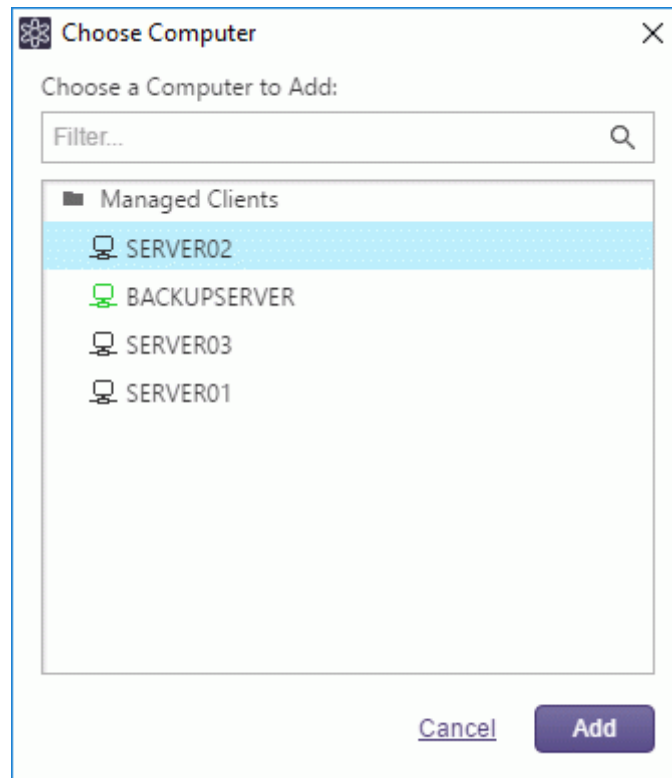


Fig. 2.11 Managed Client List

Select a client and click [Add]. The target clients for Push Install are listed as shown in Fig. 2.10.

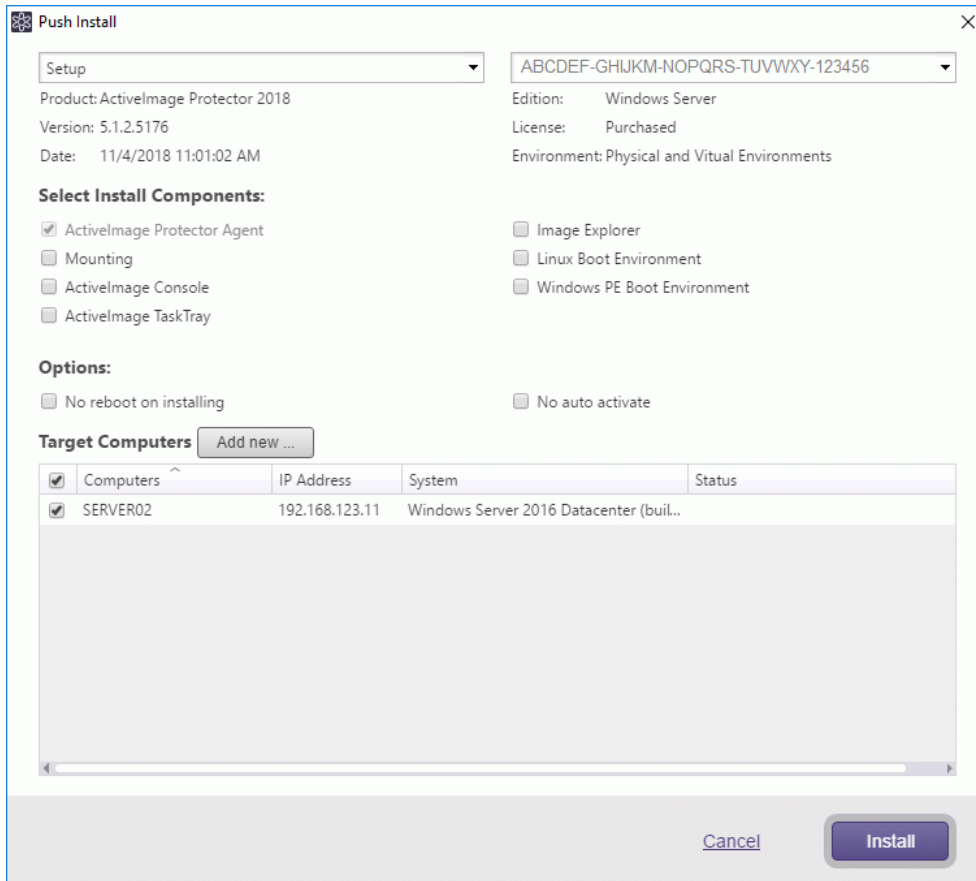


Fig. 2.12 Add target clients for Push Install

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 ActiVImage 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.

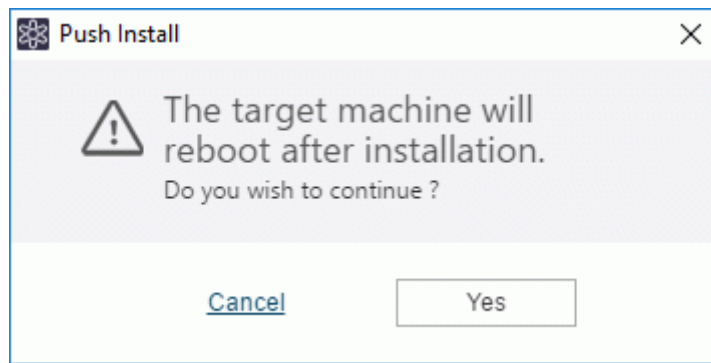


Fig. 2.13 Confirming restart of the target machine

Click [Yes].

Push Install starts.

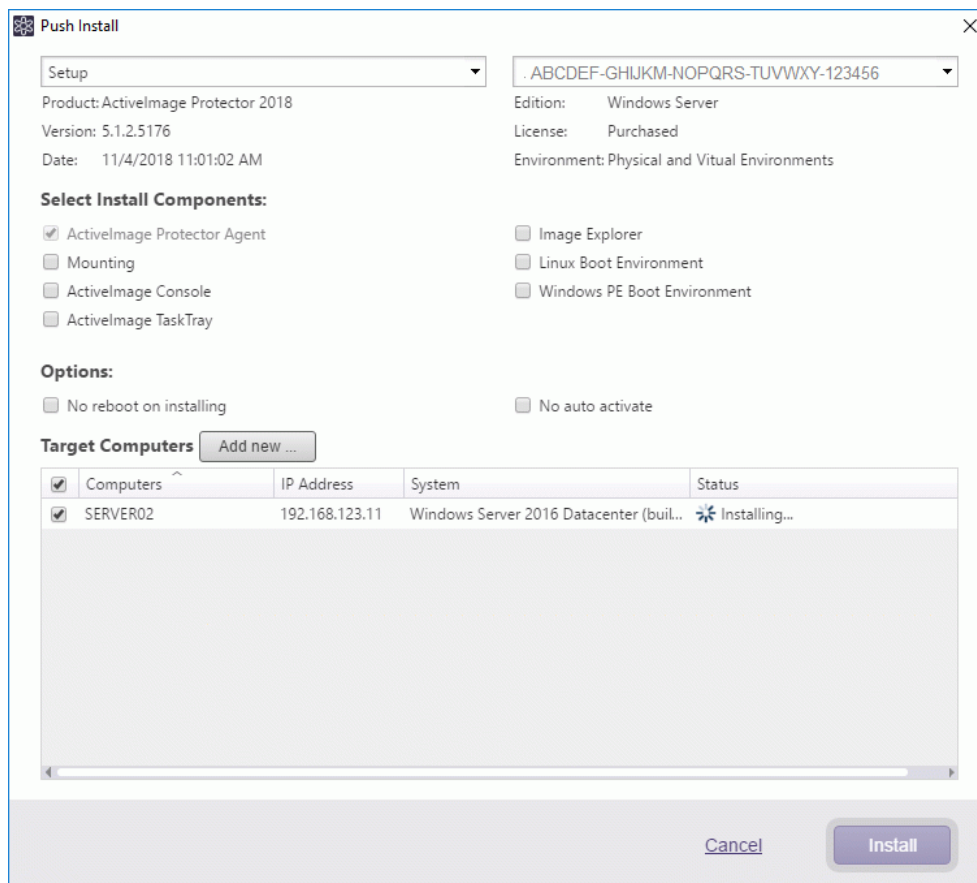


Fig. 2.14 Push Install in progress

After the Push Install completes, the target system restarts.

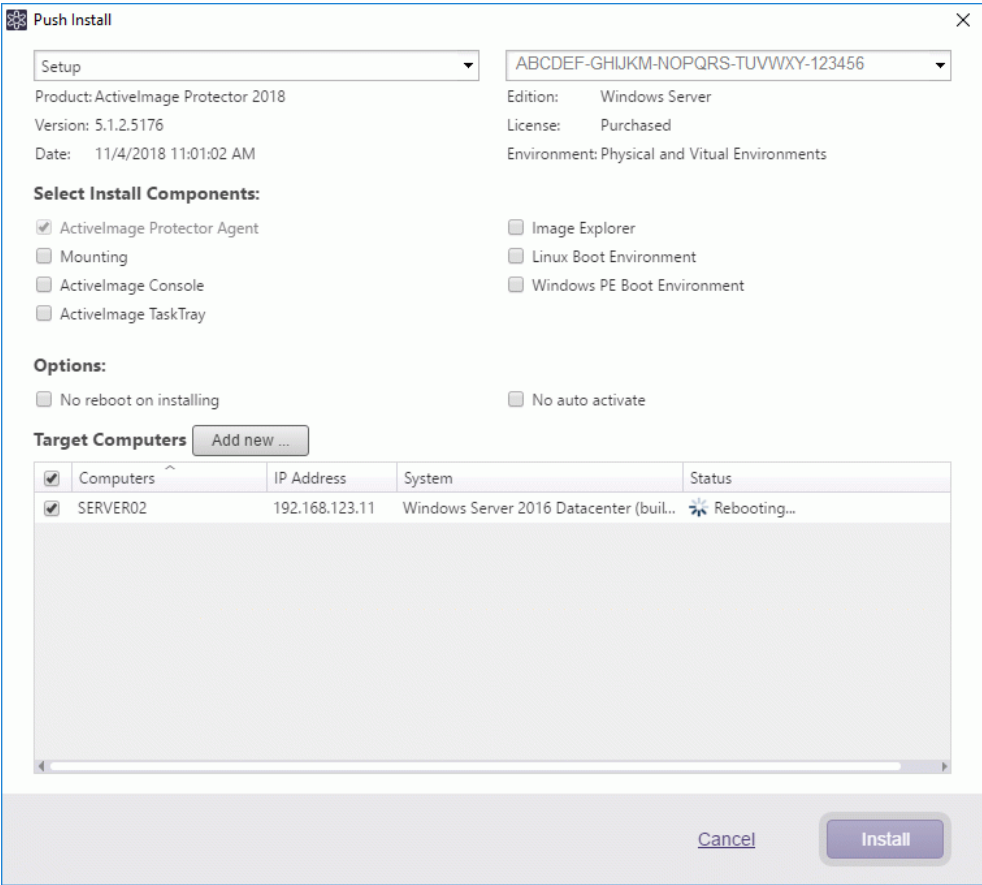


Fig. 2.15 Restarting the system

Push Install completed as shown in Fig. 2.16.

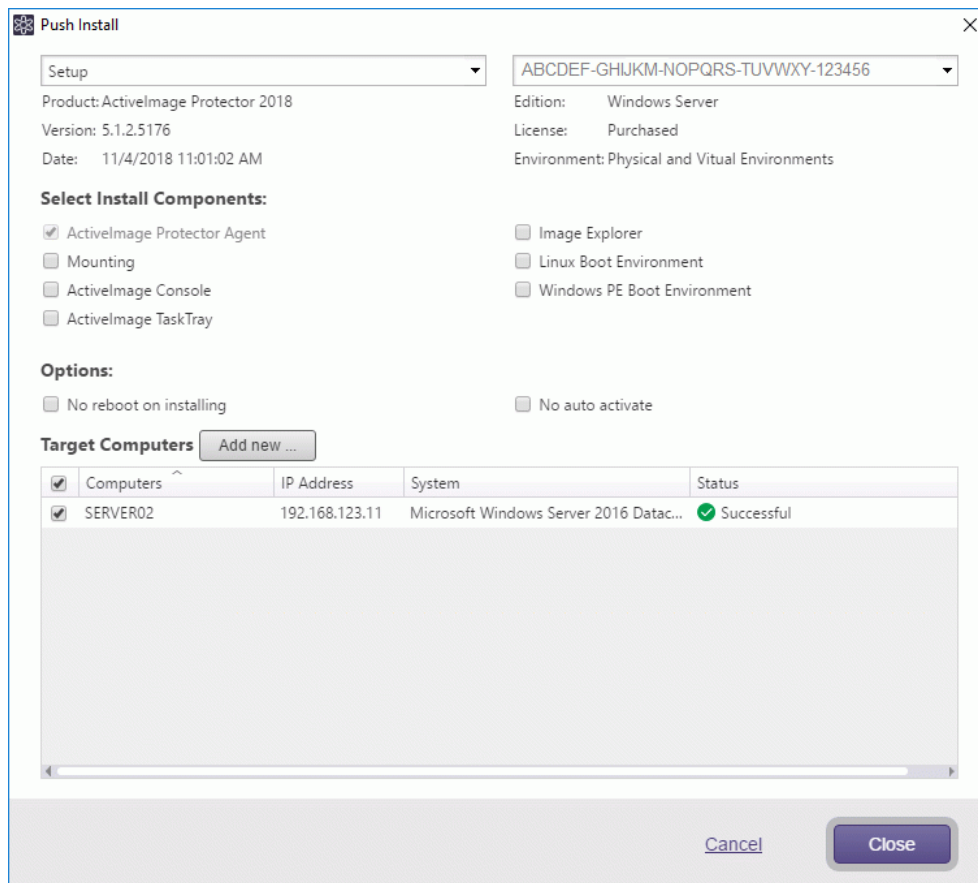


Fig. 2.16 Push Install completed

Click [Close] to close the dialog.

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

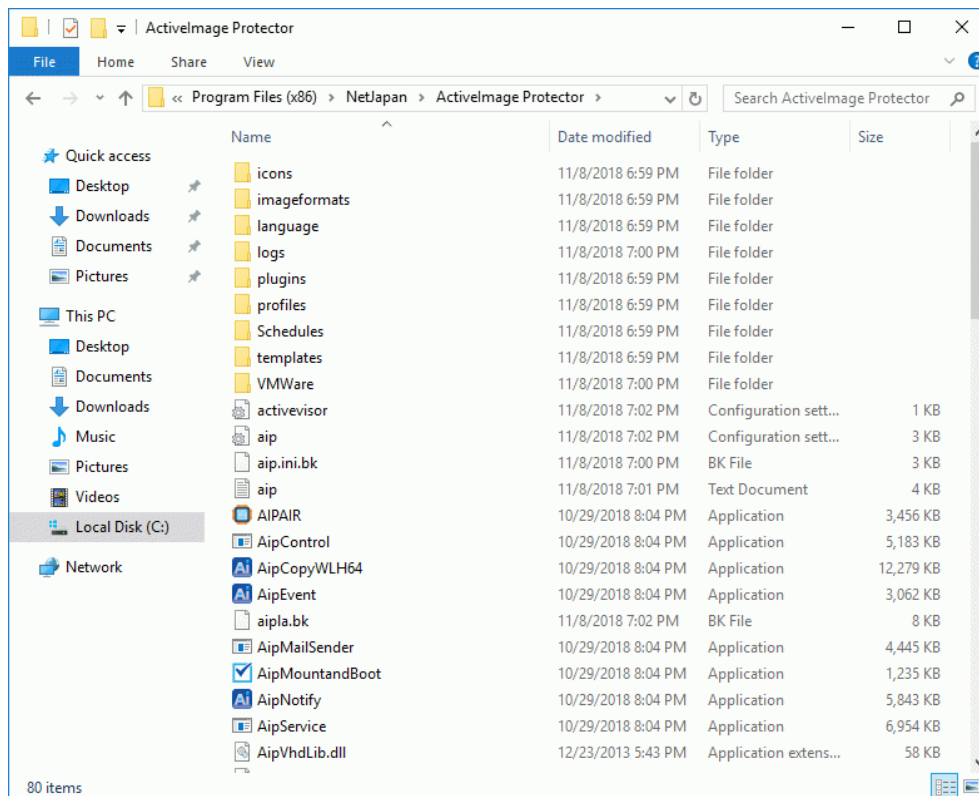


Fig. 2.17 ActiveImage Protector installed on clients

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

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.

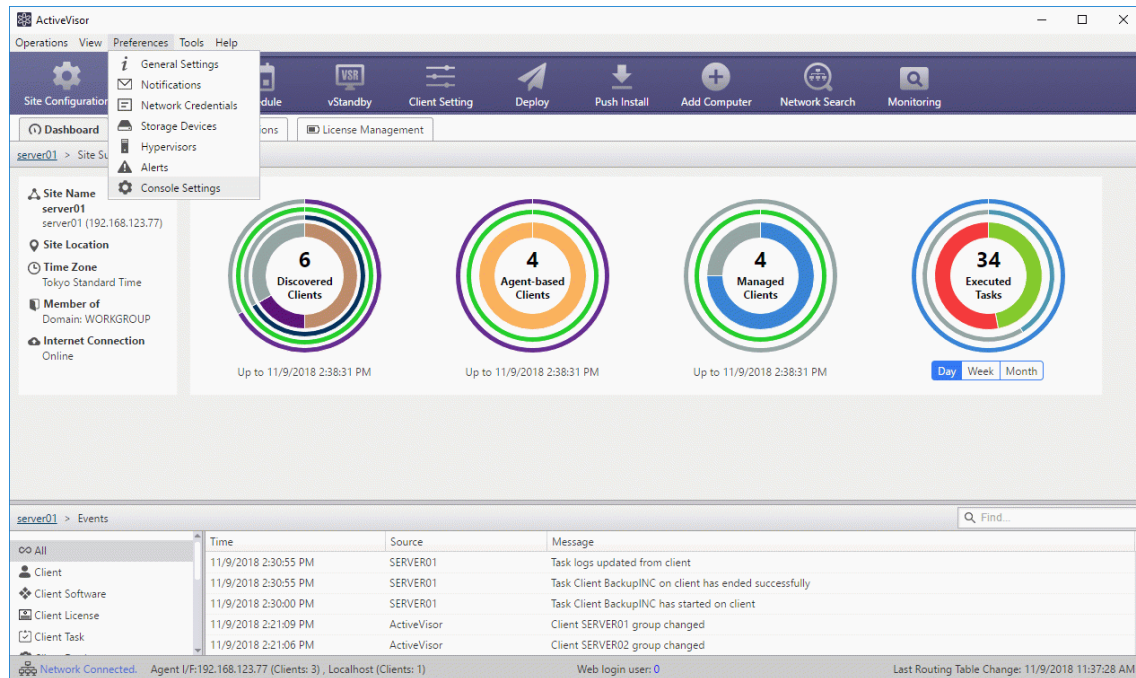


Fig. 2.18 [Preferences] menu

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

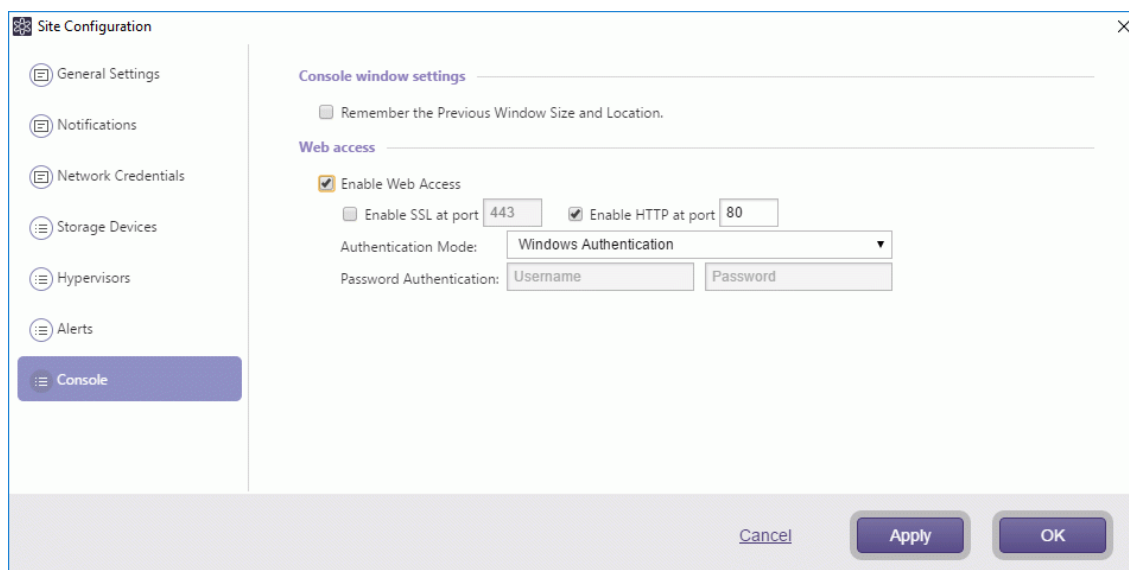


Fig. 2.19 [Console window settings]

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.

