ActiveImage™ 2016 PROTECTOR

Server / Desktop Edition

Quick Start Guide

(Second Edition；Feb. 29, 2016)

NetJapan

Index

1. Overview

ActiveImage Protector is a backup and recovery solution with the latest sector-based disk imaging technology. ActiveImage Protector is designed to flexibly support Windows machines in a variety of system environments ranging from legacy machines to the latest virtual machines.

ActiveImage Protector provides features essential for a backup solution such as Hot Imaging feature allowing to back up running system, Cold Imaging feature enabling to create a backup image of the clean system before starting up Windows system, fast Incremental Backups to include only the sectors that have changed since the last full or incremental backup image was written, Command Line Interface allowing backups to be administered by third-party systems management tools.

System Requirements

The following are the system requirements for ActiveImage Protector Server Edition / Desktop Edition.

Before you start using ActiveImage Protector Server Edition / Desktop Edition, please ensure that the following system requirements are met to install ActiveImage Protector Server Edition / Desktop Edition on the machines.

Memory (RAM)	768MB is Required (1024MB or more recommended)
Hard Disk Space	650MB or more of available hard disk space
DVD-ROM drive	Required when installing the product / booting into recovery environment (ActiveImage Protector Boot Environment)
Supported OS	Server Edition： - Windows Storage Server 2012/2012 R2 - Windows Storage Server 2008/2008 R2 - Windows Server 2012/2012 R2 - Windows Server 2008 (x86/x64)/2008 R2 Desktop Edition： - Windows 10 (x86/64) - Windows 8/8.1 – except for Windows RT (x86/64) - Windows 7 – except for Starter Edition (x86/64) - If User Account Control is enabled in desktop OS, the program may ask for your permission to proceed with further operation. If you encounter this behavior, please select [Allow] to proceed with the wizard operation.

For the limitations of ActiveImage Protector Server Edition / Desktop Edition, please refer to the Release Note located on the product media.

2. Installation

Please take the following procedures to install ActiveImage Protector on the machine specified as backup source.

1. When you set up the DVD media on you computer, Installation Launcher will pop up. Click ［Install ActiveImage Protector］. When the launcher is not coming out, execute setup.exe on the DVD directly.
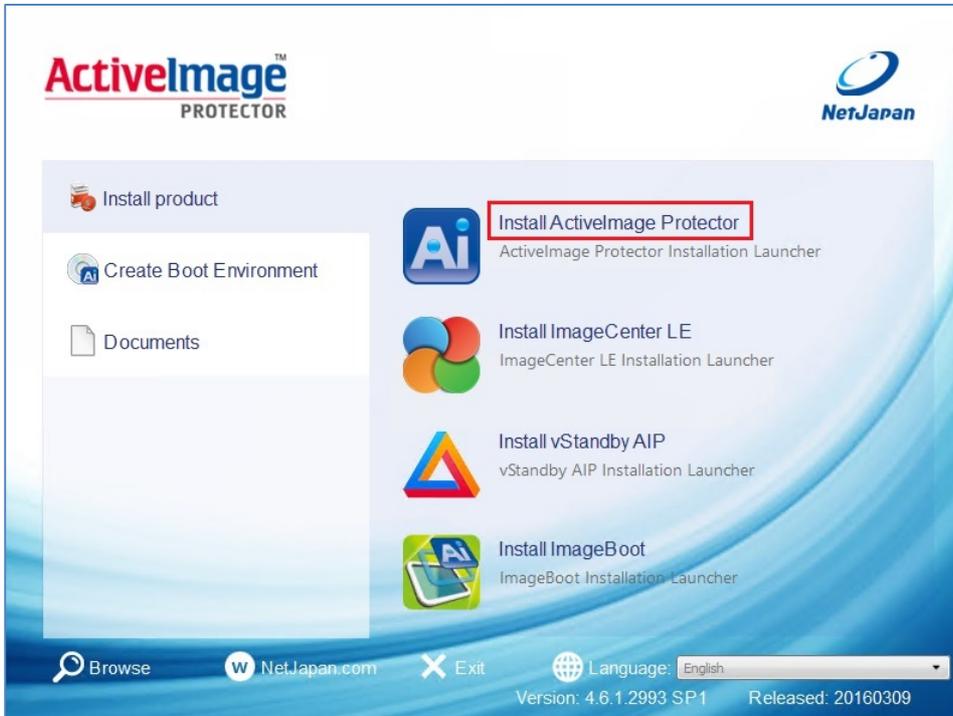
2. Click [Next].

3. 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. Click **[Next]**
   Without accepting the Agreement you cannot proceed with the installation. If you do not accept the End User License Agreement, please click on [Cancel] button to abort the installation.
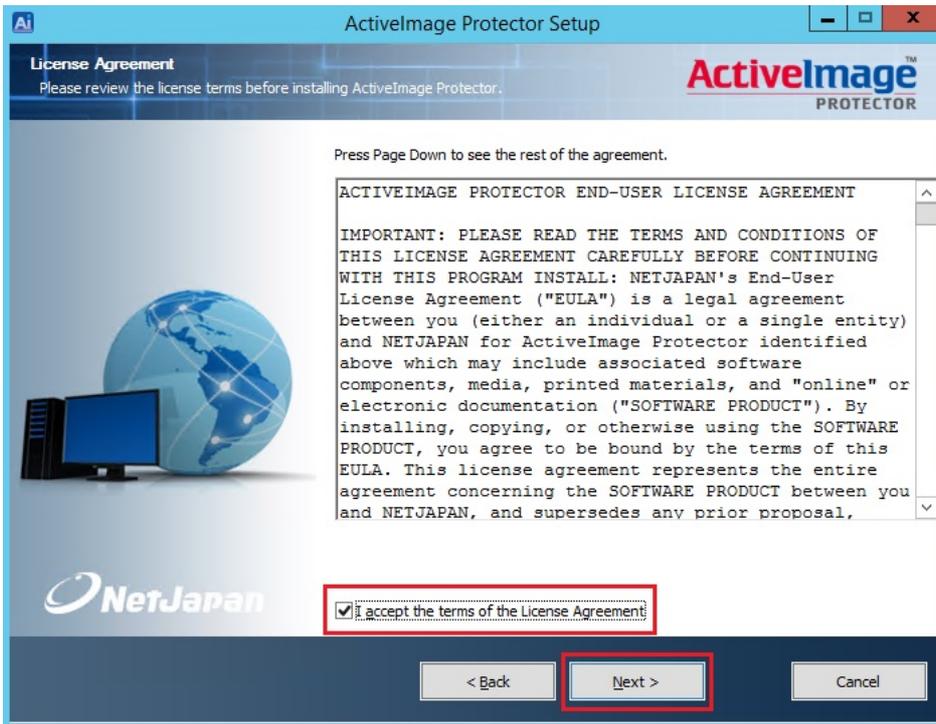
4. Enter the product key then, check the box in order to Activate the software once the installation completes. Click [Next]
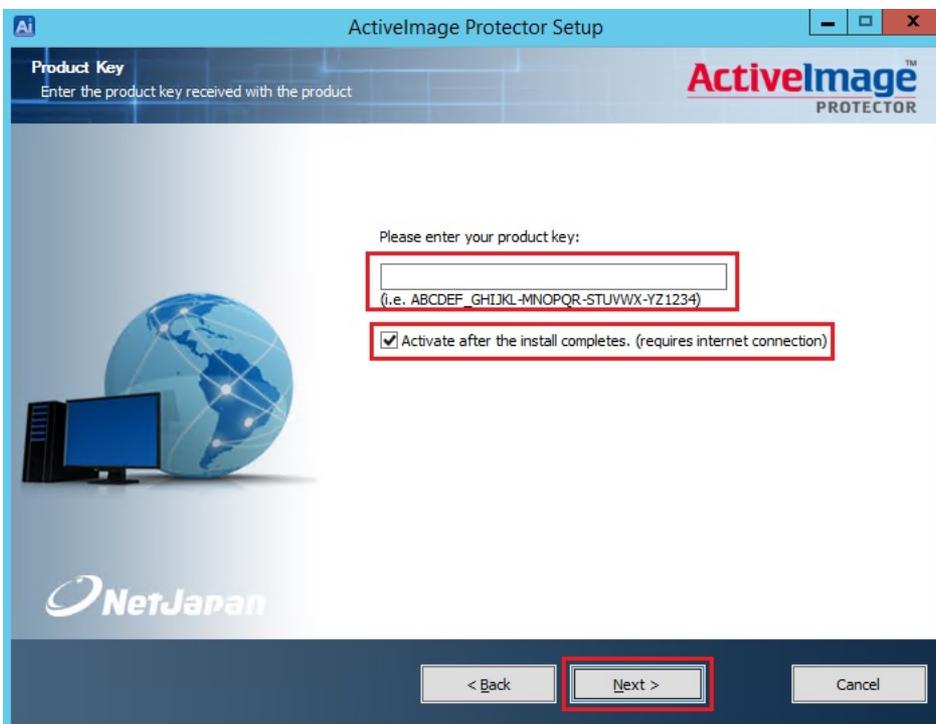
5. Please select [Typical] for [Setup Type] and click [Next].
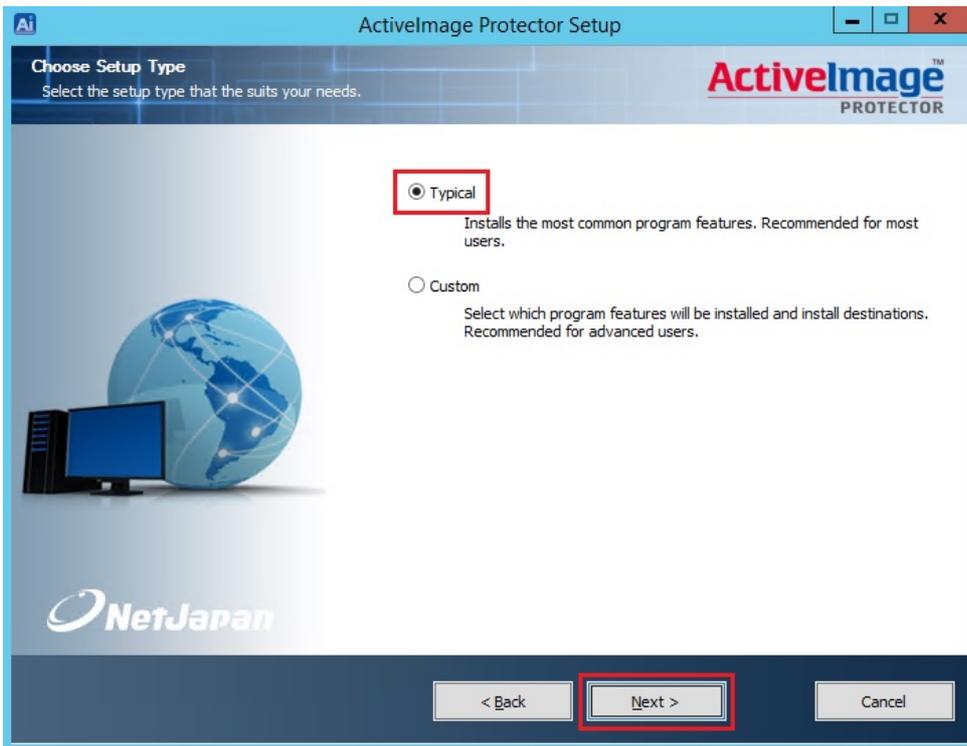
6. Select the preferred language and click [Next].
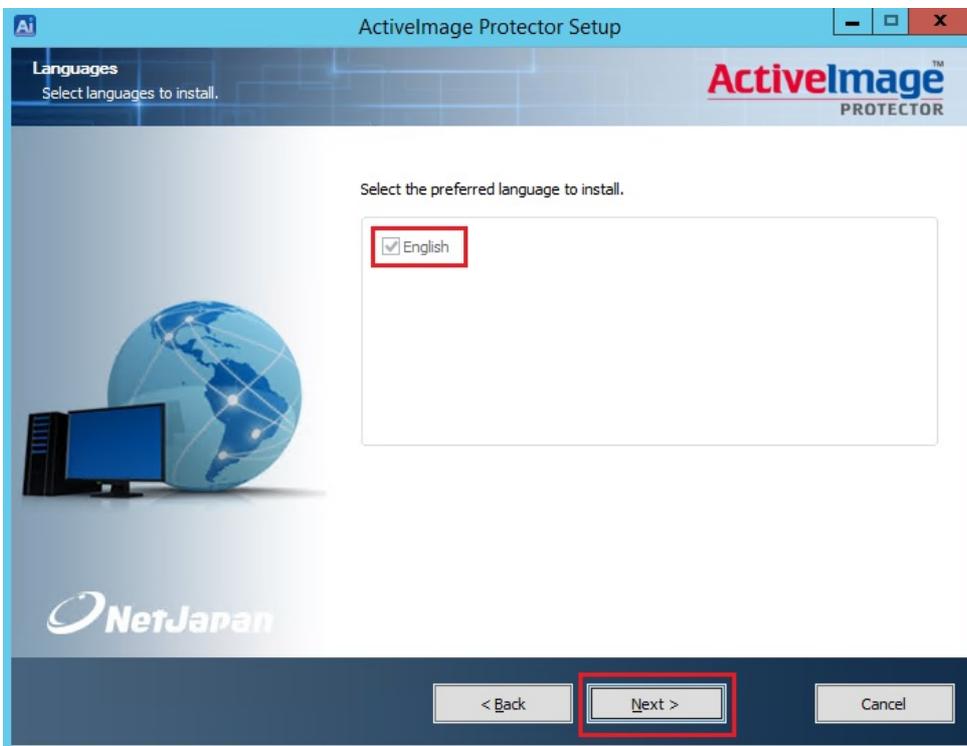
7. Click [Install].
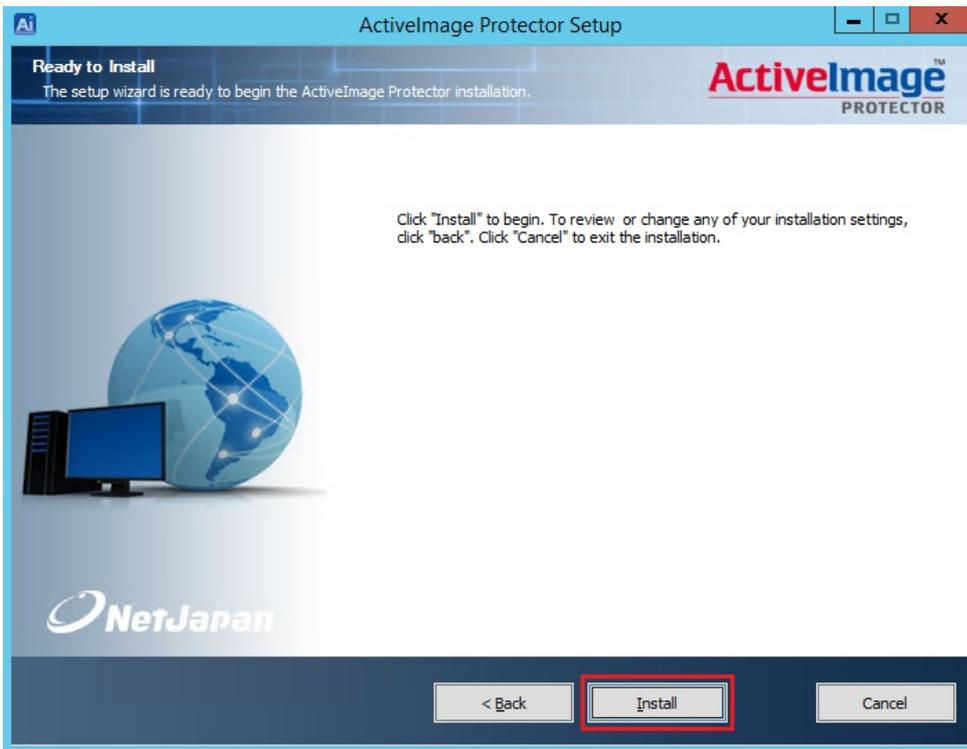
8. Select to [Reboot now] immediately or to [I want to manually reboot later] depending on circumstances. Click [Finish]. Machine will reboot automatically.
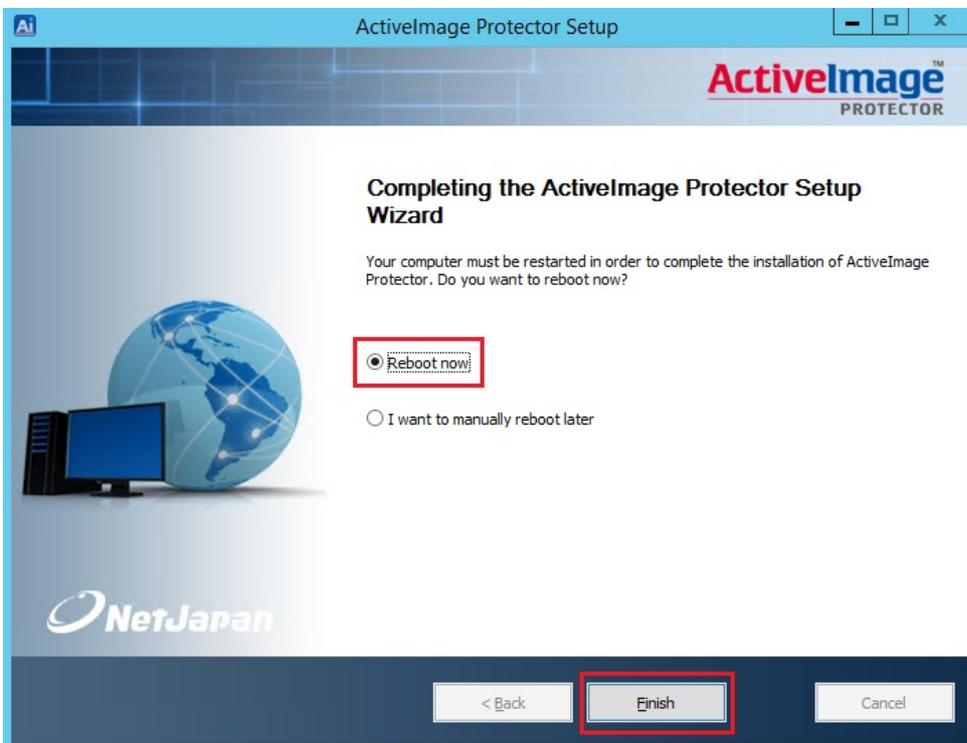
3. Activation

You are requested to take the following procedures and activate the installed ActiveImage Protector. The remaining trial period is cancelled. This is not necessary when you have already executed the activation automatically during the install procedure.

