



Acronis True Image OEM for Windows Server

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1 Introduction

1.1 What is Acronis True Image OEM for Windows Server?

Acronis True Image OEM for Windows Server is an integrated software suite that ensures the security of all of the information on your PC. Backups allow you to recover your computer system should a disaster occur, such as losing data, accidentally deleting critical files or folders, or suffering a complete hard disk crash.

Getting started

Learn how to protect your computer with two simple steps: "Protecting your system (p. 9)".

1.2 System requirements and supported media

1.2.1 Minimum system requirements

Acronis True Image OEM for Windows Server requires the following hardware:

- Processor Pentium 1 GHz.
- 1 GB RAM.
- 1.5 GB of free space on a hard disk.
- CD-RW/DVD-RW drive or USB flash drive for bootable media creation.
- Screen resolution is 1152 x 720.
- Mouse or other pointing device (recommended).

1.2.2 Supported operating systems

Acronis True Image OEM for Windows Server has been tested on the following operating systems:

- Windows Home Server 2011
- Windows Server 2008 R2 Foundation
- Windows Server 2008 R2 Standard
- Windows Server 2012 Foundation
- Windows Server 2012 Essentials
- Windows Server 2012 Standard
- Windows Server 2012 R2 Foundation
- Windows Server 2012 R2 Essentials
- Windows Server 2012 R2 Standard

Acronis True Image OEM for Windows Server also lets you create a bootable CD-R/DVD-R that can back up and recover a disk/partition on a computer running any Intel- or AMD- based PC operating system, including Linux®. (Note that the Intel-based Apple Macintosh is not supported.)

1.2.3 Supported file systems

Acronis True Image OEM for Windows Server supports:

- FAT16/32
- NTFS
- Ext2/Ext3/Ext4 *
- ReiserFS *
- Linux SWAP *
- ReFS ** (Supported in Windows Server 2012/2012 R2 only)

* The Ext2/Ext3/Ext4, ReiserFS, and Linux SWAP file systems are supported only for disk or partition backup/recovery operations. You cannot use Acronis True Image OEM for Windows Server for file-level operations with these file systems (file backup, recovery, search, as well as image mounting and file recovering from images). You also cannot perform backups to disks or partitions with these file systems.

** Volume recovery without the volume resize capability

If a file system is not supported or is corrupted, Acronis True Image OEM for Windows Server can copy data using a sector-by-sector approach.

1.2.4 Supported storage media

- Hard disk drives*
- Solid State Drives (SSD)
- Networked storage devices
- FTP servers**
- CD-R/RW, DVD-R/RW, DVD+R (including double-layer DVD+R), DVD+RW, DVD-RAM, BD-R, BD-RE
- USB 1.1 / 2.0 / 3.0, eSATA, FireWire (IEEE-1394) and PC card storage devices

* Limitations on operations with dynamic and GPT disks:

- Recovery of a dynamic volume as a dynamic volume with manual resizing is not supported.

** An FTP server must allow passive mode file transfers. Acronis True Image OEM for Windows Server splits a backup into files with a size of 2GB when backing up directly to an FTP server.

The firewall settings of the source computer should have Ports 20 and 21 opened for the TCP and UDP protocols to function. The **Routing and Remote Access** Windows service should be disabled.

1.3 Installing Acronis True Image OEM for Windows Server

Installing and activating Acronis True Image OEM for Windows Server

To install and activate Acronis True Image OEM for Windows Server:

1. Run the setup file.
2. Read:
 - The terms of the license agreement.
 - The participation terms of the Acronis Customer Experience Program.

3. If you accept the terms of both documents, click **Install**.
Acronis True Image OEM for Windows Server will be installed on your system partition (usually C:).
4. When the installation is complete, click **Start application**. The Acronis True Image OEM for Windows Server activation window opens.
5. On the **Sign in** tab, enter your Acronis account credentials, and then click **Sign in**.
If you don't have an Acronis account, go to the **Create account** tab, fill out the registration form, and then click **Create account**.

Note: You can skip this step if you have a 64-character serial number.

6. Enter your serial number, and then click **Activate**.
To activate Acronis True Image OEM for Windows Server with a 16-character serial number, you need an Internet connection. The full 64-character serial number will be obtained and activated automatically.

Recovering from an Acronis True Image OEM for Windows Server error

If Acronis True Image OEM for Windows Server ceased running or produced errors, its files might be corrupted. To repair this problem, you first have to recover the program. To do this, run Acronis True Image OEM for Windows Server installer again. It will detect Acronis True Image OEM for Windows Server on your computer and will ask you if you want to repair or remove it.

Removing Acronis True Image OEM for Windows Server

To remove Acronis True Image OEM for Windows Server components:

1. Open the list of installed programs and applications.
 - Select **Start -> Settings -> Control panel -> Add or remove programs**.
 - If you use Windows Vista, select **Start -> Control panel -> Programs and Features**.
 - If you use Windows 7, select **Start -> Control Panel -> Uninstall a program**.
 - If you use Windows 8 or Windows 10, click the Settings icon, then select **Control Panel -> Uninstall a program**.
2. Select the component to be removed.
3. Depending on your operating system, click **Remove** or **Uninstall**.
4. Follow the instructions on the screen.

You may have to reboot your computer afterwards to complete the task.

1.4 Activating Acronis True Image OEM for Windows Server

To use Acronis True Image OEM for Windows Server, you need to activate it via the Internet. Without activation the product works for 30 days. If you do not activate it during that period, all the program functions become unavailable except the recovery.

You can activate Acronis True Image OEM for Windows Server either on your computer or from another computer, if your computer is not connected to the Internet.

Activation on a computer connected to the Internet

If your computer is connected to the Internet, the product will be activated automatically.

If the computer where you install Acronis True Image OEM for Windows Server does not have Internet connection or if the program cannot connect to Acronis Activation Server, click **Account** on the sidebar, and then select one of the following actions:

- **Try again** - select this option to try to connect to the Acronis Activation Server again.
- **Activate offline** - you can activate the program manually from another computer that is connected to the Internet (see below).

Activation from another computer

If your computer is not connected to the Internet, you may activate Acronis True Image OEM for Windows Server by using another computer which has connection to the Internet.

To activate the product from another computer:

1. On your computer, install and start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Account**, and then click **Activate offline**.
3. In the Acronis True Image OEM for Windows Server Activation window, perform 3 simple steps:
 1. Save your installation code to a file by clicking the **Save to file** button, and specify a removable media as the file location (for example, a USB flash drive). You may also simply write down this code on a piece of paper.
 2. On another computer which has the Internet connection, go to <http://www.acronis.com/activation/>. The instructions on the screen will help you to get your activation code by using the installation code. Save the obtained activation code to a file on a removable media, or write it down on paper.
 3. On your computer, click the **Load from file** button and specify a path to the file with the activation code; or, simply type it into the box from the piece of paper.
4. Click **Activate**.

"Too many activations" issue

Possible reasons for the issue:

- **You exceed the maximum number of computers with installed Acronis True Image OEM for Windows Server.**

For example, you have a serial number for one computer and you install Acronis True Image OEM for Windows Server on the second computer.

Solutions:

- Enter a new serial number. If you do not have it, you can buy the full product version in the Acronis built-in store.
- Move the license to your new computer from another one on which the product is already activated. To do this, select the computer from which you want to move the license. Note that Acronis True Image OEM for Windows Server will be deactivated on that computer.
- **You reinstall Windows, or change hardware of your computer.**

For example, you might upgrade motherboard or processor in your computer. Activation is lost, because Acronis True Image OEM for Windows Server sees your computer as a new one.

Solution:

To reactivate Acronis True Image OEM for Windows Server on your computer, choose from the list the same computer by its old name.

1.5 Maintenance, technical support and product updates

For any assistance with Acronis True Image OEM for Windows Server and product updates, please refer to official support resources of the vendor.

2 Getting started

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2.1 User interface language

Before you start, select a preferred language for the Acronis True Image OEM for Windows Server user interface. By default, the language is set in accordance with your Windows display language.

To change the user interface language:

1. Start Acronis True Image OEM for Windows Server.
2. In the **Help** section, select a preferred language from the list.

2.2 Protecting your system

To protect your system:

1. Back up your computer (p. 9).
2. Create bootable media (p. 10).

It is recommended to test the rescue media as described in Making sure that your rescue media can be used when needed (p. 60).

2.2.1 Step 1. Backing up your computer

When should I back up my computer?

Create a new backup version after every significant event in your system.

Examples of these events include:

- You bought a new computer.
- You reinstalled Windows on your computer.
- You configured all system settings (for example, time, date, language) and installed all necessary programs on your new computer.
- Important system update.

To ensure you save a healthy state of a disk, it is a good idea to scan it for viruses before backing it up. Please use antivirus software for this purpose. Note this operation often takes a significant amount of time.

How do I create a backup of my computer?

You have two options to protect your system:

- **Entire PC backup (recommended)**

Acronis True Image OEM for Windows Server backs up all your internal hard drives in disk mode. The backup contains the operating system, installed programs, system settings, and all your personal data including your photos, music, and documents. Refer to Backing up all data on your PC (p. 11) for details.

- **System disk backup**

You can choose to back up your system partition or the entire system drive. Refer to Backing up disks and partitions (p. 20) for details.

To back up your computer:

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
If this is your first backup, you will see the backup configuration screen. If you already have some backups in the backup list, then first click **Add backup**, and then click **Create new backup**.
3. Click the **Backup source** icon, and then select **Entire PC**.
If you want to back up your system disk only, then click **Disks and partitions**, and then select your system partition (usually C:) and the System Reserved partition (if any).
4. Click the **Backup destination** icon, and then select a storage place for the backup (see recommendation below).
5. Click **Back up now**.

Result: A new backup box appears in the **My backups** list. To create a new version of the backup in future, select the backup box from the list, and then click **Back up now**.

2.2.2 Step 2. Creating bootable rescue media

What is bootable media?

Bootable media is a product, such as a CD-R/RW or a USB flash drive, from which you can run Acronis True Image OEM for Windows Server when Windows cannot start. You can make a media bootable by using Acronis Media Builder.

How do I create bootable media?

1. Insert a CD-R/RW or plug in a USB flash drive.
2. Start Acronis True Image OEM for Windows Server.
3. On the sidebar, click **Tools**, and then click **Rescue Media Builder**.
4. On the first step, select **Acronis bootable rescue media**.
5. Select the device to use to create the bootable media.
6. Click **Proceed**.

How do I use bootable media?

Use bootable media to recover your computer when Windows cannot start.

1. Connect the bootable media to your computer (insert the CD or plug in the USB drive).
2. Arrange the boot order in BIOS so that your rescue media device (CD or USB drive) is the first device to be booted.
Refer to Arranging boot order in BIOS (p. 50) for details.
3. Boot your computer from the rescue media and select **Acronis True Image OEM for Windows Server**.

Result: Once Acronis True Image OEM for Windows Server is loaded, you can use it to recover your computer.

Refer to Acronis Media Builder for details.

2.3 Backing up all data on your PC

What is an Entire PC backup?

An Entire PC backup is the easiest way to back up the full contents of your computer. We recommend that you choose this option when you are not sure which data that you need to protect. If you want to back up your system partition only, refer to Backing up disks and partitions (p. 20) for details.

When you select Entire PC as a backup type, Acronis True Image OEM for Windows Server backs up all your internal hard drives in disk mode. The backup contains the operating system, installed programs, system settings, and all your personal data including your photos, music, and documents.

The recovery from an Entire PC backup is also simplified. You only need to choose the date to which you want to revert your data. Acronis True Image OEM for Windows Server recovers all data from the backup to the original location. Note that you cannot select specific disks or partitions to recover and you cannot change the default destination. If you need to avoid these limitations, we recommend that you back up your data with an ordinary disk-level backup method. Refer to Backing up disks and partitions (p. 20) for details.

You can also recover specific files and folders from an Entire PC backup. Refer to Backing up files and folders (p. 21) for details.

If an Entire PC backup contains dynamic disks, you recover your data in partition mode. This means that you can select partitions to recover and change recovery destination. Refer to About recovery of dynamic/GPT disks and volumes (p. 47) for details.

How do I create an Entire PC backup?

To back up the entire contents of your computer:

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
3. Click **Add backup**, and then click **Create new backup**.
4. Click the **Backup source** icon, and then select **Entire PC**.
5. Click the **Backup destination** icon, and then select a destination for the backup.
6. [optional step] Click **Options** to set the options for the backup, including Schedule, Scheme (p. 23), and Password protection. For more information see Backup options (p. 22).
7. Click **Back up now**.

2.4 Backing up your files

To protect files such as documents, photos, music files, and video files, there is no need to back up the entire partition containing the files. You can back up specific files and folders and save them to the following storage types:

- **Local or network storage**

This option is fast and easy. Use it to protect rarely changed files.

To back up files and folders:

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
3. Click the **Backup source** icon, and then select **Files and folders**.
4. In the opened window, select the check boxes next to the files and folders that you want to back up, and then click **OK**.
5. Click the **Backup destination** icon, and then select a destination for backup:
 - **Your external drive**—When an external drive is plugged into your computer, you can select it from the list.
 - **Browse**—Select a destination from the folder tree.
6. Click **Back up now**.

Refer to Backing up files and folders (p. 21) for details.

2.5 Recovering your computer

Please be aware that recovery of a system disk is an important operation. Before you start, we recommend that you read the detailed descriptions in the following Help topics:

- Trying to determine the crash cause (p. 36)
- Preparing for recovery (p. 36)
- Recovering your system to the same disk (p. 37)

Let's consider two different cases:

1. Windows works incorrectly, but you can start Acronis True Image OEM for Windows Server.
2. Windows cannot start (for example, you turn on your computer and see something unusual on your screen).

Case 1. How to recover computer if Windows works incorrectly?

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
3. From the backup list, select the backup that contains your system disk.
4. Depending on the backup type, click **Recover PC** or **Recover disks**.
5. In the opened window, select the backup version (the data state from a specific date and time).
6. Select the system partition and the System Reserved partition (if any) to be recovered.
7. Click **Recover now**.

To complete the operation, Acronis True Image OEM for Windows Server must restart your system.

Case 2. How to recover computer if Windows cannot start?

1. Connect Acronis bootable media to your computer, and then run the special standalone version of Acronis True Image OEM for Windows Server.
Refer to Step 2 Creating bootable rescue media (p. 10) and Arranging boot order in BIOS (p. 50) for details.
2. On the Welcome screen, select **My disks** below **Recover**.
3. Select the system disk backup to be used for recovery. Right-click the backup and choose **Recover**.

When the backup is not displayed, click **Browse** and manually specify the path to the backup.

4. At the **Recovery method** step, select **Recover whole disks and partitions**.
5. Select the system partition (usually C) on the **What to recover** screen. Note that you may distinguish the system partition by the Pri, Act flags. Select the System Reserved partition (if any), as well.
6. You may leave all settings of the partitions without changes and click **Finish**.
7. Check the summary of operations, and then click **Proceed**.
8. When the operation finishes, exit the standalone version of Acronis True Image OEM for Windows Server, remove the rescue media (if any), and boot from the recovered system partition. After making sure that you have recovered Windows to the state you need, restore the original boot order.

2.6 Recovering your files and folders

You can recover files and folders both from file-level and disk-level backups.

To recover files and folders:

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
3. From the backup list, select the backup which contains the files or folders that you want to recover.
4. On the right panel, click **Recover files**.
5. Select the backup version (the data state from a specific date and time).
6. Select the files and folders that you want to recover, and then click **Next**.
7. Select a destination on your computer for the recovered files/folders. You can recover data to its original location or choose a new one, if necessary. To choose a new location, click the **Browse** button.
8. To start the recovery process, click the **Recover now** button.

3 Basic concepts

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3.1 Basic concepts

This section provides general information about basic concepts which could be useful for understanding how the program works.

Backup and recovery

Backup refers to the making copies of data so that these additional copies may be used to **recover** the original after a data loss event.

Backups are useful primarily for two purposes. The first is to restore a state following a disaster (called disaster recovery). The second is to recover small numbers of files after they have been accidentally deleted or corrupted.

Acronis True Image OEM for Windows Server does both by creating disk (or partition) images and file-level backups respectively.

Backup version

Backup version is the file or files created during each backup operation. If you do not use consolidation feature, the amount of versions created is always equal to the amount of times the backup is executed or to the amount of stored points in time.

So, a version represents a point in time to which the system or data can be restored from backup. See Full backup (p. 16).

The backup versions are similar to file versions. The file versions concept is familiar to those who use a Windows Vista and Windows 7 feature called "Previous versions of files". This feature allows you to restore a file as it existed on a particular date and time. A backup version allows you to recover your data in a similar way.

This could be useful when trying to find damaged or deleted files. Simply browse through the backup versions in the Acronis Backup Explorer until you find the backup version containing the required files. Additionally, you can recover different saved versions of the found files.

Backup file format

Acronis True Image OEM for Windows Server usually saves backup data in the proprietary tib format using compression. This reduces the amount of needed storage space.

When creating a tib file, the program calculates checksum values for data blocks and adds these values to the data being backed up. These checksum values allow for the verification of data integrity.

The data from tib file backups can be recovered only through Acronis products. This may be done in Windows or in the recovery environment.