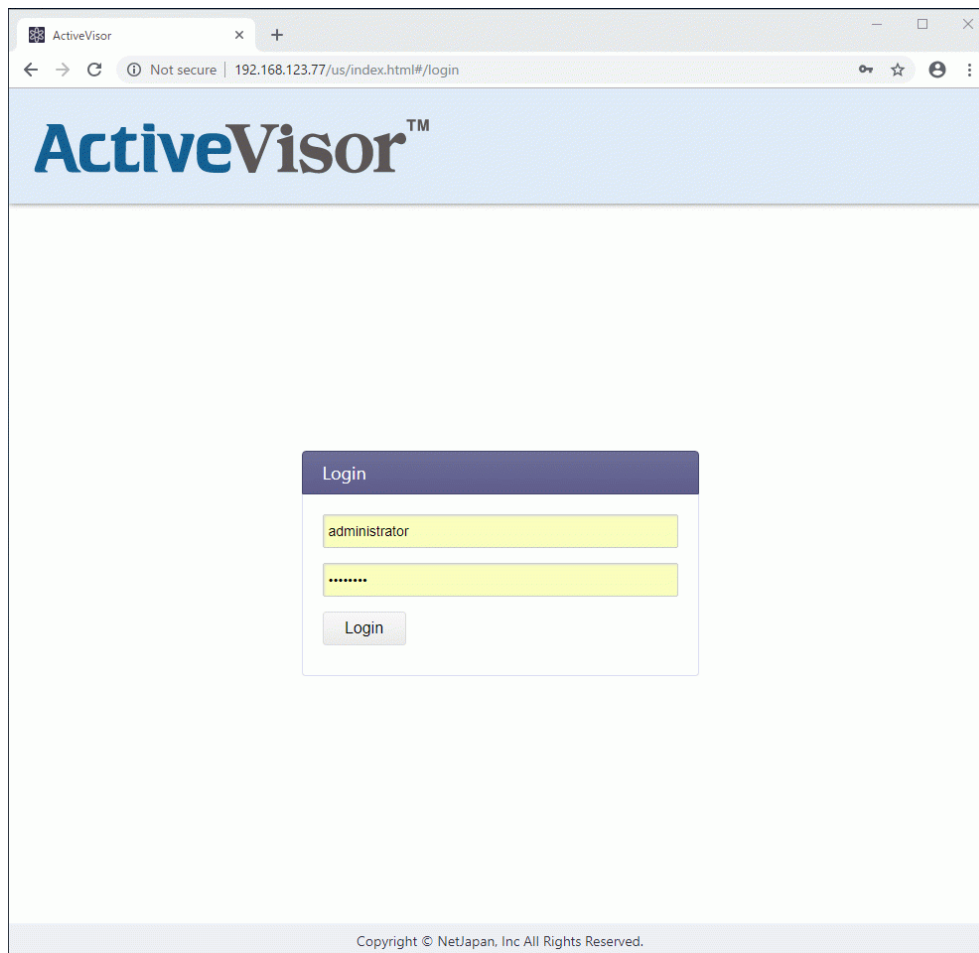


Fig. 2.20 Login dialog

As [Windows Authentication] is selected in the window displayed in above Fig. 19, please enter “administrator” and the password. ActiveVisor’s browser console window is launched.

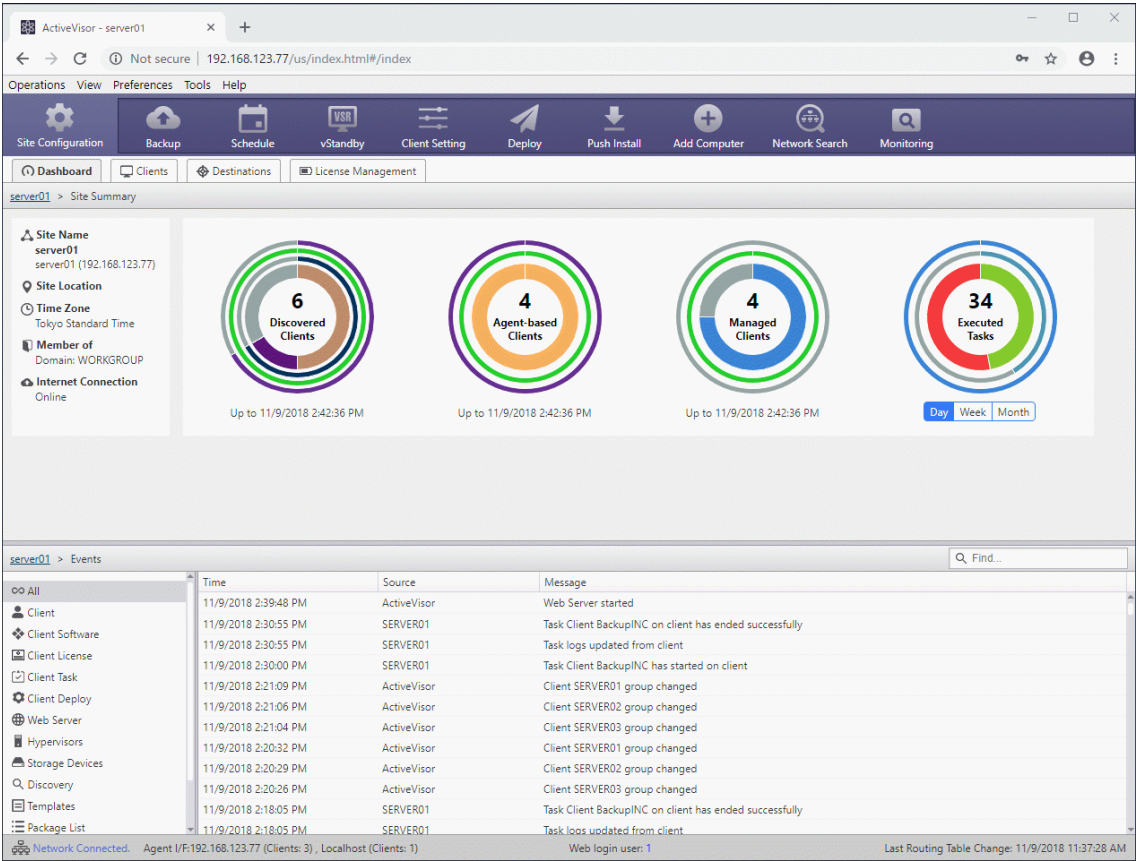


Fig. 2.21 ActiveVisor’s browser console

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.

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

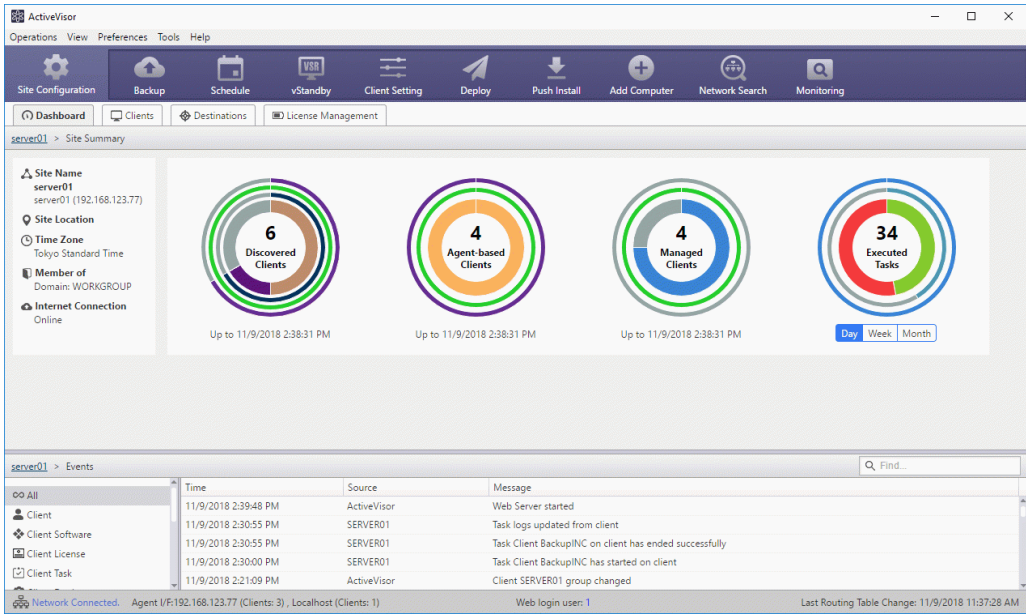


Fig. 2.22 ActiveVisor’s Console window

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

3. Create and Deploy Backup Tasks

This chapter provides the procedures to create client management by using ActiveVisor.

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

3.1 Create Backup Schedule

Activemage Protector allows for flexible schedule settings. 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.

Schedule Template Wizard

1. Schedule 2. Summary

Schedule Template Name: Backup Schedule

Base ?

☒ Monthly

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

[Add New Base](#)

Incremental ?

☒ Weekly

Sun Mon Tue Wed Thu Fri Sat

☒ Multi-times Start Time: 09:00 AM ☒ End Time: 09:00 PM Interval: 60 Min. ▼

☐ One time only: 09:00 AM

[Add New Incremental](#)

Event Backup: ☐ Shutdown/Reboot Option: ☐ Auto run if a scheduled task is missed

Cancel Previous Next Save and Deploy

Fig. 3.1 Schedule Template Wizard

The following example shows how to configure the base and incremental backup schedule. 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 10th 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 '1. Schedule' step of the 'Schedule Template Wizard'. The window title is 'Schedule Template Wizard'. At the top, there are two tabs: '1. Schedule' (active) and '2. Summary'. Below the tabs, the 'Schedule Template Name' is 'Backup Schedule'. Under the 'Base' section, there is a calendar grid with dates 9 through 31, and 'EOM' (End of Month) is selected. The 'Execute Time' is set to '09:00 AM'. Below the calendar, there is a 'Weekly' dropdown menu and a row of days: Sun, Mon, Tue, Wed, Thu, Fri, Sat. A link 'Add New Base' is visible. Under the 'Incremental' section, there are two radio buttons: 'Multi-times' (selected) and 'One time only'. The 'Multi-times' section has fields for 'Start Time' (09:00 AM), 'End Time' (09:00 PM), and 'Interval' (60 Min). The 'One time only' section has a field for '09:00 AM'. Below these, there is a 'Monthly' dropdown menu and a calendar grid with dates 1 through 24. A link 'Add New Incremental' is visible. At the bottom, there are two checkboxes: 'Event Backup: Shutdown/Reboot' and 'Option: Auto run if a scheduled task is missed'. At the very bottom, there are four buttons: 'Cancel', 'Previous', 'Next' (highlighted), and 'Save and Deploy'.

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

Click [Next] to display Summary window as follows.

The screenshot shows the '2. Summary' step of the 'Schedule Template Wizard'. The window title is 'Schedule Template Wizard'. At the top, there are two tabs: '1. Schedule' and '2. Summary' (active). Below the tabs, the 'Schedule Template Name' is 'Backup Schedule'. Under the 'Regularly schedule backup task' section, there is a checkbox 'Regularly schedule backup task' which is checked. Below this, there are two lines of text: 'Base(Full): Monthly: 10th, 09:00' and 'Incremental: Weekly: Mon, Tue, Wed, Thu, Fri, 09:00 - 21:00, 60Minutes'. Below these, there is a label 'Event:' followed by a blank space. At the bottom, there are four buttons: 'Cancel', 'Previous', 'Save' (highlighted), and 'Save and Deploy'.

Fig. 3.3 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. 3.3, clicking the [Save and Deploy] 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 [Client] tab to display a list of the created and saved backup schedules.

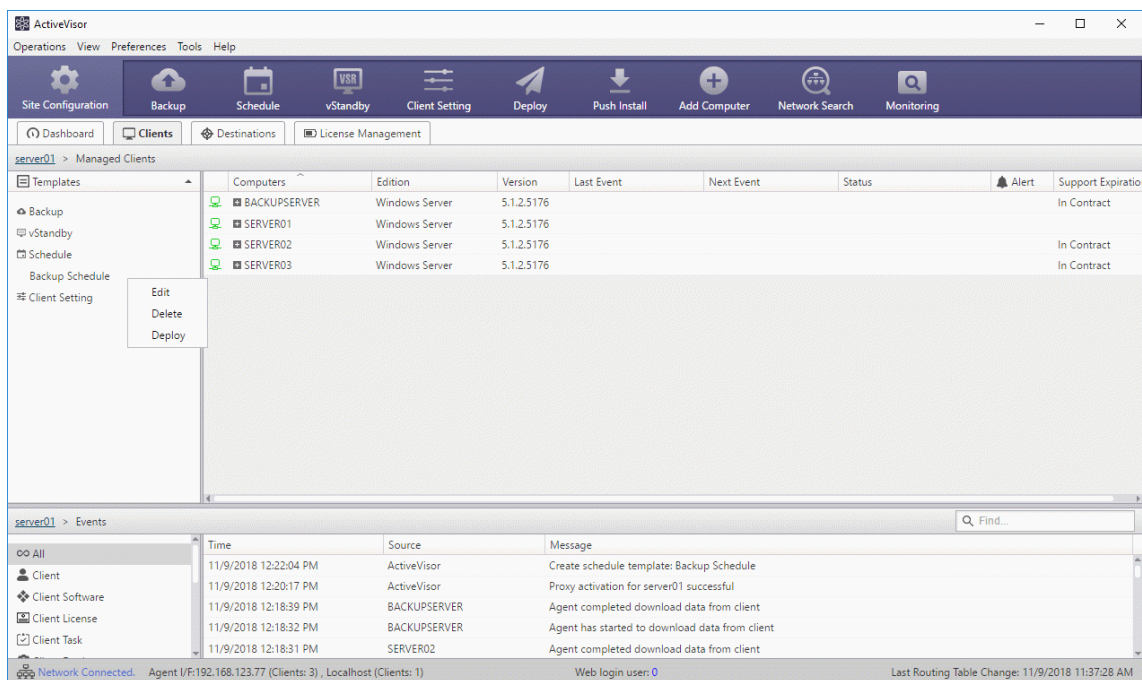


Fig. 3.4 [Templates] displays backup schedule

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 to launch the Backup Template Wizard.

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](#) [Previous](#) [Next](#) [Save and Deploy](#)

Fig. 3.5 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.

This new version provides a way to specify a volume layout for the backup source.

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

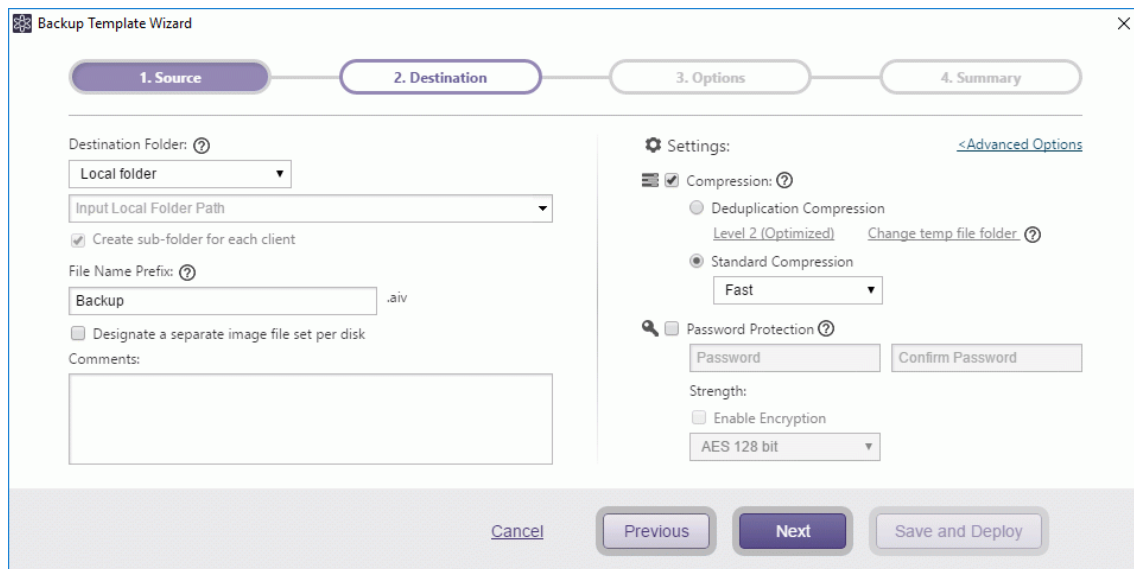


Fig. 3.6 Destination Setting

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].