1. Start up ActiveImage Protector.
   Server OSes: Windows Server 2008 R2 or earlier:
   Select [Start] – [All Programs] – ［NetJapan］ - [ActiveImage Protector]

   Desktop OSes: Windows 7 or earlier：
   Select ［Start］ → ［All Programs］ → ［NetJapan］ → ［ActiveImage Protector］

   Server OSes:Windows Server 2012 or later
   Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

   Desktop OSes :Windows 8 or later：
   Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］］
2. Click [Help] and select [Activation] from the drop down menu。
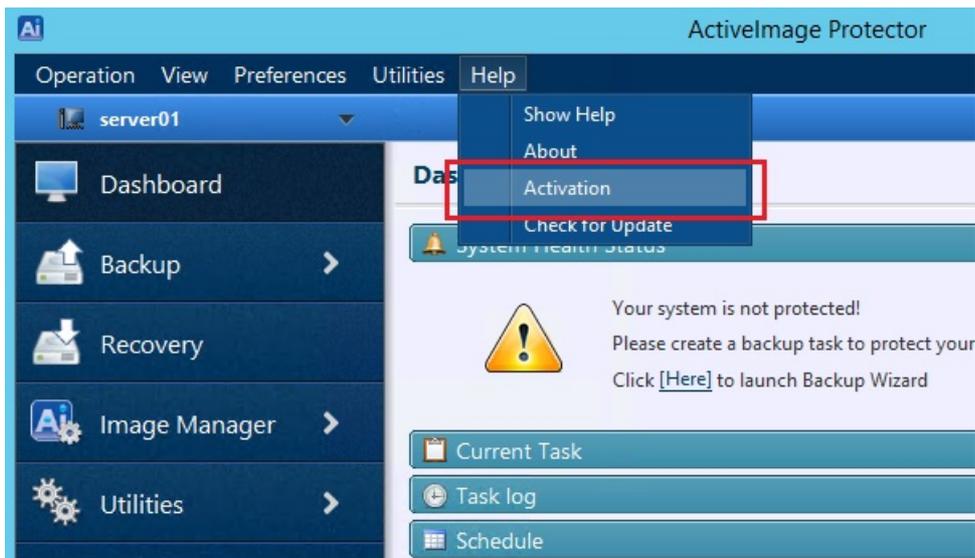
3. Enter [Product Key:] and click [Activation] button.
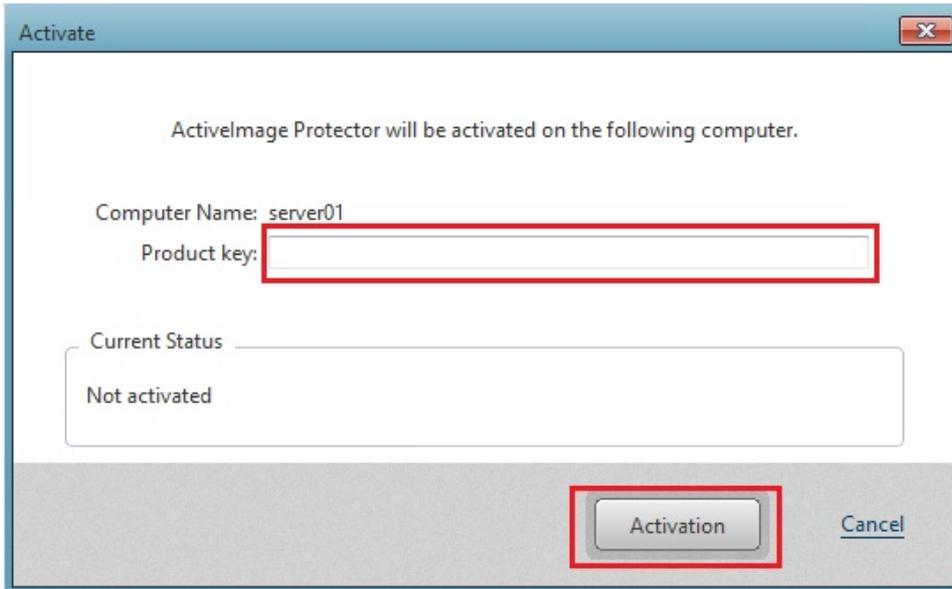
4. The following message is displayed to ensure that activation is completed. Click [OK] button.
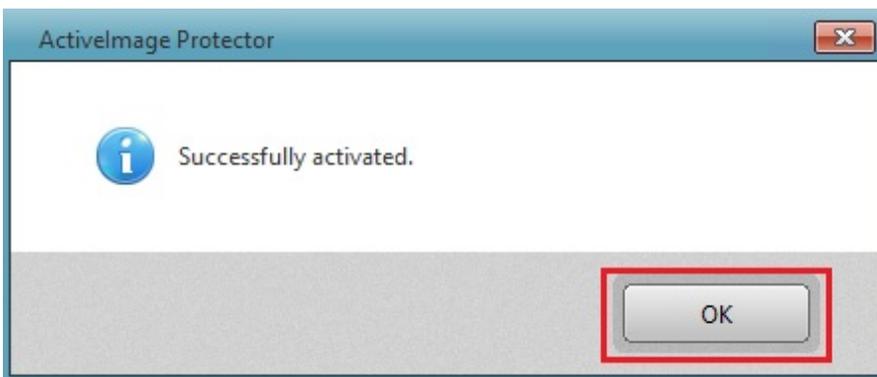
4. Configure Backup Settings and Run Backup Task

Backup Entire Disk

The following are the procedures to back up entire disk immediately.

1. Start up ActiveImage Protector.

   Server OSes: Windows Server 2008 R2 or earlier:
   Select [Start] – [All Programs] – ［NetJapan］ - [ActiveImage Protector]

   Desktop OSes: Windows 7 or earlier：
   Select ［Start］ → ［All Programs］ → ［NetJapan］ → ［ActiveImage Protector］

   Server OSes:Windows Server 2012 or later
   Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

   Desktop OSes :Windows 8 or later：
   Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

2. From the menu pane, click [Backup]. Select [Backup Now] from the drop down menu or click the large [Backup Now] button on the Backup pane.
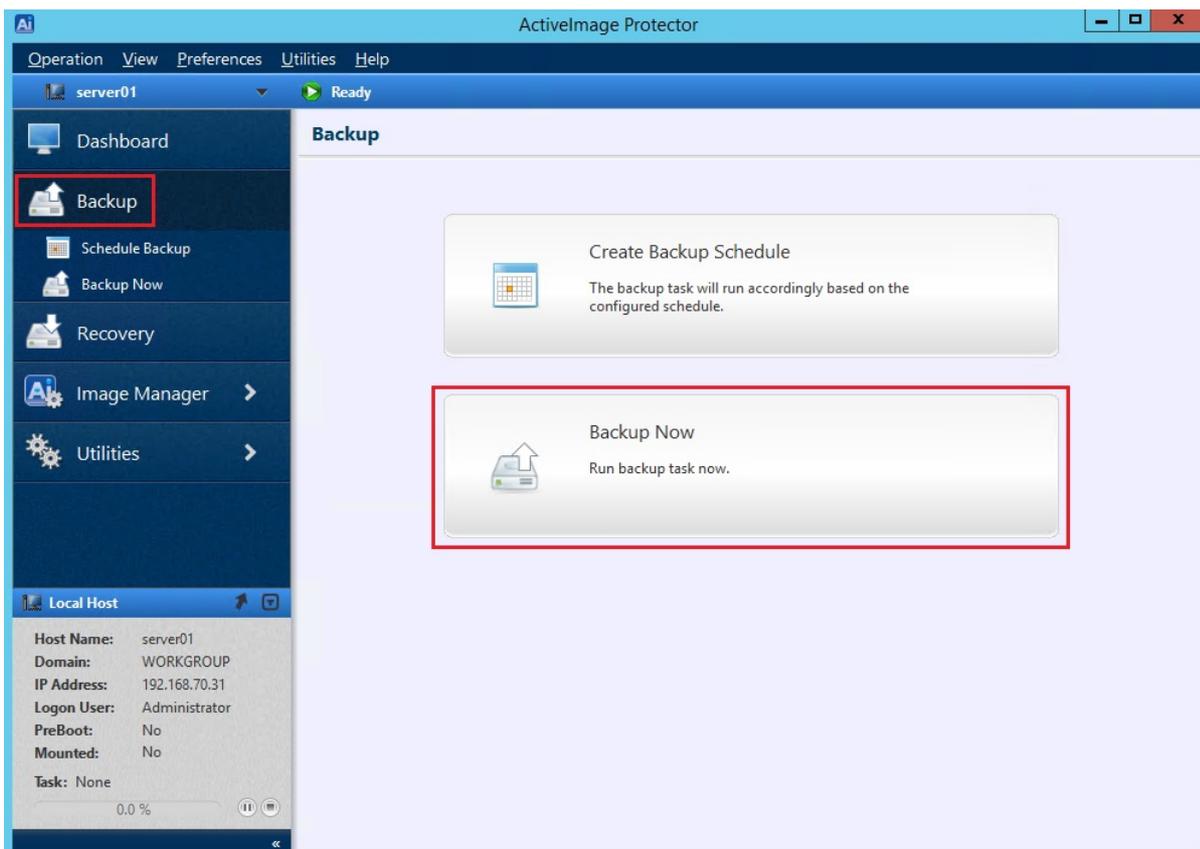
3. Begin by selecting the [Source] disk or volume for backup. In this case, select "Entire Disk" to back up the entire physical disk and select [Disk 0]. Click [Next].
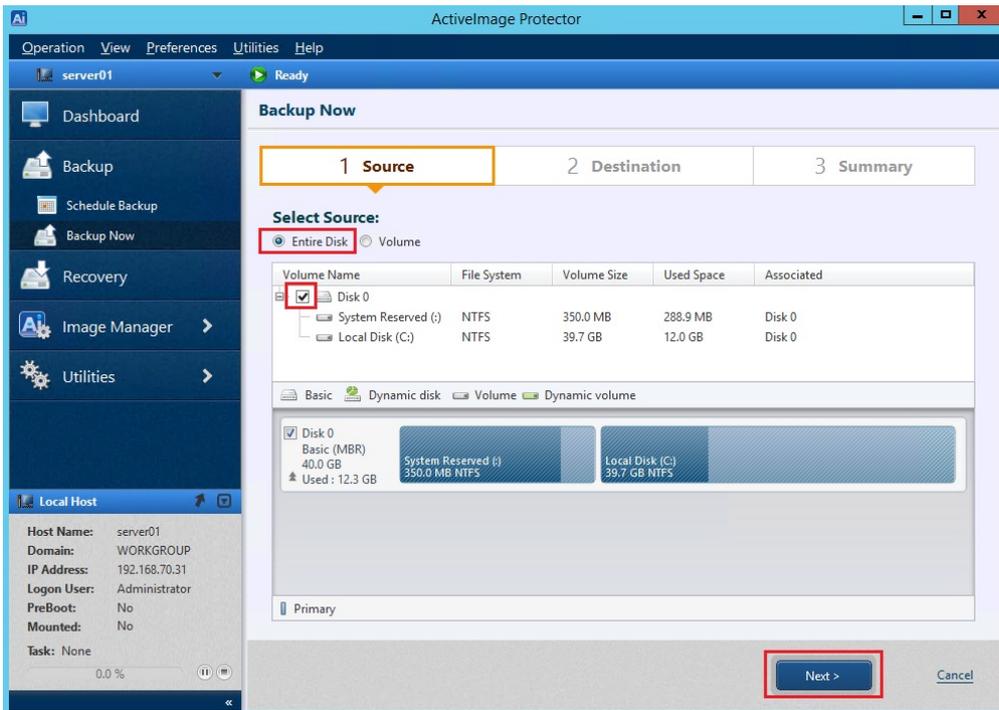
4. To select the destination storage, please specify the location to save backup image files. Here, destination storage will be "\\192.168.70.30\disk". Click [Select Folder] to browse to the backup destination folder.
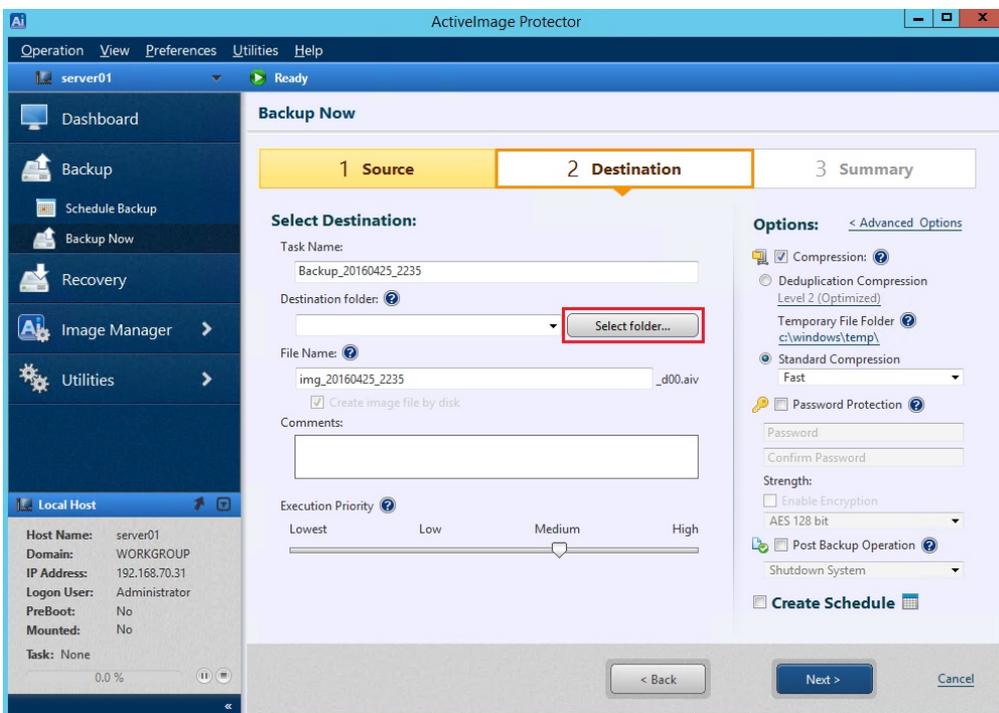
5. Type the direct path, "\\192.168.70.30\disk"   and press [Enter]
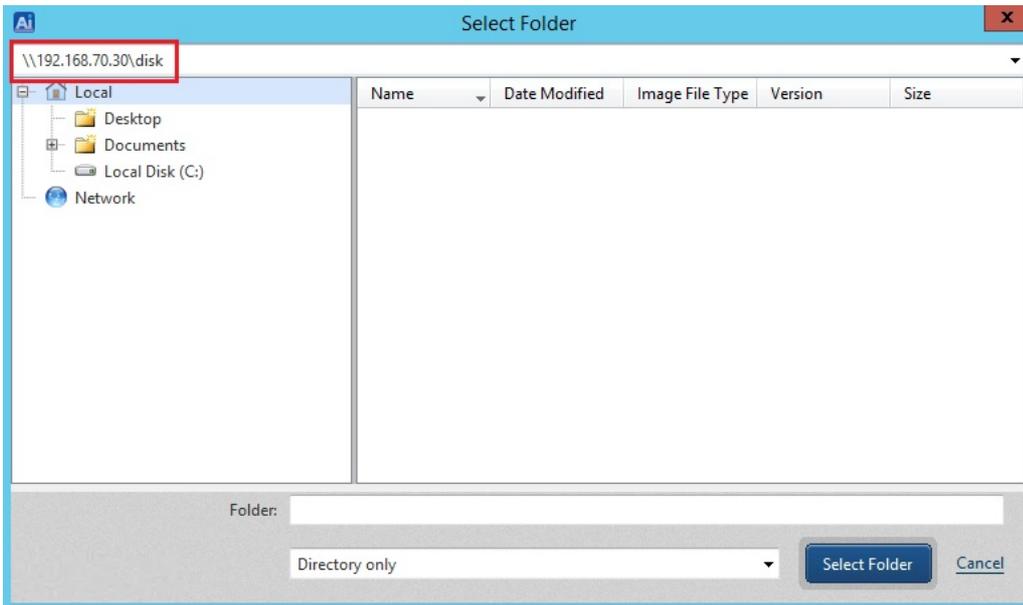
6. Specify User Name in "computername\username" format.