Backup validation

The backup validation feature allows you to confirm that your data can be recovered. As mentioned above, the program adds checksum values to the data blocks being backed up. During backup validation, Acronis True Image OEM for Windows Server opens the backup file, recalculates the checksum values and compares those values with the stored ones. If all compared values match, the backup file is not corrupted and there is a high probability that the backup can be successfully used for data recovery.

Disaster recovery

Recovering from a disaster usually requires a rescue media and a backup of the system partition.

Acronis True Image OEM for Windows Server provides for recovery from a disaster caused by system data corruption, viruses, malware, or other causes.

If the operating system fails to boot, Acronis True Image OEM for Windows Server will recover the system partition. You can create a rescue media by using the Media Builder tool.

Factory image

A factory image is a special disk backup that contains the computer's factory configuration. This backup is normally created and provided by the hardware supplier who has delivered the computer.

The factory image of your computer is kept in Acronis Secure Zone and is available in the list of Acronis backups. You can use the factory image to restore the computer to factory settings directly from Windows or using factory bootable media. For details, see Restoring computer to factory settings.

3.2 The difference between file backups and disk/partition images

When you back up files and folders, only the files and folder tree are compressed and stored.

Disk/partition backups are different from file and folder backups. Acronis True Image OEM for Windows Server stores an exact snapshot of the disk or partition. This procedure is called "creating a disk image", or "creating a disk backup" and the resulting backup is often called "a disk/partition image" or "a disk/partition backup".

A disk/partition backup contains all the data stored on the disk or partition:

1. Zero track of the hard disk with the master boot record (MBR) (applicable to MBR disk backups only).
2. One or more partitions, including:
 1. Boot code.
 2. File system meta data, including service files, file allocation table (FAT) and partition boot record.

3. File system data, including operating system (system files, registry, drivers), user data and software applications.
3. System Reserved partition, if any.
4. EFI system partition, if any (applicable to GPT disk backups only).

By default Acronis True Image OEM for Windows Server stores only the hard disk sectors that contain data. Furthermore, Acronis True Image OEM for Windows Server does not back up pagefile.sys under Windows XP and later and hiberfil.sys (a file that keeps RAM contents when the computer goes into hibernation). This reduces image size and speeds up image creation and recovery.

You can change this default method by turning on the sector-by-sector mode. In this case Acronis True Image OEM for Windows Server copies all hard disk sectors, and not only those that contain data.

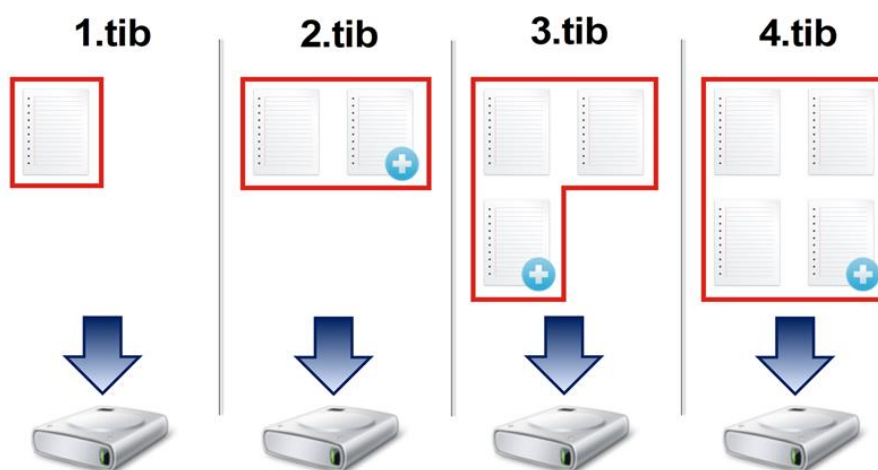
3.3 Full backup

Acronis True Image OEM for Windows Server offers **full backup** method only.

The result of a full method backup operation (also known as full backup version) contains all of the data at the moment of the backup creation.

Example: Every day, you write one page of your document and back it up using the full method. Acronis True Image OEM for Windows Server saves the entire document every time you run backup.

1.tib, 2.tib, 3.tib, 4.tib - full backup versions.



3.4 FAQ about backup and recovery

- **I have a 150GB system partition, but the occupied space on that partition is only 80GB. What will Acronis True Image OEM for Windows Server include in a backup?** - By default, Acronis True Image OEM for Windows Server copies only the hard disk sectors that contain data, so it will include only 80GB in a backup. You can also choose the sector-by-sector mode. Note that such a backup mode is required only in special cases. For more information see Image creation mode (p. 26). While creating a sector-by-sector backup, the program copies both used and unused hard disk sectors and the backup file will usually be significantly larger.
- **Will my system disk backup include drivers, documents, pictures, etc.?** - Yes, such a backup will contain the drivers, as well as the contents of the My documents folder and its subfolders, if you

kept the default location of the My documents folder. If you have just a single hard disk in your PC, such a backup will contain all of the operating system, applications and data.

- **What should I back up: a partition or the whole disk?** - In most cases, it is better to back up the whole disk. However, there may be some cases when a partition backup is advisable. For example, your notebook has a single hard disk with two partitions: system (disk letter C) and the data (disk letter D). The system partition stores your working documents in the My documents folder with subfolders. The data partition stores your videos, pictures, and music files. Such files are already compressed and backing them up using Acronis True Image OEM for Windows Server would not give you significant reduction of the backup file size. In this case, it may be better to use a local sync for the data partition files and a separate backup for the system partition. However, we also recommend creating at least one whole disk backup if your backup storage has enough space.
- **Does Acronis True Image OEM for Windows Server support RAID?** - Acronis True Image OEM for Windows Server supports hardware RAID arrays of all popular types. Support of software RAID configurations on dynamic disks is also provided. Acronis Bootable Rescue Media supports most of the popular hardware RAID controllers. If the standard Acronis rescue media does not "see" the RAID as a single volume, the media does not have the appropriate drivers.

3.5 FTP connection

Acronis True Image OEM for Windows Server allows you to store your backups on FTP servers.

To create a new FTP connection, when selecting a backup storage click **FTP connection**, and in the opened window provide:

- Path to the FTP server, for example: *my.server.com*
- Port
- User name
- Password

To check your settings, click the **Test connection** button. The computer will try to connect to the specified FTP server. If the test connection has been established, click the **Connect** button to add the FTP connection.

The created FTP connection will appear in the folder tree. Select the connection and browse for the backup storage that you want to use.

Please, be aware that the mere opening of an FTP server's root folder does not bring you to your home directory.

Acronis True Image OEM for Windows Server splits a backup into files with a size of 2GB when backing up directly to an FTP server. If you back up to a hard disk with the aim of transferring the backup to an FTP later, split the backup into files of 2GB each by setting the desired file size in the backup options. Otherwise, the recovery will not be possible.

An FTP server must allow passive mode file transfers.

*The firewall settings of the source computer should have Ports 20 and 21 opened for the TPC and UDP protocols to function. The **Routing and Remote Access** Windows service should be disabled.*

3.6 Authentication settings

If you are connecting to a networked computer, in most cases you will need to provide the necessary credentials for accessing the network share. For example, this is possible when you select a backup

storage. The **Authentication Settings** window appears automatically when you select a networked computer name.

If necessary, specify the user name and password, and then click **Test connection**. When the test is successfully passed, click **Connect**.

Troubleshooting

When you create a network share that you plan to use as a backup storage, please ensure that at least one of the following conditions is met:

- Windows account has a password on the computer where the shared folder is located.
- Password-protected sharing is turned off in Windows.
For example, in Windows 7, you can find this setting at **Control Panel** —> **Network and Internet** —> **Network and Sharing Center** —> **Advanced sharing settings** —> Turn off password protected sharing.

Otherwise, you will not be able to connect to the shared folder.

3.7 Backup file naming

A backup file name has the following attributes:

- Backup name.
- Backup method (full).
- Number of backup chain (in the form of b#).
- Number of backup version (in the form of s#).
- Number of volume (in the form of v#).
For example this attribute changes when you split a backup into several files. Refer to Backup splitting (p. 27) for details.

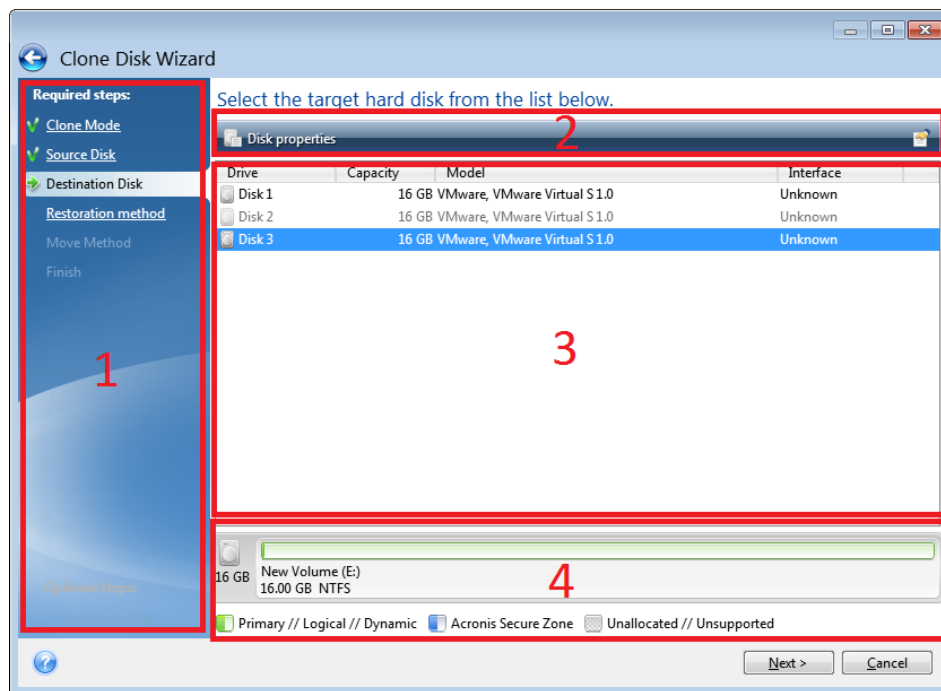
Thus a backup name may look the following way:

1. **my_documents_full_b1_s1_v1.tib**
2. **my_documents_full_b2_s1_v1.tib**

3.8 Wizards

When you use the available Acronis True Image OEM for Windows Server tools and utilities, the program will in many cases employ wizards to guide you through the operations.

For example, see the screen shot below.



A wizard window usually consists of the following areas:

1. This is the list of steps to complete the operation. A green checkmark appears next to a complete step. The green arrow indicates the current step. When complete all the steps, the program displays the Summary screen in the **Finish** step. Check the summary and click **Proceed** to start the operation.
2. This toolbar contains buttons to manage objects you select in area 3.
For example:
 - **Details** - displays the window that provides detailed information about the selected backup.
 - **Properties** - displays the selected item properties window.
 - **Create new partition** - displays the window where you can configure a new partition settings.
 - **Columns** - allows you to choose which table columns to display and in which order.
3. This is the main area where you select items and change settings.
4. This area displays additional information about the item you select in area 3.

4 Backing up data

Acronis True Image OEM for Windows Server includes a wealth of sophisticated backup capabilities that would please even an IT professional. They allow you to back up your disks (partitions) and files. You can choose a backup feature that suits you most or use them all. The sections below describe the backup features in more detail.

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4.1 Backing up disks and partitions

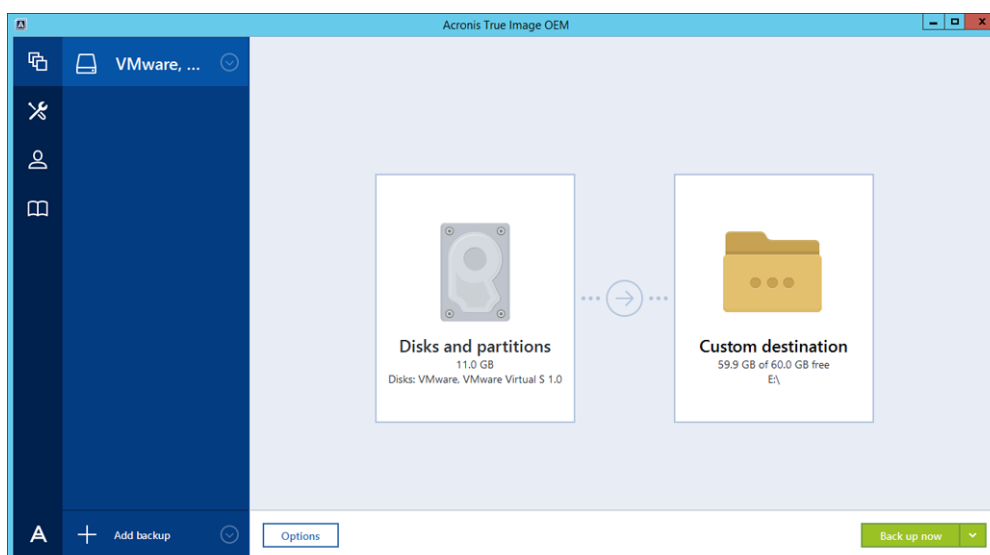
As opposed to file backups, disk and partition backups contain all the data stored on the disk or partition. This backup type is usually used to create an exact copy of a system partition of the whole system disk. Such backup allows you to recover your computer when Windows works incorrectly or cannot start.

To back up partitions or disks:

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
3. Click **Add backup**, and then click **Create new backup**.
4. [Optional] To rename the backup, click the arrow next to the backup name, click **Rename**, and then enter a new name.
5. Click the **Backup source** icon, and then select **Disks and partitions**.
6. In the opened window, select the check boxes next to the partitions and disks that you want to back up, and then click **OK**.

To view hidden partitions, click **Full partition list**.

To back up dynamic disks you can use only the partition mode.



7. Click the **Backup destination** icon, and then select a destination for backup:
 - **Your external drive**—When an external drive is plugged into your computer, you can select it from the list.
 - **Browse**—Select a destination from the folder tree.

If possible, avoid storing your system partition backups on dynamic disks, because the system partition is recovered in the Linux environment. Linux and Windows work with dynamic disks differently. This may result in problems during recovery.

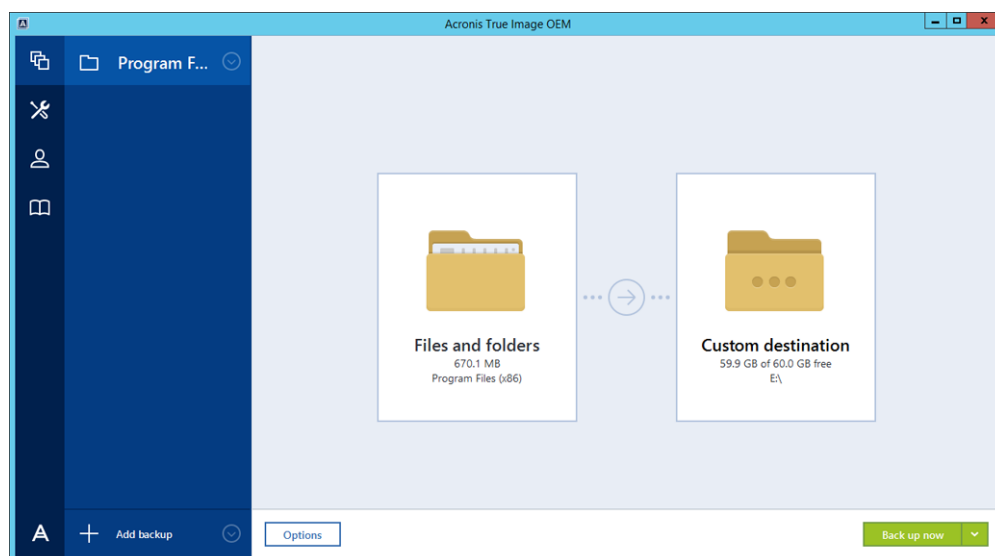
8. [optional step] Click **Options** to set the options for the backup, including Schedule, Scheme (p. 23), and Password protection. For more information see Backup options (p. 22).
9. Perform one of the following:
 - To run the backup immediately, click **Back up now**.
 - To run the backup later or on a schedule, click the arrow to the right of the **Back up now** button, and then click **Later**.

4.2 Backing up files and folders

To protect files such as documents, photos, music files, video files, there is no need to back up the entire partition containing the files. You can back up specific files and folders.

To back up files and folders:

1. Start Acronis True Image OEM for Windows Server.
2. On the sidebar, click **Backup**.
3. Click **Add backup**, and then click **Create new backup**.
4. [Optional] To rename the backup, click the arrow next to the backup name, click **Rename**, and then enter a new name.
5. Click the **Backup source** icon, and then select **Files and folders**.
6. In the opened window, select the check boxes next to the files and folders that you want to back up, and then click **OK**.