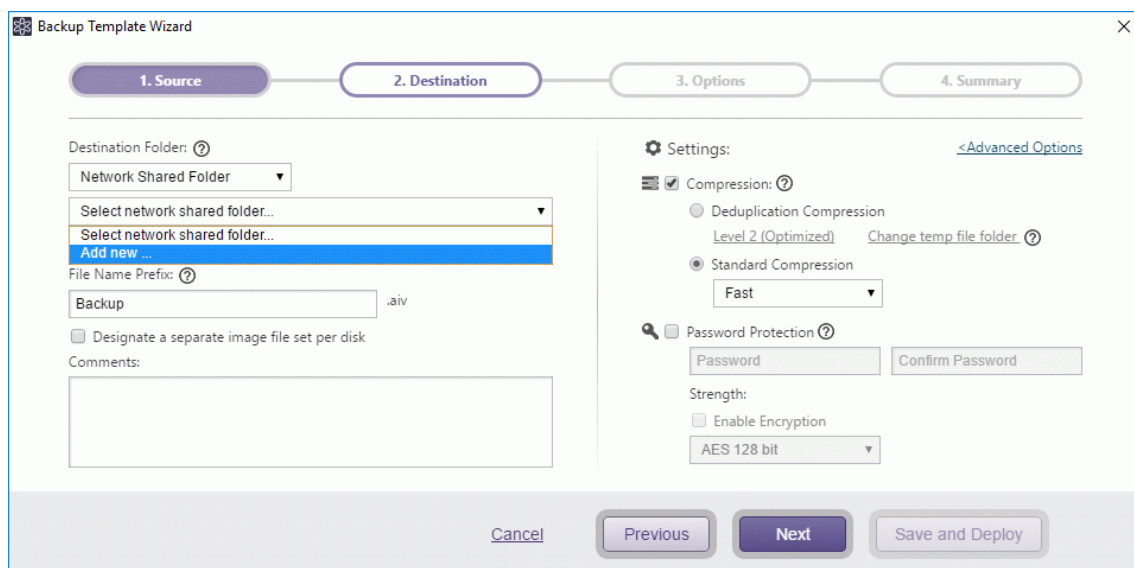


Fig. 3.7 Select [Network shared folder]

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

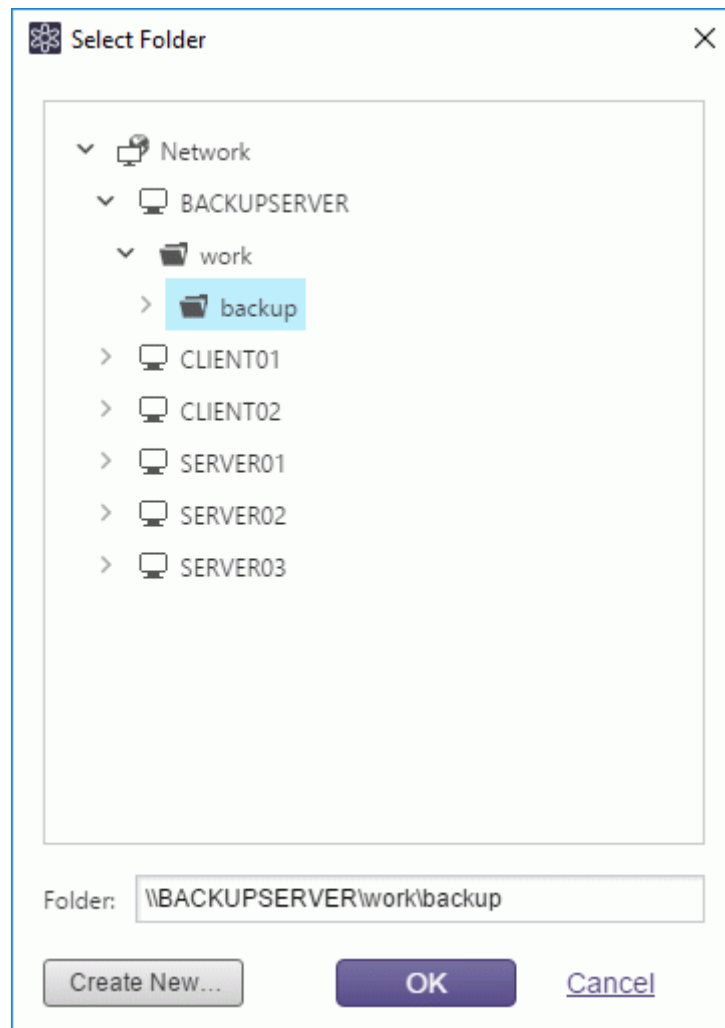


Fig. 3.8 Select Folder

The destination setting window is displayed as shown in Fig. 3.9.

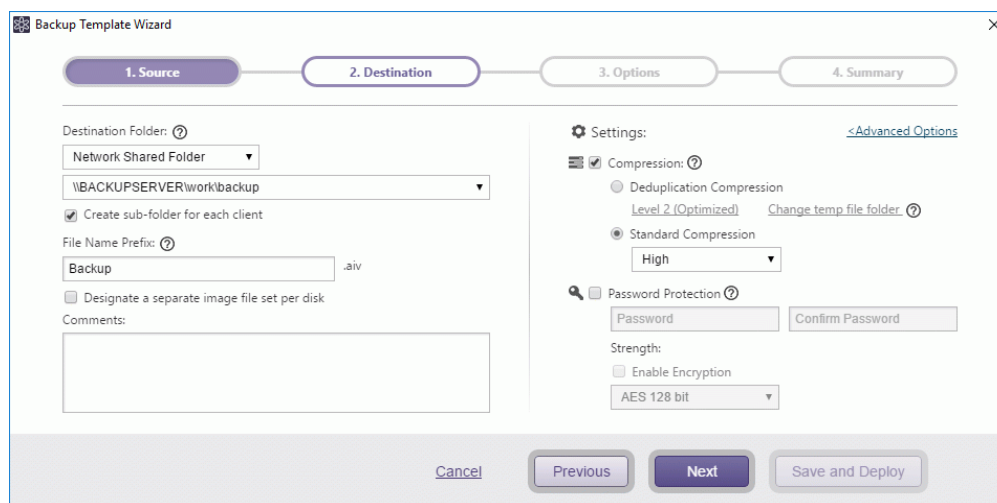


Fig. 3.9 Example of the destination setting

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. 3.9 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.

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

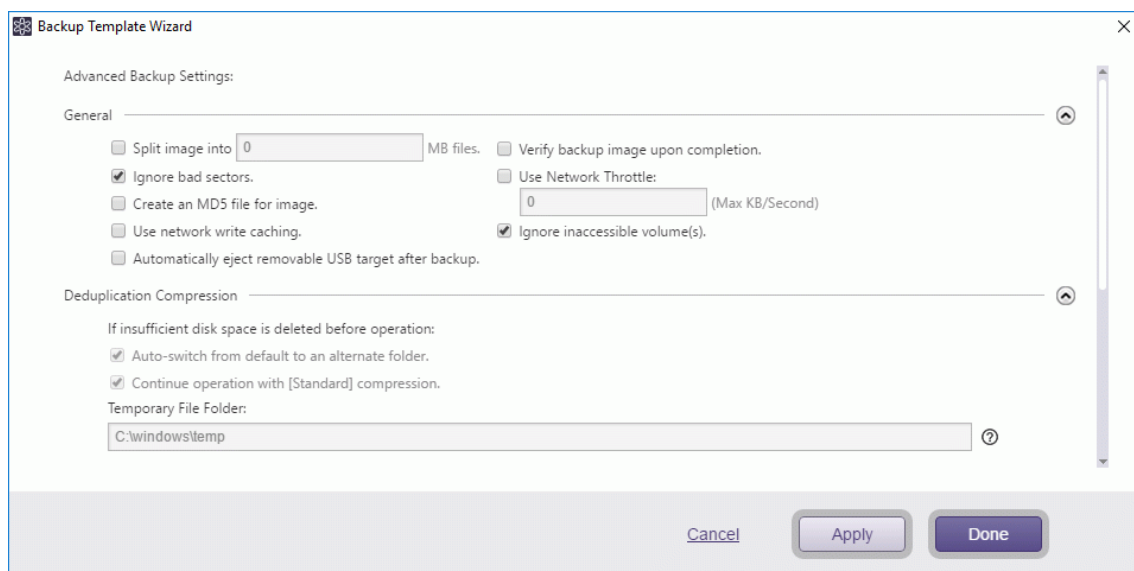


Fig. 3.10 Advanced Options

[General] options are provided as shown in Fig. 3.10.

- Split image into xx MB files.
- Ignore bad sectors.
- Create an MD5 file for image.
- Use network write caching.
- Automatically eject removable USB target after backup.
- Verify backup image upon completion
- Use network throttle
- Ignore inaccessible volume(s)

There are three advanced options for [Deduplication Compression] as shown in Fig. 3.10:

- 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. 3.9 and click [Next] to proceed with the [Options] setting.

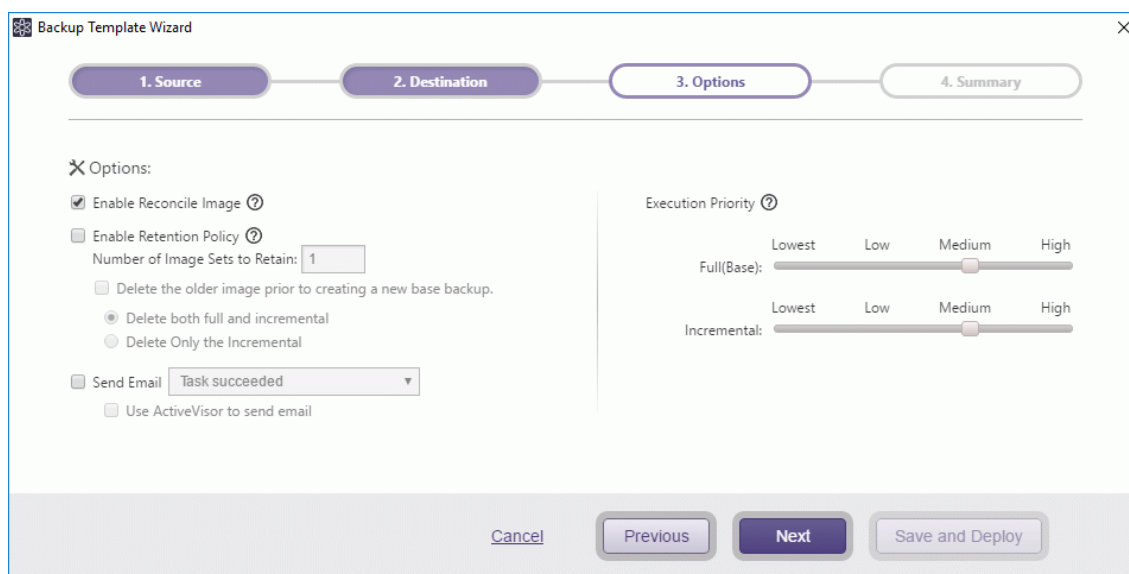


Fig. 3.11 [Options] setting

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.

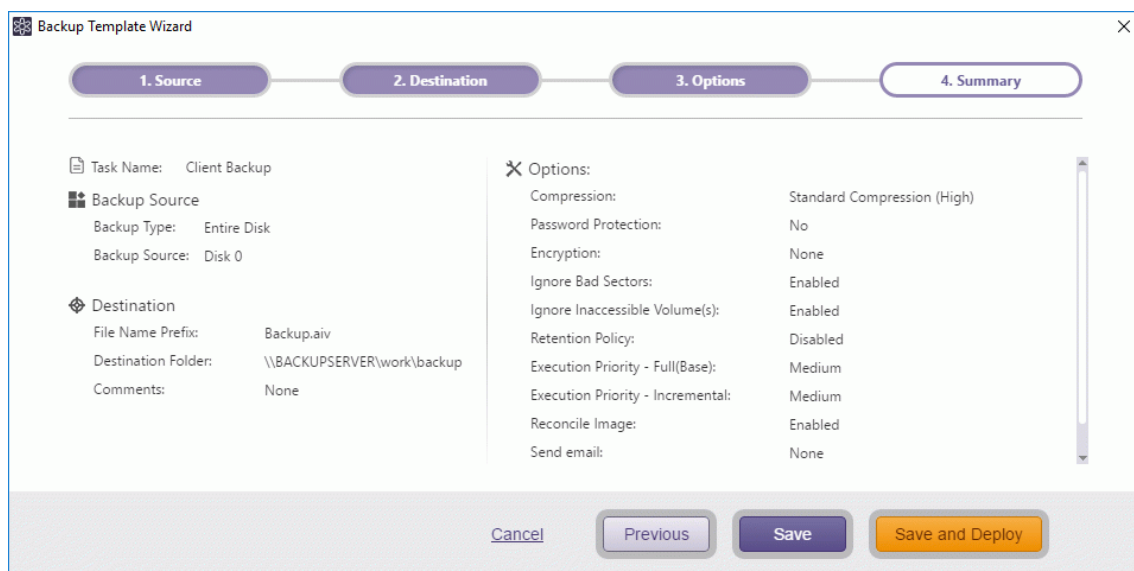


Fig. 3.12 Summary

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

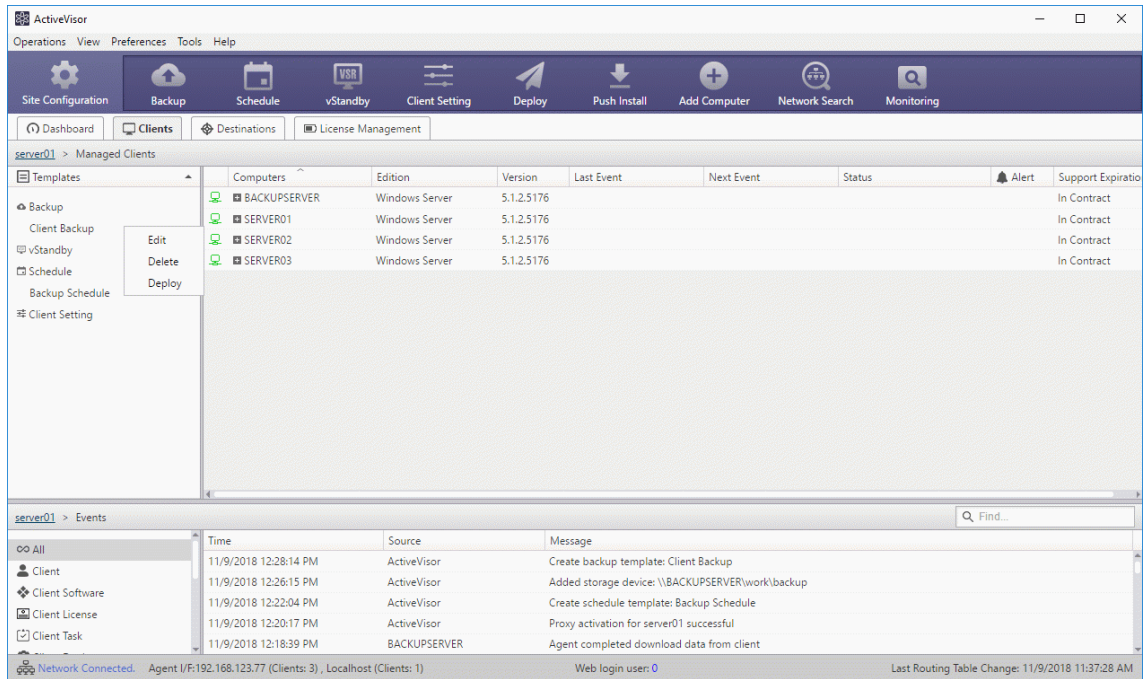


Fig. 3.13 Ensure the backup template is saved in [Template]

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

3.3 Deploy to Target Clients

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

- Backup
- Schedule
- vStandby Task
- Client Settings

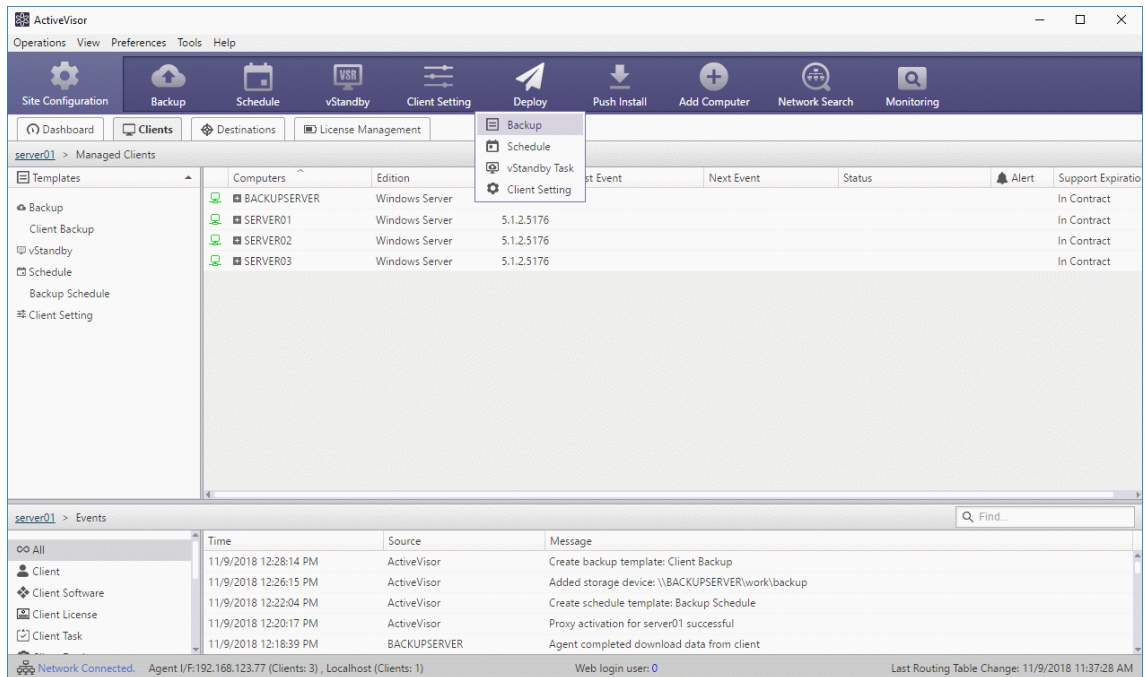


Fig. 3.14 [Deploy] Menu

To deploy the backup settings, select [Backup] in the sub-menu to launch the Deploy Dialog as follows:

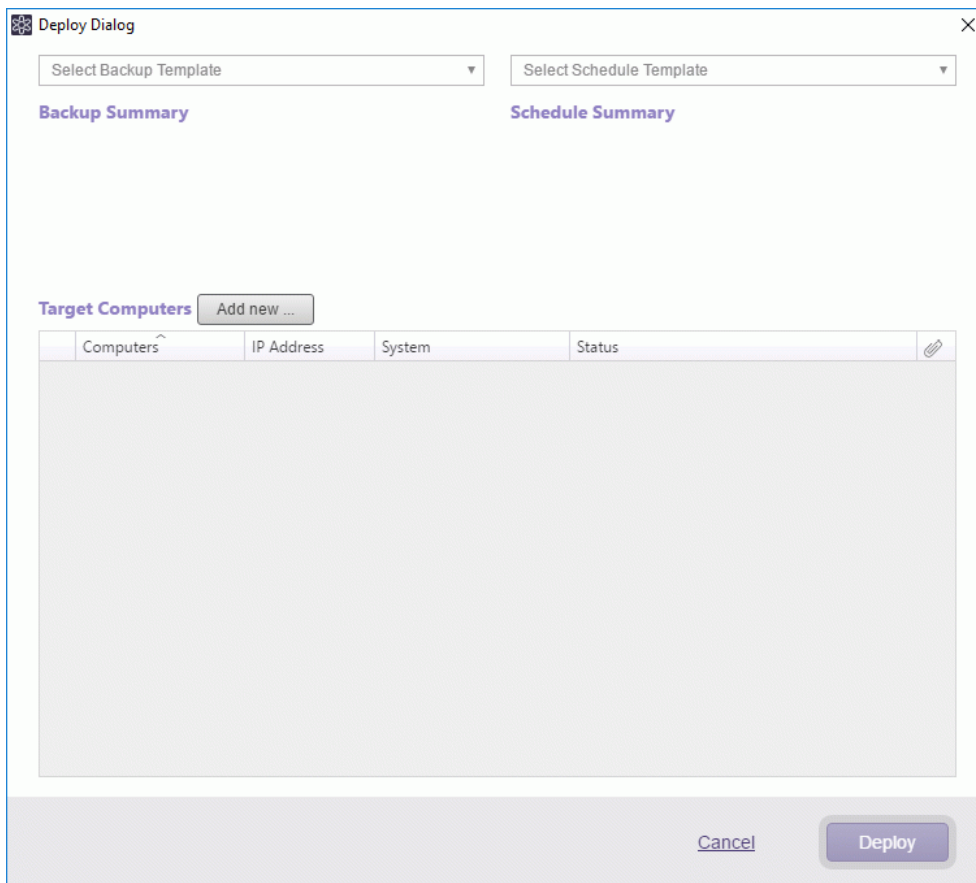


Fig. 3.15 Deploy Dialog

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

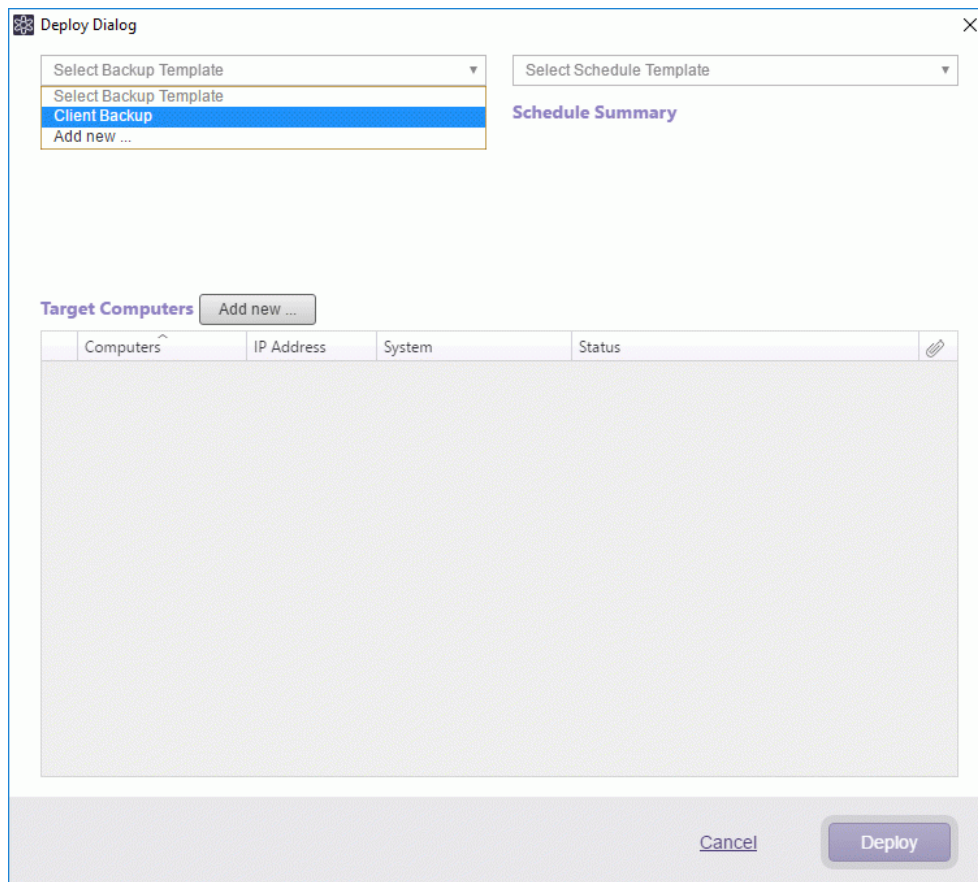


Fig. 3.16 Pull-down menu displayed for [Select Backup Template]