    Here, use "server01\aip" for User Name and enter your Password. Click [Connect].
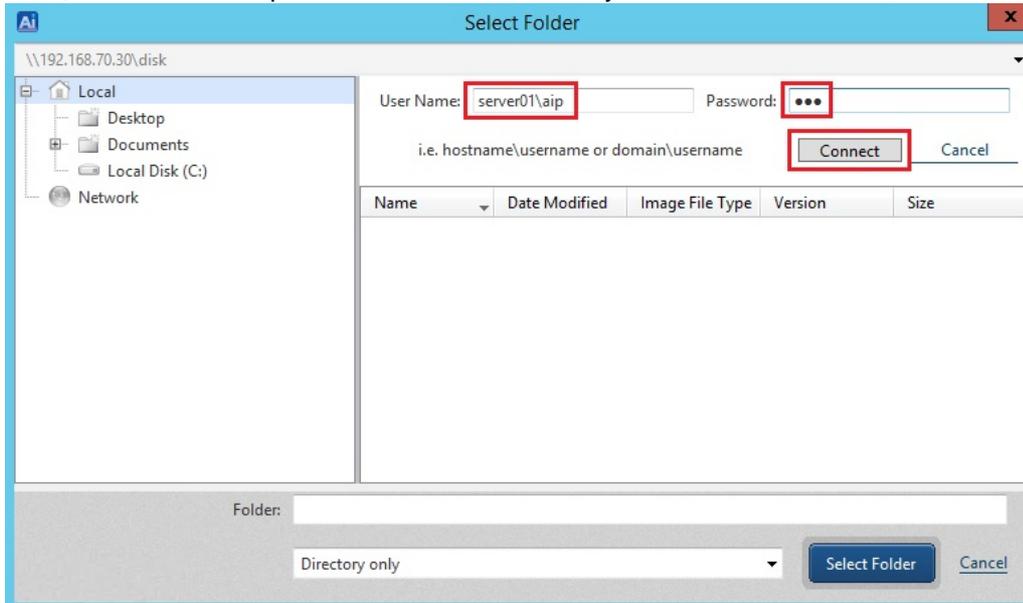
7. Make sure that the destination folder is selected properly and click [Select folder].
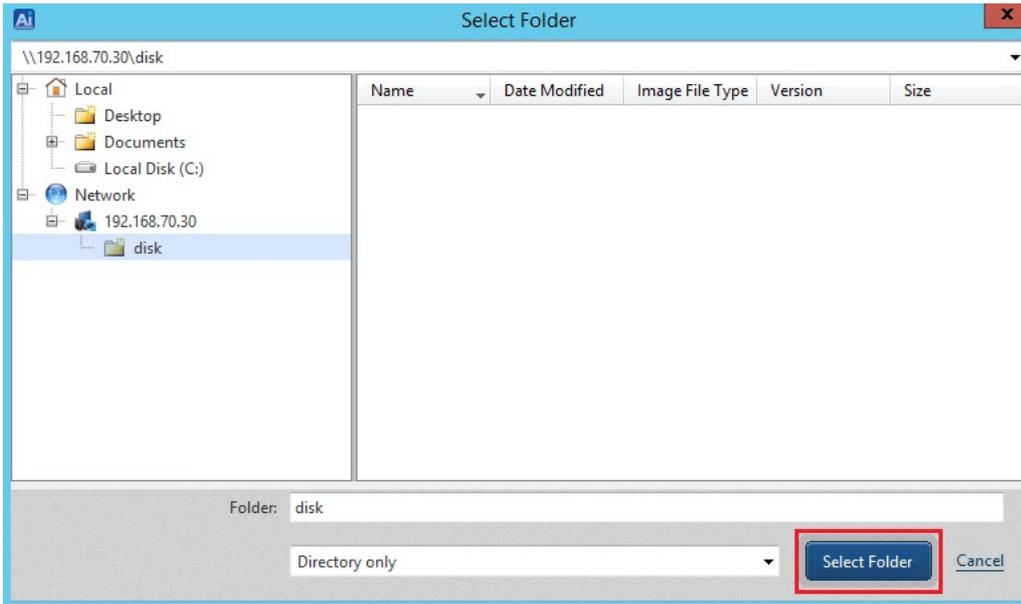
8. Specify a File Name. Here, enter a file name, "backup01" (file name extension is set automatically) and click [Next].
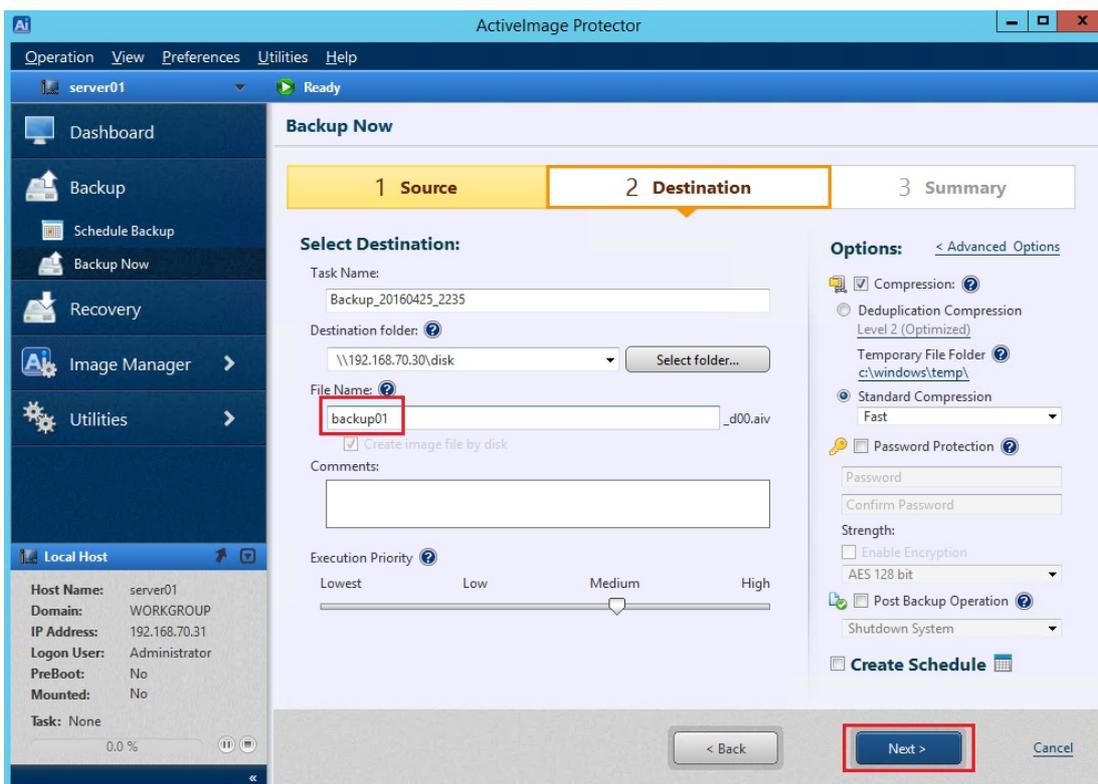
9. Review the settings and make changes if necessary. Once the settings are confirmed, click [Done] button to start the backup task.
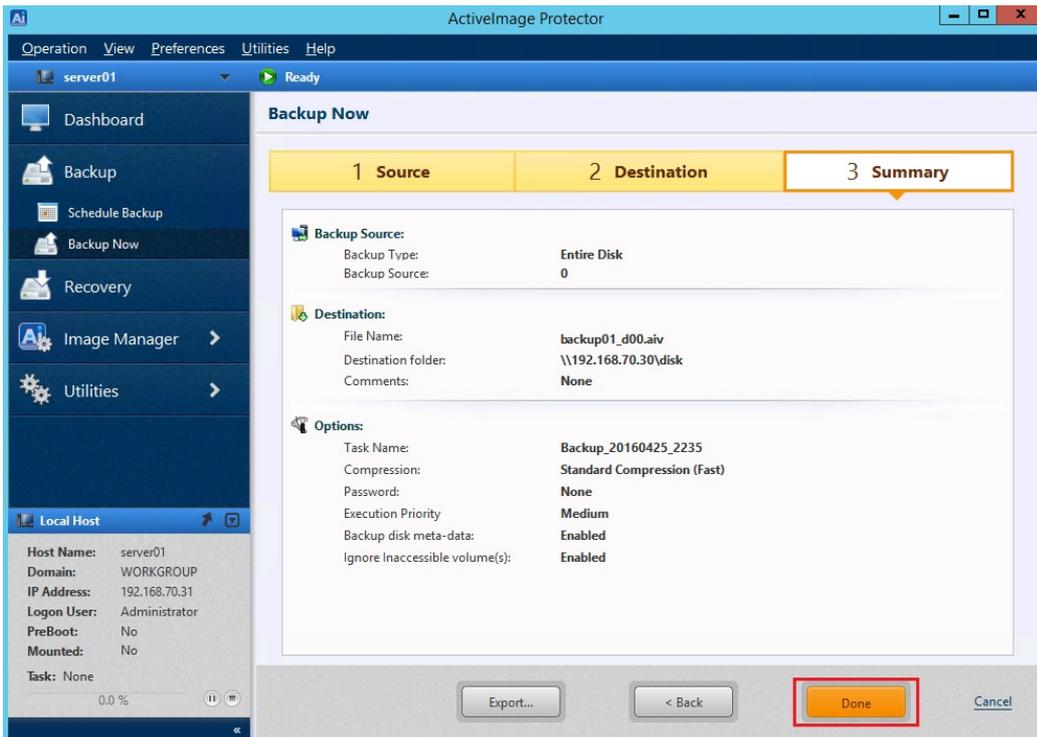
10. When the progress bar reaches 100%, the backup task completes.
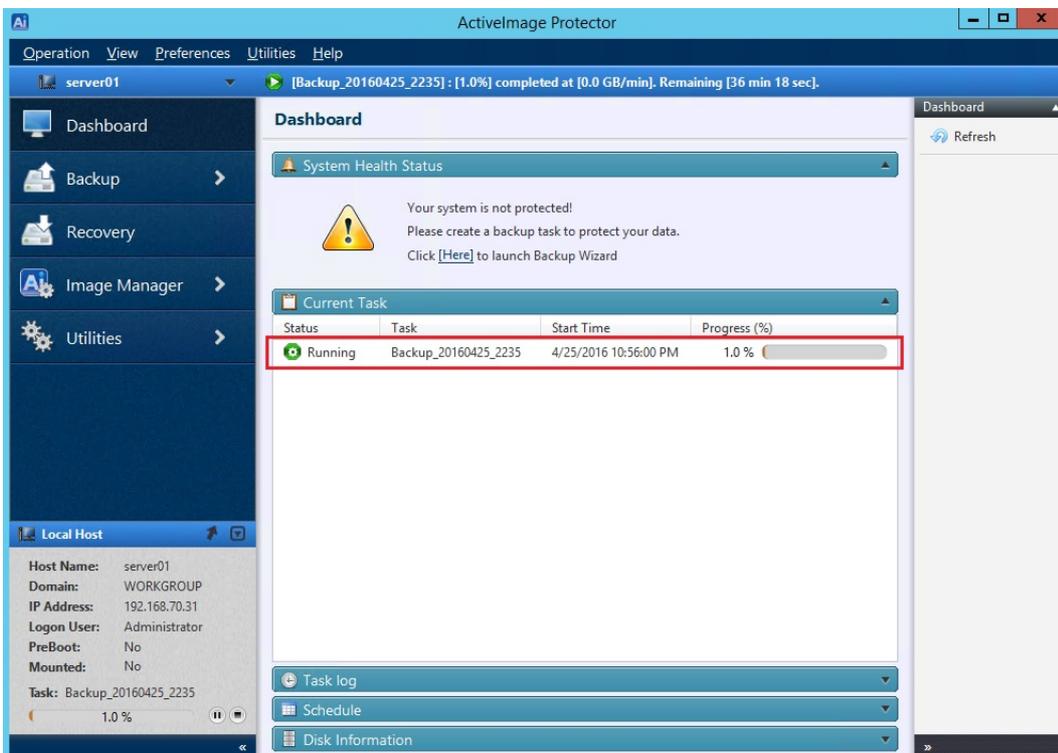
Scheduled Backup

The following are the description about Scheduled Backup to regularly run backup tasks according to the schedule you specify.

1. Start up ActiveImage Protector

    Server OSes: Windows Server 2008 R2 or earlier:
    Select [Start] – [All Programs] – ［NetJapan］ - [ActiveImage Protector]

    Desktop OSes: Windows 7 or earlier：
    Select ［Start］ → ［All Programs］ → ［NetJapan］ → ［ActiveImage Protector］

    Server OSes:Windows Server 2012 or later
    Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

    Desktop OSes :Windows 8 or later：
    Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