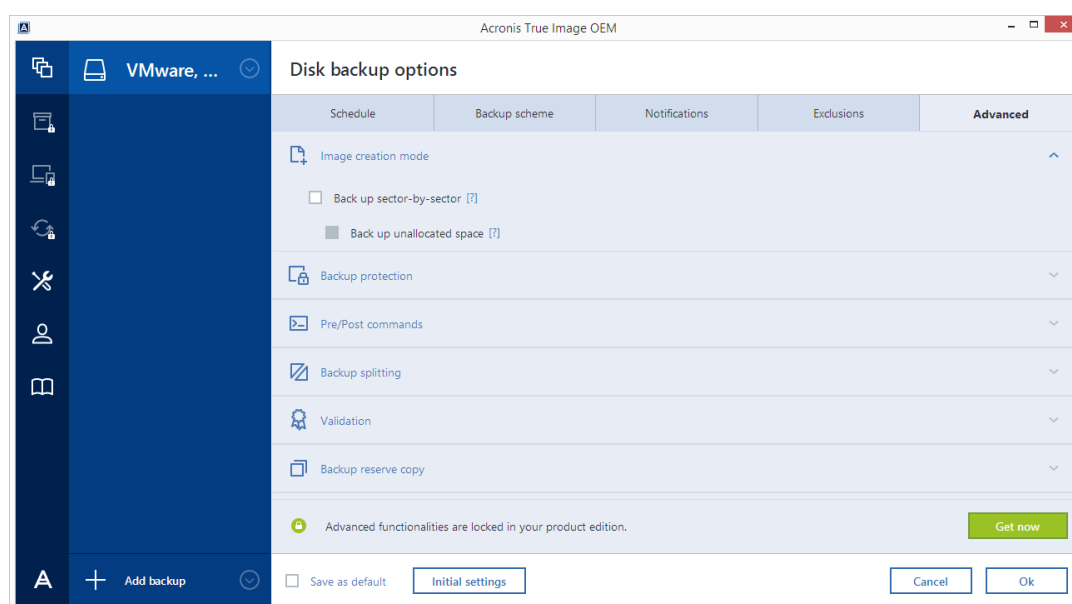
7. Click the **Backup destination** icon, and then select a destination for backup:
 - **Your external drive**—When an external drive is plugged into your computer, you can select it from the list.

- **Browse**—Select a destination from the folder tree.
8. [optional step] Click **Options** to set the options for the backup, including Schedule, Scheme (p. 23), and Password protection. For more information see Backup options (p. 22).
 9. Perform one of the following:
 - To run the backup immediately, click **Back up now**.
 - To run the backup later or on a schedule, click the down arrow to the right of the **Back up now** button, and then click **Later**.

4.3 Backup options

In the **Disk Backup Options** and **File Backup Options** windows you can configure options for a disk/partition and file backup processes respectively. To open the options window, click the appropriate link.

After you have installed the application, all options are set to the initial values. You can change them for your current backup operation only or for all backups that will be created in future. Select the **Save the settings as default** check box to apply the modified settings to all further backup operations by default.



Note that options of each backup type are fully independent, and you should configure them separately.

If you want to reset all the modified options to the values that were set after the product installation initially, click the **Reset to initial settings** button.

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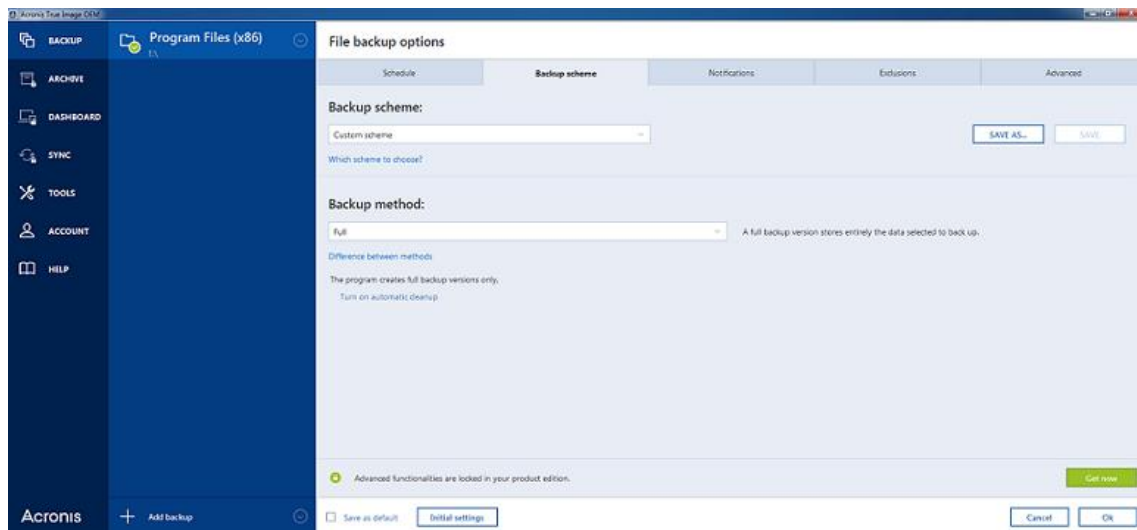
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4.3.1 Backup schemes

Backup schemes along with the scheduler help you to set up your backup strategy. The schemes allow you to optimize backup storage space usage, improve data storage reliability, and automatically delete the obsolete backup versions.

Backup scheme defines the following parameters:

- Backup methods that will be used to create backup versions
- Sequence of the backup versions created using different methods
- Version cleanup rules



Acronis True Image OEM for Windows Server allows you to choose the following backup schemes:

- **Single version** (p. 23) - select this scheme if you want to use the smallest backup storage.
- **Custom** (p. 23) - select this item if you want to set up a backup scheme manually.

4.3.1.1 Single version scheme

The program creates a full backup version and overwrites it every time when you run backup manually.

Result: you have a single up-to-date full backup version.

Required storage space: minimal.

4.3.1.2 Custom schemes

With Acronis True Image OEM for Windows Server you also can create your own backup schemes. Schemes can be based on the pre-defined backup schemes. You can make changes in a selected pre-defined scheme to suit your needs and then save the changed scheme as a new one.

You cannot overwrite existing pre-defined backup schemes.

So first of all select one of the backup methods in the appropriate box.

- **Full (p. 16)**
Select this method if you want to create only full backup versions.

Automatic cleanup rules

To delete obsolete backup versions automatically, you can set one of the following cleanup rules:

- **Delete versions older than [defined period]** (available for full method only) - Select this option to limit the age of backup versions. All versions that are older than the specified period will be automatically deleted.
- **Store no more than [n] recent versions** (available for full method only) - Select this option to limit the maximum number of backup versions. When the number of versions exceeds the specified value, the oldest backup version will be automatically deleted.
- **Keep size of the backup no more than [defined size]** - Select this option to limit maximum size of the backup. After creating a new backup version, the program checks whether the total backup size exceeds the specified value. If it's true, the oldest backup version will be deleted.

The first backup version option

Often the first version of any backup is one of the most valuable versions. This is true because it stores the initial data state (for example, your system partition with recently installed Windows) or some other stable data state (for example, data after a successful virus check).

Do not delete the first version of the backup - Select this check box to keep the initial data state. The program will create two initial full backup versions. The first version will be excluded from the automatic cleanup, and will be stored until you delete it manually.

Note that when the check box is selected, the **Store no more than [n] recent versions** check box will change to **Store no more than 1+[n] recent versions**.

Managing custom backup schemes

If you change anything in an existing backup scheme, you can save the changed scheme as a new one. In this case you need to specify a new name for that backup scheme.

- You can overwrite existing custom schemes.
- You cannot overwrite existing pre-defined backup schemes.
- In a scheme name, you can use any symbols allowed by OS for naming files. The maximum length of a backup scheme name is 255 symbols.
- You can create not more than 16 custom backup schemes.

After creating a custom backup scheme, you can use it as any other existing backup scheme while configuring a backup.

You can also use a custom backup scheme without saving it. In this case, it will be available only for the backup where it was created and you will be unable to use it for other backups.

If you do not need a custom backup scheme anymore, you can delete it. To delete the scheme, select it in the backup schemes list, click **Delete**, and then click **Delete scheme** in the confirmation window.

The pre-defined backup schemes cannot be deleted.

4.3.2 Notifications for backup operation

Sometimes a backup or recovery procedure can last an hour or longer. Acronis True Image OEM for Windows Server can notify you when it is finished via email. The program can also duplicate messages issued during the operation or send you the full operation log after operation completion.

By default all notifications are disabled.

Free disk space threshold

You may want to be notified when the free space on the backup storage becomes less than the specified threshold value. If after starting a backup Acronis True Image OEM for Windows Server finds out that the free space in the selected backup location is already less than the specified value, the program will not begin the actual backup process and will immediately inform you by displaying an appropriate message. The message offers you three choices - to ignore it and proceed with the backup, to browse for another location for the backup or to cancel the backup.

If the free space becomes less than the specified value while the backup is being run, the program will display the same message and you will have to make the same decisions.

To set the free disk space threshold:

- Select the **Show notification message on insufficient free disk space** check box
- In the **Size** box, type or select a threshold value and select a unit of measure

Acronis True Image OEM for Windows Server can monitor free space on the following storage devices:

- Local hard drives
- USB cards and drives
- Network shares (SMB/NFS)

*The message will not be displayed if the **Do not show messages and dialogs while processing (silent mode)** check box is selected in the **Error handling** settings.*

This option cannot be enabled for FTP servers and CD/DVD drives.

Email notification

You can specify an email account that will be used to send you email notifications.

To configure the email notifications:

1. Select the **Send e-mail notifications about the operation state** check box.
2. Configure email settings:
 - Enter the email address in the **To** field. You can enter several email addresses in a semicolon-delimited format.
 - Enter the outgoing mail server (SMTP) in the **Outgoing mail server (SMTP)** field.
 - Set the port of the outgoing mail server. By default the port is set to 25.
 - If required, select the **SMTP authentication** check box, and then enter the user name and password in the corresponding fields.
3. To check whether your settings are correct, click the **Send test message** button.

If the test message sending fails, then perform the following:

1. Click **Show extended settings**.

2. Configure additional email settings:
 - Enter the e-mail sender address in the **From** field. If you are not sure what address to specify, then type any address you like in a standard format, for example *aaa@bbb.com*.
 - Change the message subject in the **Subject** field, if necessary.
 - Select the **Log on to incoming mail server** check box.
 - Enter the incoming mail server (POP3) in the **POP3 server** field.
 - Set the port of the incoming mail server. By default the port is set to 110.
3. Click the **Send test message** button again.

Additional notification settings:

- To send a notification concerning process completion, select the **Send notification upon operation's successful completion** check box.
- To send a notification concerning process failure, select the **Send notification upon operation failure** check box.
- To send a notification with operation messages, select the **Send notification when user interaction is required** check box.
- To send a notification with full log of operations, select the **Add full log to the notification** check box.

4.3.3 Image creation mode

You can use these parameters to create an exact copy of your whole partitions or hard disks, and not only the sectors that contain data. For example, this can be useful when you want to back up a partition or disk containing an operating system that is not supported by Acronis True Image OEM for Windows Server. Please note that this mode increases processing time and usually results in a larger image file.

- To create a sector-by-sector image, select the **Back up sector-by-sector** check box.
- To include all unallocated disk space into the backup, select the **Back up unallocated space** check box.

This check box is available only when the **Back up sector-by-sector** check box is selected.

4.3.4 Pre/Post commands for backup

You can specify commands (or even batch files) that will be automatically executed before and after the backup procedure.

For example, you may want to start/stop certain Windows processes, or check your data before starting backup.

To specify commands (batch files):

- Select a command to be executed before the backup process starts in the **Pre-command** field. To create a new command or select a new batch file, click the **Edit** button.
- Select a command to be executed after the backup process ends in the **Post-command** field. To create a new command or select a new batch file, click the **Edit** button.

Please do not try to execute interactive commands, i.e. commands that require user input (for example, "pause"). These are not supported.

4.3.4.1 Edit user command for backup

You can specify user commands to be executed before or after the backup procedure:

- In the **Command** field, type-in a command or select it from the list. Click ... to select a batch file.
- In the **Working directory** field, type-in a path for command execution or select it from the list of previously entered paths.
- In the **Arguments** field enter or select command execution arguments from the list.

Disabling the **Do not perform operations until the command's execution is complete** parameter (enabled for Pre commands by default), will permit the backup process to run concurrently with your command execution.

The **Abort the operation if the user command fails** (enabled by default) parameter will abort the operation if any errors occur in command execution.

You can test a command you entered by clicking the **Test command** button.

4.3.5 Backup splitting

Acronis True Image OEM for Windows Server cannot split already existing backups. Backups can be split only when being created.

Large backups can be split into several files that together make up the original backup. A backup can also be split for burning to removable media.

The default setting - **Automatic**. With this setting, Acronis True Image OEM for Windows Server will act as follows.

When backing up to a hard disk:

- If the selected disk has enough space and its file system allows the estimated file size, the program will create a single backup file.
- If the storage disk has enough space, but its file system does not allow the estimated file size, the program will automatically split the image into several files.
- If you do not have enough space to store the image on your hard disk, the program will warn you and wait for your decision as to how you plan to fix the problem. You can try to free some additional space and continue or select another disk.

When backing up to a CD-R/RW, DVD-R/RW, DVD+R/RW, BD-R/RE:

- Acronis True Image OEM for Windows Server will ask you to insert a new disk when the previous one is full.

Alternatively, you may select the desired file size from the drop-down list. The backup will then be split into multiple files of the specified size. This is useful when you store a backup to a hard disk in order to burn the backup to CD-R/RW, DVD-R/RW, DVD+R/RW or BD-R/RE later on.

Creating images directly on CD-R/RW, DVD-R/RW, DVD+R/RW, BD-R/RE might take considerably more time than it would on a hard disk.

4.3.6 Backup validation option

You can specify the additional validation setting: **Validate backup when it is created**.

When this option is enabled, the program will check the integrity of the recently created or supplemented backup version immediately after backup. When setting up a backup of critical data or a disk/partition backup, we strongly recommend that you enable this option in order to ensure that the backup can be used to recover the lost data.

4.3.7 Backup reserve copy

You can create reserve copies of your backups and save them on the file system or a network drive.

To make a reserve copy:

- Select the **Create a reserve copy of my backups** check box
- Click **Set location...** and specify a location for the backup copies

All backup options (such as backup compression, backup splitting, etc.) will be inherited from the source backup.

A reserve copy always contains all the data selected for backup, that is, when creating a reserve copy the program always makes a full backup of the source data.

Also remember that you will pay for the enhanced convenience and increased security of your data by the time required for performing the backup because normal backup and reserve copying are performed one at a time and not simultaneously.

4.3.8 Removable media settings

When backing up to removable media, you can make this media bootable by writing additional components to it. Thus, you will not need a separate bootable disk.

Acronis True Image OEM for Windows Server does not support creating bootable media if a flash drive is formatted in NTFS or exFAT. The drive must have a FAT16 or FAT32 file system.

The following settings are available:

- **Place Acronis True Image OEM for Windows Server on media**
Acronis True Image OEM for Windows Server - includes support of USB, PC Card (formerly PCMCIA) and SCSI interfaces along with the storage devices connected via them, and therefore is strongly recommended.
- **Place Acronis System Report on media**
Acronis System Report - the component allows you to generate system report that is used for collecting information about your system in case of any program problem. Report generation will be available before you start Acronis True Image OEM for Windows Server from the bootable media. The generated system report can be saved to a USB flash drive.
- **Ask for first media while creating backups on removable media**
You can choose whether to display the Insert First Media prompt when backing up to removable media. With the default setting, backing up to removable media may not be possible if the user is away, because the program will wait for someone to press OK in the prompt box. Therefore, you should disable the prompt when scheduling a backup to removable media. Then, if the removable media is available (for example, CD-R/RW inserted) the backup can run unattended.

If you have other Acronis products installed on your computer, the bootable versions of these programs' components will be offered as well.

4.3.9 Backup comment

This option allows you to add comments to the backup. Backup comments may help you to find the necessary backup later, when recovering data by using bootable media.

If a backup does not have comments, type your comment in the comments area. When a comment already exists, you can edit it after clicking **Edit**.

4.3.10 Error handling

When the program encountered an error while performing backup, it stops the backup process and displays a message, waiting for a response on how to handle the error. If you set an error handling policy, the program will not stop the backup process, but will simply handle the error according to the set rules and continue working.

You can set the following error handling policy:

- **Do not show messages and dialogs while processing (silent mode)** - Enable this setting to ignore errors during backup operations. This is useful when you cannot control the backup process. You can view the detailed log of all operations after the backup process finishes.
- **Ignore bad sectors** - This option is available only for disk and partition backups. It lets you successfully complete a backup even if there are bad sectors on the hard disk.

We recommend that you select this check box when your hard drive is failing, for example:

- Hard drive is making clicking or grinding noises during operation.
- The S.M.A.R.T. system has detected hard drive issues and recommends that you back up the drive as soon as possible.

When you leave this check box cleared, the backup may fail because of possible bad sectors on the drive.

- **Repeat attempt if a backup fails** - This option allows you to automatically repeat a backup attempt if the backup fails for some reason. You can specify number of attempts and time interval between attempts. Note that if the error interrupting the backup persists, then the backup will not be created.

This option is not available, when you back up your data to a USB flash drive or USB hard drive.