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

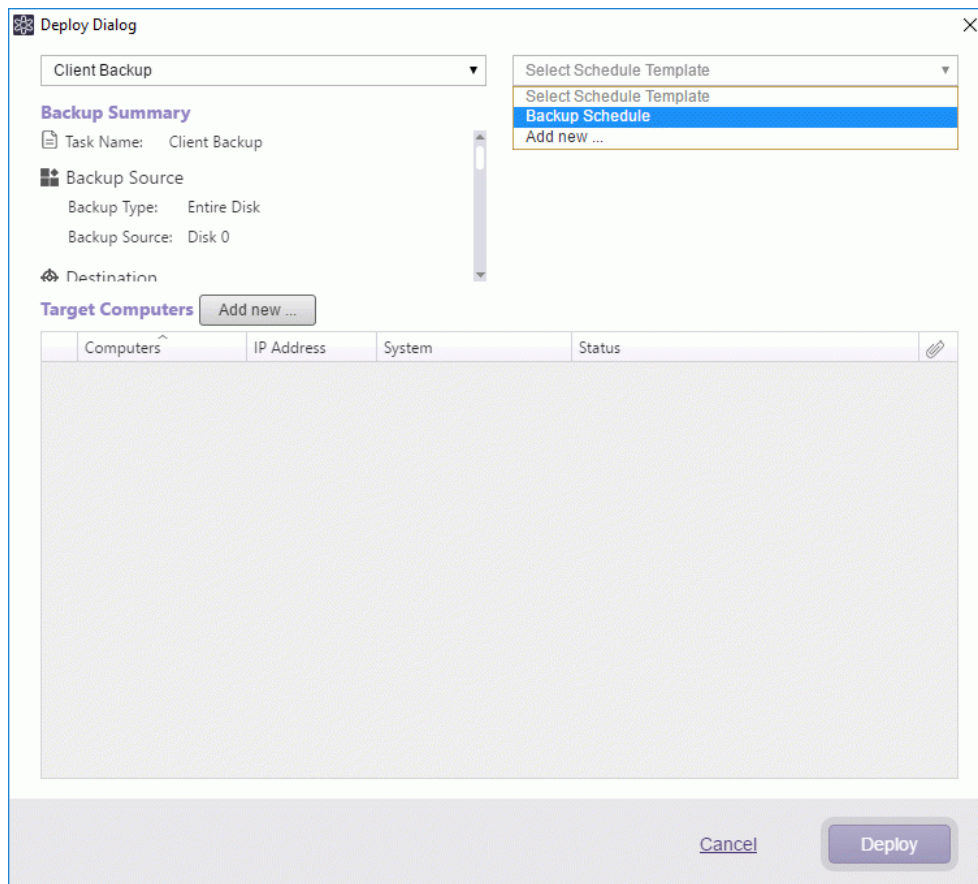


Fig. 3.17 Pull-down menu displayed for [Select Schedule Template]

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

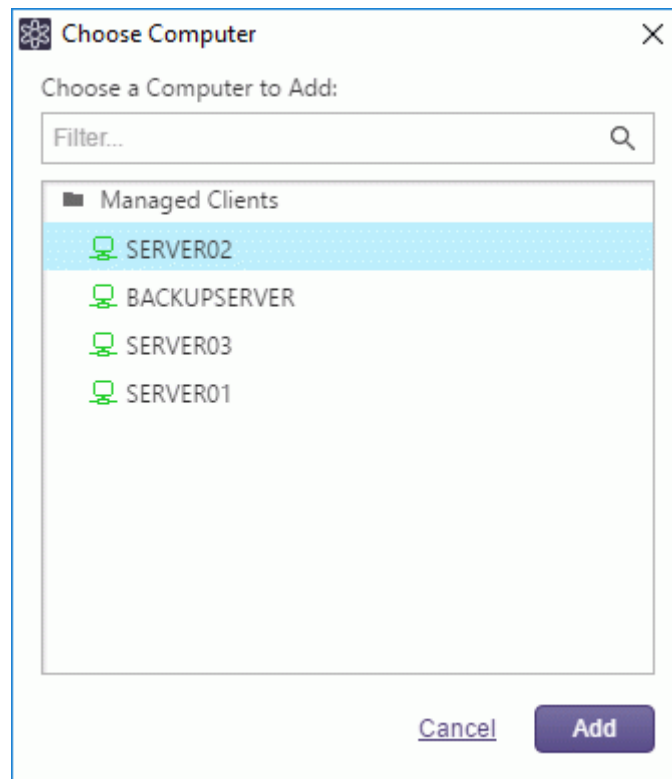


Fig. 3.18 Select Clients

Select clients as shown in Fig. 3.18. Click [Add] to add clients under [Managed Clients].

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

- Client Backup** (selected in the dropdown)
- Backup Summary**
 - Task Name: Client Backup
 - Backup Source:
 - Backup Type: Entire Disk
 - Backup Source: Disk 0
 - Destination: (empty)
- Execution Options**
 - ☒ Delay Schedule for Each Client: 5 min
 - ☐ Deploy Schedule Disabled
 - When Tasks Conflict Between Deployed and Existing:
 - ☒ Disable previous schedules
 - ☐ Delete previous tasks
 - ☐ Keep existing tasks
- Target Computers**
 - Computers: SERVER02
 - IP Address: 192.168.123.11
 - System: Windows Server 2016
 - Status: (empty)
- Schedule Summary**
 - Base(Full): Monthly: 10th, 09:00
 - Incremental: Weekly: Monday, Tuesday, Wednesday, Thursday, Friday, 09:00 - 21:00, 60 Minutes
 - Event: (empty)
- Effective Dates/Time**
 - From: 11/09/2018 12:29 PM
 - To: 11/09/2019 12:29 PM
 - ☒ Not Specific

Buttons: Cancel, Deploy

Fig. 3.19 Add Clients to Managed Clients

You can select Execution Options as follows:

- [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. 3.20.

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

- Client Backup** (selected in the dropdown)
- Backup Schedule** (selected in the dropdown)
- Backup Summary**
 - Task Name: Client Backup
 - Backup Source
 - Backup Type: Entire Disk
 - Backup Source: Disk 0
 - Destination
- Execution Options**
 - ☒ Delay Schedule for Each Client: 5 min
 - ☐ Deploy Schedule Disabled
 - When Tasks Conflict Between Deployed and Existing:
 - ☒ Disable previous schedules
 - ☐ Delete previous tasks
 - ☐ Keep existing tasks
- Effective Dates/Time**
 - From: 11/09/2018 12:29 PM
 - To: 11/09/2019 12:29 PM
 - ☒ Not Specific
- Target Computers**
 - Buttons: Add new ...
 - Table:

Computers	IP Address	System	Status
SERVER02	192.168.123.11	Windows Server 2016	Successful

At the bottom right, there are 'Cancel' and 'Close' buttons.

Fig. 3.20 Deploy succeeded

In the [Client] tab, [Deploy Successful] is indicated in [Status] when deploy tasks succeed.

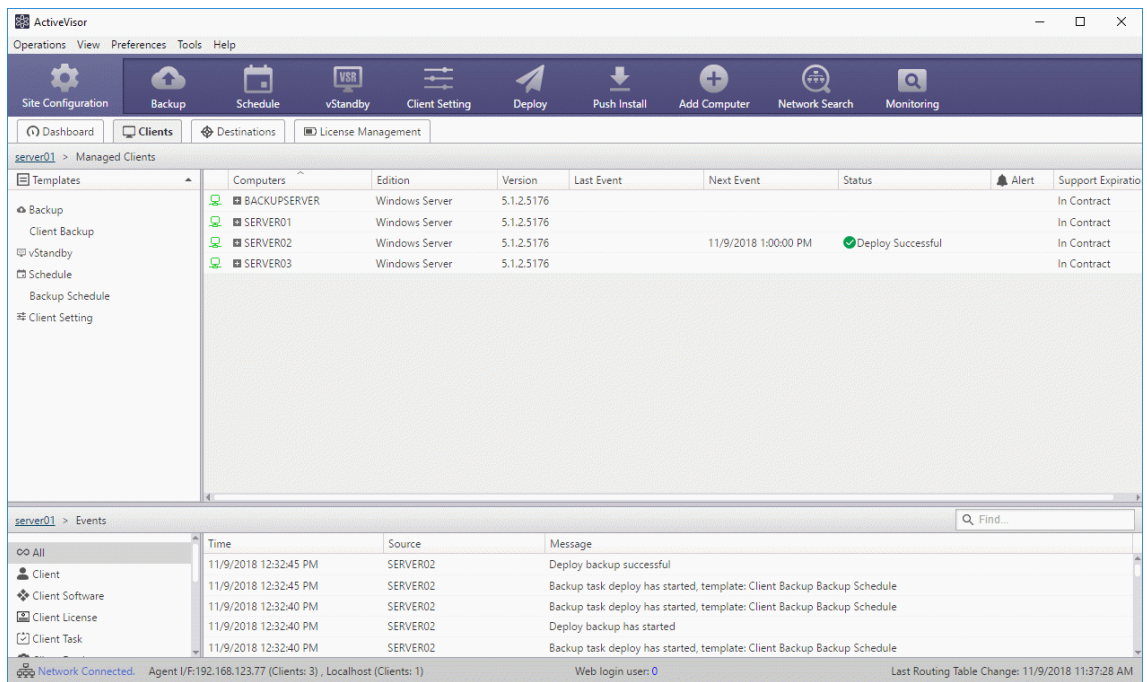


Fig. 3.21 Monitor the status of Deploy task in the [Client] tab

In the [Deploy] menu as shown in Fig. 3.14, select [Schedule] to display Deploy dialog as shown in Fig. 3.22.

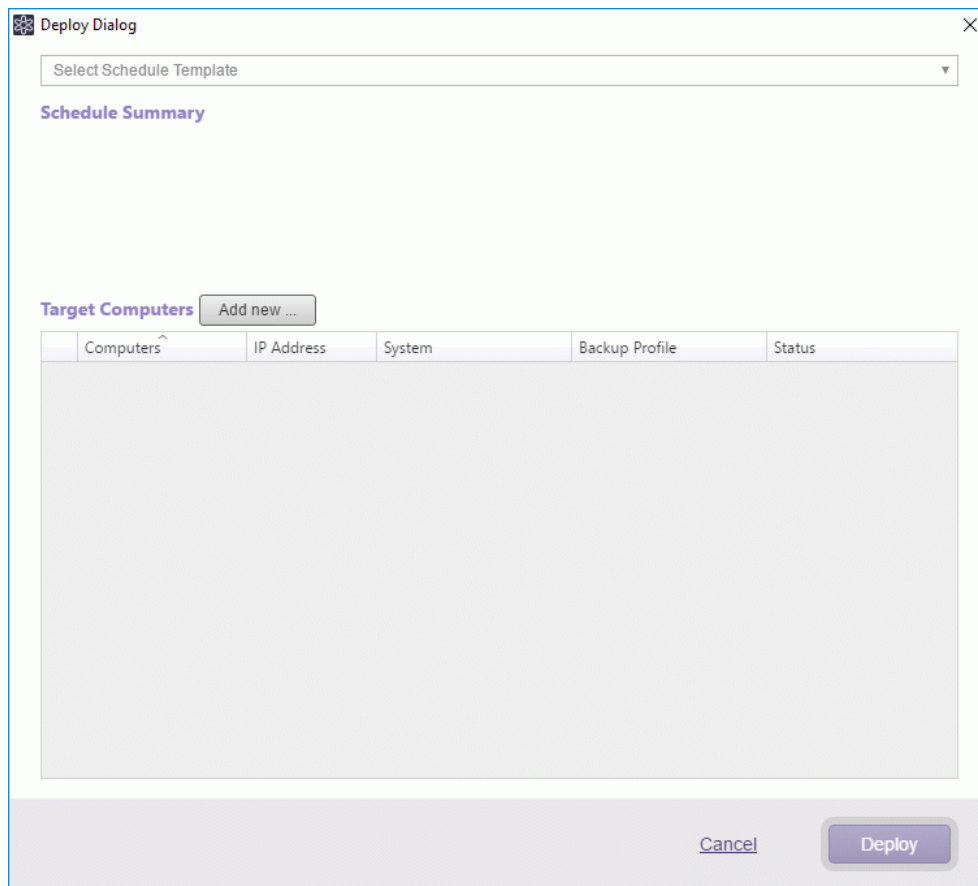


Fig. 3.22 Select [Schedule] in Deploy menu to display Deploy Dialog

You can select a backup schedule only. [Schedule] in Deploy menu works the same as [Deploy Backup Schedule] in the [Backup] menu. It is recommended to use this command to edit backup schedules only.

4. Client Management by using ActiveVisor

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 clients, OS types, number of managed clients, ActiveImage Protector editions installed on clients, and successful or failed backup tasks.

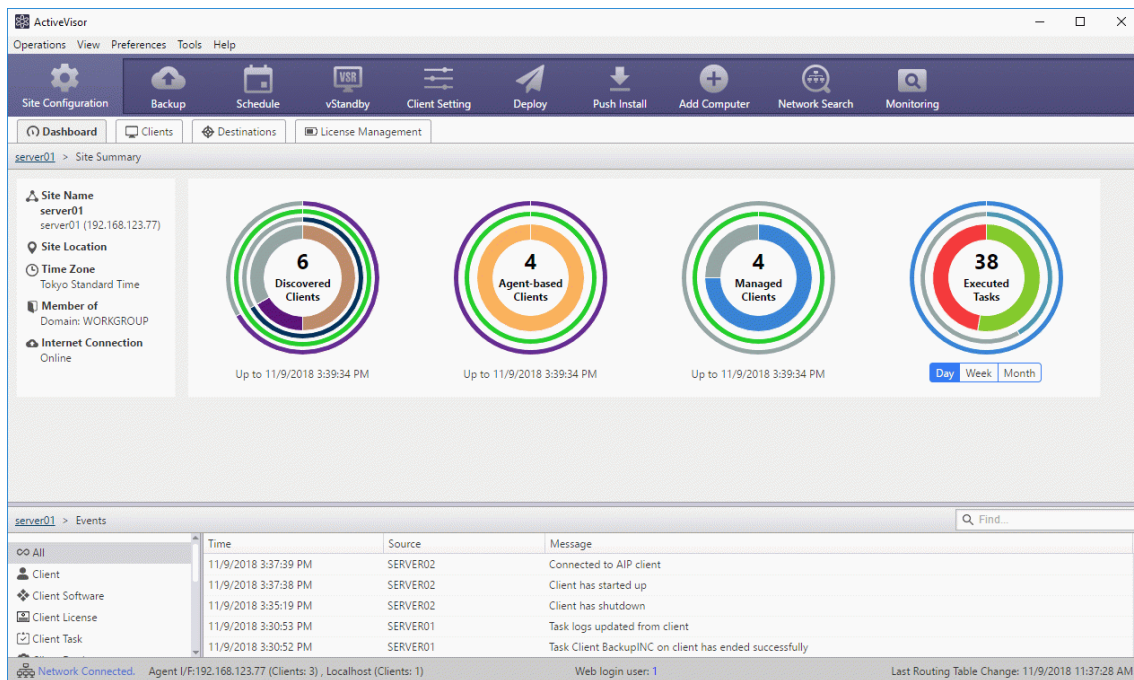


Fig. 4.1 [Dashboard] tab

4.2 [Client] tab

[Client] tab shows the found clients and created templates.

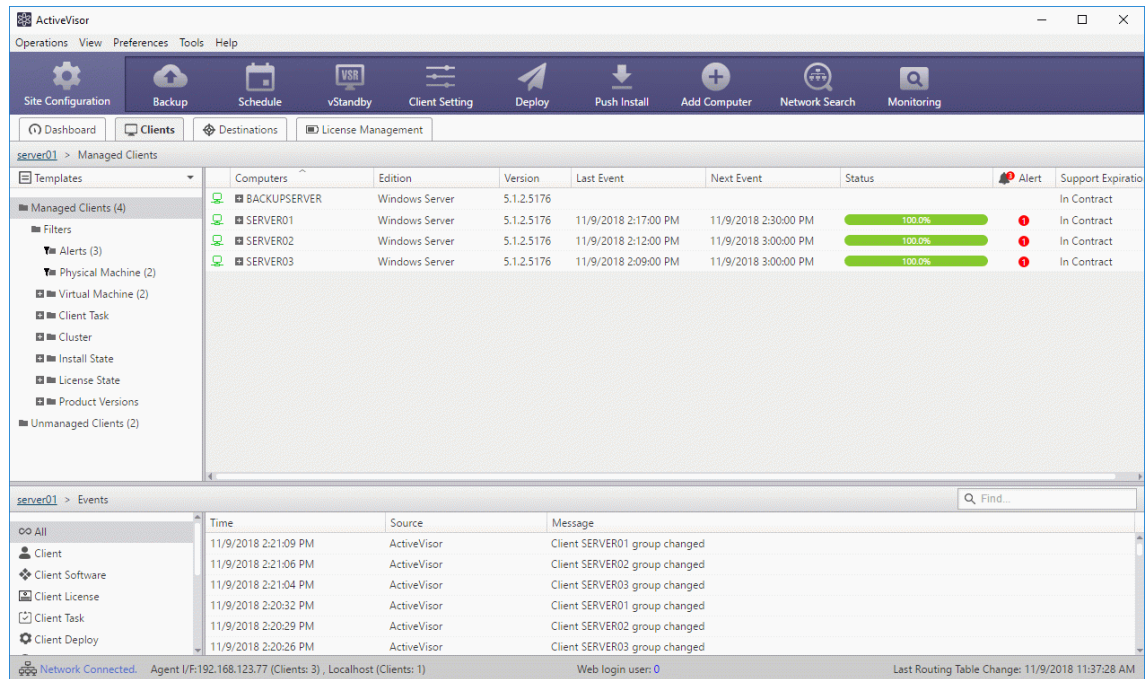


Fig. 4.2 [Client] tab indicates managed clients

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.