2. From the menu pane, click [Backup]. Select [Schedule Backup] from the drop down menu or click the large [Create Backup Schedule] button on the Backup pane.
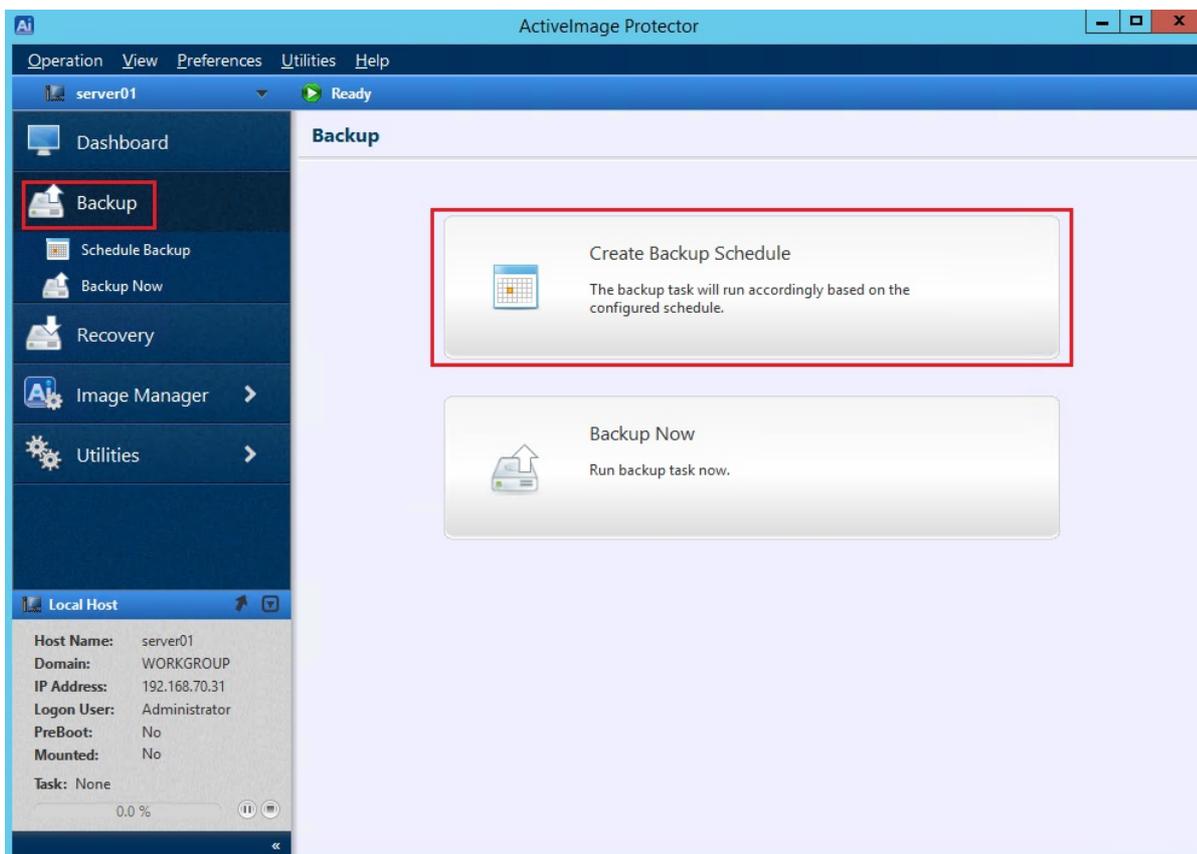
3. Begin by selecting the **[Source]** disk or volume for backup. Here, select "Entire Disk" to back up the entire physical disk and select [Disk 0]. Click [Next].
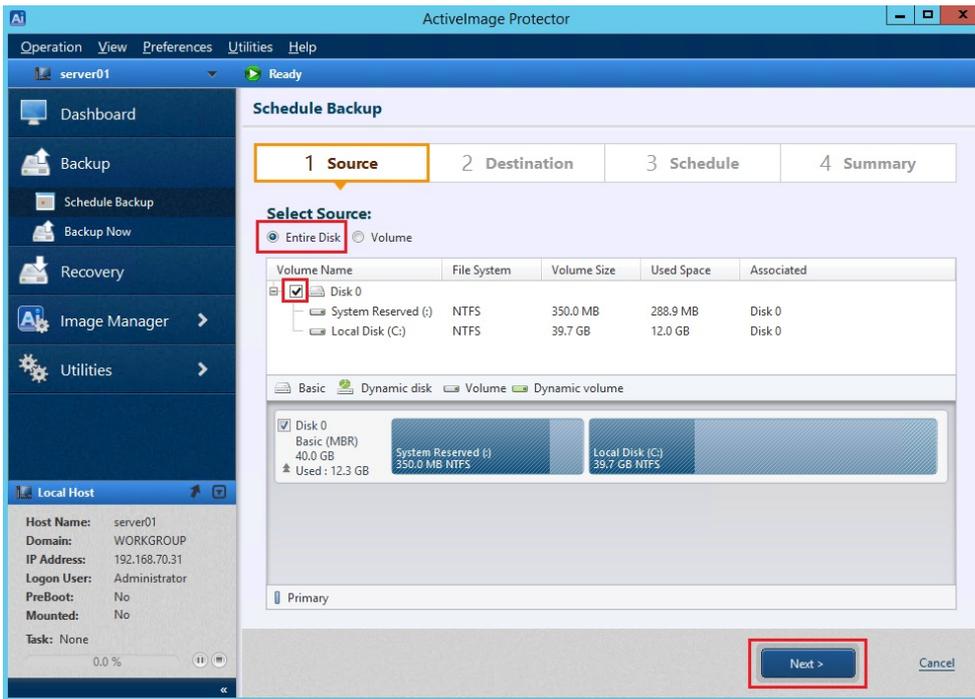
4. To select the destination storage, please specify the location to save backup image files. Here, destination storage will be "\\192.168.70.30\disk". Click on [Select Folder] to browse to the backup destination folder.
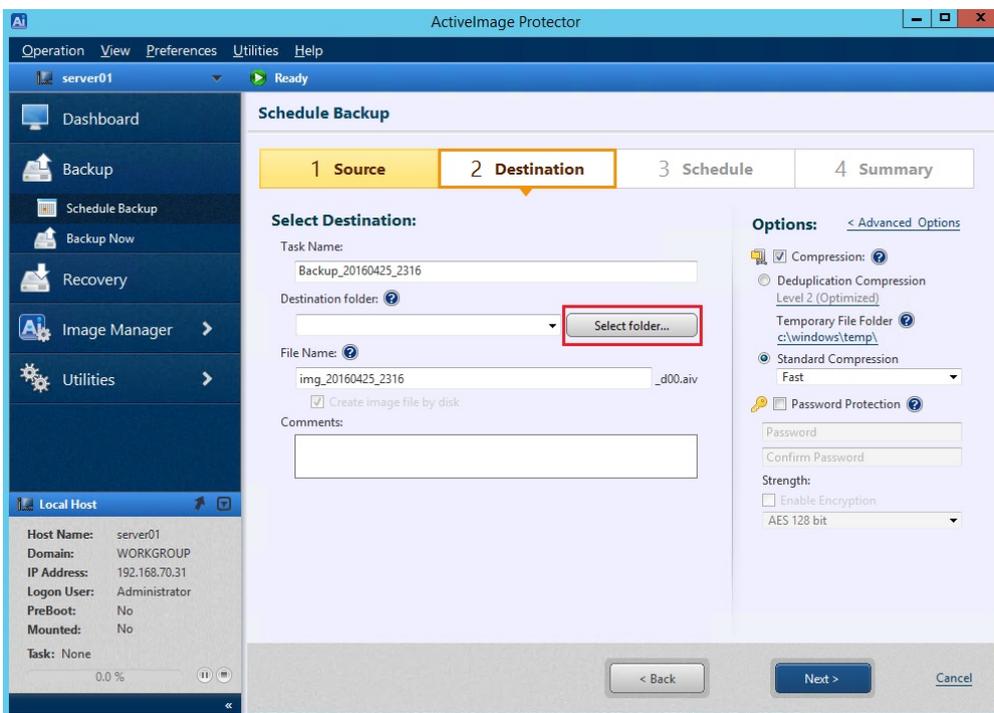
5. Enter the path "\\192.168.70.30\disk" directly to the backup destination folder.
Then press "Enter" key.
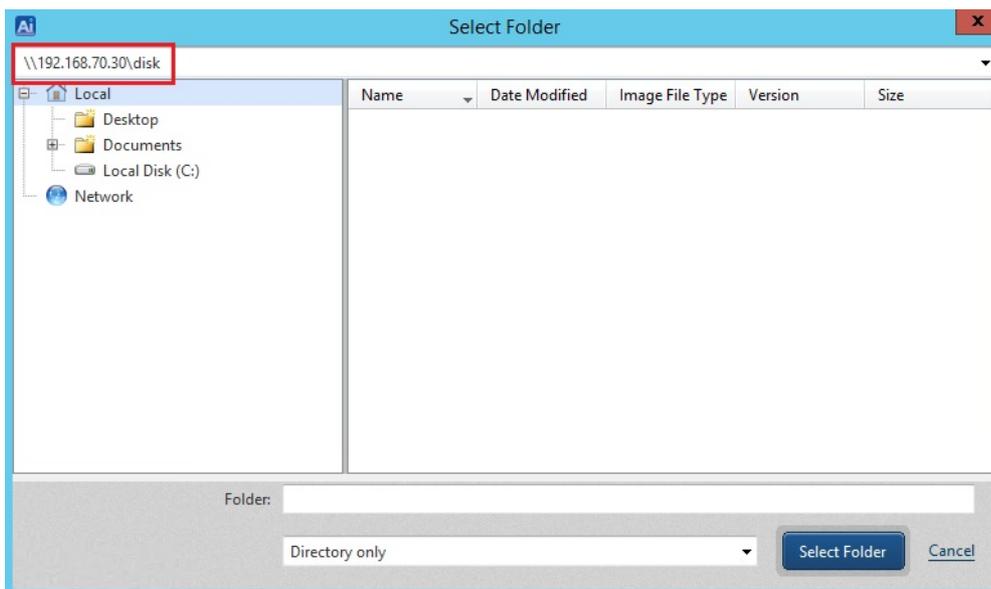
6. Enter "User Name" and "Password" for the backup destination folder.
Specify "User Name" in [computer name\user name] format.   Here, "Computer name" is [server01] and "User name" is [aip], so "User Name" will be[server01\aip]. Enter the proper "Password". Click [Connect] to start.
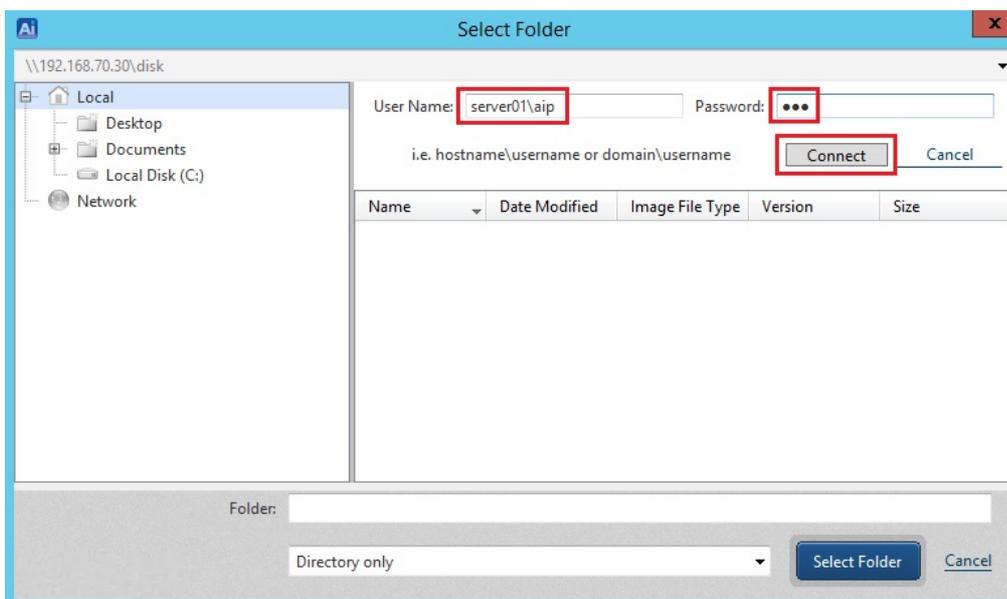
<note>When you have already specified the destination folder in the past and specify it again, the screens on step 5 and step 6 will not be displayed.

7. Review the backup destination folder. Click [Select Folder] after confirming the destination folder is selected.
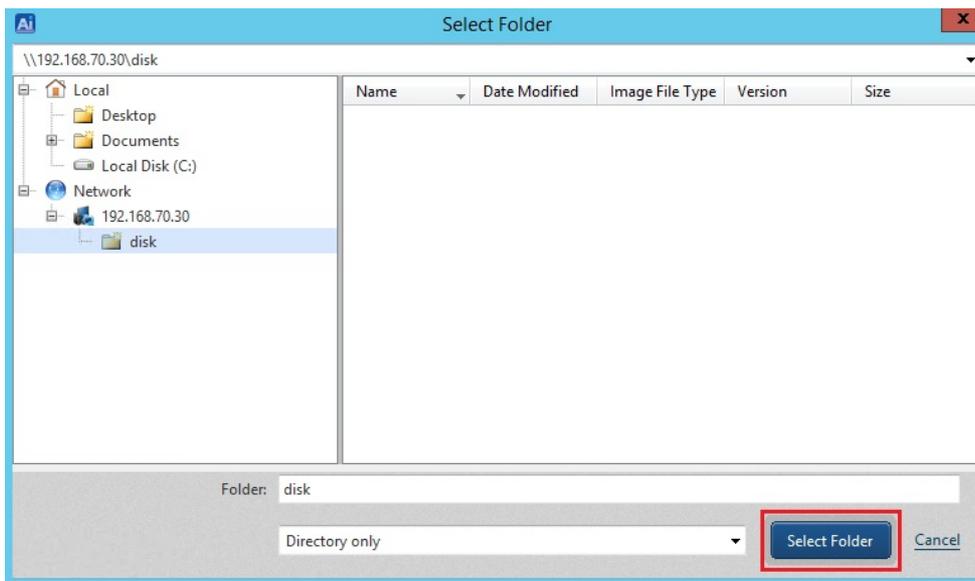
8. Enter "Task Name" and "File Name. Here, for example, "Task Name" is "schedule01" and "File Name" is"backup01". File name extension is set automatically. Then, click ［Next］.
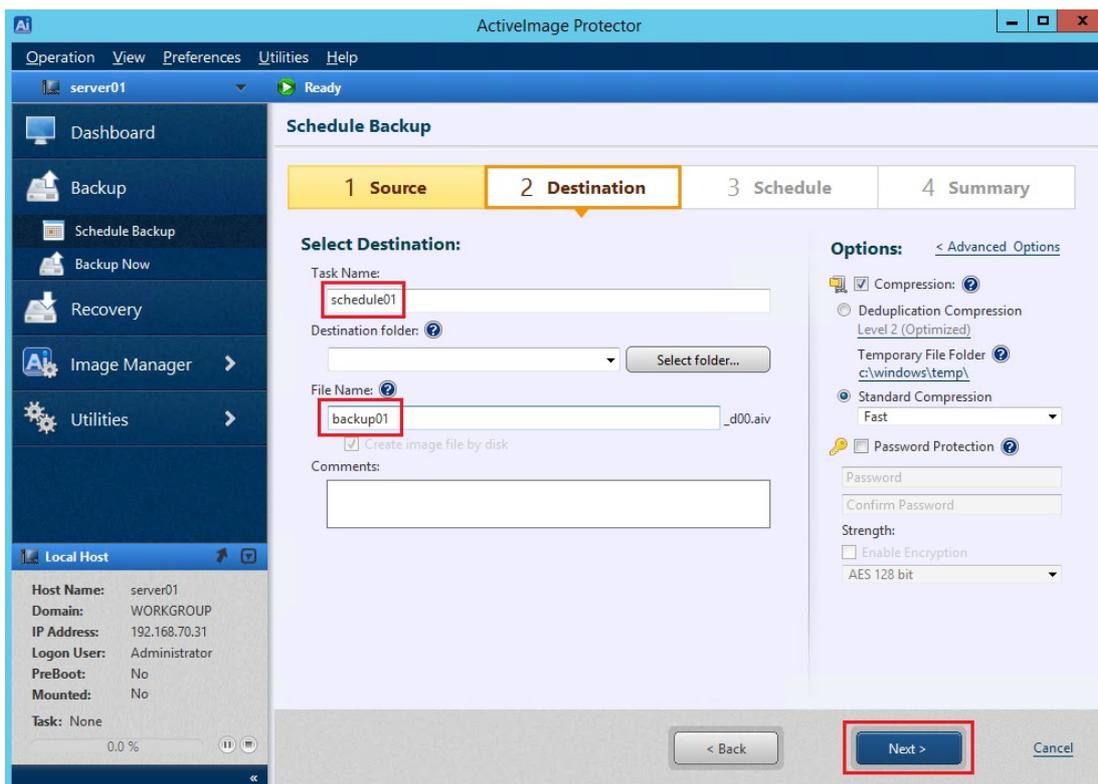
9. Here, the weekly backup schedule is set as follows:
　・Base backup：Select [Weekly]: Select by clicking the day(s) of the week (Sunday) and the time of day (1:00 AM) to perform a recurring full base backup.
　・Incremental backup：Select [Weekly]:Select by clicking the days of the week (from Mon. to Fri.) and the time of day (1:00AM). Then, click [OK].
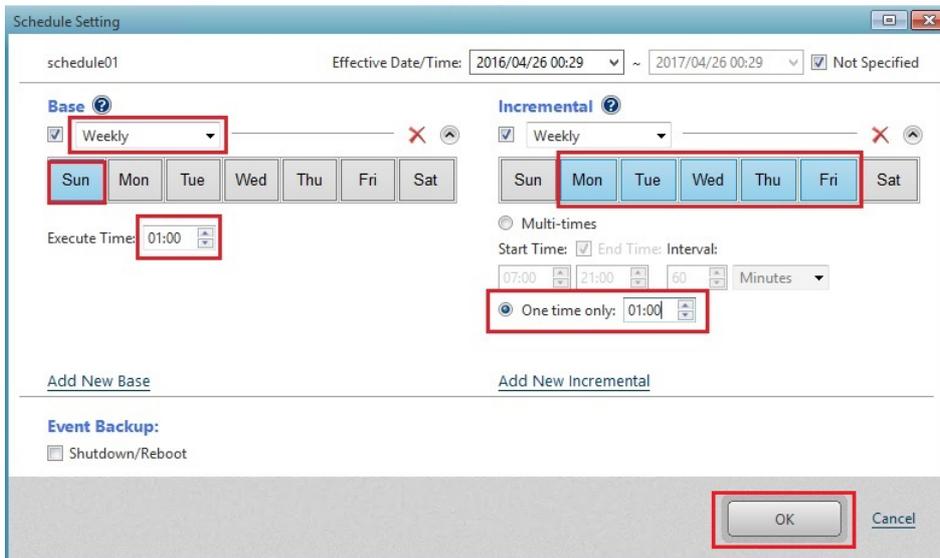
10. Configurable options include reconciliation, a retention policy, deletion of pre-reconciliation incremental image files and notifications. "Enable Retention Policy"- Check this box to enable a retention policy as to how many sets of incremental backup files to retain before deletion. Here, "3" is selected for [Number of image sets to retain]. When the number of backup image sets reaches "3" and another backup image is created, the oldest backup image set is automatically deleted. Click on [Next].
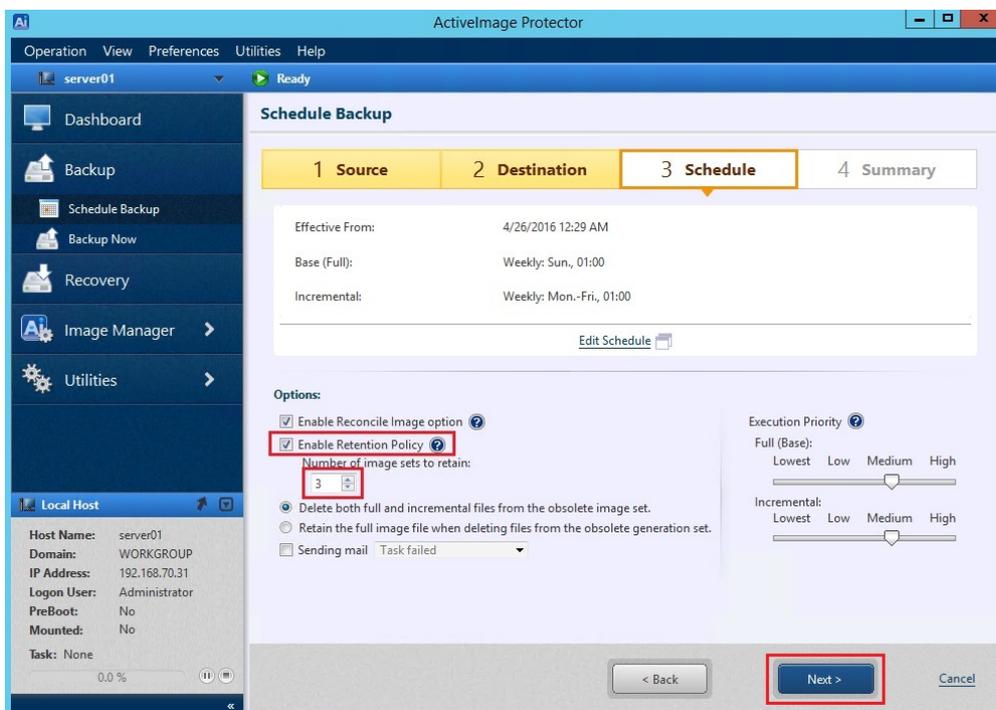
11. Use the Summary window to review the backup configuration and options. Click [Done] to start the backup.
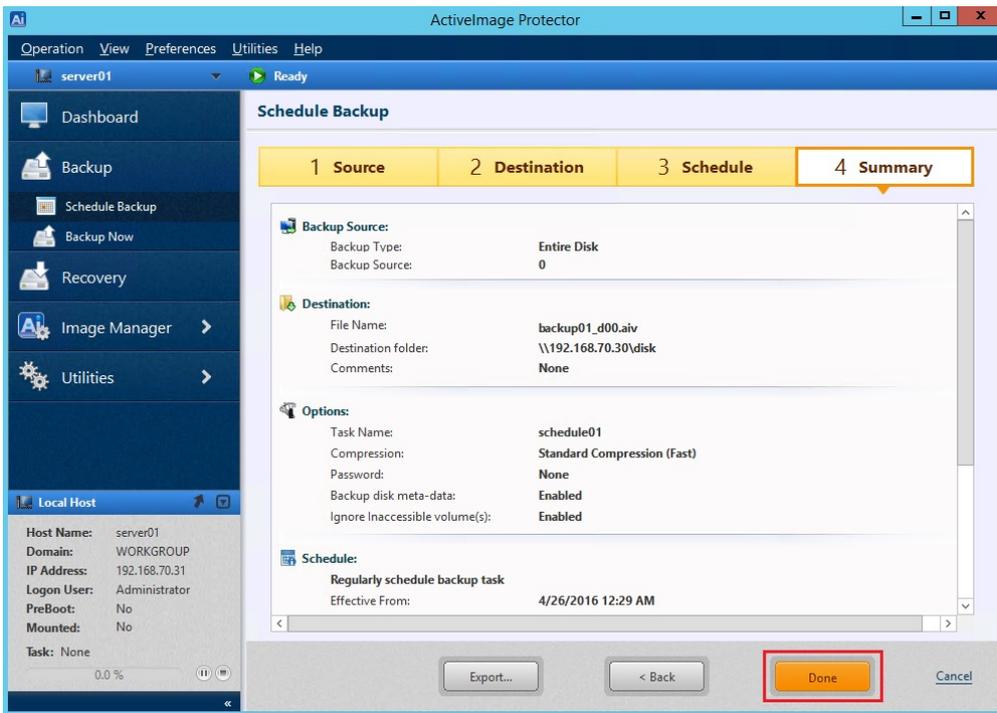
12. You can review the backup schedule on the panel of Dashboard, which displays the current configured schedule name, task type, date and time of origin, last and next scheduled task execution. The backup will be executed as specified.
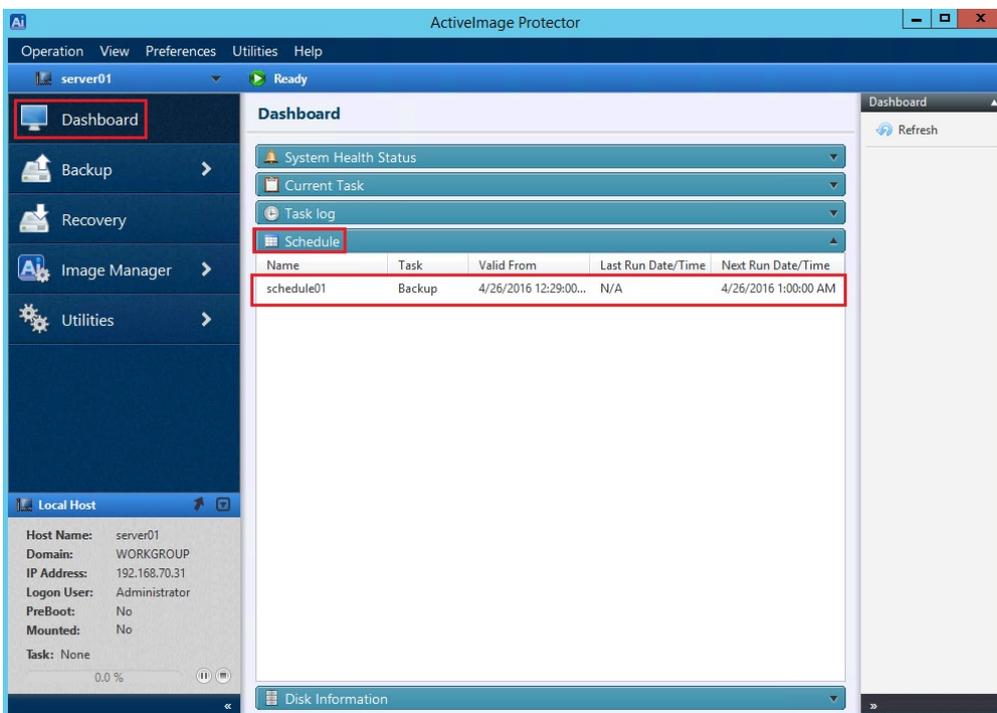
5. Recovery