4.3.11 File-level security settings for backup

You can specify security settings for backed up files (these settings relate only to file/folder backups):

- **Preserve file security settings in backups** - selecting this option will preserve all the security properties (permissions assigned to groups or users) of the backup files for further recovery. By default, files and folders are saved in the backup with their original Windows security settings (i.e. permissions for read, write, execute and so on for each user or user group, set in file **Properties** -> **Security**). If you recover a secured file/folder on a computer without the user specified in the permissions, you may not be able to read or modify this file. To eliminate this kind of problem, you can disable preserving file security settings in backups. Then the recovered files/folders will always inherit the permissions from the folder to which they are recovered (parent folder or disk, if recovered to the root). Or, you can disable file security settings during recovery, even if they are available in the backup. The result will be the same.

- **In backups, store encrypted files in a decrypted state** (the preset is disabled) - check the option if there are encrypted files in the backup and you want them to be accessed by any user after recovery. Otherwise, only the user who encrypted the files/folders will be able to read them. Decryption may also be useful if you are going to recover encrypted files on another computer. If you do not use the encryption feature available in Windows XP and later operating systems, simply ignore this option. (Files/folders encryption is set in **Properties** -> **General** -> **Advanced Attributes** -> **Encrypt contents to secure data**).

These options relate only to file/folder backups.

4.3.12 Computer shutdown

If you know that the backup process you are configuring may take a long time, you may select the **Shut down the computer after the backup is complete** check box. In this case, you will not have to wait until the operation completion. The program will perform the backup and turn off your computer automatically.

This option is also useful when you schedule your backups. For example, you may want to perform backups every weekday in the evening to save all your work. Schedule the backup and select the check box. After that you may leave your computer when you finish your work knowing that the critical data will be backed up and the computer will be turned off.

4.3.13 Performance of backup operation

On the **Performance** tab you can configure the following settings:

Compression level

You can choose the compression level for a backup:

- **None** - the data will be copied without any compression, which may significantly increase the backup file size.
- **Normal** - the recommended data compression level (set by default).
- **High** - higher backup file compression level, takes more time to create a backup.
- **Maximum** - maximum backup compression, but takes a long time to create a backup.

The optimal data compression level depends on the type of files stored in the backup. For example, even maximum compression will not significantly reduce the backup size, if the backup contains essentially compressed files, like .jpg, .pdf or .mp3.

Operation priority

Changing the priority of a backup or recovery process can make it run faster or slower (depending on whether you raise or lower the priority), but it can also adversely affect the performance of other running programs. The priority of any process running in a system, determines the amount of CPU usage and system resources allocated to that process. Decreasing the operation priority will free more resources for other CPU tasks. Increasing backup or recovery priority may speed up the process by taking resources from the other currently running processes. The effect will depend on total CPU usage and other factors.

You can set up the operation priority:

- **Low** (enabled by default) - the backup or recovery process will run slower, but the performance of other programs will be increased.

- **Normal** - the backup or recovery process will have the equal priority with other processes.
- **High** - the backup or recovery process will run faster, but the performance of other programs will be reduced. Be aware that selecting this option may result in 100% CPU usage by Acronis True Image OEM for Windows Server.

Network connection speed limit

When you back up data to network drives or FTP, you can reduce the influence of connection used by Acronis True Image OEM for Windows Server on other network connections of your computer. Set the connection speed that will allow you to use Internet and network resources without annoying slowdowns.

To reduce connection speed:

- Select the **Limit transfer rate to** check box and specify an optimal value and an appropriate measurement unit (kilobits or megabits per second).

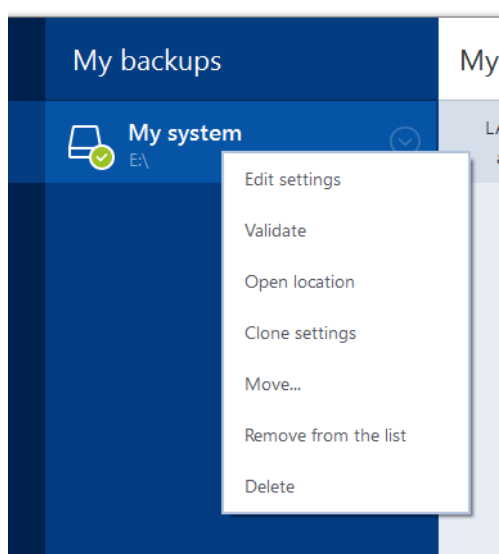
4.4 Operations with backups

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4.4.1 Backup operations menu

The backup operations menu provides quick access to additional operations that can be performed with the selected backup.



The backup operations menu can contain the following items:

- **Edit settings** - allows editing of the current backup settings.
- **Reconfigure** (for backups manually added to the backup list) - allows configuring the settings of a backup created by a previous Acronis True Image OEM for Windows Server version. This item

may also appear for backups created on another computer and added to the backup list without importing their settings.

Without backup settings, you cannot refresh the backup by clicking **Back up now**. Also, you cannot edit and clone the backup settings.

- **Reconfigure** (for online backups) - allows you to bind a selected online backup to the current computer. To do this, click this item and reconfigure settings of the backup. Note that only one online backup can be active on one computer.
- **Validate** - starts backup validation.
- **Open location** - opens the folder containing the backup files.
- **Clone settings** - Creates a new empty backup box with the settings of the initial backup and named **(1) [the initial backup name]**. Change the settings, save them, and then click **Back up now** on the cloned backup box.
- **Move** - click to move all the backup files to another location. The subsequent backup versions will be saved to the new location.

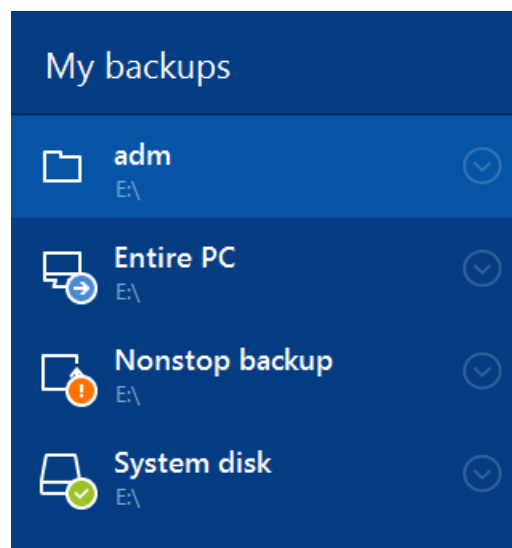
If you change the backup destination by editing the backup settings, only new backup versions will be saved to the new location. The earlier backup versions will remain in the old location.

- **Remove from the list** - removes the current backup from the backup list shown in the My backups area. This operation also turns off the scheduling of the removed backup (if a schedule was set), but it does not delete the backup files.
- **Delete** - depending on a backup type, this command completely deletes the backup from its location or allows you to choose whether you want to delete the backup completely or the backup box only. When you delete a backup box, the backup files remain in the location, and you will be able to add the backup to the list later. Note that when you delete a backup completely, the deletion cannot be undone.

4.4.2 Backup list icons

While working with the backup list you will see special icons. The icons give you the following information:

- Backup type
- Backup current state



Backup type icons



Entire PC backup



Disk-level backup



File-level backup

Backup state icons



The last backup failed.



The backup is in progress.



The last backup was paused by user.



The last backup was stopped by user.

4.4.3 Validating backups

The validation procedure checks whether you will be able to recover data from a backup.

Validating backups in Windows

To validate an entire backup:

1. Start Acronis True Image OEM for Windows Server, and then click **Backup** on the sidebar.
2. From the backup list, select the backup to validate, click **Operations**, and then click **Validate**.

Validating backups in a stand-alone version of Acronis True Image OEM for Windows Server (bootable media)

To validate a specific backup version or an entire backup:

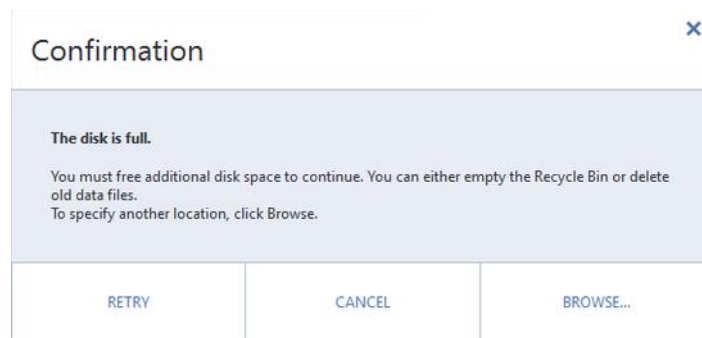
1. On the **Recovery** tab, find the backup that contains the version that you want to validate. If the backup is not listed, click **Browse for backup**, and then specify the path to the backup. Acronis True Image OEM for Windows Server adds this backup to the list.
2. Right-click the backup or a specific version, and then click **Validate Archive**. This opens the **Validate Wizard**.
3. Click **Proceed**.

4.4.4 Backup to various places

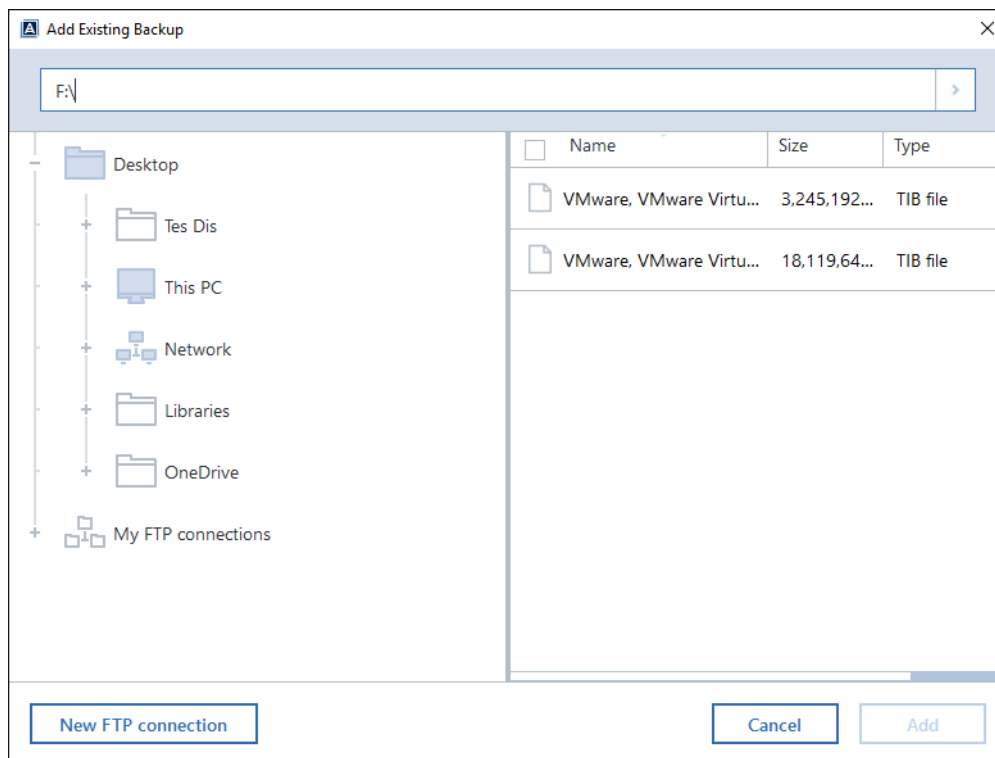
Acronis True Image OEM for Windows Server offers you flexibility in choosing destinations for your backups. You can save full backup versions to different places including a network share, CD/DVD, USB stick, as well as any local internal or external hard drive.

You can save backup versions to different destinations by changing the backup destination when editing the settings of a selected backup. For example, after you save the initial full backup to an external USB hard drive, you can change the backup destination to a USB stick by editing the backup settings.

One more useful aspect of this feature is the ability to split backups "on-the-fly". Suppose you perform a backup to a hard disk and in the middle of the backup process Acronis True Image OEM for Windows Server finds out that the disk to which you are backing up, does not have sufficient free space for completing the backup. The program displays a message warning you that the disk is full.



To complete the backup, you may either try to free up some space on the disk and click **Retry** or select another storage device. To choose the latter option, click **Browse...** in the confirmation window. The **Browse for Destination** window appears.



The left pane shows the storage locations available on your computer. After you select a suitable location, assign a name for the file that will contain the remaining data being backed up. You can enter the name manually (for example, "tail_end.tib") or use the file name generator (a button to the right of the line). Then click **OK** and Acronis True Image OEM for Windows Server will complete the backup.

If backup versions belonging to the same backup "chain" have been saved to different destinations, Acronis True Image OEM for Windows Server may prompt you for the locations of previous backup versions during data recovery. This may occur when the selected backup version does not contain the files you want to recover (or contains only a part of them). This may also happen when you recover a backup that was split on-the-fly.

4.4.5 Adding an existing backup to the list

You may have Acronis True Image OEM for Windows Server backups created by a previous product version or copied from another computer. Every time you start Acronis True Image OEM for Windows Server, it scans your computer for such backups and adds them to the backup list automatically.

If you have backups that are not shown in the list, you can add them manually.

To add backups manually:

1. In the **Backup** section, click **Add backup**, and then click **Add existing backup**. Program opens a window where you can browse for backups on your computer.
2. Select a backup version (a .tib file), and then click **Add**.

The entire backup will be added to the list.

4.4.6 Deleting backups and backup versions

You may want to delete backups and backup versions you no longer need. Acronis True Image OEM for Windows Server stores information on the backups in a metadata information database.

Therefore, deleting unneeded backup files in Windows Explorer will not delete information about these backups from the database, and Acronis True Image OEM for Windows Server will consider that they still exist.

This will result in errors when the program tries to perform operations on the backups that no longer exist. So you must only remove obsolete backups and backup versions by using the tools provided by Acronis True Image OEM for Windows Server.

To delete an entire backup:

Find the corresponding backup box on the **Backup and recovery** tab of Acronis True Image OEM for Windows Server. Click the gear icon to open the Operations menu and then click **Delete**.

When you delete an entire backup, all its versions will be deleted as well.

To delete a specific backup version:

1. On the **Backup and recovery** tab, find the corresponding backup box, click **Explore and recover**.
2. In Backup explorer, right-click on the time line the version you want to delete, and then click **Delete version**.

5 Recovering data

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5.1 Recovering disks and partitions

In this section

Recovering your system after a crash	36
Recovering partitions and disks	44
About recovery of dynamic/GPT disks and volumes	47
Arranging boot order in BIOS	50

5.1.1 Recovering your system after a crash

When your computer fails to boot, it is advisable to at first try to find the cause using the suggestions given in Trying to determine the crash cause (p. 36). If the crash is caused by corruption of the operating system, use a backup to recover your system. Make the preparations described in Preparing for recovery (p. 36) and then proceed with recovering your system.

5.1.1.1 Trying to determine the crash cause

A system crash can be due to two basic factors:

- **Hardware failure**

In this scenario, it is better to let your service center handle the repairs. However, you may want to perform some routine tests. Check the cables, connectors, power of external devices, etc. Then, restart the computer. If there is a hardware problem, the Power-On Self Test (POST) will inform you about the failure.

If the POST does not reveal a hardware failure, enter BIOS and check whether it recognizes your system hard disk drive. To enter BIOS, press the required key combination (**Del**, **F1**, **Ctrl+Alt+Esc**, **Ctrl+Esc**, or some other, depending on your BIOS) during the POST sequence. Usually the message with the required key combination is displayed during the startup test. Pressing this combination takes you to the setup menu. Go to the hard disk autodetection utility which usually comes under "Standard CMOS Setup" or "Advanced CMOS setup". If the utility does not detect the system drive, it has failed and you need to replace the drive.

- **Operating system corruption (Windows cannot start up)**

If the POST correctly detects your system hard disk drive, then the cause of the crash is probably a virus, malware or corruption of a system file required for booting. In this case, recover the system using a backup of your system disk or system partition. Refer to Recovering your system (p. 37) for details.

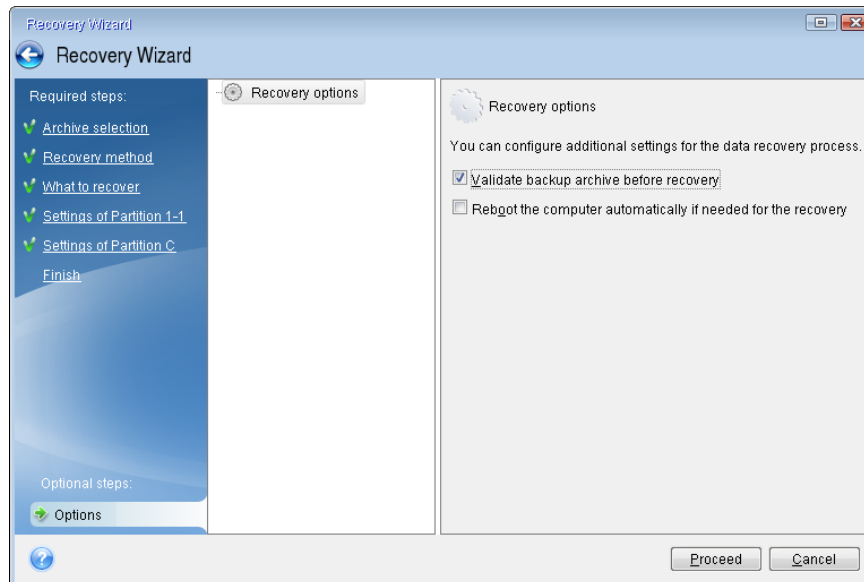
5.1.1.2 Preparing for recovery

We recommend that you perform the following actions before recovery:

- Scan the computer for viruses if you suspect that the crash occurred due to a virus or malware attack.
- Under bootable media, try a test recovery to a spare hard drive, if you have one.
- Validate the image under bootable media. A backup that can be read during validation in Windows, **may not always be readable in a Linux environment**.