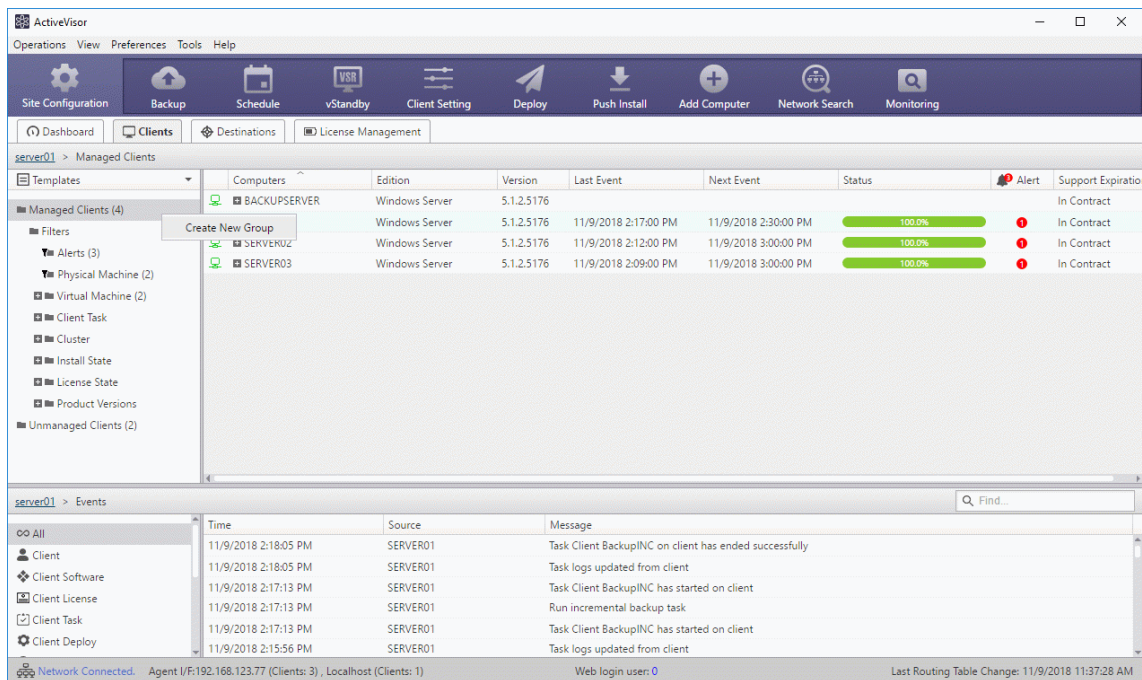


Fig. 4.3 [Create New Group] menu

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

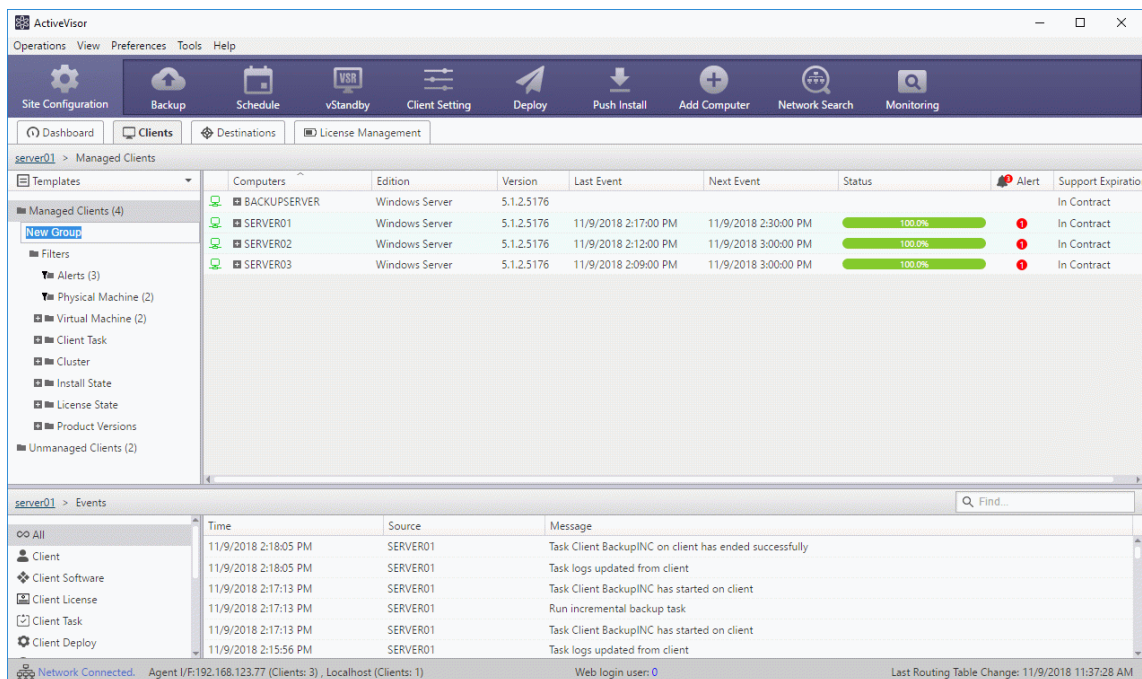


Fig. 4.4 Create Sub-group

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.

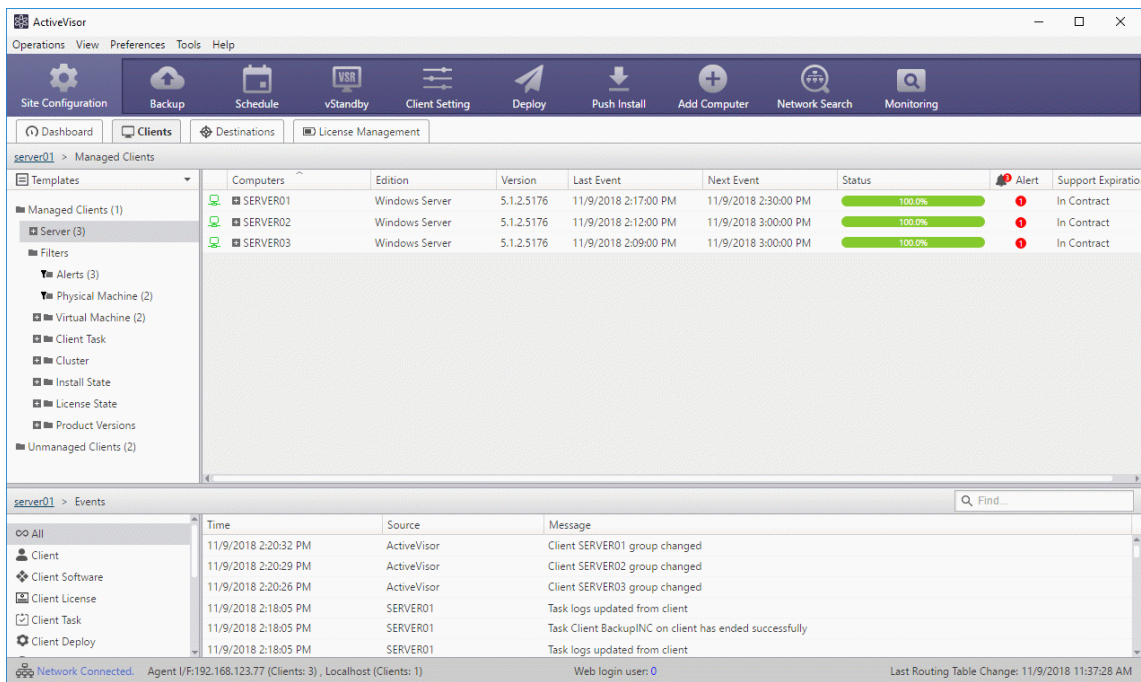


Fig. 4.5 Grouping clients

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

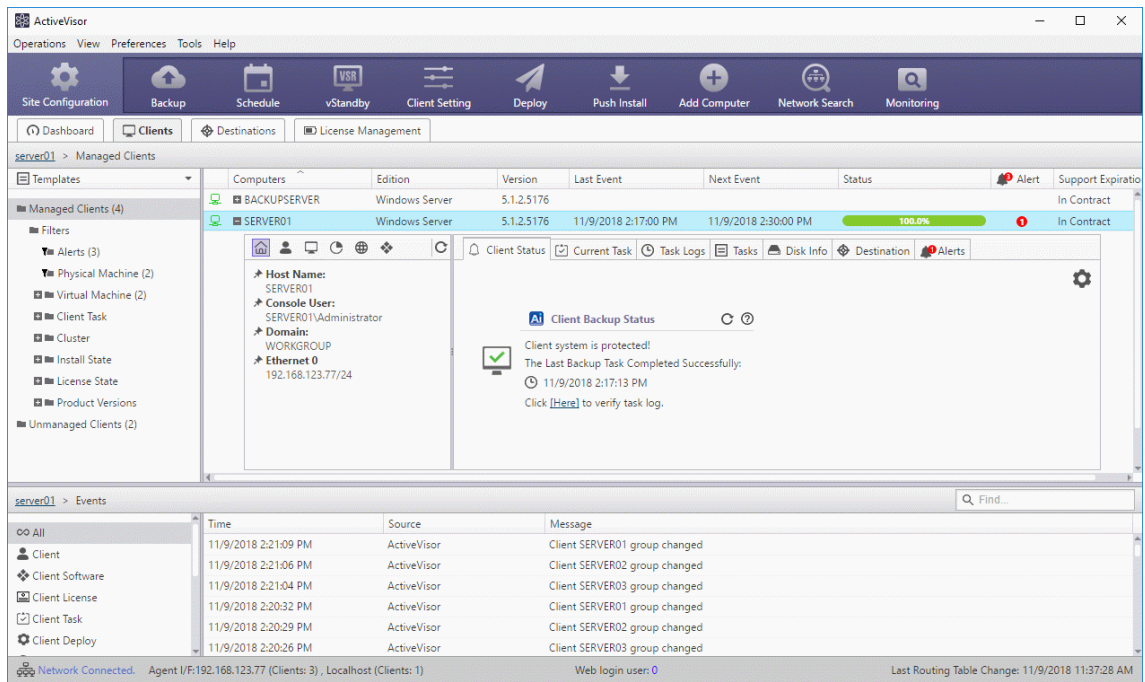


Fig. 4.6 Detailed client information

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

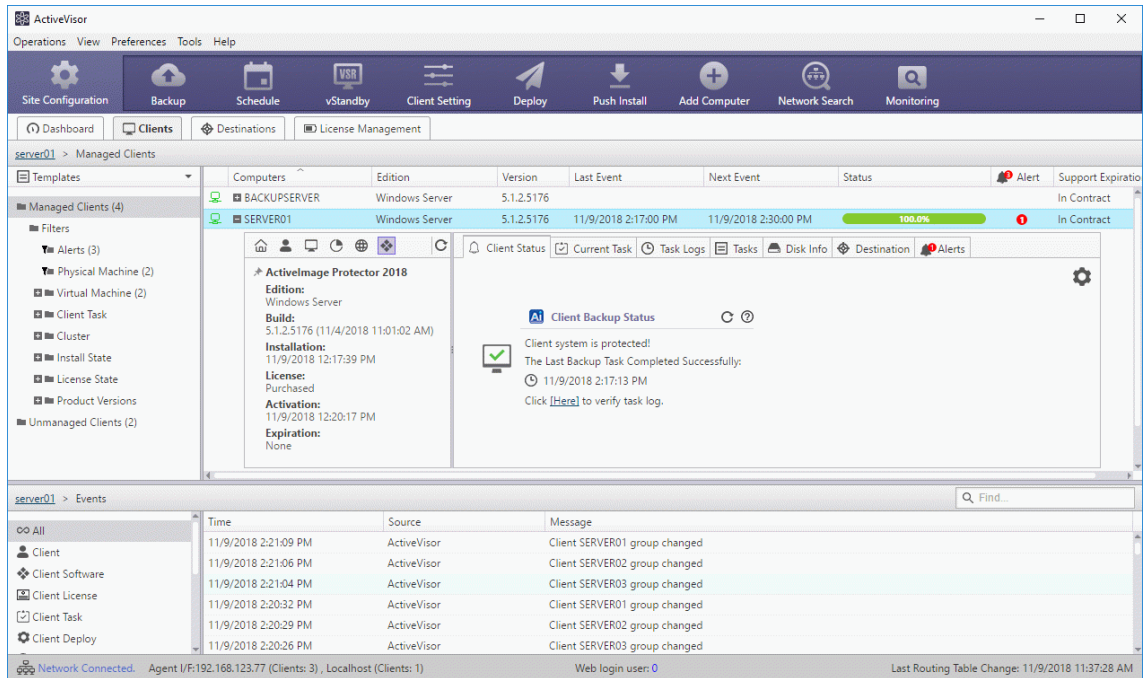


Fig. 4.7 ActiveImage Protector agent on clients

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. 4.7).