Granular recovery of a file

ActiveImage Protector provides Mount Backup Image feature to restore selected files.　To restore respective files or folders, please follow the procedure below:

1.　Start up ActiveImage Protector：

　　　Server OSes: Windows Server 2008 R2 or earlier:
　　　Select [Start] – [All Programs] – ［NetJapan］ - [ActiveImage Protector]

　　　Desktop OSes: Windows 7 or earlier：
　　　Select ［Start］ → ［All Programs］ → ［NetJapan］ → ［ActiveImage Protector］

　　　Server OSes:Windows Server 2012 or later
　　　Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

　　　Desktop OSes :Windows 8 or later：
　　　Select ［Start］ → ［Apps］ → ［NetJapan］ → ［ActiveImage Protector］

2.　From the menu pane, click [Image Manager]. Click the large [Mount Image] button.
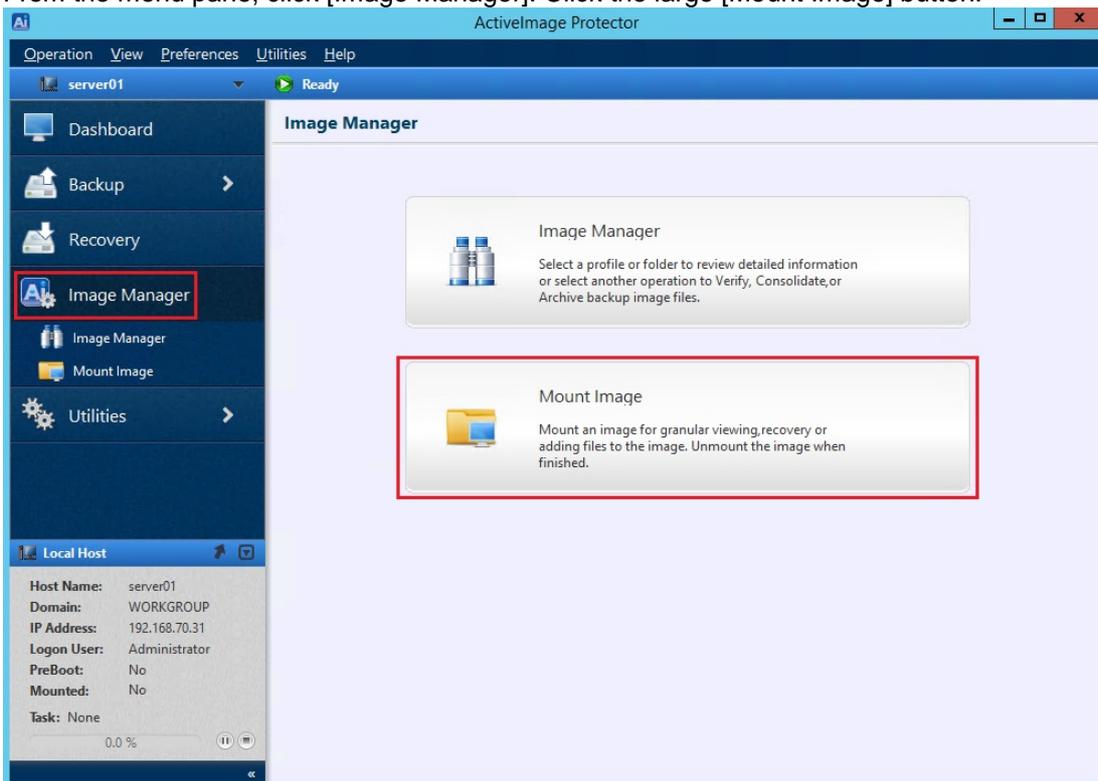
3.   Click on [...] button to browse the location of the image file to mount.
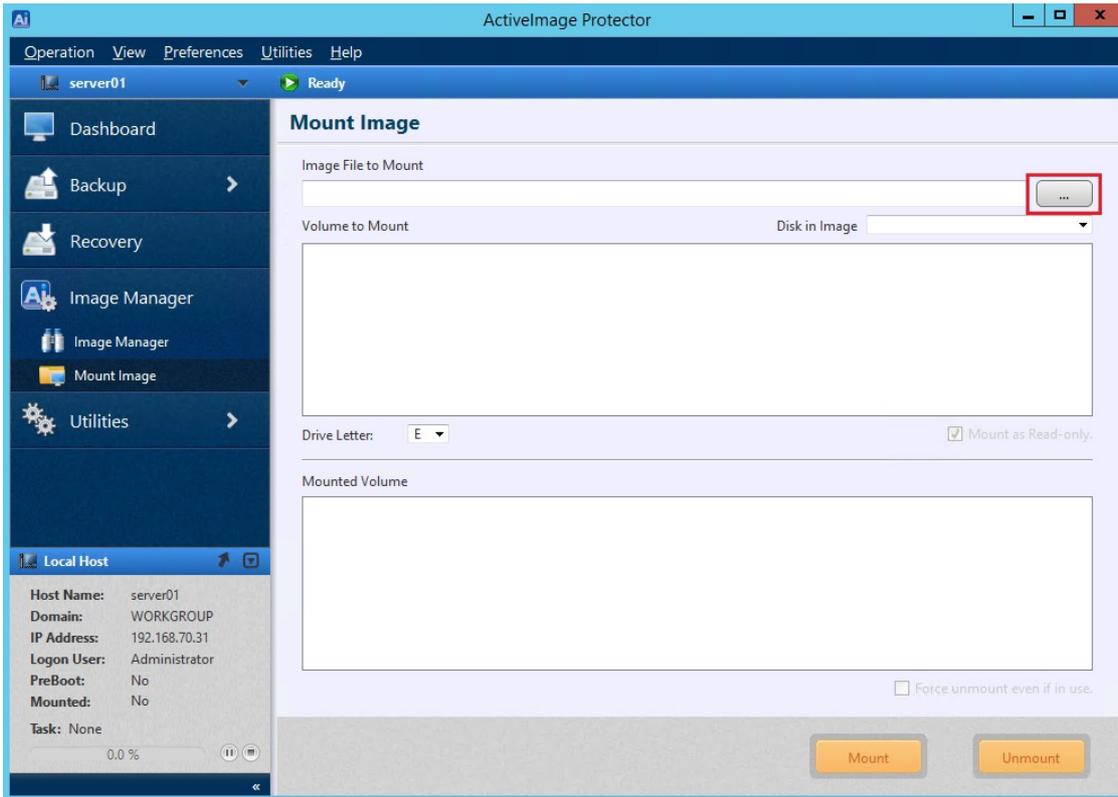
4.   Enter "\\¥¥192.168.70.30\disk" in [File Name:] to specify the image files storage folder and click [Open] button.
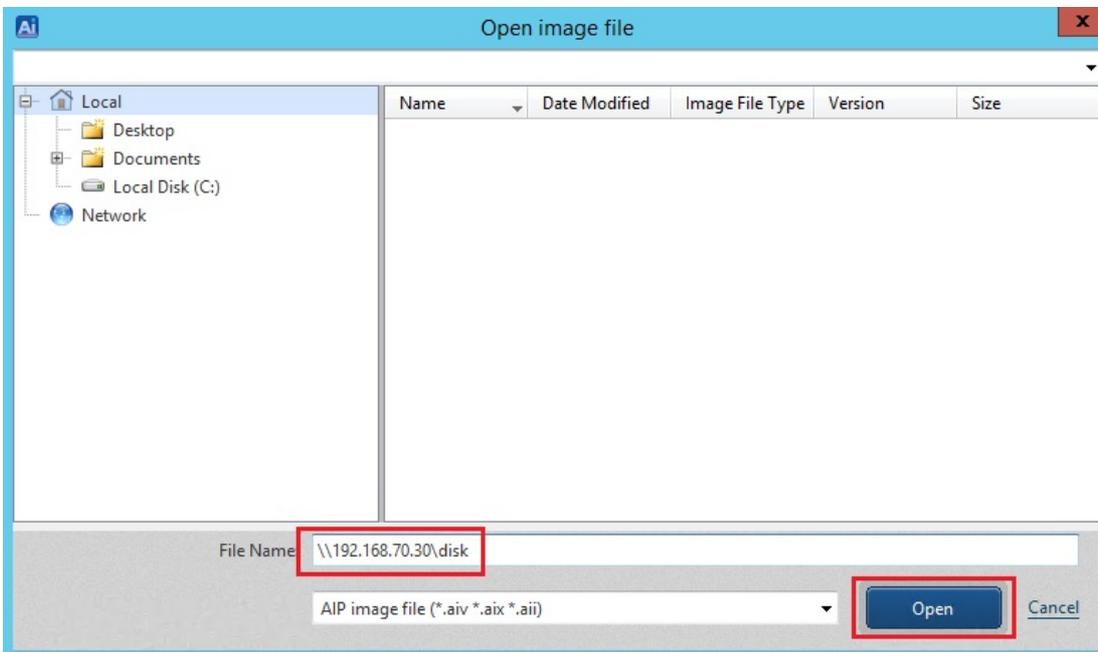
5. Enter "User Name" and "Password" for the backup destination folder.
    Specify User Name in "computer name\user name" format.   Here, "Computer name" is [server01]and
    "User name" is [aip], so "User Name" will be [server01\aip]. Enter the proper "Password". Click [Connect] to
    start.
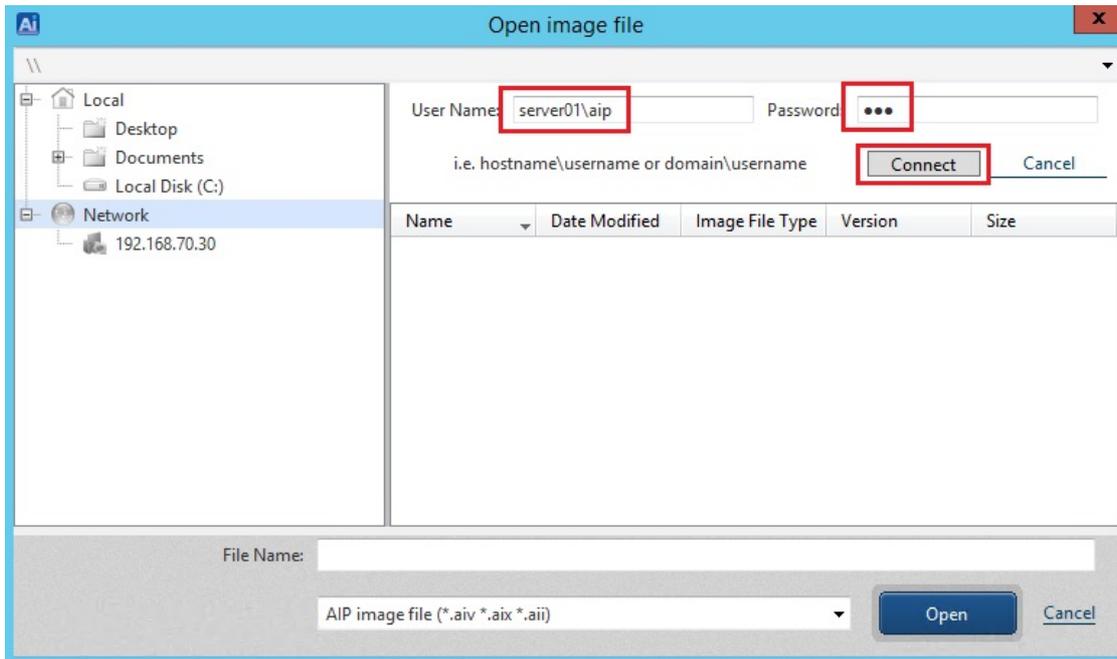
6. Select the backup image which includes the file to restore and click [Open] button.
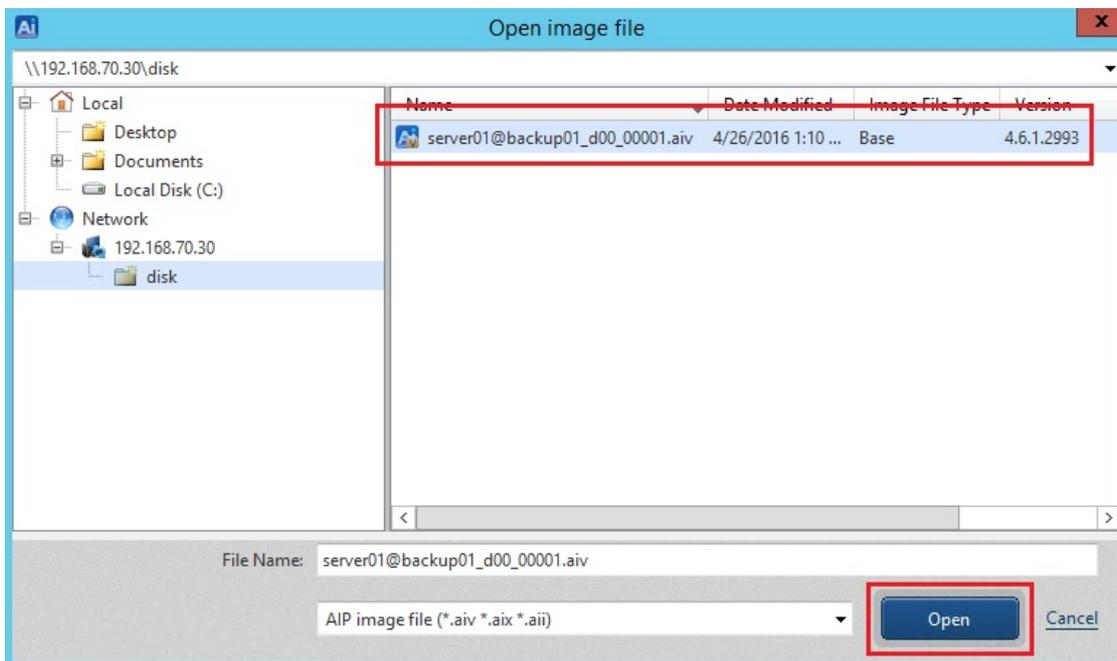
7. Select the partition to mount from [Volume to Mount:] and assign the driver letter in [Drive Letter] to mount image to and click [Mount] button. For example, "C:" drive in the image is assigned to "F:" drive.
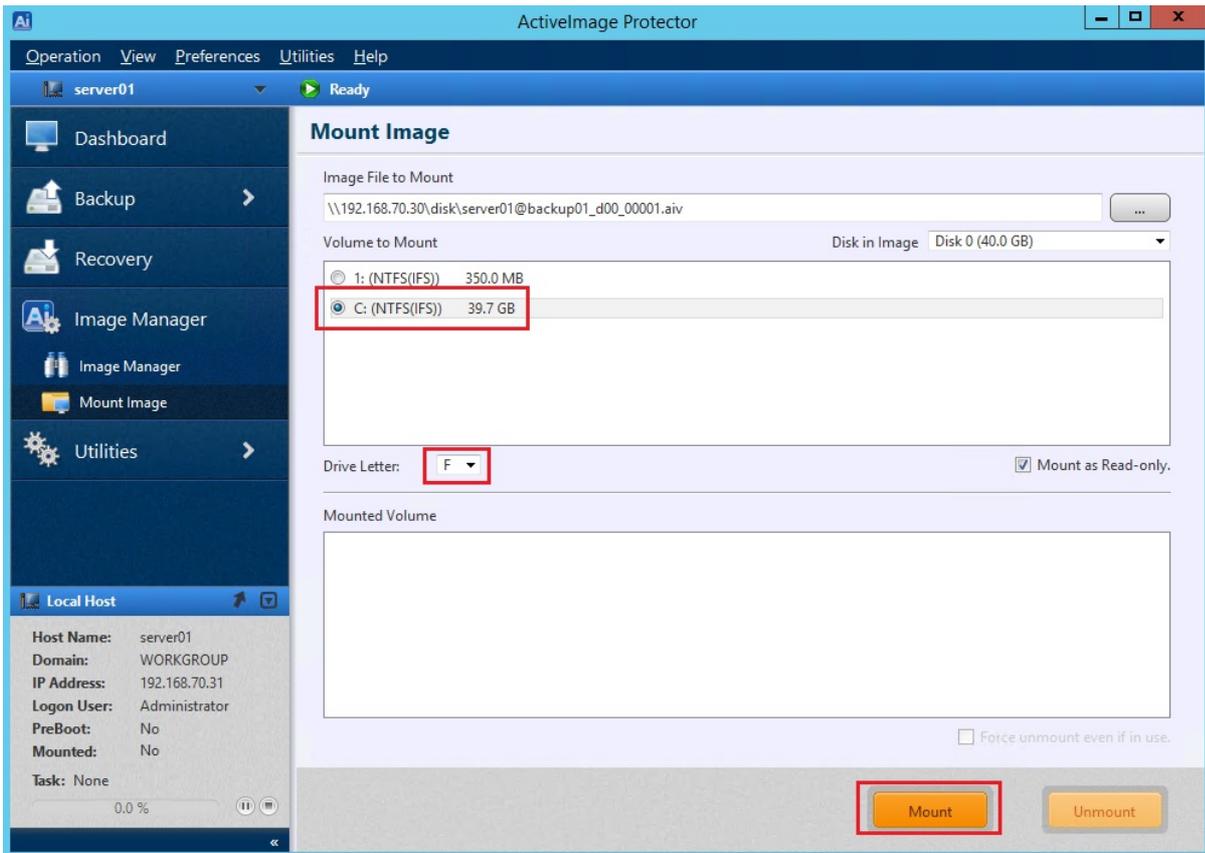
8. Please make sure that "F:" drive is created in Explorer window. [Copy] and [Paste] operation may be used in Windows OS to restore a file or folder from the mounted drive to a specific location.
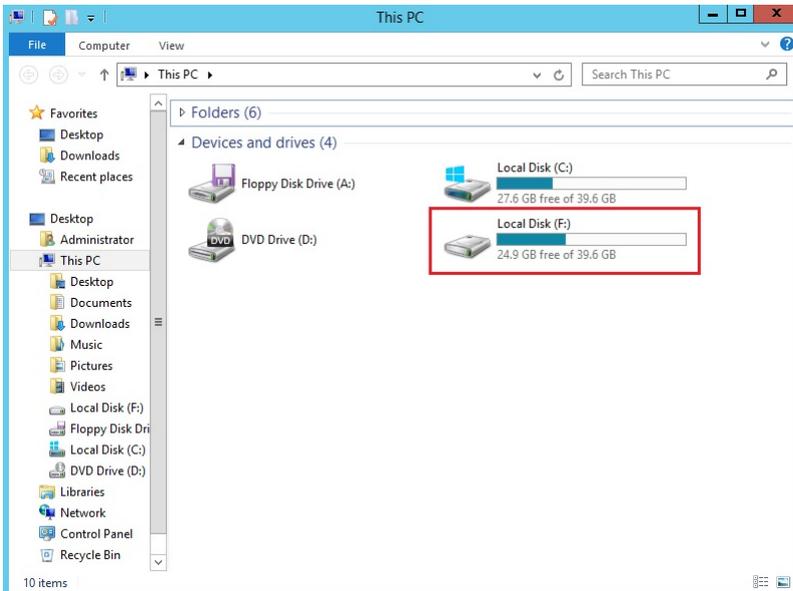
9. When restore process is completed, unmounts the drive. End Explorer and check on the checkbox of the drive in [Mounted Volume]. Check on the checkbox for [Force unmount even if in use] option and click on [Unmount] button. For example, the image mounted on "F:" drive is selected.
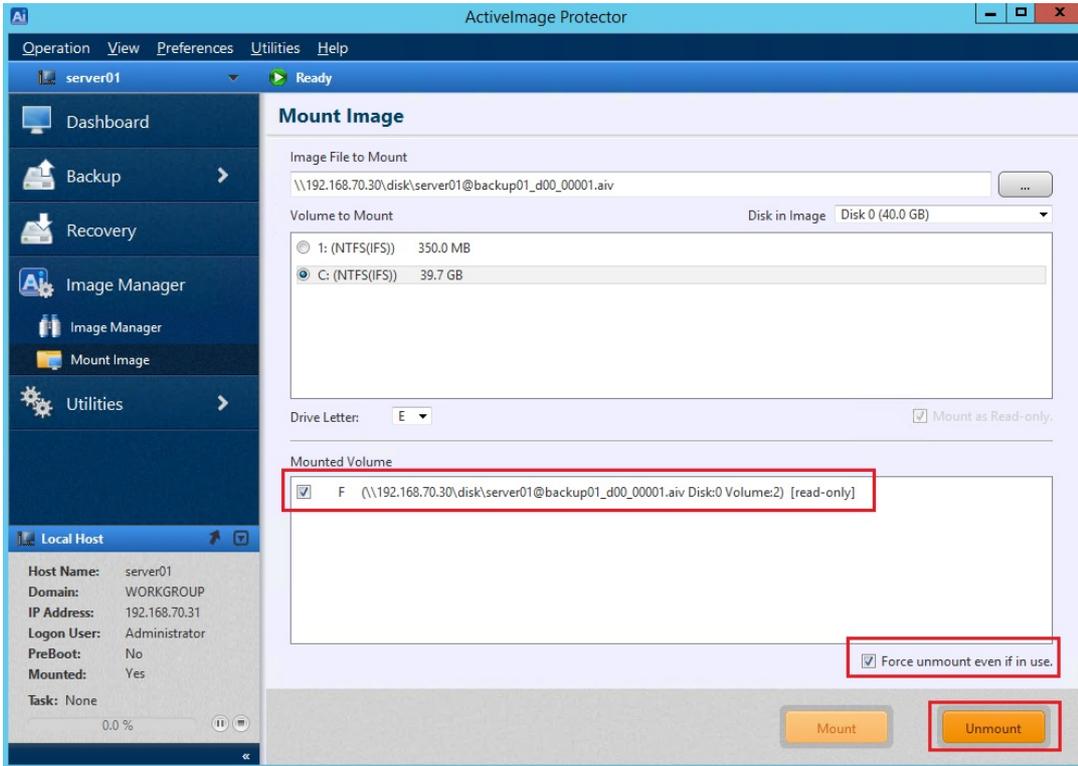
10. Please make sure that the drive assigned to the mounted image is no more displayed in the following windows.
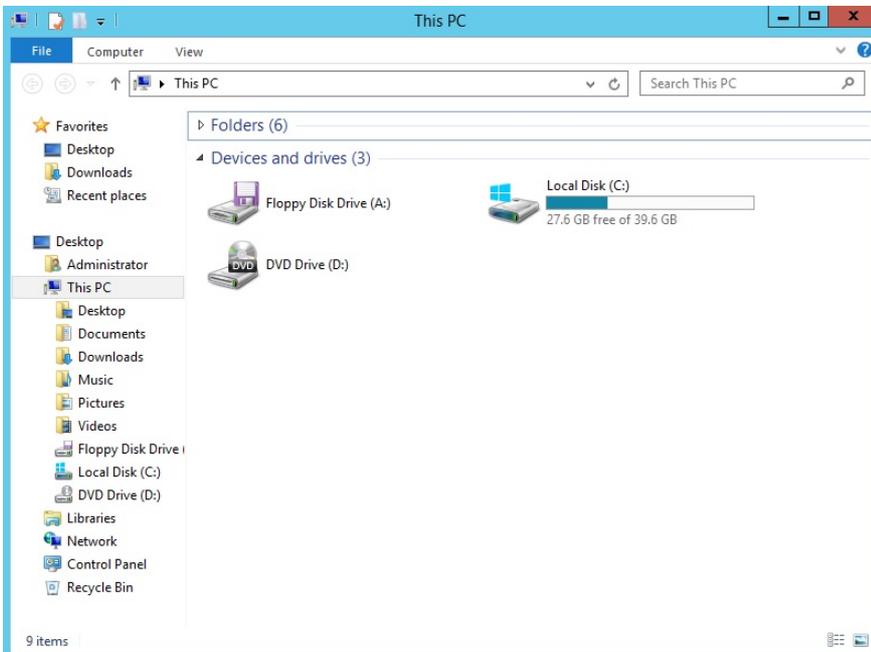
System Recovery