Under bootable media, there are two ways to validate a backup:

- To validate a backup manually, on the **Recovery** tab, right-click a backup and select **Validate Archive**.
- To validate a backup automatically before recovery, on the **Options** step of the **Recovery Wizard**, select the **Validate backup archive before recovery** check box.



- Assign unique names (labels) to all partitions on your hard drives. This will make finding the disk containing your backups easier.

When you use the Acronis True Image OEM for Windows Server rescue media, it creates disk drive letters that might differ from the way Windows identifies drives. For example, the D: disk identified in the standalone Acronis True Image OEM for Windows Server might correspond to the E: disk in Windows.

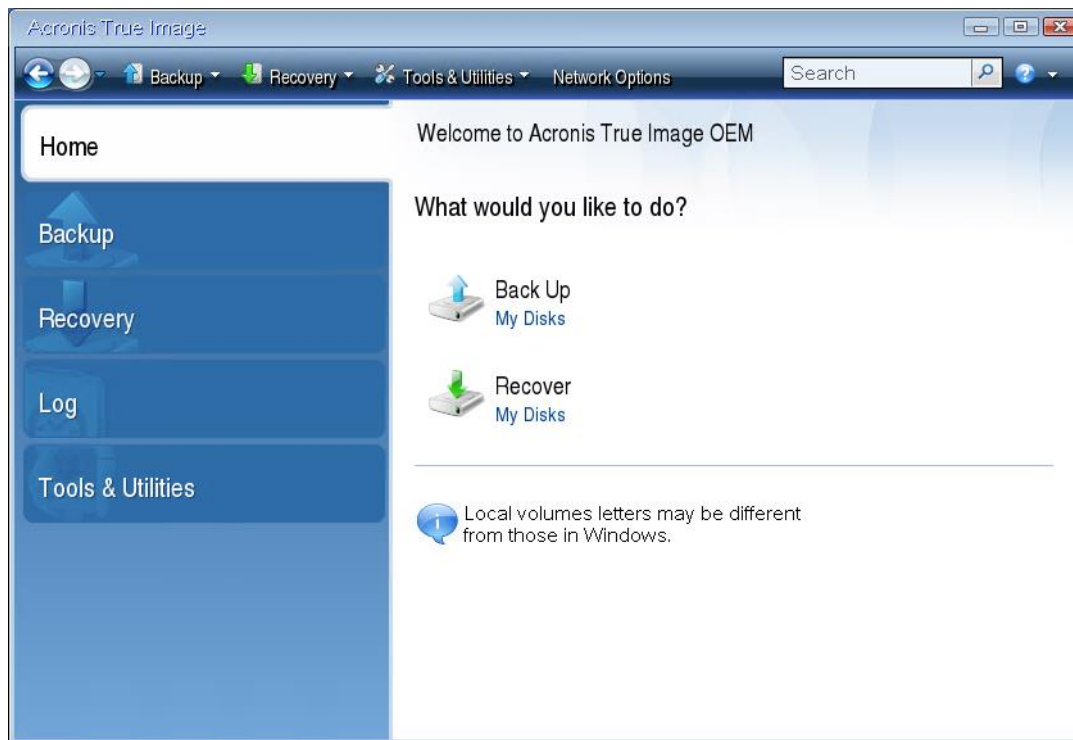
5.1.1.3 Recovering your system to the same disk

Before you start, we recommend that you complete the procedures described in Preparing for recovery (p. 36).

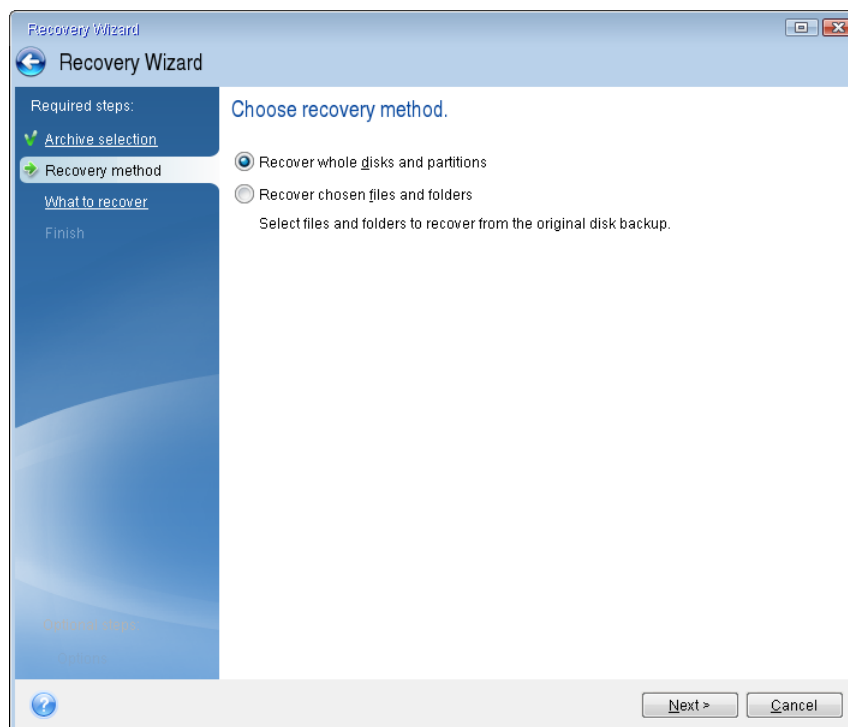
To recover your system:

1. Attach the external drive if it contains the backup to be used for recovery and make sure that the drive is powered on.
2. Arrange the boot order in BIOS so as to make your rescue media device (CD, DVD or USB stick) the first boot device. See Arranging boot order in BIOS (p. 50).
3. Boot from the rescue media and select **Acronis True Image OEM for Windows Server**.

4. On the **Home** screen, select **My disks** below **Recover**.

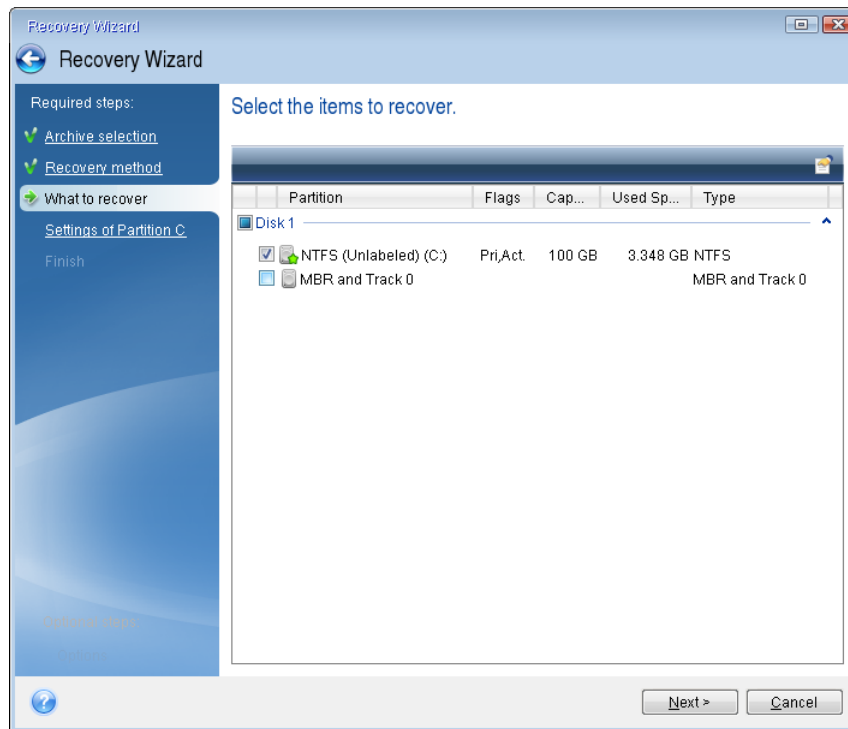


5. Select the system disk or partition backup to be used for recovery.
When the backup is not displayed, click **Browse** and specify path to the backup manually.
6. Select **Recover whole disks and partitions** at the **Recovery method** step.

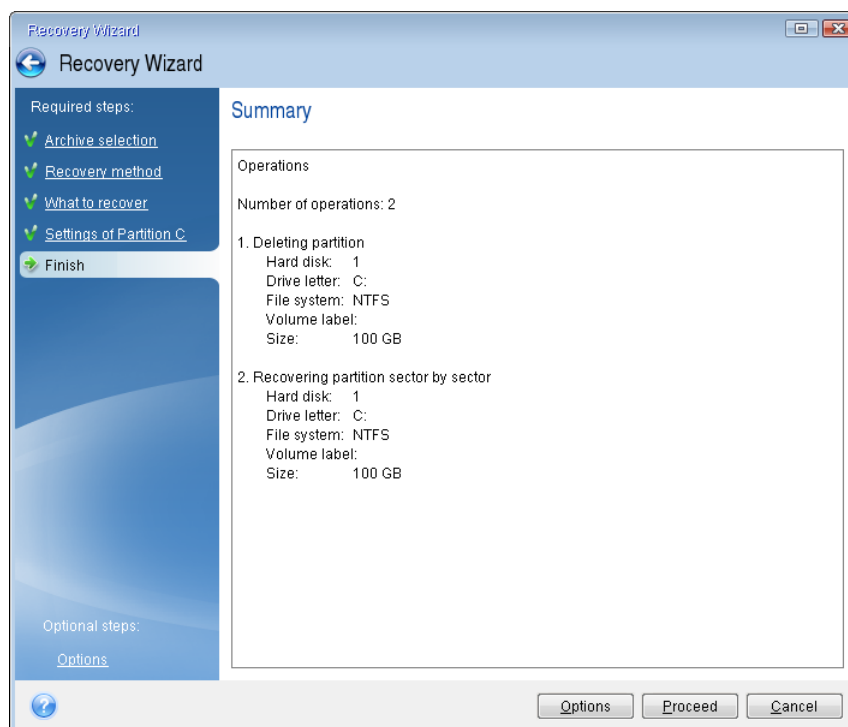


7. Select the system partition (usually C) on the **What to recover** screen. If the system partition has a different letter, select the partition using the **Flags** column. It must have the **Pri**, **Act** flags.

*In case of Windows 7 the System Reserved partition will have the **Pri, Act** flags. You will need to select for recovery both the System Reserved partition and the System partition.*



8. At the "Settings of partition C" (or the letter of the system partition, if it is different) step check the default settings and click **Next** if they are correct. Otherwise, change the settings as required before clicking **Next**. Changing the settings will be needed when recovering to the new hard disk of a different capacity.
9. Carefully read the summary of operations at the **Finish** step. If you have not resized the partition, the sizes in the **Deleting partition** and **Recovering partition** items must match. Having checked the summary click **Proceed**.



10. When the operation finishes, exit the standalone version of Acronis True Image OEM for Windows Server, remove the rescue media and boot from the recovered system partition. After making sure that you have recovered Windows to the state you need, restore the original boot order.

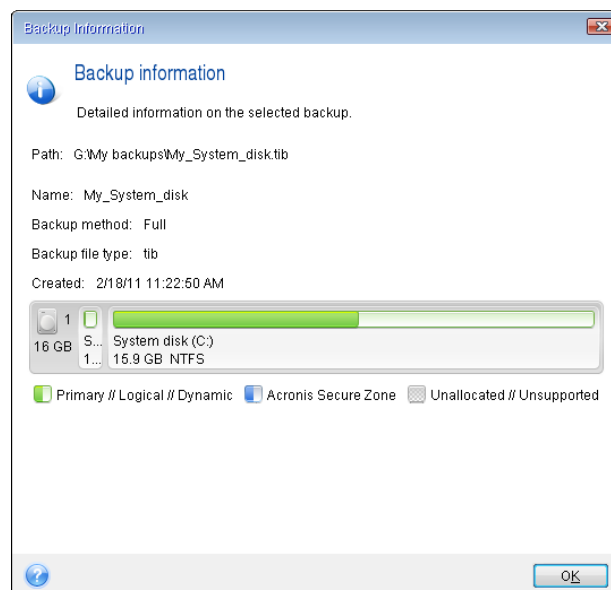
5.1.1.4 Recovering your system to a new disk under bootable media

Before you start, we recommend that you complete the preparations described in Preparing for recovery (p. 36). You do not need to format the new disk, as this will be done in the process of recovery.

Warning! Your old and new hard drives must work in the same controller mode (for example, IDE or AHCI). Otherwise, your computer will not start from the new hard drive.

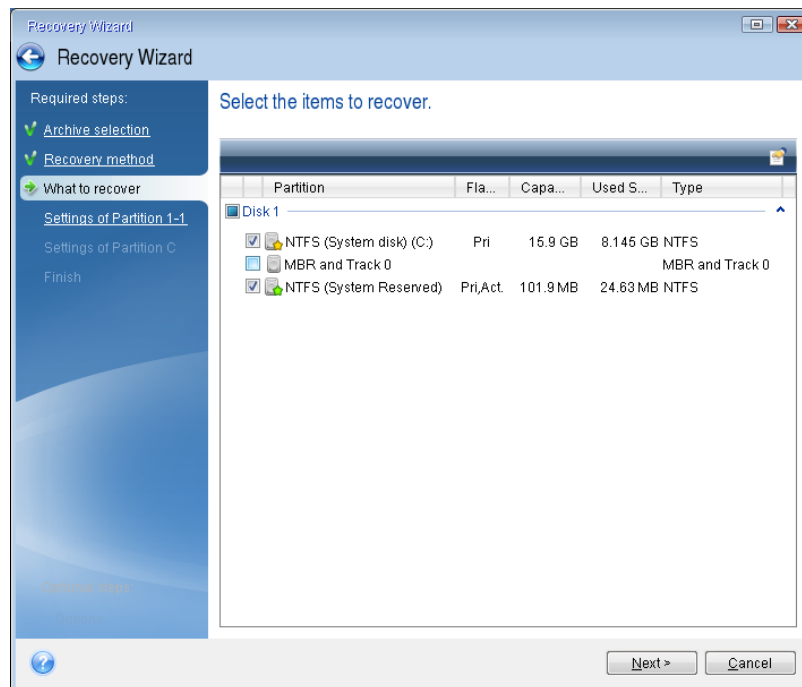
To recover your system to a new disk:

1. Install the new hard drive to the same position in the computer and use the same cable and connector that was used for the original drive. If this is not possible, install the new drive to where it will be used.
2. Attach the external drive if it contains the backup to be used for recovery and make sure that the drive is powered on.
3. Arrange the boot order in BIOS so as to make your rescue media device (CD, DVD or USB stick) the first boot device. See Arranging boot order in BIOS (p. 50).
4. Boot from the rescue media and select **Acronis True Image OEM for Windows Server**.
5. On the **Home** screen, select **My disks** below **Recover**.
6. Select the system disk or partition backup to be used for recovery. When the backup is not displayed, click **Browse** and specify path to the backup manually.
7. If you have a hidden partition (for example, the System Reserved partition or a partition created by the PC manufacturer), click **Details** on the wizard's toolbar. Please remember the location and size of the hidden partition, because these parameters need to be the same on your new disk.



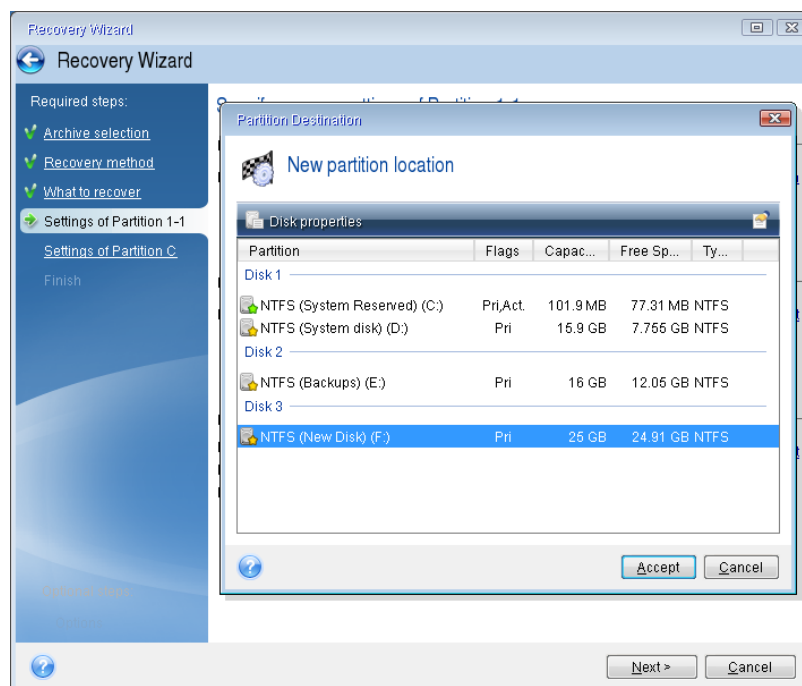
8. Select **Recover whole disks and partitions** at the **Recovery method** step.