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

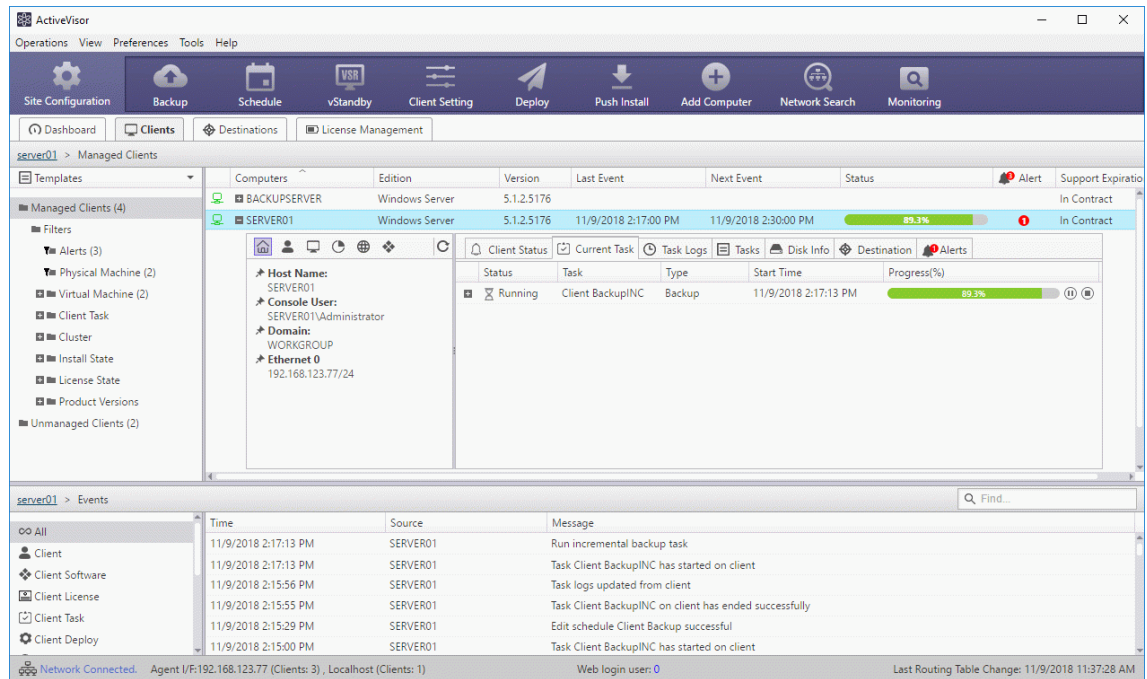


Fig. 4.8 [Current Task] tab

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

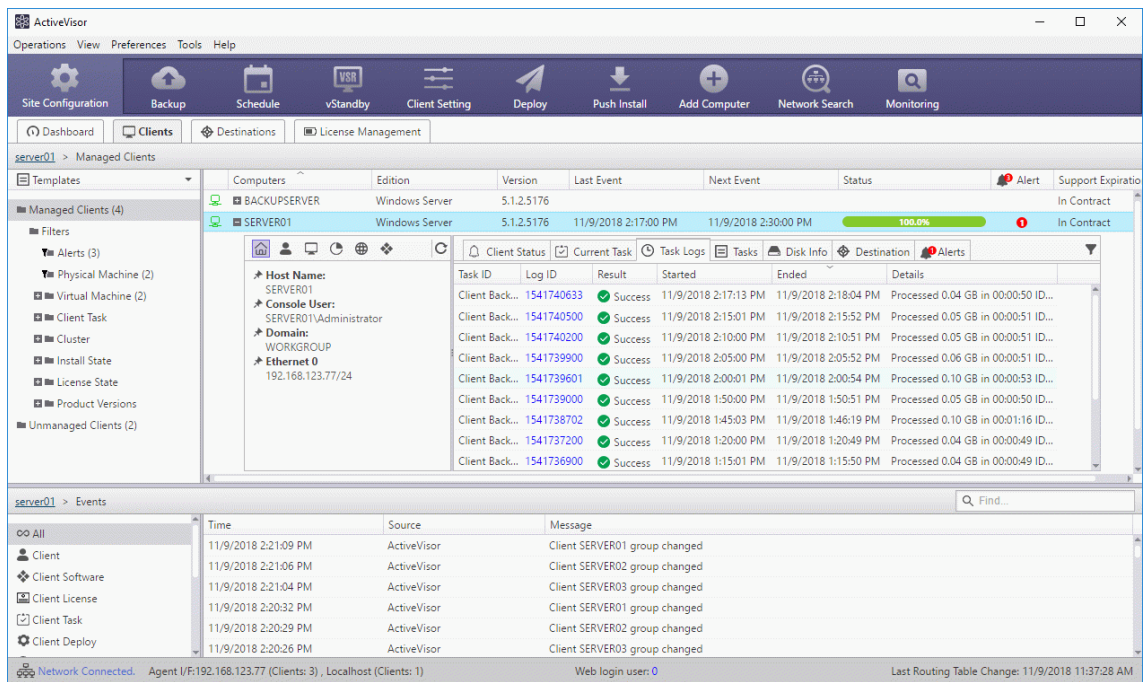


Fig. 4.9 [Task Log] tab

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

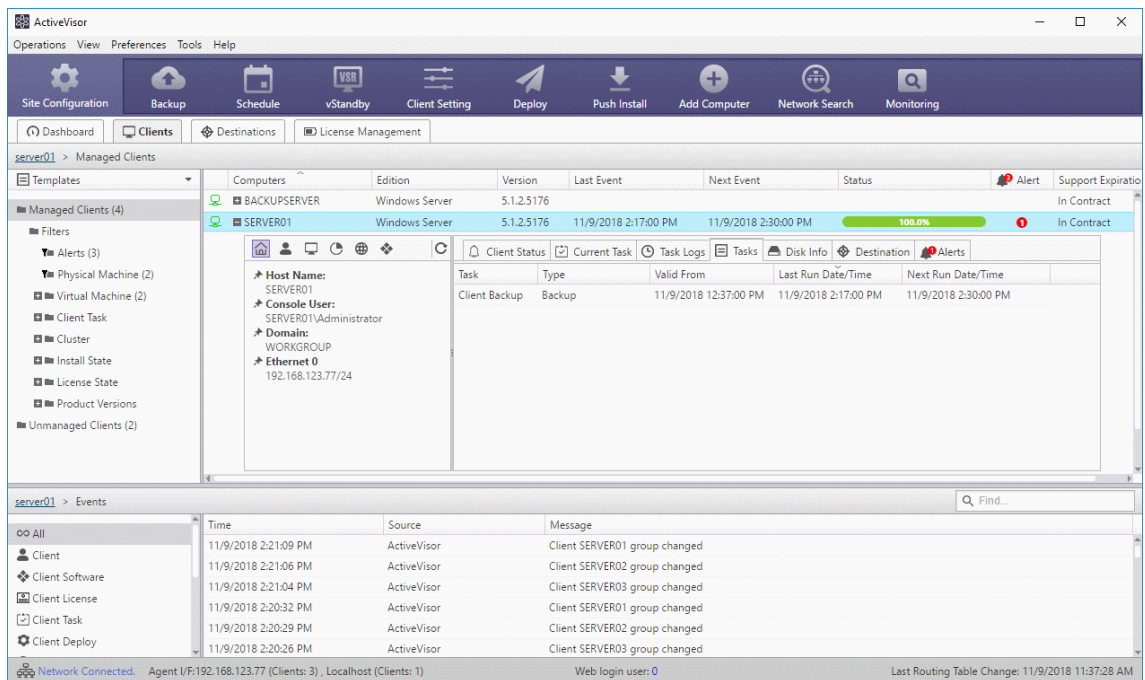


Fig. 4.10 [Task] tab

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

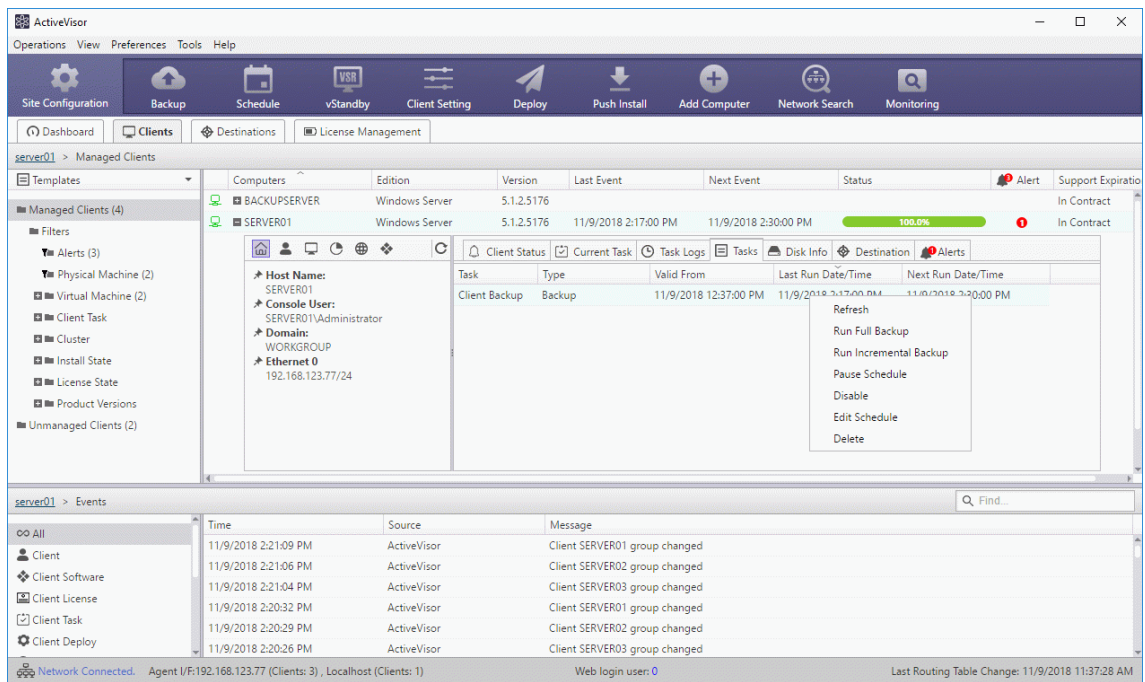


Fig. 4.11 Context menu for initiating a task operation

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

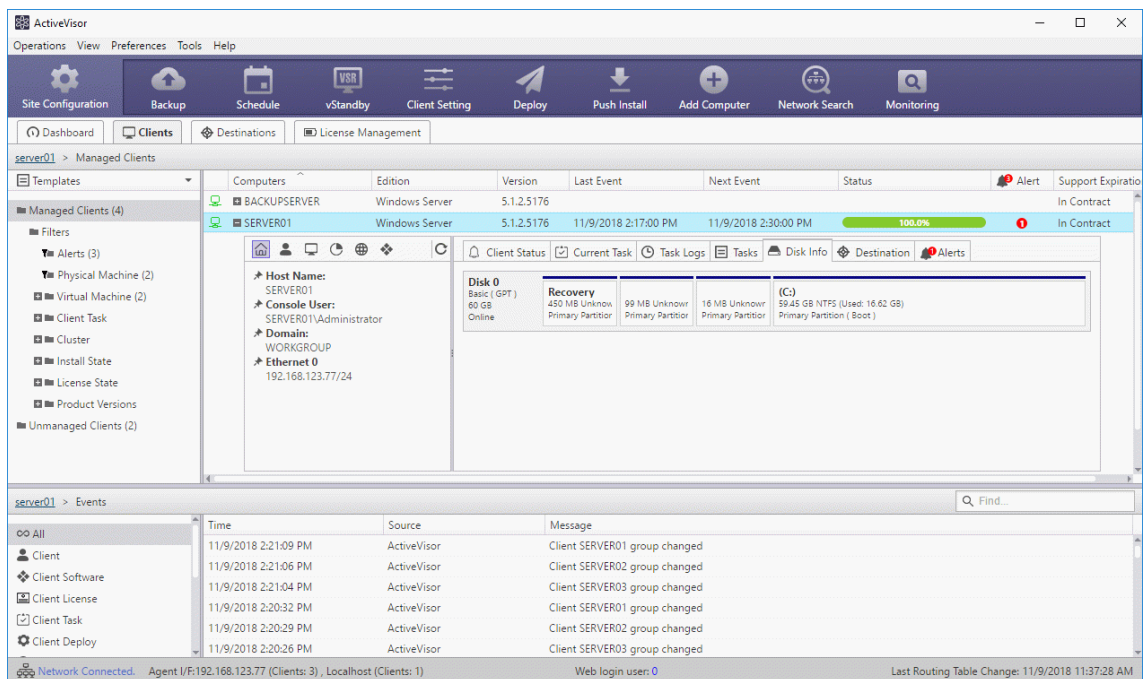


Fig. 4.12 [Disk Information] tab

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

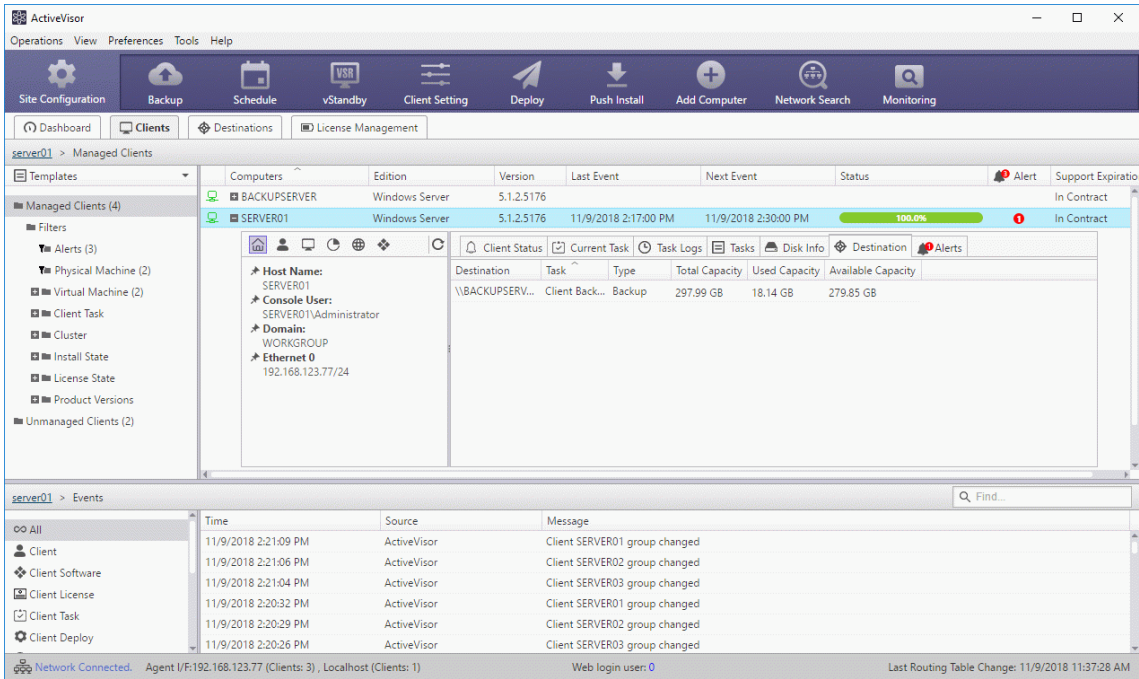


Fig. 4.13 [Destination] tab

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

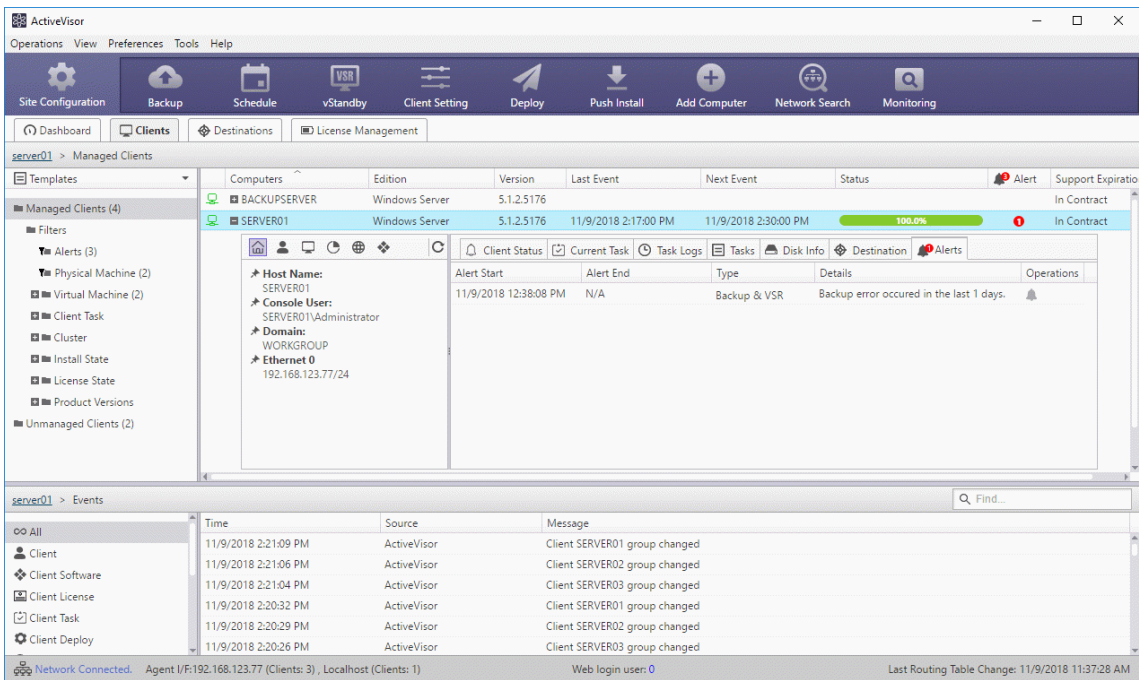


Fig. 4.14 [Alert] tab

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.

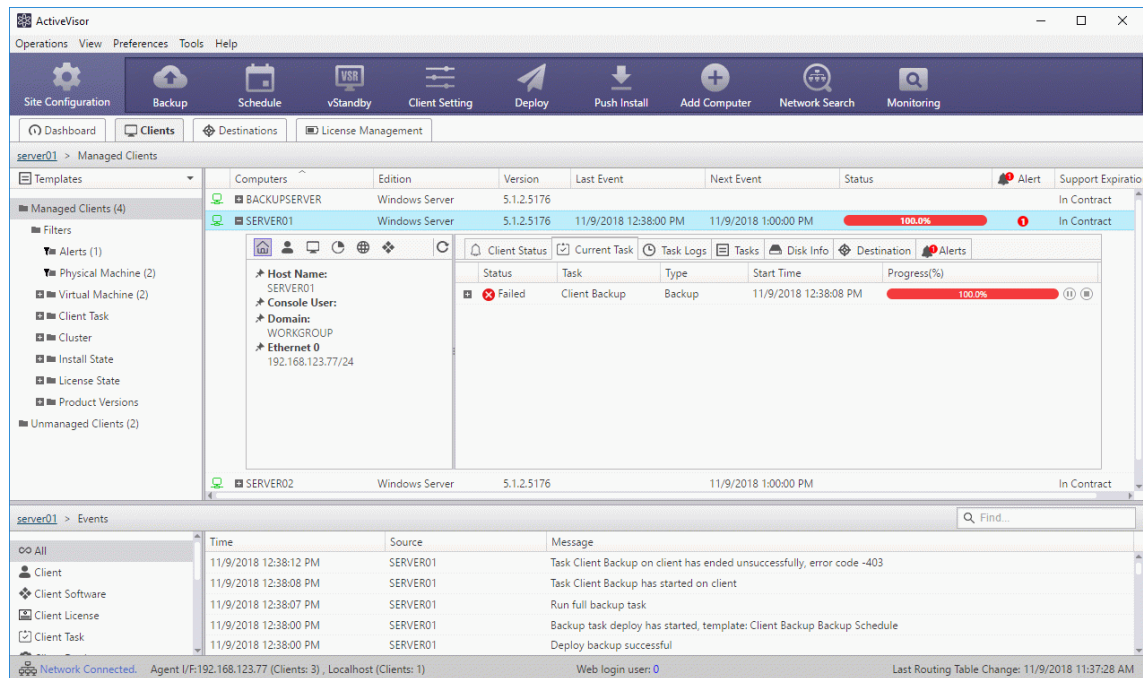


Fig. 4.15 [Task Log] tab in the event of failure

4.3 [Destination] tab

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

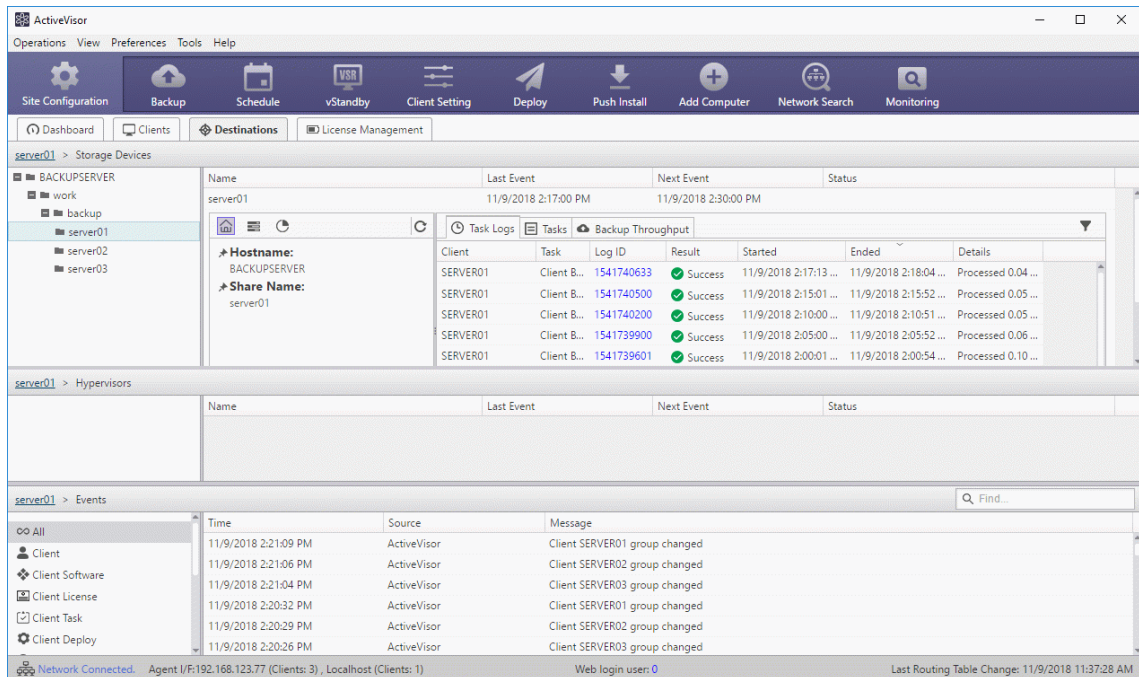


Fig. 4.16 [Destiantion] tab

4.4 [License Management] tab

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

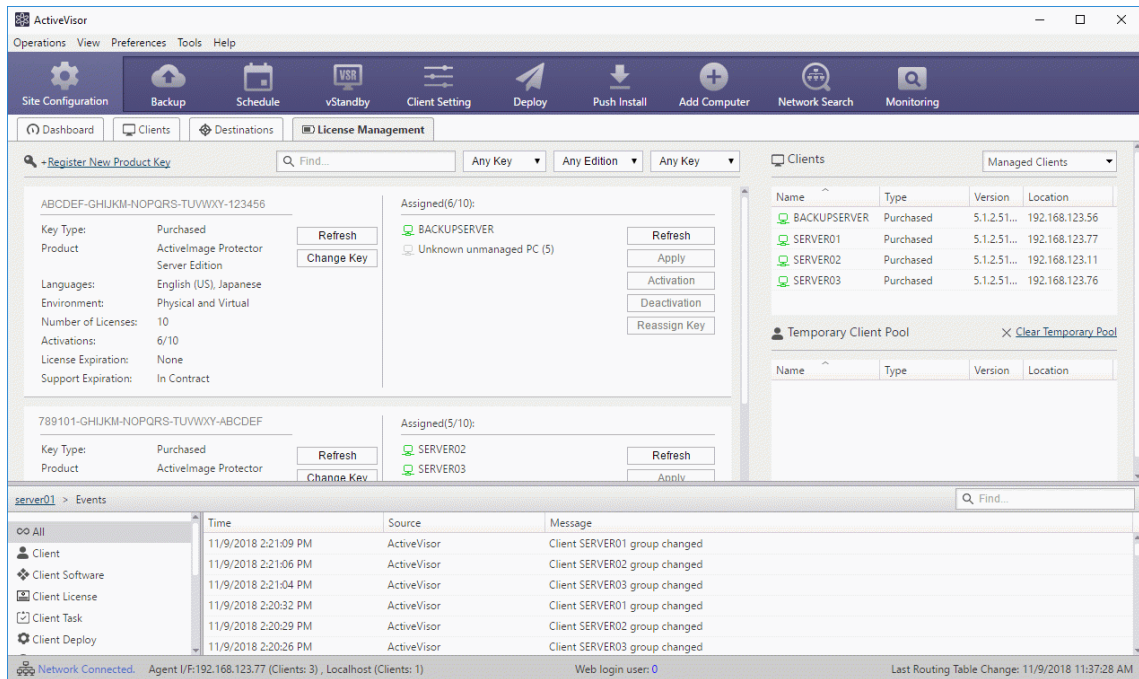


Fig. 4.17 [License Management] tab

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.

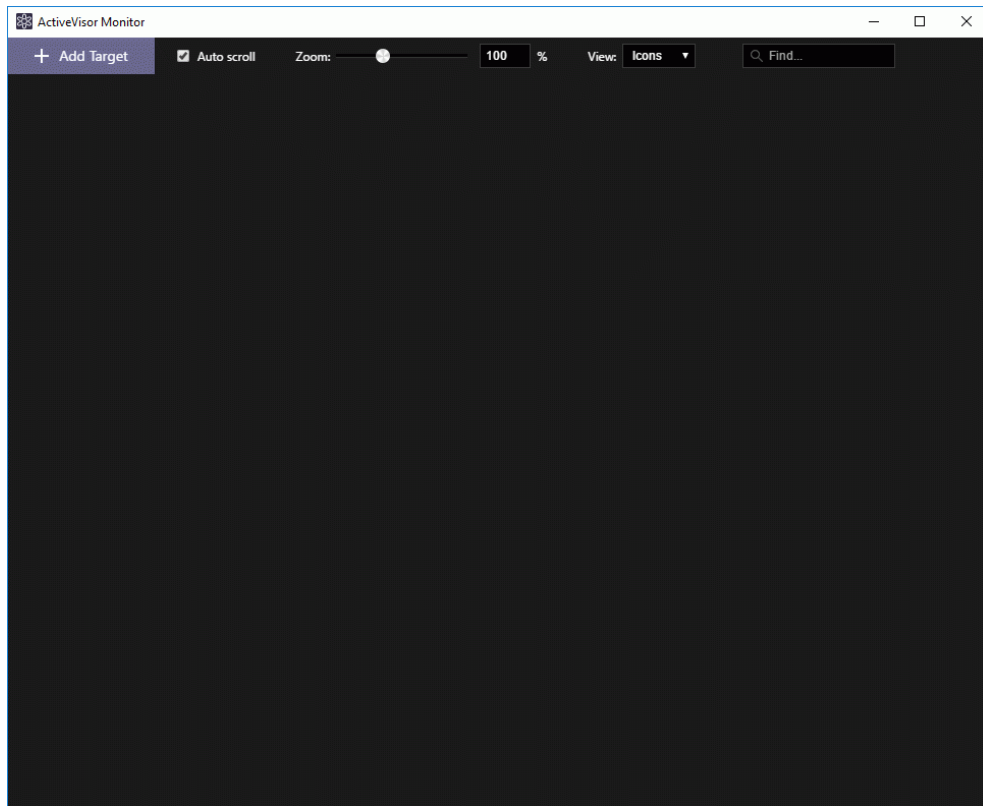


Fig. 4.18 ActiveVisor Monitor

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.