The following are the system recovery procedures using ActiveImage Protector's product media.

Note: Please note be careful that when system recovery is completed, the entire data on local volume are purged.

1. Insert ActiveImage Protector's boot media in the media drive to boot up the machine. Please wait until boot environment is coming up.

2. For the preferred language, please select [English] on ［Select Language］ menu and click [OK] button.
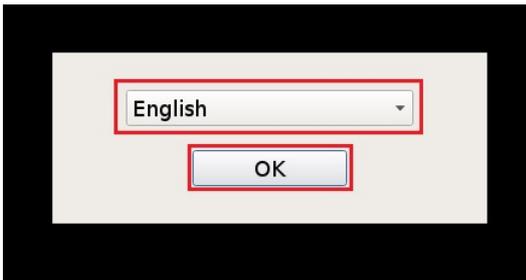
3. ActiveImage Protector console is launched.
   Select [Utilities] on the left pane and click [Network Setting] to configure the settings for [IP Address].
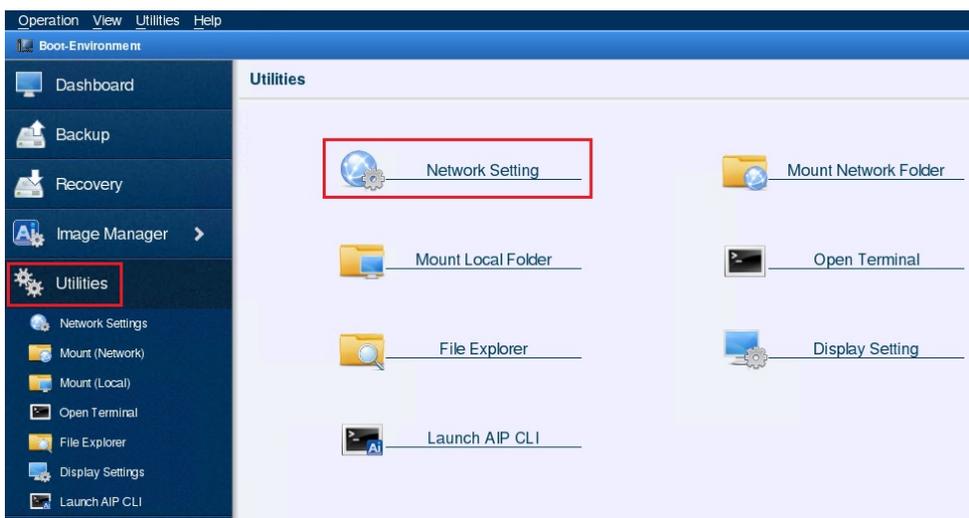
4.	Select [Use the following IP address] and enter [IP address] and [Subnet mask].
	For example, " 192.168.70.31" is entered for [IP address], "255.255.255.0" for [Subnet mask] and click [Apply] button.
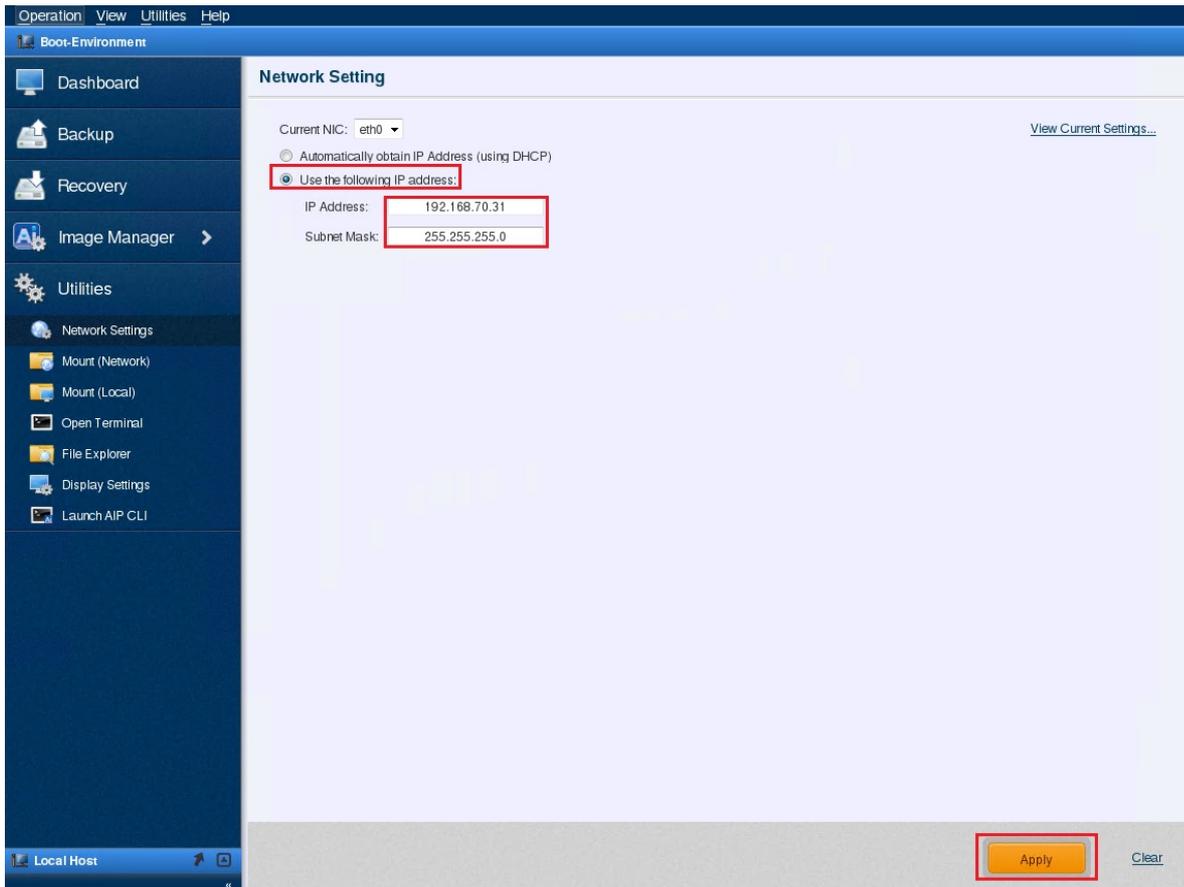
5.	Click [OK] to [Apply new settings?] message.

6. Click on [Mount (Network)].

7. Mount the image file storage destination. Here, for example, please set as follows:
Network computer: BACKUP-SV
IP address: 192.168.70.30
Shared folder: disk
User Name: aip
Password: (password specified by the user)
Double-click on ［BACKUP-SV（192.168.70.30）］.

When the destination computer is not displayed, click ［Refresh all network computers］ button.
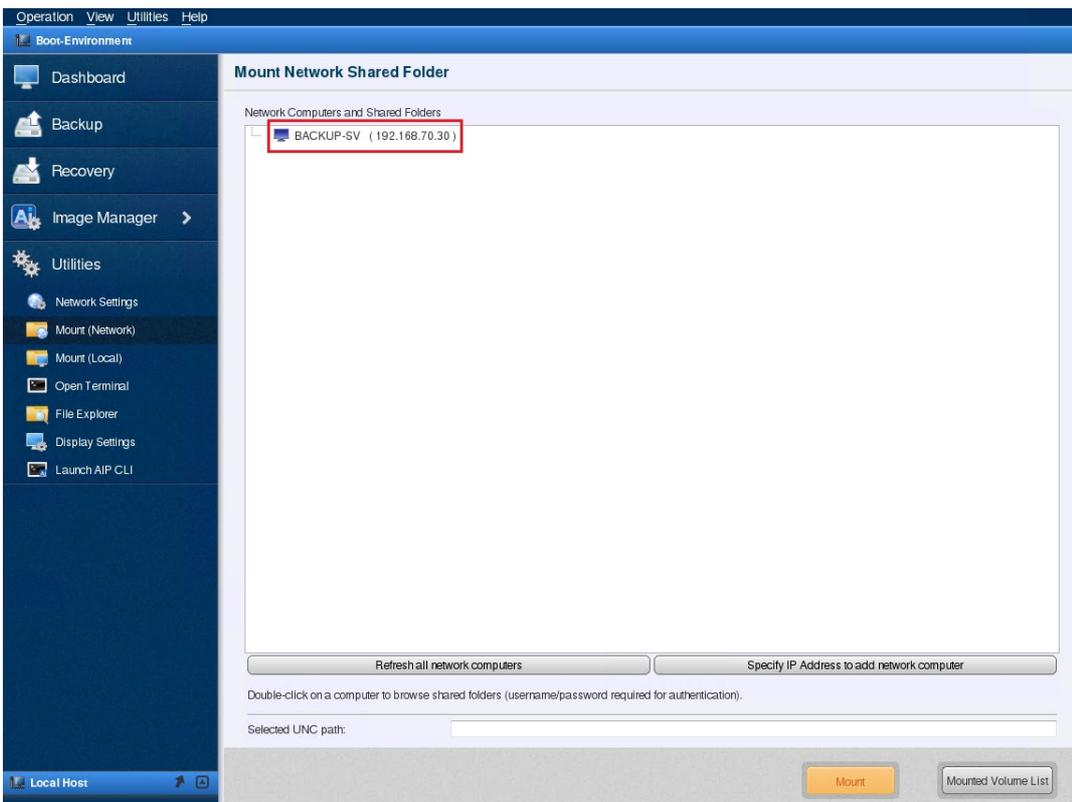
8. Enter the user name in [Enter User Name] to access the backup destination folder and click [OK] button.
   For example, "aip" is entered here.