9. On the **What to recover** step, select the boxes of the partitions to be recovered. Do not select the **MBR and Track 0** box.

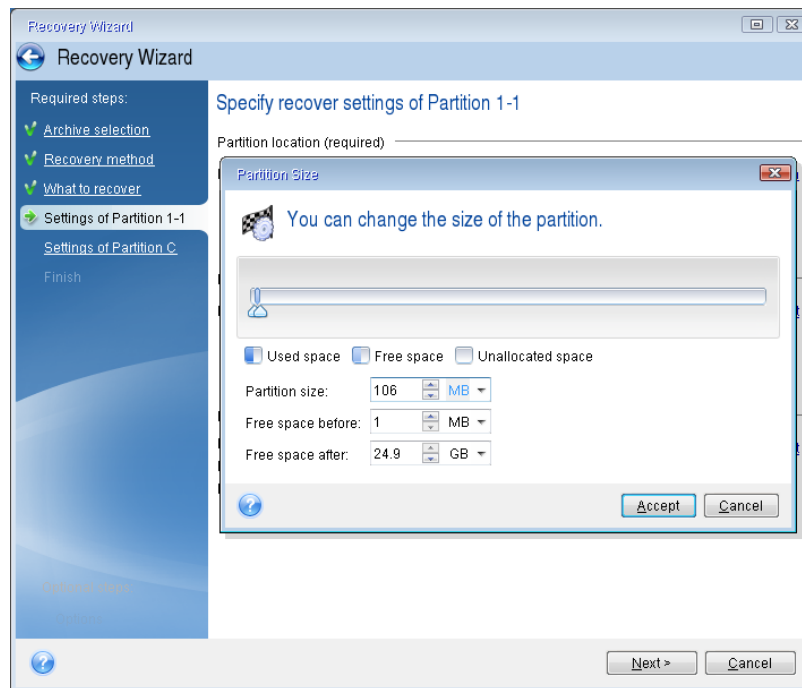


Selecting partitions leads to appearance of the relevant steps "Settings of partition ...". Note that these steps start with partitions which do not have an assigned disk letter (as usually is the case with hidden partitions). The partitions then take an ascending order of partition disk letters. This order cannot be changed. The order may differ from the physical order of the partitions on the hard disk.

10. On the Settings of the hidden partition step (usually named Settings of Partition 1-1), specify the following settings:
 - **Location.** Click **New location**, select your new disk by either its assigned name or capacity, and then click **Accept**.

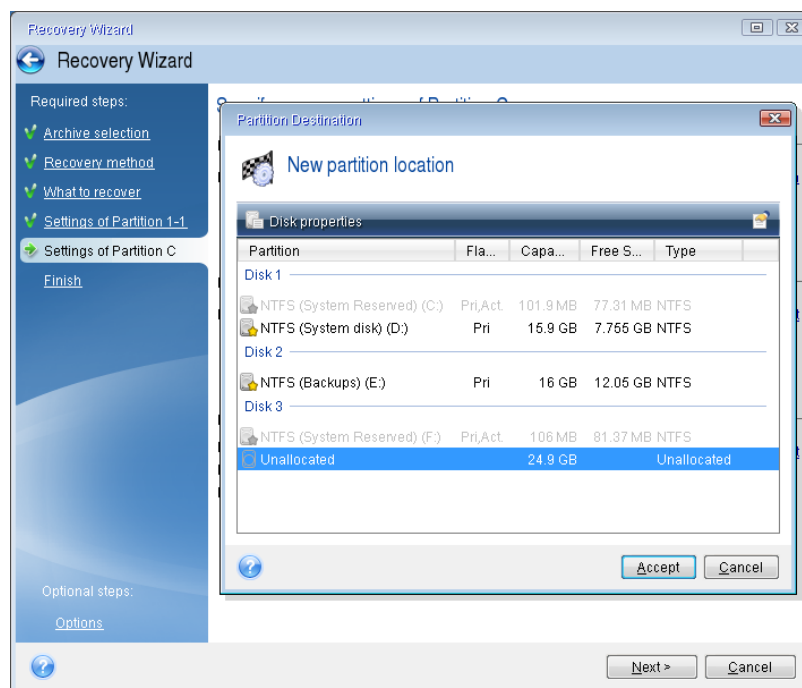


- **Type.** Check the partition type and change it, if necessary. Ensure that the System Reserved partition (if any) is primary and marked as active.
- **Size.** Click **Change default** in the Partition size area. By default the partition occupies the entire new disk. Enter the correct size in the Partition size field (you can see this value on the **What to recover** step). Then drag this partition to the same location that you saw in the Backup Information window, if necessary. Click **Accept**.



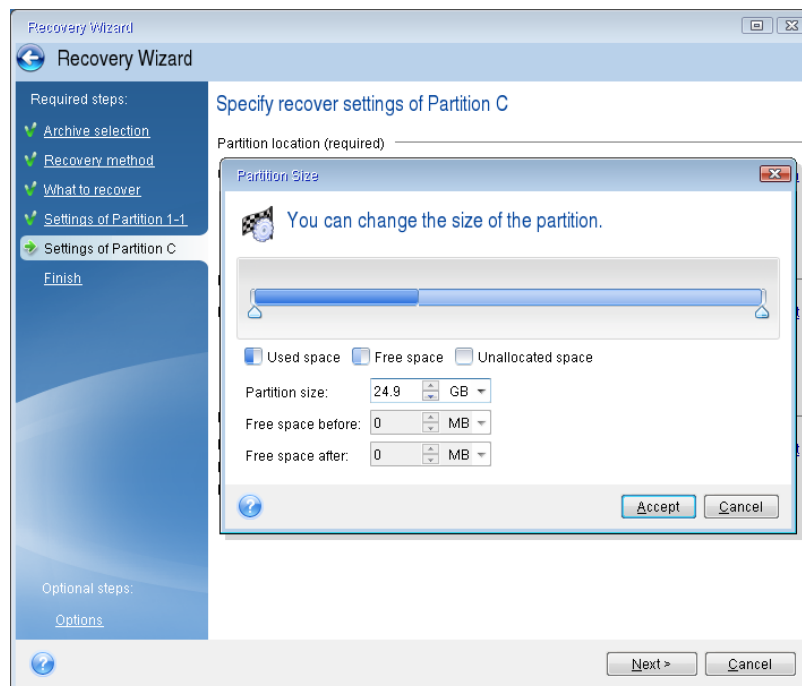
11. On the **Settings of Partition C** step, specify the settings for the second partition, which in this case is your system partition.

- Click **New location**, and then select unallocated space on the destination disk that will receive the partition.



- Change the partition type, if necessary. The system partition must be primary.

- Specify the partition size, which by default equals the original size. Usually there is no free space after the partition, so allocate all the unallocated space on the new disk to the second partition. Click **Accept**, and then click **Next**.



12. Carefully read the summary of operations to be performed and then click **Proceed**.

If your original disk contains a hidden partition created by the PC manufacturer, please proceed to MBR recovery. You need to recover the MBR because the PC manufacturer could change the generic Windows MBR or a sector on track 0 to provide access to the hidden partition.

- Select the same backup again. Right-click and select **Recover** in the shortcut menu. Choose **Recover whole disks and partitions** at the Recovery method step and then select the **MBR and Track 0** box.
- At the next step, select the destination disk as the target for MBR recovery. You can also recover the disk signature. Refer to Selecting target disk for MBR recovery (p. 43) for details.

Click **Next** and then **Proceed**. After MBR recovery is complete, exit the standalone version of Acronis True Image OEM for Windows Server.

When the recovery is complete

Before you boot the computer, please disconnect the old drive (if any). If Windows "sees" both the new and old drive during the boot, this will result in problems booting Windows. If you upgrade the old drive to a larger capacity new one, disconnect the old drive before the first boot.

Remove the rescue media and boot the computer to Windows. It may report that new hardware (hard drive) is found and Windows needs to reboot. After making sure that the system operates normally, restore the original boot order.

Selecting target disk for MBR recovery

In this window you should select a hard disk for recovering the Master Boot Record (MBR) along with track 0.

Recover disk signature check box

If you have selected MBR recovery at the **Content selection** step, the **Recover disk signature** check box will be in the bottom left corner. Disk signature is a part of a hard disk MBR. It is used for uniquely identifying the disk media.

We recommend that you select the **Recover disk signature** check box due to the following reasons:

- Acronis True Image OEM for Windows Server creates scheduled tasks using the signature of the source hard disk. If you recover the same disk signature, you don't need to re-create or edit the tasks created previously.
- Some installed applications use a disk signature for licensing and other purposes.
- If you use Windows Restore Points, they will be lost when the disk signature is not recovered.
- Recovering a disk signature allows recovering VSS snapshots used by Windows Vista and Windows 7's "Previous Versions" feature.

We recommend that you clear the **Recover disk signature** check box when:

- You use an image backup not for disaster recovery but for cloning your Windows hard drive to another one.

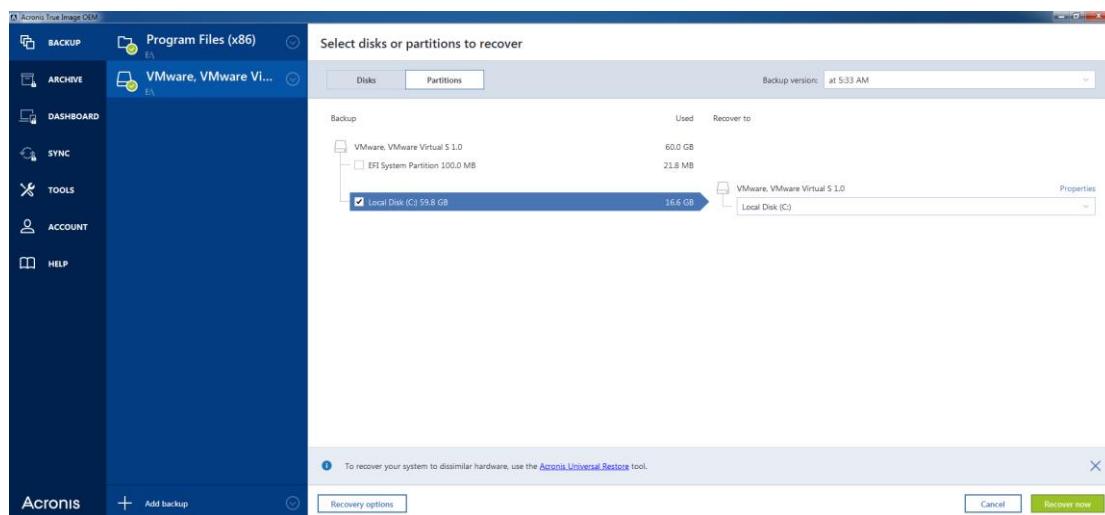
In this case, Acronis True Image OEM for Windows Server generates a new disk signature for the recovered hard drive, even if you recover to the same drive.

Having selected a hard disk drive and specified whether to recover the disk signature, click **Next** to continue.

5.1.2 Recovering partitions and disks

To recover partitions or disks:

1. Start Acronis True Image OEM for Windows Server.
2. In the **Backup** section, select the backup which contains the partitions or disks you want to recover, and then click **Recover disks**.
3. In the **Backup version** list, select the backup version you want to recover by its backup date and time.



4. Select the disks to recover.

If you need to recover separate partitions, click **Recover specific partitions**, and then select the partitions to recover.

5. In the recovery destination field below the partition name, select the destination partition. Unsuitable partitions are marked by red lettering. Note that all data on the destination partition will be lost because it is replaced by the recovered data and file system.

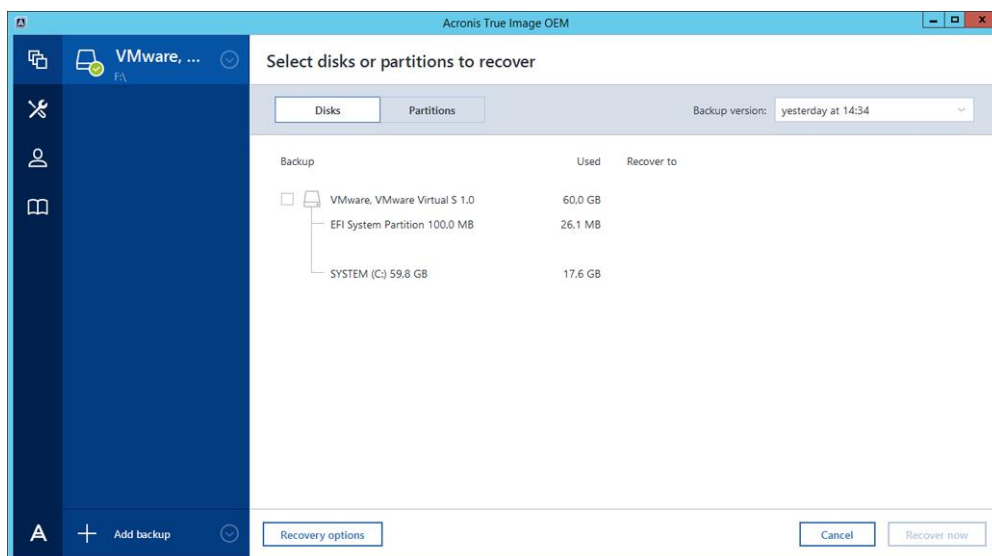
*To recover to the original partition, at least 5 % of the partition space must be free. Otherwise, the **Recover now** button will be unavailable.*

6. [optional step] To set up additional parameters for the disk recovery process, click **Options**.
7. After you finish with your selections, click **Recover now** to start recovery.

5.1.2.1 How to recover more than one partition at once

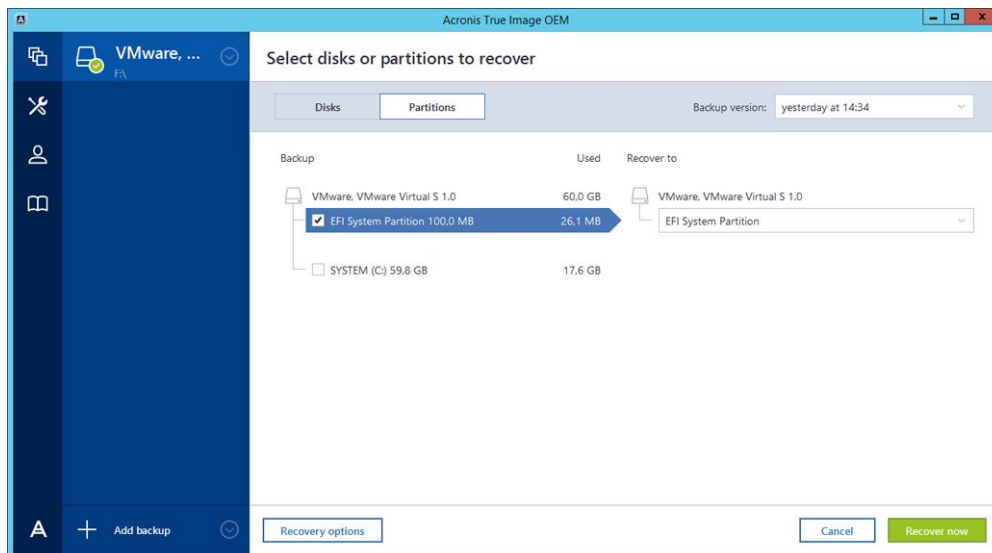
Here we describe recovery of two partitions. If an image of a hard disk has more than two partitions, the procedure is similar.

1. Click **Recover** on the backup box of a disk containing several partitions. The **Disk Recovery** window appears.



2. Click the down arrow next to **Version:** and then select the backup version you want to recover by its backup date and time.

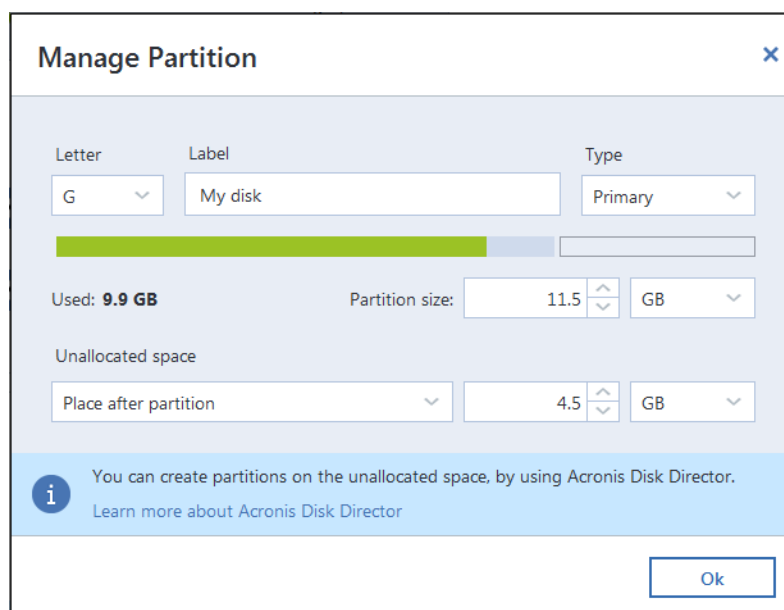
3. Select a partition to recover. This opens the recovery destination field below the partition name (label).