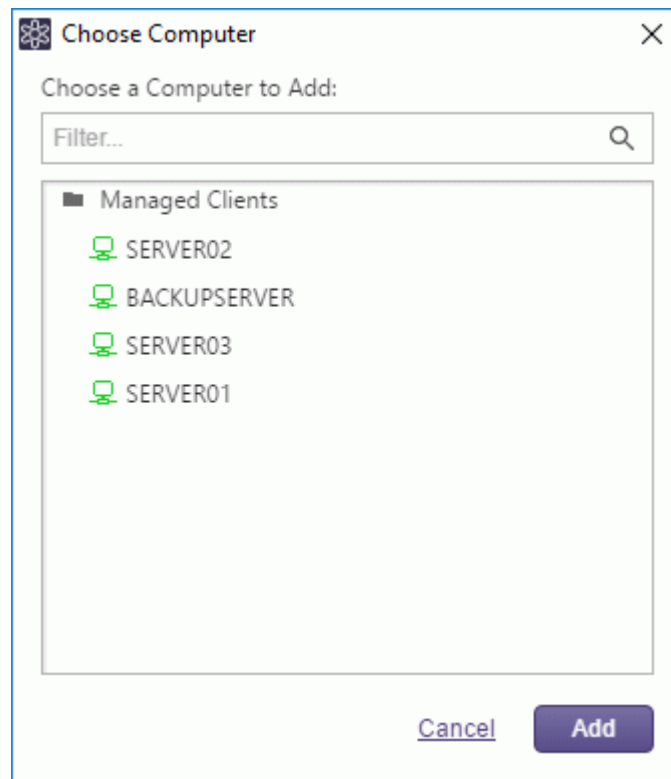


Fig. 4.19 Choose Computer

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

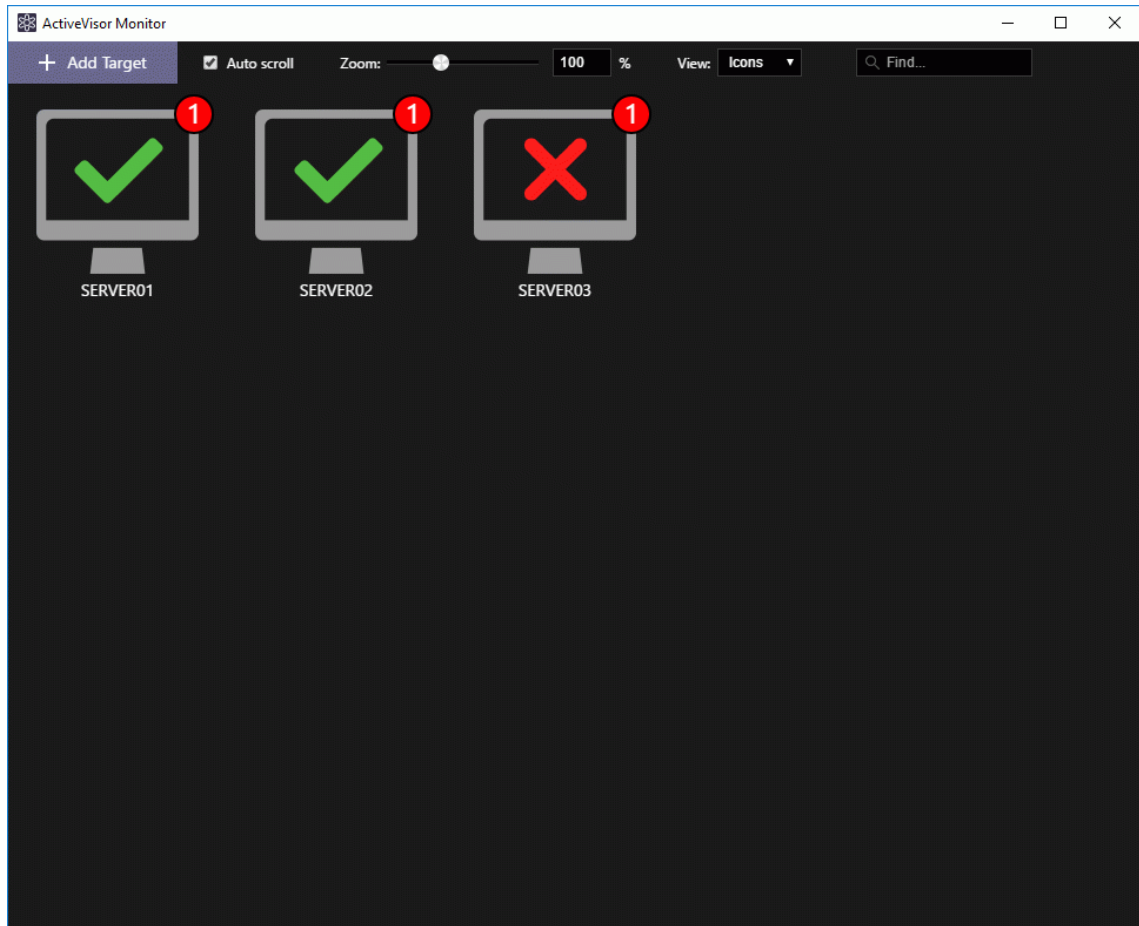


Fig. 4.20 Status of managed clients (Icon)

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

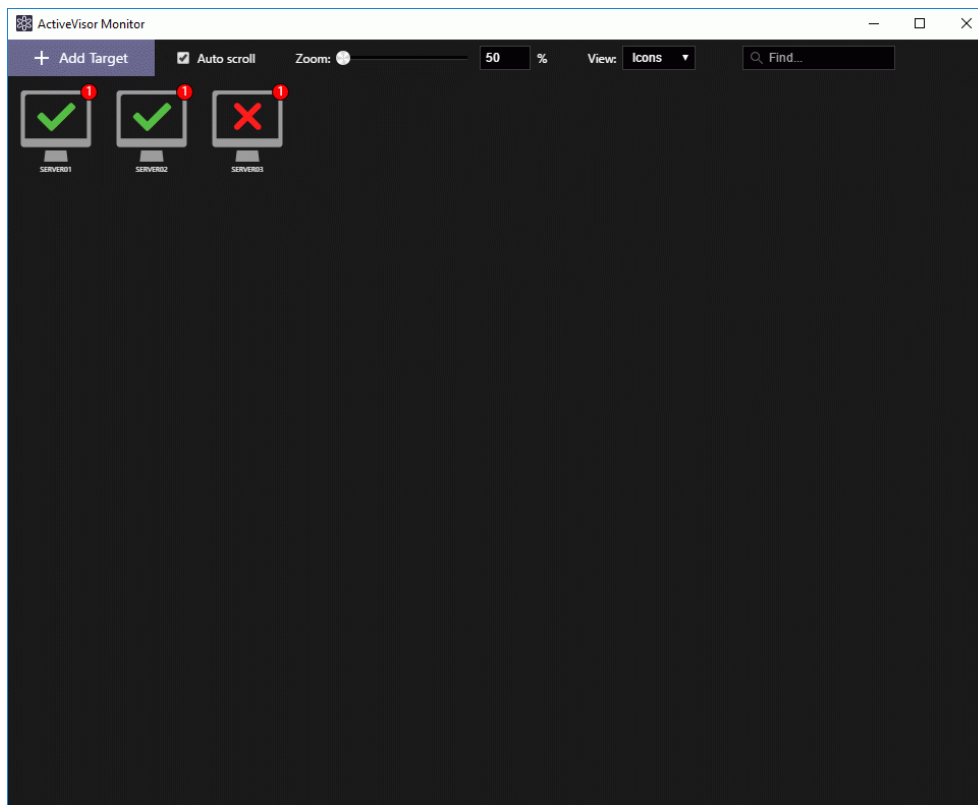


Fig. 4.21 Zoom out (Icon)

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.

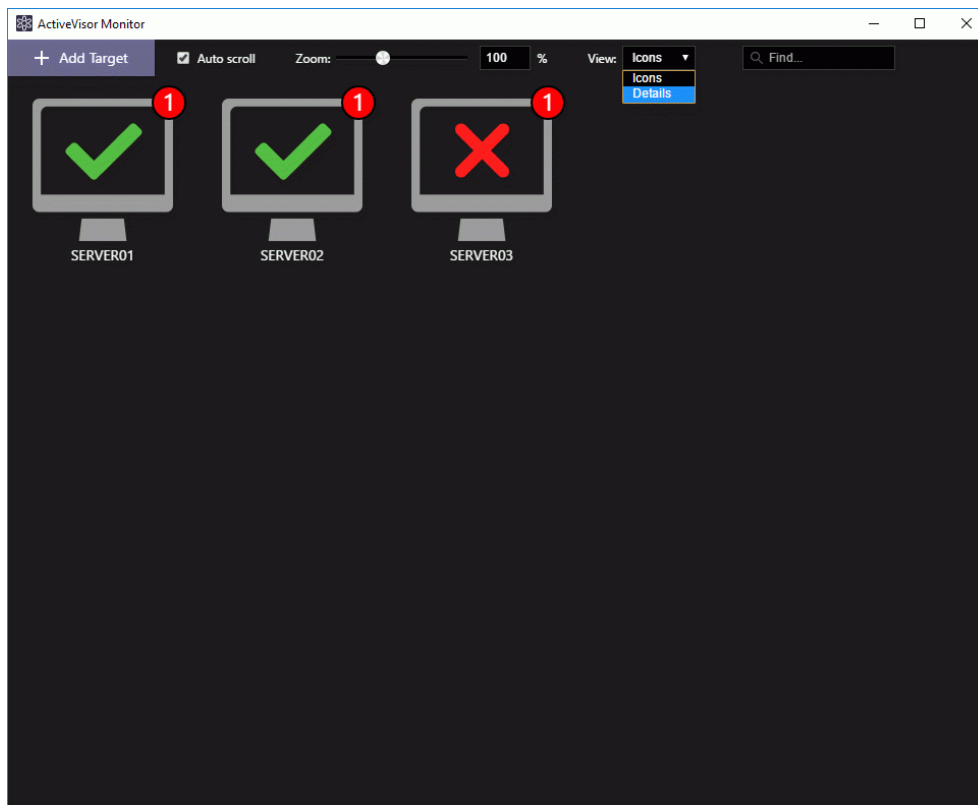


Fig. 4.22 [View] menu

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

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

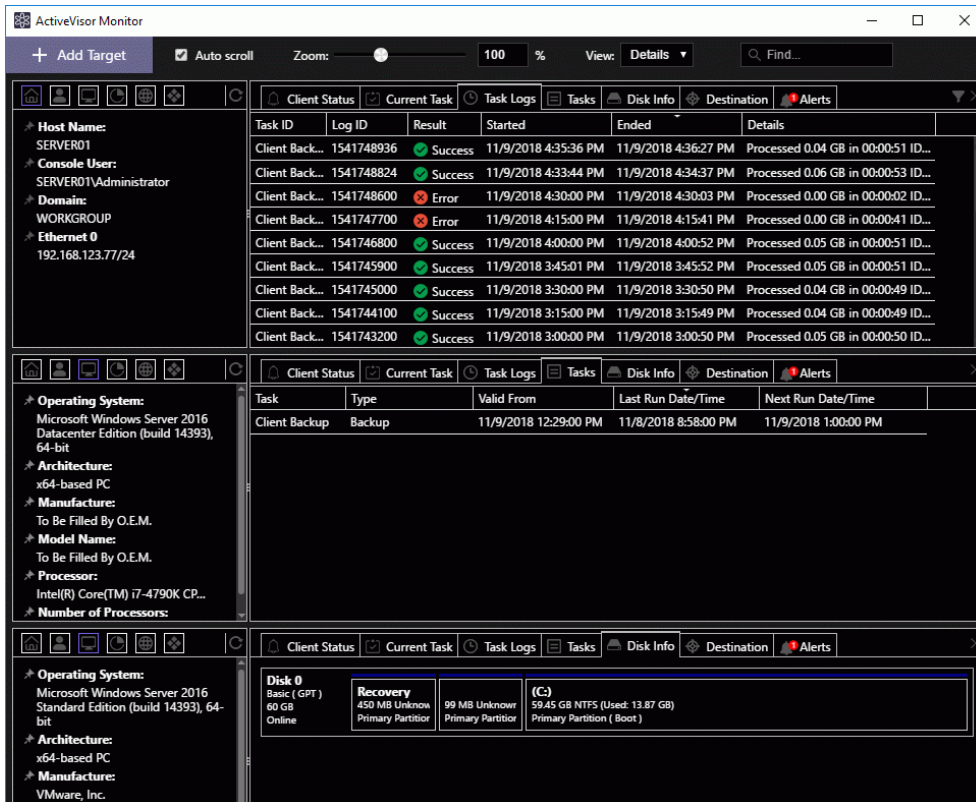


Fig. 4.23 List window displays the status of managed clients (Details)

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

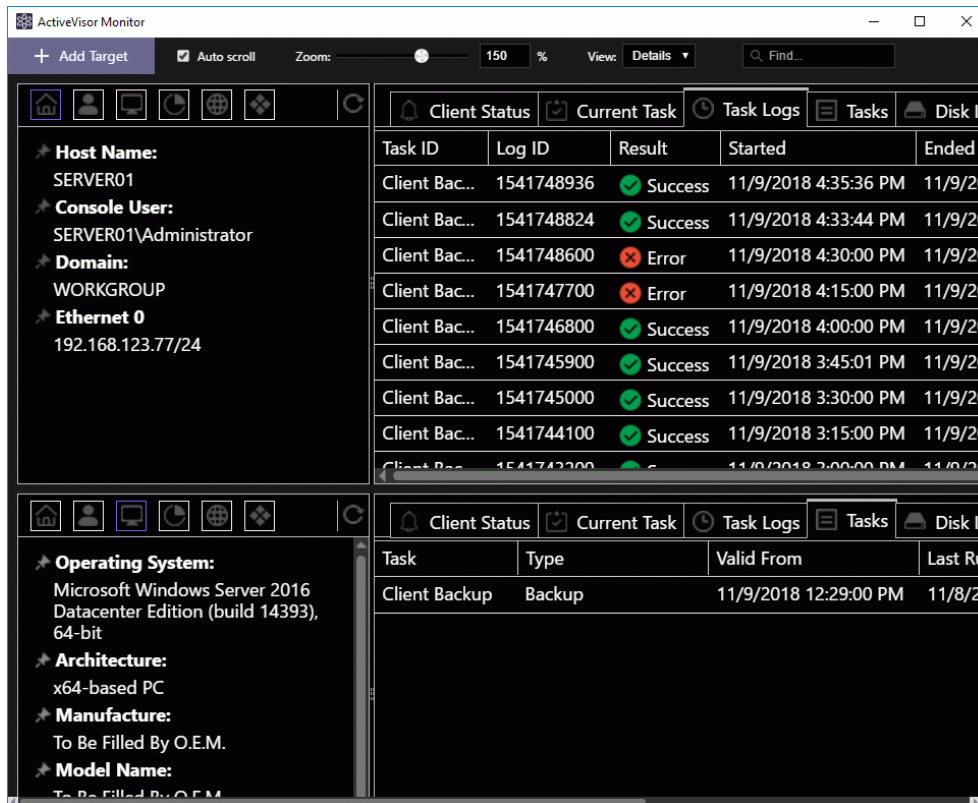


Fig. 4.24 Zoom up (Detail)

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].

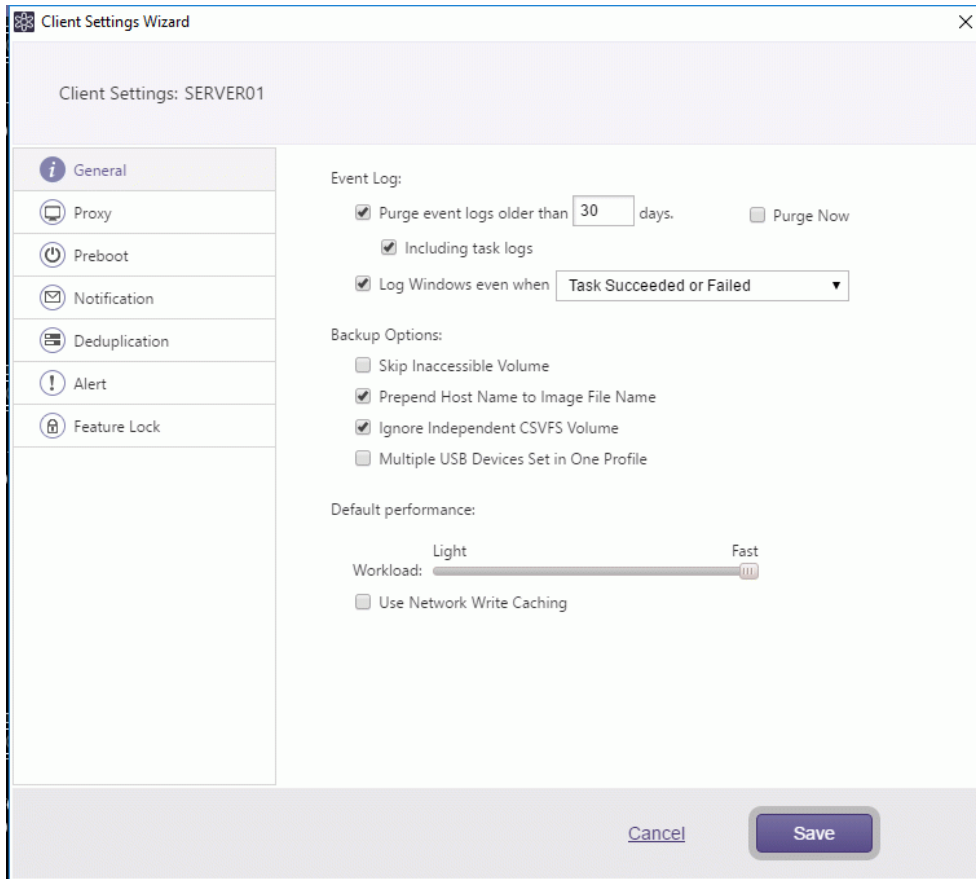


Fig. 4.25 Client Settings Wizard

You can configure the client settings here.

5 Internet Offline Mode

Due to security reasons, some business enterprises or organizations block computers from accessing the internet. In the earlier version of ActiveVisor, a License Management feature is offered over the network to provide the client management capabilities, including client activation with no internet access was disabled.

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.