9. Enter "Password" for [Enter Password] and click [OK] button.

10. Click on [+] mark on the left of the computer name to expand the shared folder.
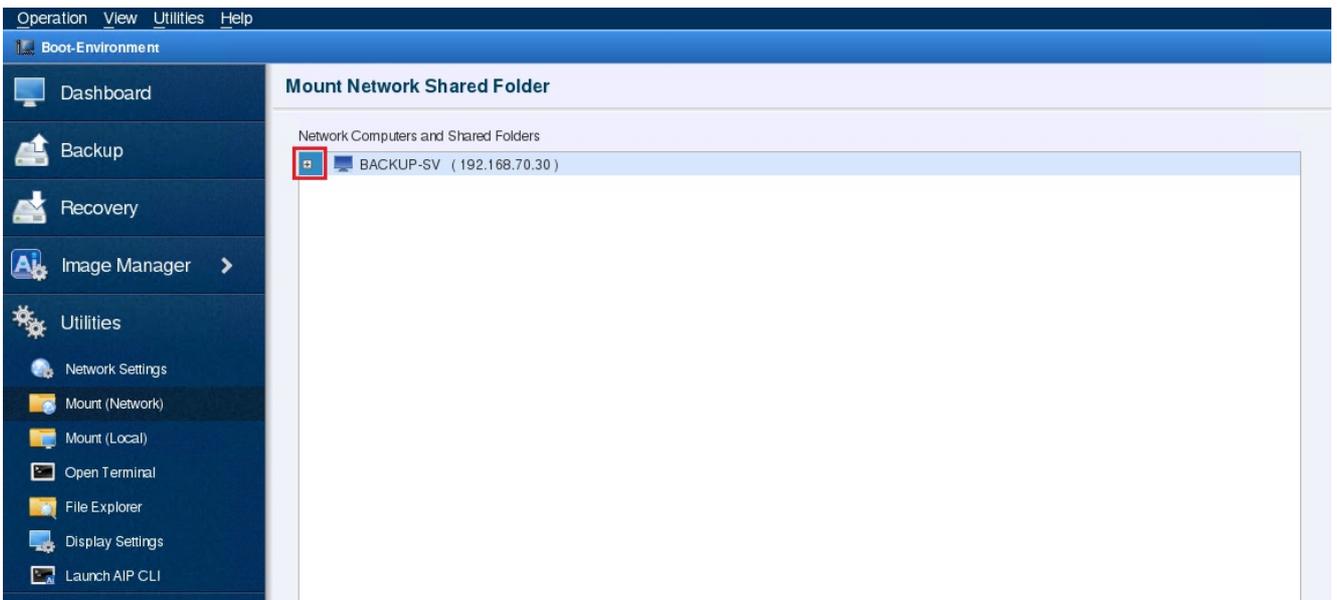
11. Select a shared folder, for example "disk" here, and click [Mount].
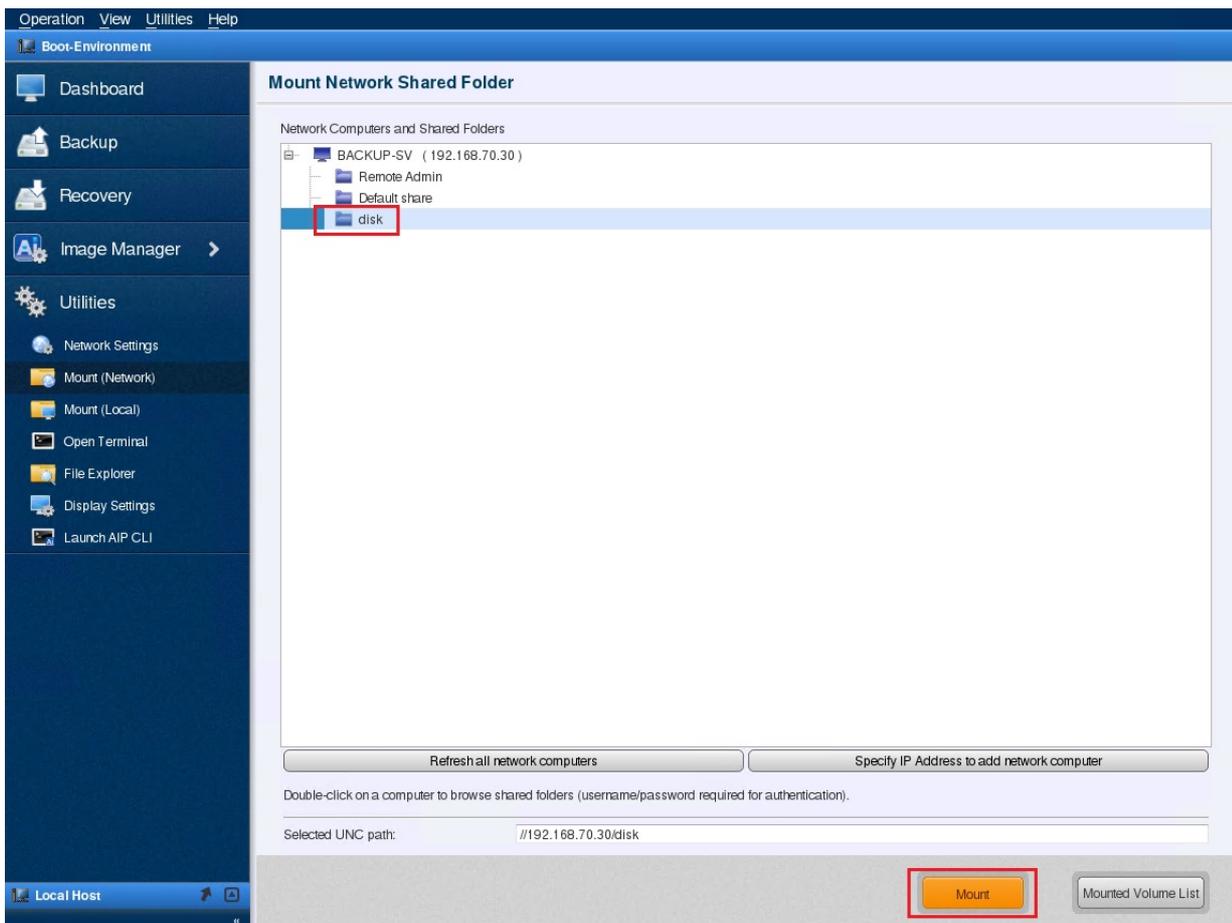
12. Please make sure that the mount point is created in the [Mounted Network shared folder] list.
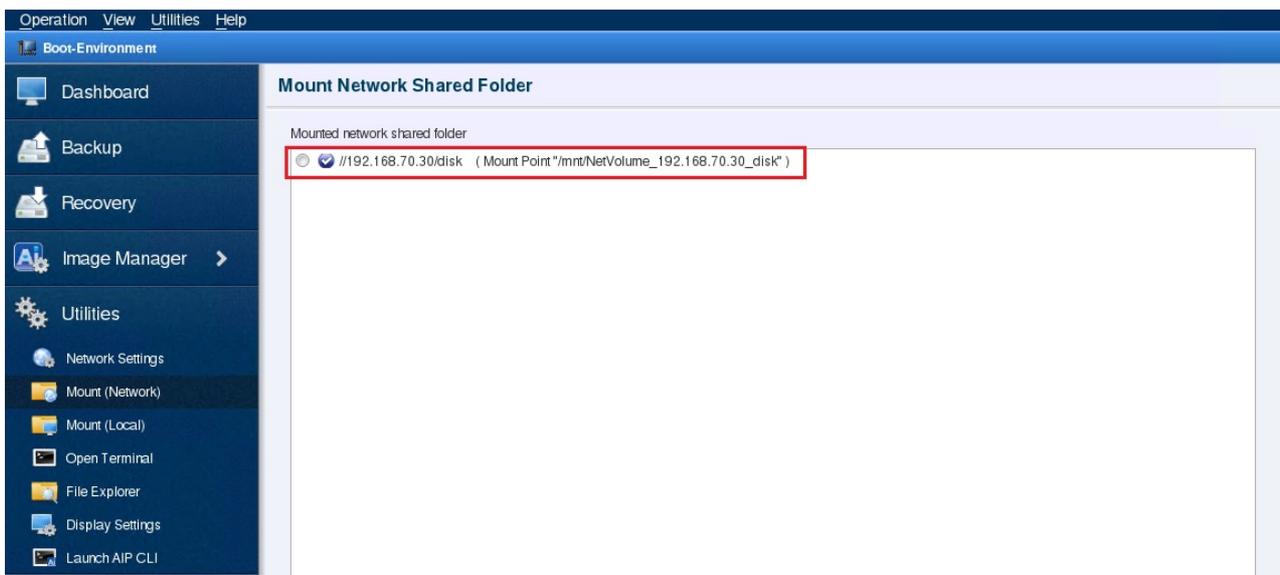
13. Click [Recovery］from the left pane and click ［Select Image file］.
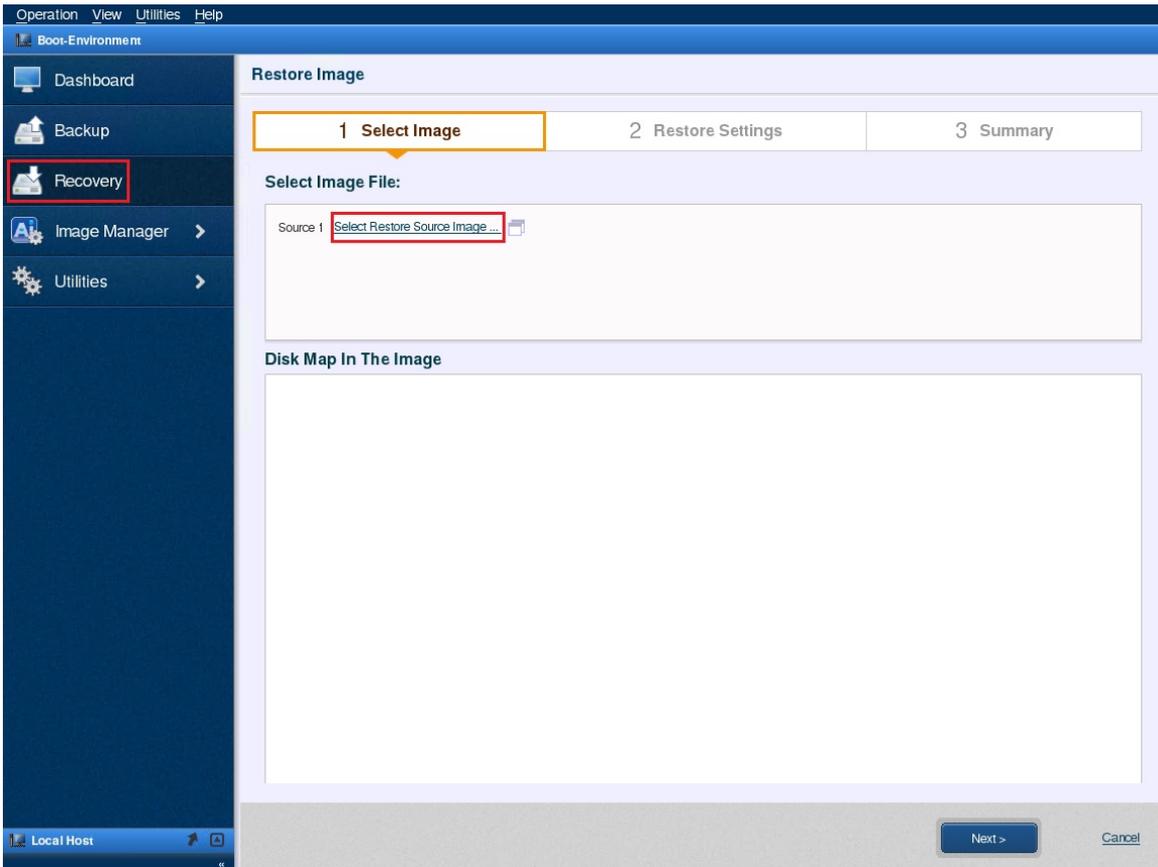
14. Please open the mounted folder (here, it is " NetVolume_192.168.70.30_disk") and select the image file. Click [Open].
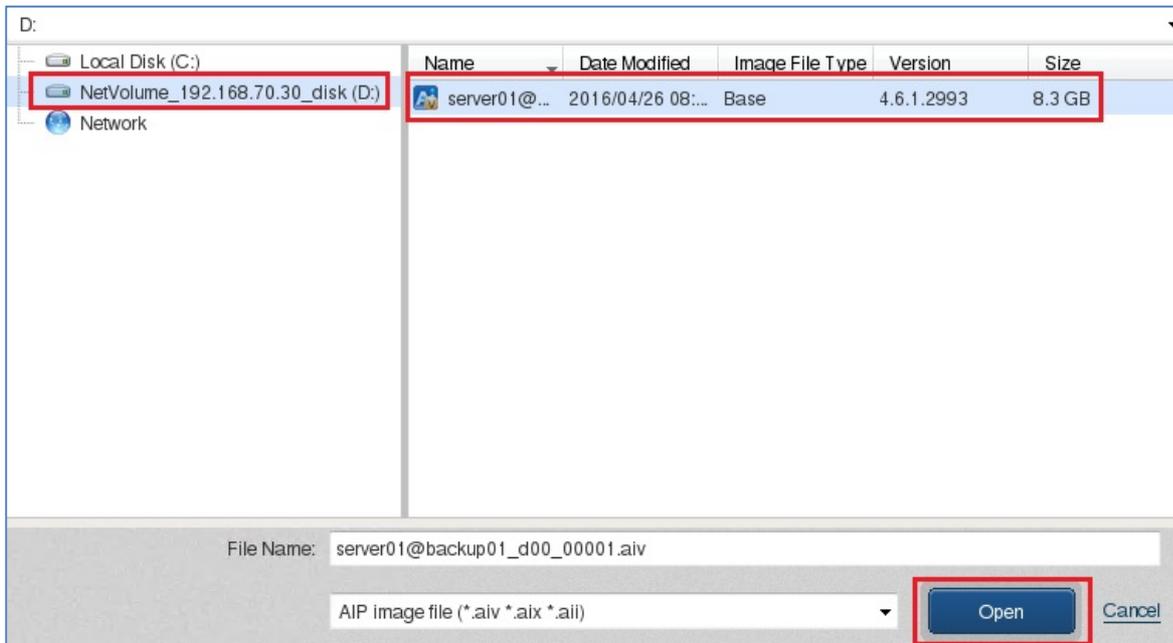
15. Check on the checkbox for [Disk 0] on [Disk Map In The Image] and click [Next]
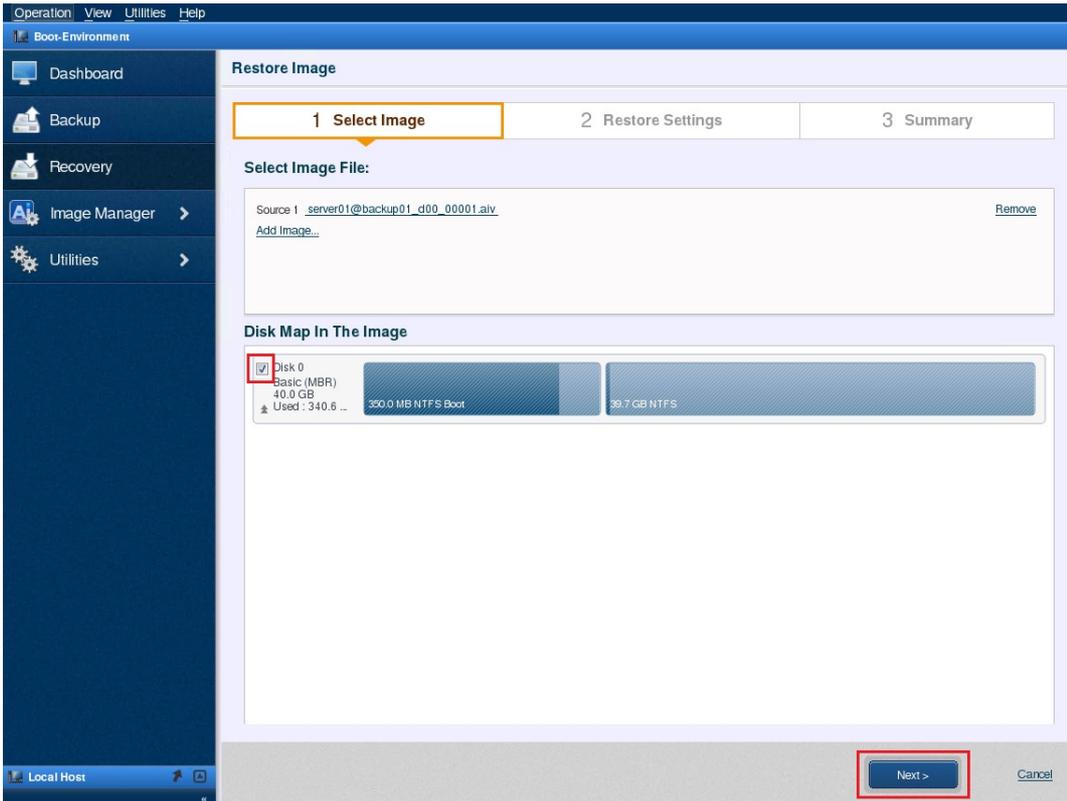
16. Drug & drop [Disk 0] from [Source Objects] to [Target Settings].
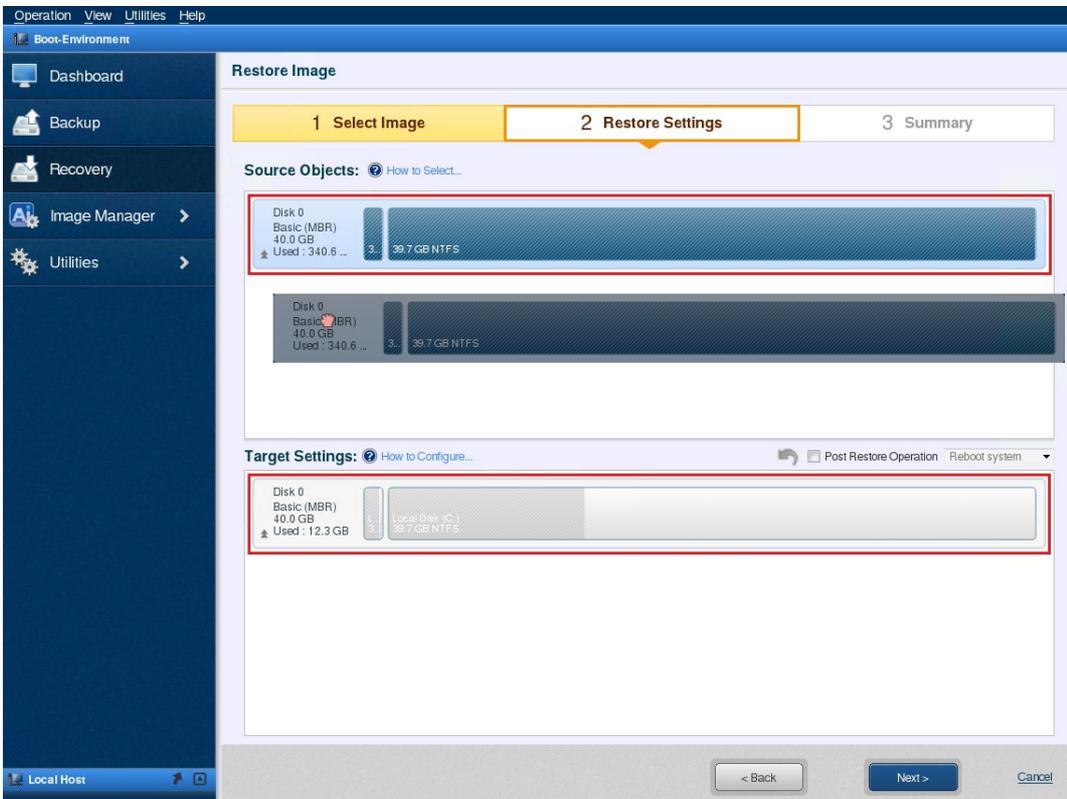
17. The following message is displayed for confirmation. Click [OK] to start restore processing.