4. Click the down arrow to the right of the field and select the destination hard disk. The partition to be recovered is then placed on the selected hard disk. It occupies all the available disk space. To reduce the partition size so as to leave enough disk space for the remaining partition, click the **Partition properties** link below the recovery destination field. The **Partition Properties** window appears.
5. You can resize the partition by dragging its right border with a mouse on the horizontal bar on the screen.

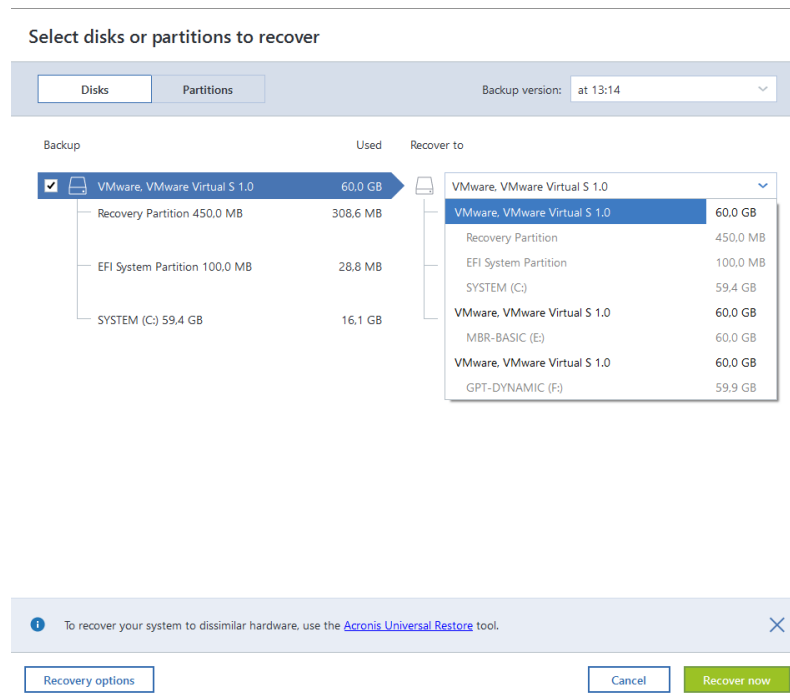
*To assign the partition a specific size, enter the appropriate number into the **Total size** field.*

Remember that you need to leave as much unallocated (free) space after having resized the partition as will be needed for the remaining partition. Select a disk letter and partition type. When you finish the settings, click **OK** to confirm them and return to the main Disk Recovery window.



6. Select the next partition's check box.

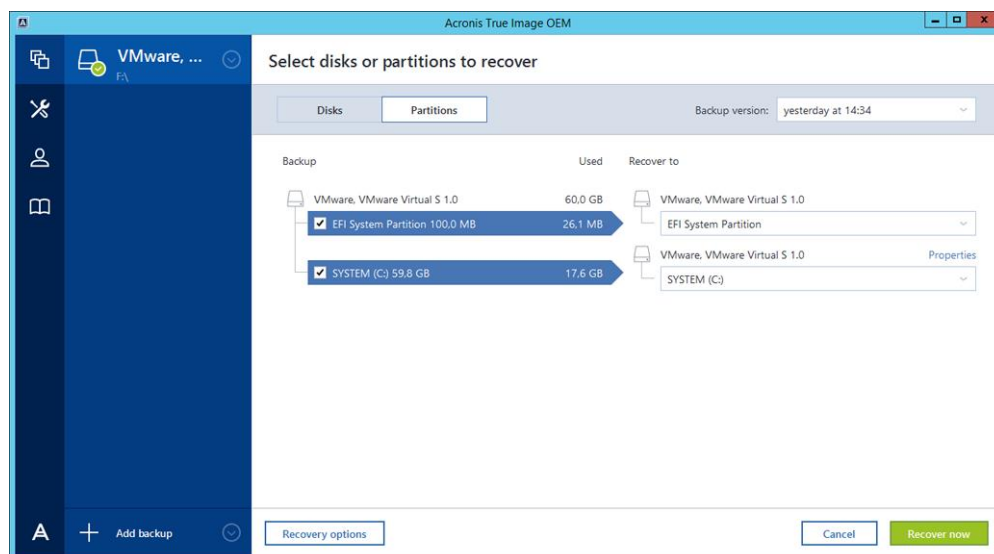
7. Select the unallocated space on the destination hard disk. The program creates a partition occupying the entire unallocated space.



8. Click the **Partition properties** link and make the settings for the partition. Select a disk letter and partition type. When you finish the settings, click **OK** to confirm them and return to the main Disk Recovery window.

If the image contains more than two partitions, leave enough unallocated space for other partitions to be recovered and repeat steps 5-7 until you make the settings for all partitions.

9. Click **Recover now** to recover the partitions to the destination hard disk.



5.1.3 About recovery of dynamic/GPT disks and volumes

Recovery of dynamic volumes

You can recover dynamic volumes to the following locations on the local hard drives:

- **Dynamic volume.**

Manual resizing of dynamic volumes during recovery to dynamic disks is not supported. If you need to resize a dynamic volume during recovery, it should be recovered to a basic disk.

- **Original location (to the same dynamic volume).**

The target volume type does not change.

- **Another dynamic disk or volume.**

The target volume type does not change. For example, when recovering a dynamic striped volume over a dynamic spanned volume the target volume remains spanned.

- **Unallocated space of the dynamic group.**

The recovered volume type will be the same as it was in the backup.

- **Basic volume or disk.**

The target volume remains basic.

- **Bare-metal recovery.**

When performing a so called "bare-metal recovery" of dynamic volumes to a new unformatted disk, the recovered volumes become basic. If you want the recovered volumes to remain dynamic, the target disks should be prepared as dynamic (partitioned and formatted). This can be done using third-party tools, for example, Windows Disk Management snap-in.

Recovery of basic volumes and disks

- When recovering a basic volume to an unallocated space of the dynamic group, the recovered volume becomes dynamic.
- When recovering a basic disk to a dynamic disk of a dynamic group consisting of two disks, the recovered disk remains basic. The dynamic disk to which the recovery is performed becomes "missing" and a spanned/striped dynamic volume on the second disk becomes "failed".

Partition style after recovery

The target disk's partition style depends on whether your computer supports UEFI and on whether your system is BIOS-booted or UEFI-booted. See the following table:

	My system is BIOS-booted (Windows or Acronis Bootable Media)	My system is UEFI-booted (Windows or Acronis Bootable Media)
My source disk is MBR and my OS does not support UEFI	The operation will not affect neither partition layout nor bootability of the disk: partition style will remain MBR, the destination disk will be bootable in BIOS.	After operation completion, the partition style will be converted to GPT style, but the operating system will fail booting from UEFI, since your operating system does not support it.
My source disk is MBR and my OS supports UEFI	The operation will not affect neither partition layout nor bootability of the disk: partition style will remain MBR, the destination disk will be bootable in BIOS.	The destination partition will be converted to GPT style that will make the destination disk bootable in UEFI. See Example of recovery to UEFI system (p. 49).
My source disk is GPT and my OS supports UEFI	After operation completion, the partition style will remain GPT, the system will fail booting on BIOS, because your operating system cannot support booting from GPT on BIOS.	After operation completion, the partition style will remain GPT, the operating system will be bootable on UEFI.

Example of recovery procedure

See Example of recovery to a UEFI system (p. 49).

5.1.3.1 Example of recovery to a UEFI system

Here is an example for transferring a system with the following conditions:

- The source disk is MBR and the OS supports UEFI.
- The target system is UEFI-booted.
- Your old and new hard drives work in the same controller mode (for example, IDE or AHCI).

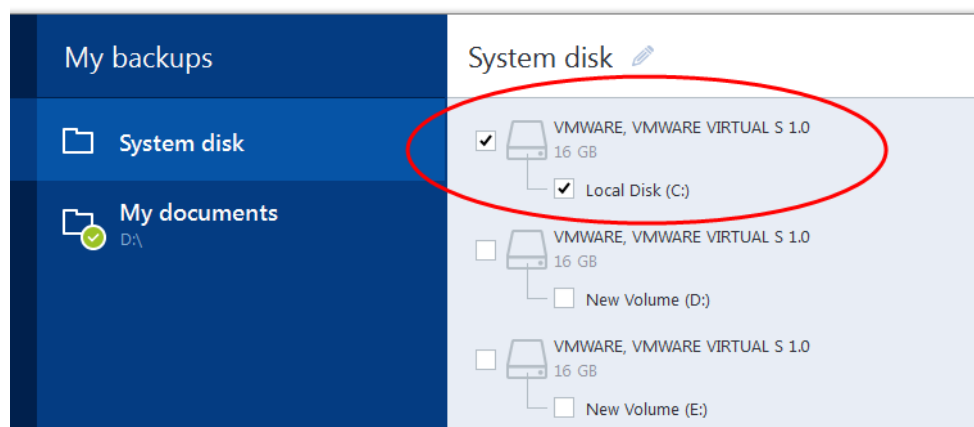
Before you start the procedure, please ensure that you have:

- **Bootable rescue media.**

Refer to Creating bootable rescue media (p. 10) for details.

- **Backup of your system disk created in disk mode.**

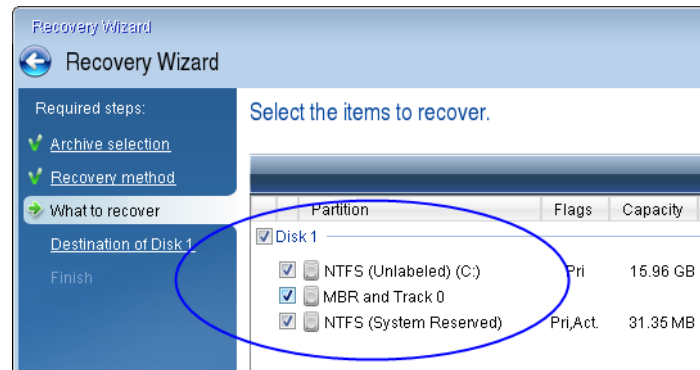
To create this backup, switch to disk mode, and then select the hard drive that contains your system partition. Refer to Backing up disks and partitions (p. 20) for details.



To transfer your system from an MBR disk to a UEFI-booted computer:

1. Boot from the rescue media in UEFI mode and select Acronis True Image OEM for Windows Server.
2. Run the **Recovery wizard** and follow the instructions described in Recovering your system (p. 37).
3. On the **What to recover** step, select the check box next to the disk name to select the entire system disk.

In the example below, you need to select the **Disk 1** check box:



4. On the **Finish** step, click **Proceed**.

When the operation finishes, the destination disk is converted to GPT style so that it is bootable in UEFI.

After the recovery, please ensure that you boot your computer in UEFI mode. You may need to change the boot mode of your system disk in the user interface of the UEFI boot manager.

5.1.4 Arranging boot order in BIOS

To boot your computer from Acronis bootable rescue media, you need to arrange boot order in BIOS so the media is the first booting device.

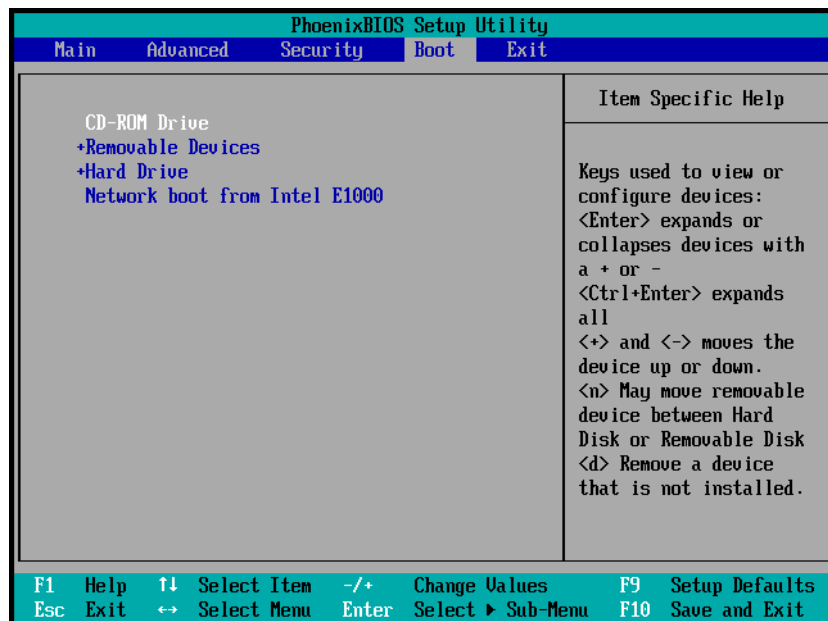
To boot from Acronis bootable media:

1. If you use a USB flash drive as a bootable media, plug it into the USB port.
2. Turn your computer on. During the Power-On Self Test (POST), you will see the key combination that you need to press in order to enter BIOS.
3. Press the key combination (such as, **Del**, **F1**, **Ctrl+Alt+Esc**, **Ctrl+Esc**). BIOS setup utility will open. Note that BIOS may differ in appearance, sets of items, names, etc.

*Some motherboards have a so called boot menu opened by pressing a certain key or key combination, for instance, **F12**. The boot menu allows selecting the boot device from a list of bootable devices without changing the BIOS setup.*

4. If you use a CD or DVD as a bootable media, insert it in the CD or DVD drive.
5. Make your rescue media (CD, DVD or USB drive) device the first booting device:
 1. Navigate to the Boot order setting by using the arrow keys on your keyboard.

- Place the pointer on the device of your bootable media and make it the first item in the list. You can usually use the Plus Sign and the Minus Sign keys to change the order.



- Exit BIOS and save the changes that you made. The computer will boot from Acronis bootable media.

If the computer fails to boot from the first device, it tries to boot from the second device in the list, and so on.

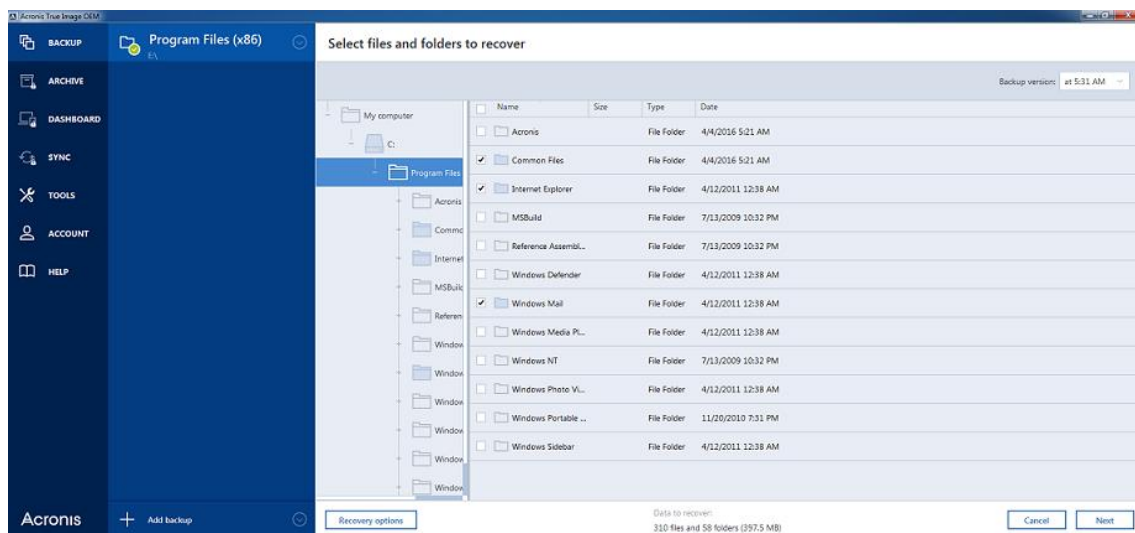
5.2 Recovering files and folders

You can recover files and folders both from file-level and disk-level backups.

To recover files and folders:

- Start Acronis True Image OEM for Windows Server.
- On the sidebar, click **Backup**.
- From the backup list, select the backup which contains the files or folders that you want to recover.
- On the right panel, click **Recover files**.
- Select backup version (data state on specific date and time).

6. Select the files and folders that you want to recover, and then click **Next**.



7. Select a destination on your computer to where you want to recover selected files/folders. You can recover data to its original location or choose a new one, if necessary. To choose a new location, click the **Browse** button.
When you choose a new location, the selected items will be recovered by default without recovering the original, absolute path. You may also wish to recover the items with their entire folder hierarchy. In this case select the **Keep the original folder structure** check box.
8. When needed, set the options for the recovery process (recovery process priority, file-level security settings, etc.). To set the options, click **Options**. The options you set here will be applied only to the current recovery operation.
9. To start the recovery process, click the **Recover now** button.
You can stop the recovery by clicking **Cancel**. Please keep in mind that the aborted recovery may still cause changes in the destination folder.