The screenshot shows the 'ActiveVisor' application window with the 'Site Initialization Settings' dialog box open. The dialog has a title bar with 'ActiveVisor' and standard window controls. Below the title bar is a menu bar with 'Operations', 'View', 'Preferences', 'Tools', and 'Help'. A toolbar contains icons for 'Site Configuration', 'Backup', 'Schedule', 'vStandby', 'Client Setting', 'Deploy', 'Push Install', 'Add Computer', 'Network Search', and 'Monitoring'. The main content area is titled 'Site Initialization Settings' and contains the following sections:

- Site Name:** A text input field containing 'server03'. Below it is the text: 'Please enter identifying name for this site.'
- Location:** A text input field containing 'Location'. Below it is the text: 'Please enter location for this site.'
- Site Credentials:** A section titled 'Please select network authentication type and enter authentication credentials.' It contains two columns of options:
 - ☐ Active Directory: Includes input fields for 'Admin User Name', 'Password', and 'Domain Name'.
 - ☐ Windows Network: Includes input fields for 'Admin User Name' and 'Password'.
- Operation Mode:** A section titled 'Please select whether to run ActiveVisor in Online mode or in Offline mode.' It contains two radio buttons:
 - ☐ 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. Below this is a blue link: 'You must request Offline License Bundle to use Internet Offline Mode. Product keys included in the Offline License Bundle will be locked into standalone mode, and will be barred from regular online activation.'At the bottom of this section are two buttons: 'Copy URL' and 'Set Bundle File'.

At the bottom of the dialog are 'Done' and 'Cancel' buttons. The status bar at the very bottom of the window shows 'Network Connected', 'Agent I/F:', 'Web login user: 0', and 'Last Routing Table Change: N/A'.

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.

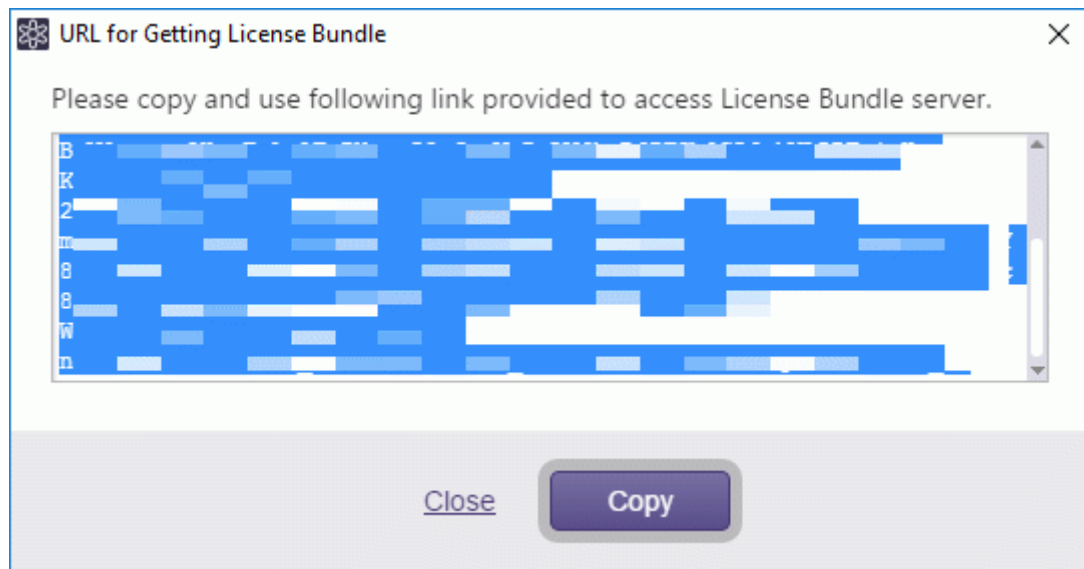


Fig. 5.2 URL for Getting License Bundle

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

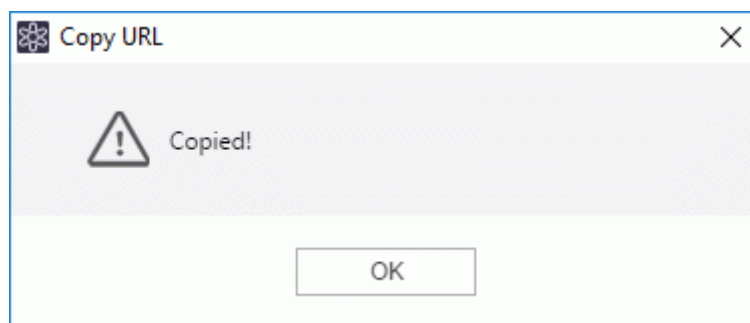


Fig. 5.3 Copying URL completed.

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.)

ActiveVisor Bundle Request Page x +

← → ↻ https://keymaster.netjapan.com/libreq/ ☆ ⓘ ⋮

LOGOUT SUPPORTED LANGUAGES: 日本語 英語

Step 1

Please confirm that you are human !

ActiveVisor™

License Bundle Request Form

Your offline license bundle will be emailed to you.
Please enter your contact e-mail address:

example@domain.com

☐ I'm not a robot reCAPTCHA Privacy · Terms

Verify !

Copyright © 2018 by NetJapan, Inc. All Rights Reserved.

Fig. 5.4 ActiveVisor License Bundle Request Form

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

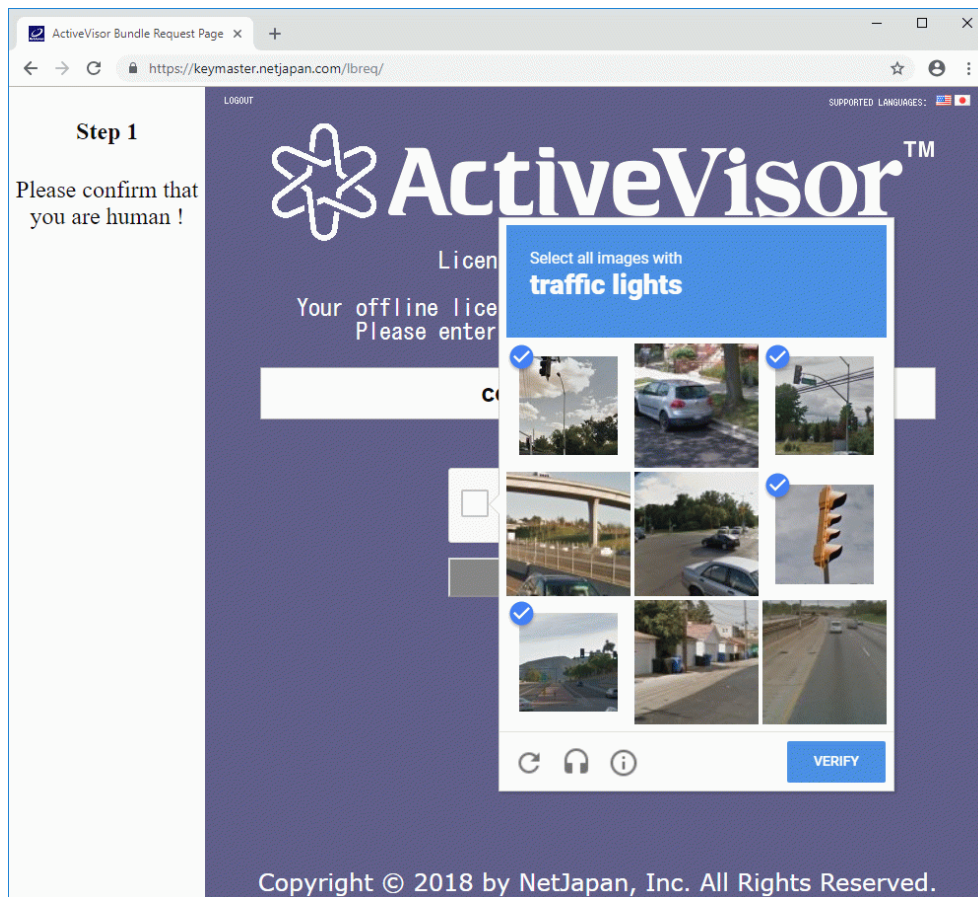


Fig. 5.5 Enter E-Mail address and reCAPTCHA

Enter the product key for ActiveImage Protector in the text box located in the left pane.

The screenshot shows a web browser window with the URL <https://keymaster.netjapan.com/libreq/>. The page is titled "ActiveVisor Bundle Request Page" and features the ActiveVisor logo and "License Bundle Request Form". The interface is divided into two main sections: a left sidebar and a main content area.

Left Sidebar:

- Step 1:** Use ActiveVisor to issue Offline Bundle Request URL.
- Step 2:** To Load Additional Product Keys, enter keys below:

Below Step 2, there is a text input field and a button labeled "Add Product Keys".

Main Content Area:

- At the top, it says "Configuring for ActiveVisor with Product Key of: [REDACTED]".
- Below that, a message with a left-pointing arrow says: "Please add ActiveImage Protector Product Key !".
- At the bottom, it says "Copyright © 2018 by NetJapan, Inc. All Rights Reserved."

Fig. 5.6 Enter Product Key

Click [Add Product Keys].

The detailed information of the product key is displayed. Click the checkbox and then click [Bundle!].

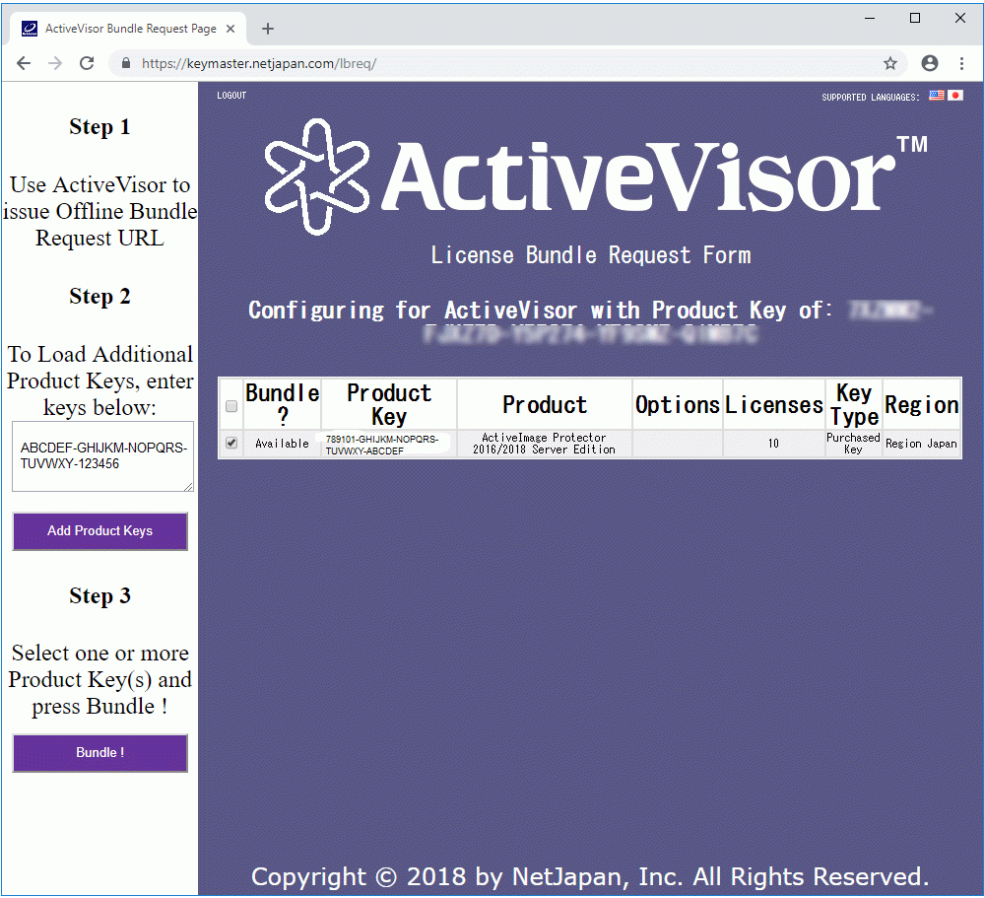


Fig. 5.7 Bundle

An offline license bundle is created and emailed address specified in the dialog shown in Fig. 5.5.

Click [Send E-mail!].

ActiveVisor Bundle Request Page

https://keymaster.netjapan.com/libreq/

Bundle Request URL

Step 2

To Load Additional Product Keys, enter keys below:

ABCDEF-GHIJKM-NOPQRS-TUVWXY-123456

Add Product Keys

Step 3

Select one or more Product Key(s) and press Bundle !

Bundle !

Step 4

Send License Bundle using E-mail

Send E-mail !

Logout

SUPPORTED LANGUAGES:

ActiveVisorTM

License Bundle Request Form

Configuring for ActiveVisor with Product Key of: **7XJWKE-
FJAZ7B-Y6P274-Y780MT-Q1W87G**

<input type="checkbox"/>	Bundle ?	Product Key	Product	Options	Licenses	Key Type	Region
<input checked="" type="checkbox"/>	Available	ABCDEF-GHIJKM-NOPQRS-TUVWXY-123456	ActiveImage Protector 2016/2018 Server Edition		10	Purchased Key	Region Japan

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Fig. 5.8 Offline license bundle is sent via E-Mail.

ActiveVisor saves the received offline license file to a network shared folder or a local folder accessible from the host ActiveVisor is installed.

Transition back to the window shown in Fig. 5.1 and click the [Set Bundle File] button. The [Remote File Explorer] window is displayed and the copied offline license bundle is loaded.

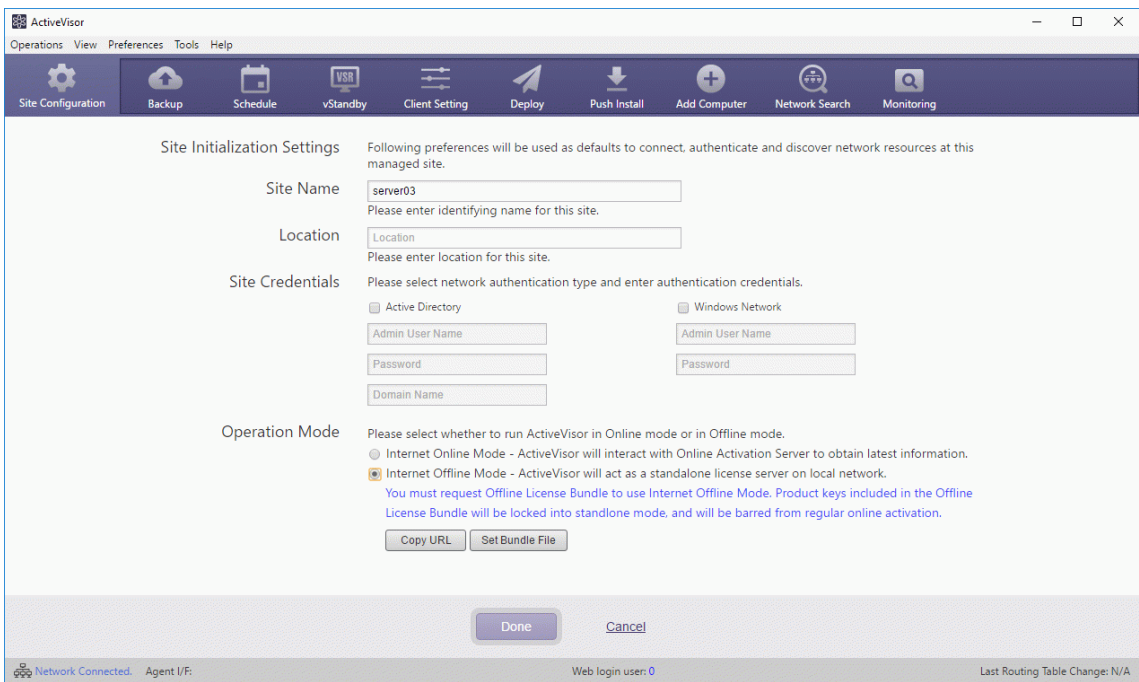


Fig. 5.1 Site Initialization Setting

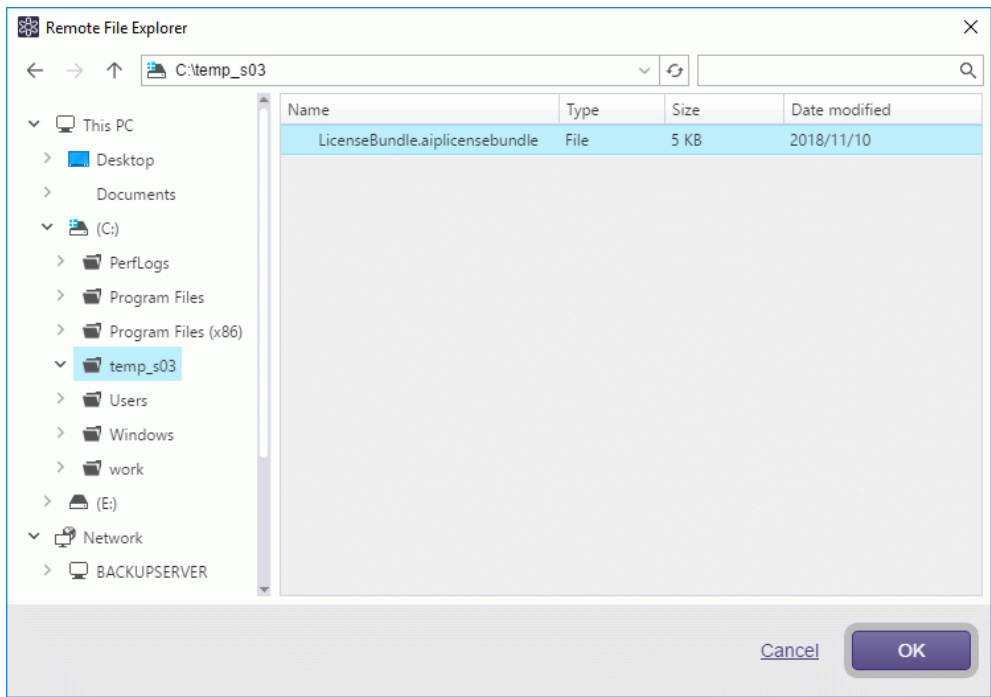


Fig. 5.9 Offline License Bundle is loaded

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

The screenshot shows the 'ActiveVisor' application window with the 'Site Initialization Settings' dialog box open. The dialog has a title bar with 'ActiveVisor' and standard window controls. Below the title bar is a menu bar with 'Operations', 'View', 'Preferences', 'Tools', and 'Help'. A toolbar contains icons for 'Site Configuration', 'Backup', 'Schedule', 'vStandby', 'Client Setting', 'Deploy', 'Push Install', 'Add Computer', 'Network Search', and 'Monitoring'. The main content area is titled 'Site Initialization Settings' and contains the following sections:

- Site Name:** A text box containing 'server03'. Below it is the instruction: 'Please enter identifying name for this site.'
- Location:** A text box containing 'Location'. Below it is the instruction: 'Please enter location for this site.'
- Site Credentials:** A section with the instruction: 'Please select network authentication type and enter authentication credentials.' It contains two columns of options:
 - ☐ Active Directory
 - ☒ Windows NetworkBelow these are text boxes for 'Admin User Name' (containing 'Administrator'), 'Password' (containing '*****'), and 'Domain Name'.
- Operation Mode:** A section with the instruction: 'Please select whether to run ActiveVisor in Online mode or in Offline mode.' It contains two radio buttons:
 - ☐ 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 Offline License Bundle to use Internet Offline Mode. Product keys included in the Offline License Bundle will be locked into standalone mode, and will be barred from regular online activation.Below the radio buttons are two buttons: 'Copy URL' and 'Set Bundle File'.

At the bottom of the dialog are two buttons: 'Done' and 'Cancel'. The status bar at the very bottom of the window shows 'Network Connected', 'Agent I/F:', 'Web login user: 0', and 'Last Routing Table Change: N/A'.

Fig. 5.10 Click [Done] to finish [Site Initialization Setting]

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

APPENDIX

Reference - ActiveVisor

- NetJapan's Web site

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

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

- ActiveVisor FAQ

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

Support information can be accessed at the FAQ web site.

* For inquiries about ActiveVisor, please contact

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

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