18. Click [Next].
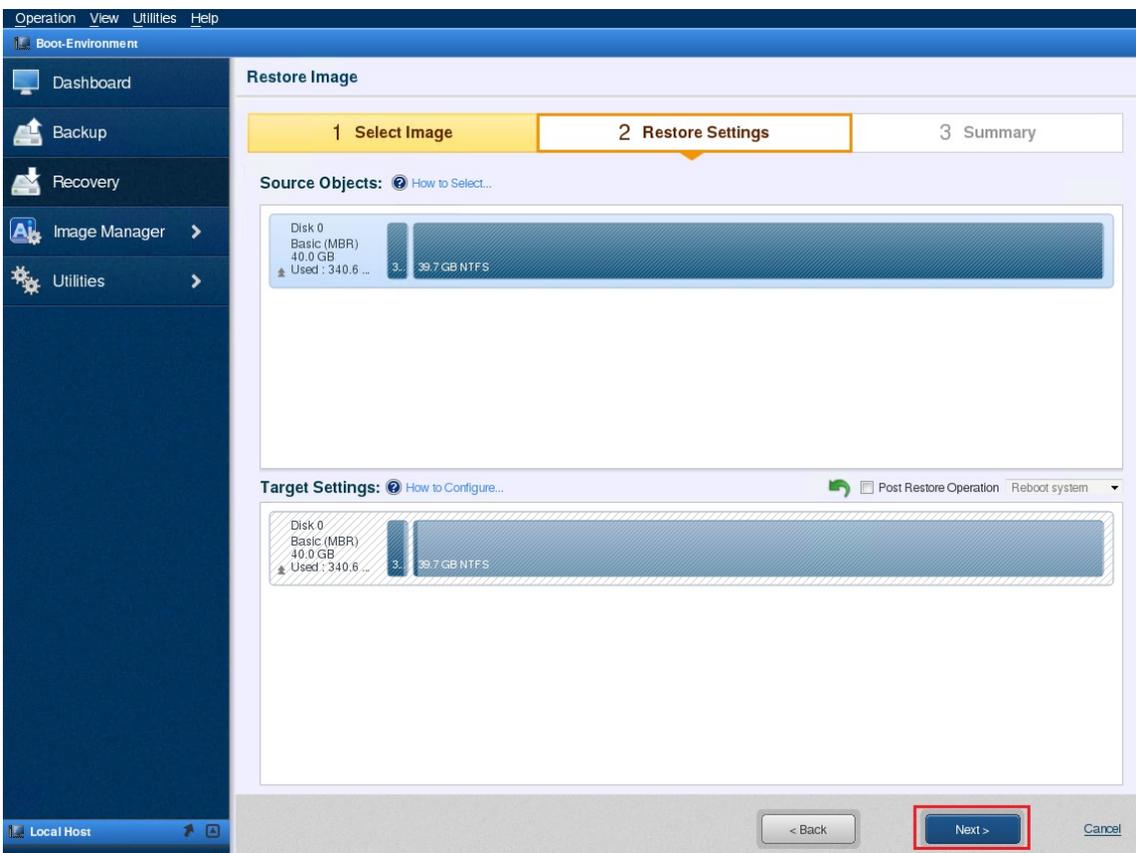
19. Summary of restore process is displayed. Please review it and click [Done] to start.
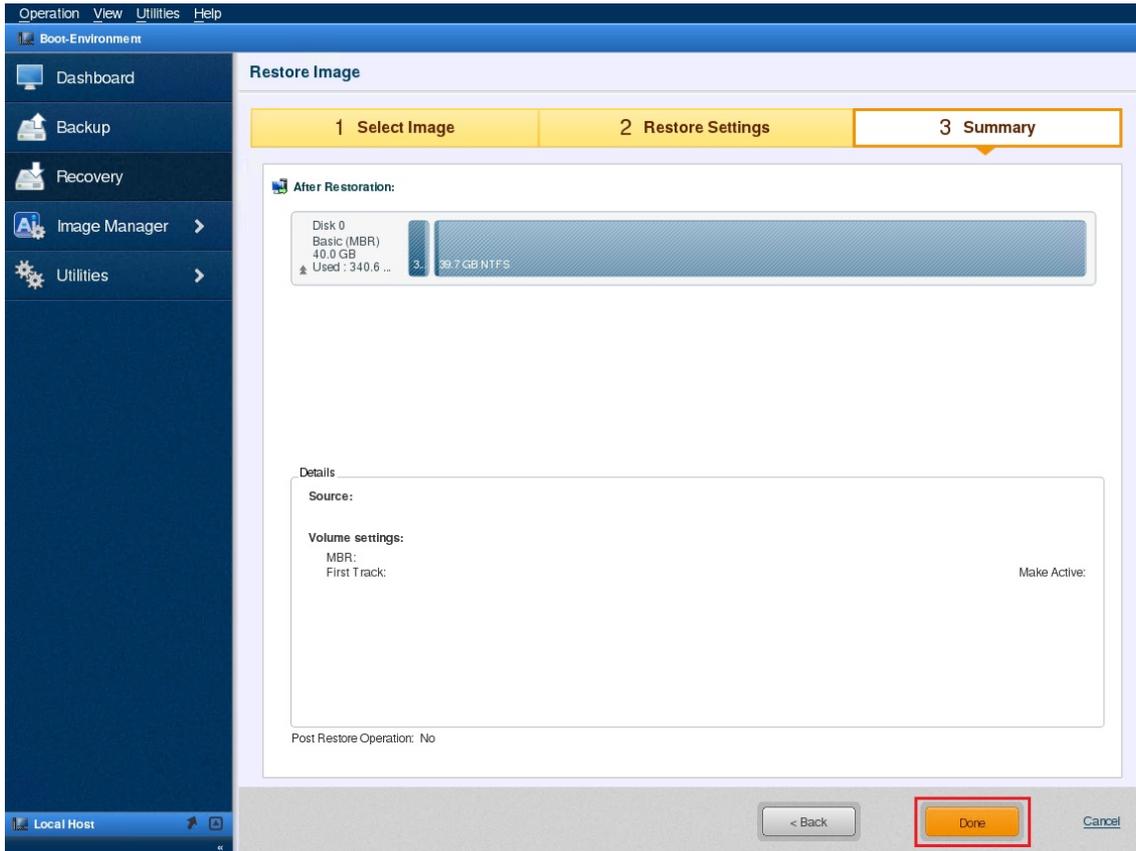
20. When restore task is started, the progress bar of restore process is displayed.
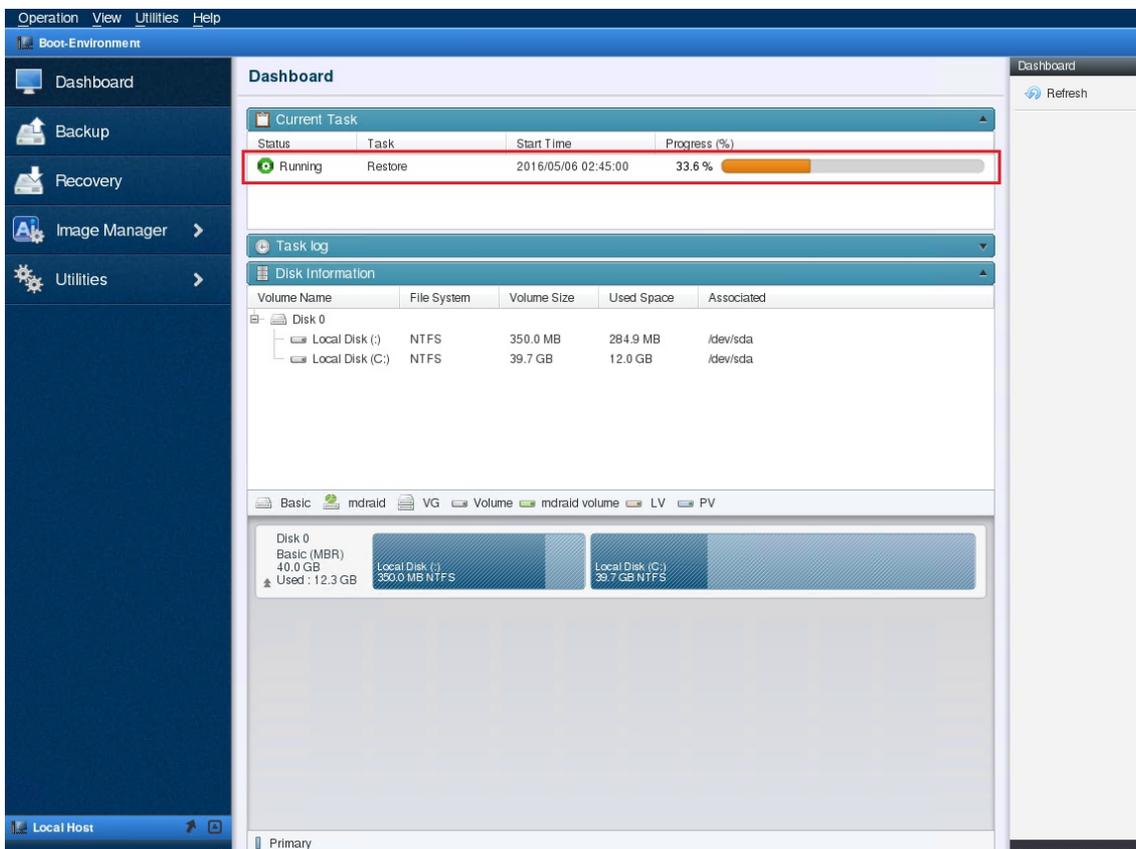
21. When the progress bar reaches 100%, the restore process complete. Click [OK] button.
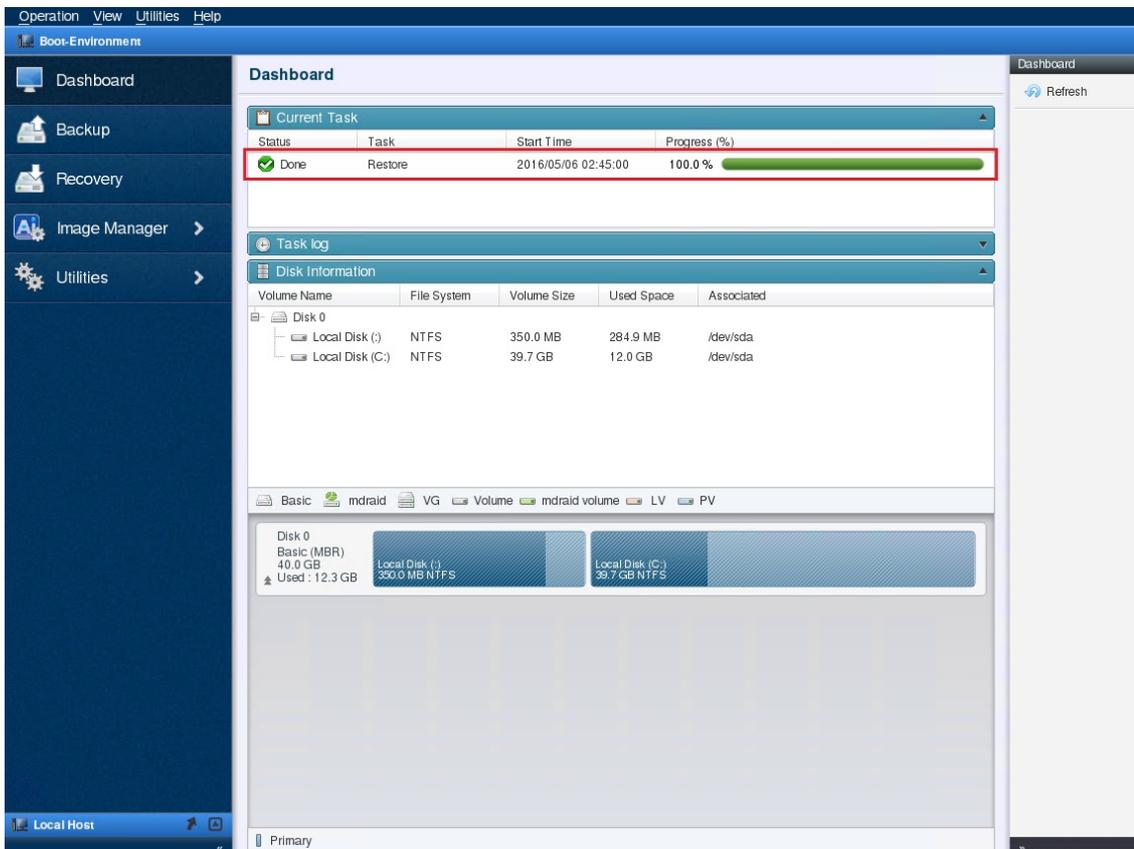
22. Select [Shutdown] from [Operation] and ［End(E)］ menu to complete the recovery environment.
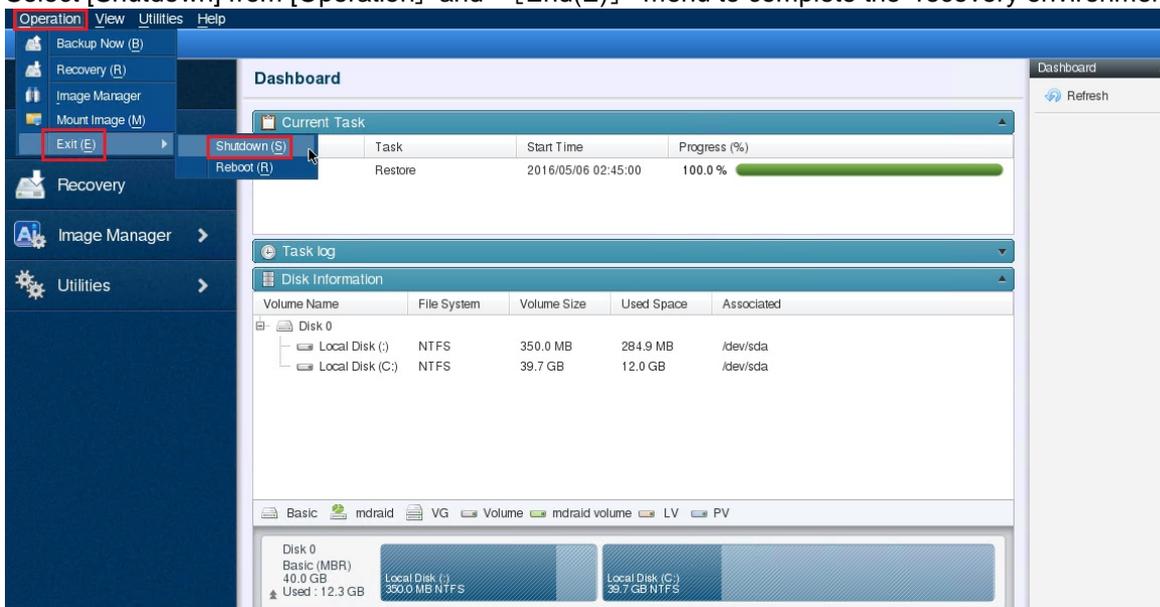
Upon completion of shutdown process and take out the product media from the computer.
Please power on the computer again and make sure that Windows system is normally started.
This is the end of restore procedures.

APPENDIX

ActiveImage Protector Reference Information

・ ActiveImage Protector Web site http://www.netjapan.com

・ ActiveImage Protector FAQ http://kb.netjapan.com/en/aip/quick