Recovering files in Windows Explorer

To recover files and folders directly from Windows Explorer:

1. Double-click the corresponding .tib file, and then browse to the file or folder that you want to recover.
2. Copy the file or folder to a hard disk.

Note: The copied files lose the "Compressed" and "Encrypted" attribute. If you need to keep these attributes, it is recommended to recover the backup.

5.3 Recovery options

In the **Disk Recovery Options** and **File Recovery Options** windows you can configure options for a disk/partition and file recovery processes respectively. After you installed the application, all options are set to the initial values. You can change them for your current recovery operation only or for all further recovery operations as well. Select the **Save the settings as default** check box to apply the modified settings to all further recovery operations by default.

Note, that disk recovery options and file recovery options are fully independent, and you should configure them separately.

If you want to reset all the modified options to their initial values that were set after the product installation, click the **Reset to initial settings** button.

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5.3.1 Disk recovery mode

With this option you can select the disk recovery mode for image backups.

- **Recover sector-by-sector** - select this check box if you want to recover both used and unused sectors of disks or partitions. This option will be effective only when you choose to recover a sector-by-sector backup.

5.3.2 Pre/Post commands for recovery

You can specify commands (or even batch files) that will be automatically executed before and after the recovery procedure.

For example, you may want to start/stop certain Windows processes, or check your data for viruses before recovery.

To specify commands (batch files):

- Select a command to be executed before the recovery process starts in the **Pre-command** field. To create a new command or select a new batch file, click the **Edit** button.
- Select a command to be executed after the recovery process ends in the **Post-command** field. To create a new command or select a new batch file, click the **Edit** button.

Please do not try to execute interactive commands, i.e. commands that require user input (for example, "pause"). These are not supported.

5.3.2.1 Edit user command for recovery

You can specify user commands to be executed before or after recovery:

- In the **Command** field type-in a command or select it from the list. Click ... to select a batch file.
- In the **Working directory** field type-in a path for command execution or select it from the list of previously entered paths.
- In the **Arguments** field enter or select command execution arguments from the list.

Disabling the **Do not perform operations until the command execution is complete** parameter (enabled by default), will permit the recovery process to run concurrently with your command execution.

The **Abort the operation if the user command fails** (enabled by default) parameter will abort the operation if any errors occur in command execution.

You can test the command you entered by clicking the **Test command** button.

5.3.3 Validation option

- **Validate backup before recovery**—Enable this option to check the backup integrity before recovery.
- **Check the file system after recovery**—Enable this option to check the file system integrity on the recovered partition.

Only FAT16/32 and NTFS file systems can be checked.

The file system will not be checked if a reboot is required during recovery, for example, when recovering the system partition to its original place.

5.3.4 Computer restart

If you want the computer to reboot automatically when it is required for recovery, select the **Restart the computer automatically if needed for the recovery** check box. This may be used when a partition locked by the operating system has to be recovered.

5.3.5 File recovery options

You can select the following file recovery options:

- **Recover files with their original security settings** - if the file security settings were preserved during backup (see File-level security settings for backup (p. 29)), you can choose whether to recover them or let the files inherit the security settings of the folder where they will be recovered to. This option is effective only when recovering files from file/folder backups.
- **Set current date and time for recovered files** - you can choose whether to recover the file date and time from the backup or assign the files the current date and time. By default the file date and time from the backup will be assigned.

5.3.6 Overwrite file options

Choose what to do if the program finds a file in the target folder with the same name as in the backup.

This option is available only while restoring data from file-level backups.

Selecting the **Overwrite existing files** check box will give the files from the backup unconditional priority over the files on the hard disk, though, by default, the more recent files and folders are protected against overwriting. If you want to overwrite those files and folders too, clear the appropriate check box.

If you do not need to overwrite some files:

- Select/clear the **Hidden files and folders** check box to enable/disable overwriting of all hidden files and folders.
- Select/clear the **System files and folders** check box to enable/disable overwriting of all system files and folders.
- Select/clear the **More recent files and folders** check box to enable/disable overwriting of new files and folders.
- Click **Add specific files and folders** to manage the list of custom files and folders that you do not want to overwrite.

- To disable overwriting of specific files, click the **Add...** button to create an exclusion criterion.
- While specifying the criteria, you can use the common Windows wildcard characters. For example, to preserve all files with extension **.exe**, you can add ***.exe**. Adding **My???.exe** will preserve all **.exe** files with names consisting of five symbols and starting with “my”.

To delete a criterion, for example, added by mistake, click the Delete icon to the right of the criterion.

5.3.7 Performance of recovery operation

On the **Performance** tab you can configure the following settings:

Operation priority

Changing the priority of a backup or recovery process can make it run faster or slower (depending on whether you raise or lower the priority), but it can also adversely affect the performance of other running programs. The priority of any process running in a system, determines the amount of CPU usage and system resources allocated to that process. Decreasing the operation priority will free more resources for other CPU tasks. Increasing backup or recovery priority may speed up the process by taking resources from the other currently running processes. The effect will depend on total CPU usage and other factors.

You can set up the operation priority:

- **Low** (enabled by default) - the backup or recovery process will run slower, but the performance of other programs will be increased.
- **Normal** - the backup or recovery process will have the equal priority with other processes.
- **High** - the backup or recovery process will run faster, but the performance of other programs will be reduced. Be aware that selecting this option may result in 100% CPU usage by Acronis True Image OEM for Windows Server.

5.3.8 Notifications for recovery operation

Free disk space threshold

You may want to be notified when the free space on the backup storage becomes less than the specified threshold value. If after starting a backup Acronis True Image OEM for Windows Server finds out that the free space in the selected backup location is already less than the specified value, the program will not begin the actual backup process and will immediately inform you by displaying an appropriate message. The message offers you three choices - to ignore it and proceed with the backup, to browse for another location for the backup or to cancel the backup.

If the free space becomes less than the specified value while the backup is being run, the program will display the same message and you will have to make the same decisions.

To set the free disk space threshold:

- Select the **Show notification message on insufficient free disk space** check box
- In the **Size** box, type or select a threshold value and select a unit of measure

Acronis True Image OEM for Windows Server can monitor free space on the following storage devices:

- Local hard drives
- USB cards and drives

- Network shares (SMB/NFS)

*The message will not be displayed if the **Do not show messages and dialogs while processing (silent mode)** check box is selected in the **Error handling** settings.*

This option cannot be enabled for FTP servers and CD/DVD drives.

6 Tools

Acronis Tools and utilities include protection tools, mounting tools, and disk management utilities.

Protection tools

- **Acronis Startup Recovery Manager** (p. 64)
Allows you to start Acronis True Image OEM for Windows Server without loading the operating system by pressing F11 at boot time before the operating system starts.
- **Rescue Media Builder** (p. 57)
Allows you to create a bootable rescue media with Acronis products (or their specified components) installed on your computer.

Image mounting

- **Mount image** (p. 65)
With this tool you can explore a previously created image. You will be able to assign temporary drive letters to the partition images and easily access these images as ordinary, logical drives.
- **Unmount image** (p. 66)
With this tool you can unmount the temporary logical drives you have created to explore an image.

6.1 Creating bootable rescue media

You can run Acronis True Image OEM for Windows Server from an emergency boot media on a bare-metal system or a crashed computer that cannot boot. You can even back up disks on a non-Windows computer, copying all its data into the backup by imaging the disk in the sector-by-sector mode. To do so, you need bootable media that has a copy of the standalone Acronis True Image OEM for Windows Server version installed on it.

How you can obtain bootable media:

- Use the installation CD of the boxed product.
- Make a media bootable with Acronis Media Builder (p. 57):
 - Blank CD
 - Blank DVD
 - USB flash drive

Note: The data it may contain will not be modified.

- Create an .iso image file to burn it afterwards onto a CD or DVD.

6.1.1 Acronis Media Builder

Acronis Media Builder allows you to make a USB flash drive or a blank CD/DVD bootable. In case Windows cannot start, use the bootable media to run a standalone version of Acronis True Image OEM for Windows Server and recover your computer.

You can create several types of bootable media:

- **Acronis bootable rescue media**
This type is recommended for most users.

Notes

- If you use non-optical media, the media must have FAT16 or FAT32 file system.
- If Acronis Media Builder does not recognize your USB flash drive, you can try using the procedure described in an Acronis Knowledge Base article at <http://kb.acronis.com/content/1526>.
- When booting from the Rescue Media, you cannot perform backups to disks or partitions with Ext2/Ext3/Ext4, ReiserFS, and Linux SWAP file systems.
- When booting from the rescue media and using a standalone version of Acronis True Image OEM for Windows Server you cannot recover files and folders encrypted with use of the encryption available in Windows XP and later operating systems. For more information see File-level security settings for backup (p. 29). On the other hand, backups encrypted using the Acronis True Image OEM for Windows Server encryption feature can be recovered.

6.1.1.1 Creating bootable media

To create bootable media:

1. Plug in a USB flash drive, or insert a blank CD or DVD.
2. Start Acronis True Image OEM for Windows Server.
3. In the **Tools** section, click **Rescue Media Builder**.
4. Choose a media type that you want to create. Refer to Acronis Media Builder for details.
5. Select a destination for the media:
 - **CD**
 - **DVD**
 - **USB flash drive** (available only for Acronis bootable rescue media)
If your drive has an unsupported file system, Acronis True Image OEM for Windows Server will suggest formatting it to FAT file system.

Warning! *Formatting permanently erases all data on a disk.*

 - **ISO image file**
You will need to specify the .iso file name and the destination folder.
When the .iso file is created, you can burn it onto a CD or DVD. For example, in Windows 7 and later, you can do this using a built-in burning tool. In Windows Explorer, double-click the created ISO image file, and then click **Burn**.
6. Click **Proceed**.

6.1.1.2 Bootable media startup parameters

Here, you can set bootable media startup parameters in order to configure rescue media boot options for better compatibility with different hardware. Several options are available (nouseb, nomouse, noapic, etc.). These parameters are provided for advanced users. If you encounter any hardware compatibility problems while testing boot from the rescue media, it may be best to contact the product's support team.

To add a startup parameter

- Enter a command into the **Parameters** field.
- Having specified the startup parameters, click **Next** to continue.

Additional parameters that can be applied prior to booting Linux kernel

Description

The following parameters can be used to load Linux kernel in a special mode:

- **acpi=off**

Disables ACPI and may help with a particular hardware configuration.

- **noapic**

Disables APIC (Advanced Programmable Interrupt Controller) and may help with a particular hardware configuration.

- **nousb**

Disables loading of USB modules.

- **nousb2**

Disables USB 2.0 support. USB 1.1 devices still work with this option. This option allows using some USB drives in USB 1.1 mode, if they do not work in USB 2.0 mode.

- **quiet**

This parameter is enabled by default and the startup messages are not displayed. Deleting it will result in the startup messages being displayed as the Linux kernel is loaded and the command shell being offered prior to running the Acronis program.

- **nodma**

Disables DMA for all IDE disk drives. Prevents kernel from freezing on some hardware.

- **nofw**

Disables FireWire (IEEE1394) support.

- **nopcmcia**

Disables PCMCIA hardware detection.

- **nomouse**

Disables mouse support.

- **[module name]=off**

Disables the module (e.g. **sata_sis=off**).

- **pci=bios**

Forces to use PCI BIOS, and not to access the hardware device directly. For instance, this parameter may be used if the machine has a non-standard PCI host bridge.

- **pci=nobios**

Disallows use of PCI BIOS; only direct hardware access methods are allowed. For instance, this parameter may be used if you experience crashes upon boot-up, probably caused by the BIOS.

- **pci=biosirq**

Uses PCI BIOS calls to get the interrupt routing table. These calls are known to be buggy on several machines and they hang the machine when used, but on other computers it is the only way to get the interrupt routing table. Try this option, if the kernel is unable to allocate IRQs or discover secondary PCI buses on your motherboard.

- **vga=ask**

Gets the list of the video modes available for your video card and allows selecting a video mode most suitable for the video card and monitor. Try this option, if the automatically selected video mode is unsuitable for your hardware.

6.1.2 Making sure that your rescue media can be used when needed

To maximize the chances of your computer's recovery, you must test that your computer can boot from the rescue media. In addition, you must check that the rescue media recognizes all your computer's devices, such as the hard drives, the mouse, the keyboard, and network adapter.

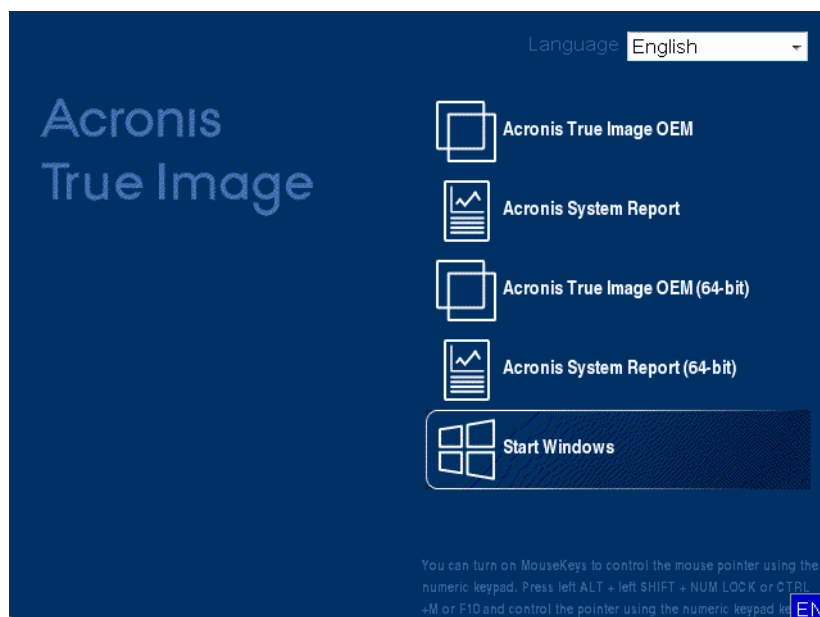
To test the rescue media

If you use external drives for storing your backups, you must attach the drives before booting from the rescue CD. Otherwise, the program might not detect them.

1. Configure your computer to enable booting from the rescue media. Then, make your rescue media device (CD-ROM/DVD-ROM drive or USB stick) the first boot device. See Arranging boot order in BIOS.
2. If you have a rescue CD, press any key to start booting from the CD, when you see the prompt "Press any key to boot from CD". If you do not press a key within five seconds, you will need to restart the computer.
3. After the boot menu appears, choose **Acronis True Image OEM for Windows Server**.

If your wireless mouse does not work, try to replace it with a wired one. The same recommendation applies to the keyboard.

If you do not have a spare mouse or keyboard, contact Acronis Support. They will build a custom rescue CD that will have drivers for your models of the mouse and keyboard. Please be aware that finding the appropriate drivers and making the custom rescue CD may take some time. Furthermore, this may be impossible for some models.



4. When the program starts, we recommend you try recovering some files from your backup. A test recovery allows you to make sure that your rescue CD can be used for recovery. In addition, you will check that the program detects all the hard drives you have in your system.

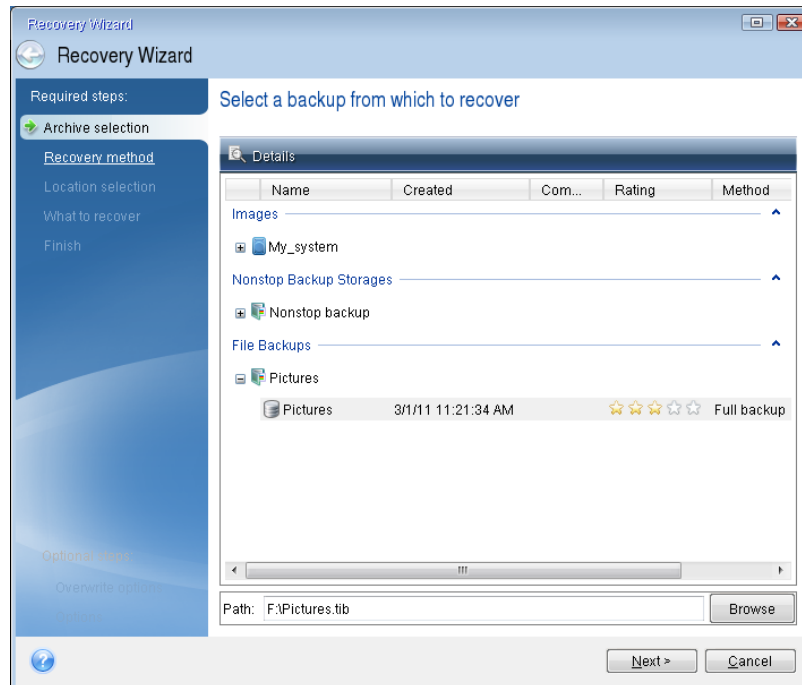
If you have a spare hard drive, we strongly recommend that you try a test recovery of your system partition to this hard drive.

How to test recovery, as well as check the drives and network adapter

1. If you have file backups, start Recovery Wizard by clicking **Recovery** -> **File Recovery** on the toolbar.

*If you have only disk and partition backup, Recovery Wizard also starts and the recovery procedure is similar. In such a case, you need to select **Recover chosen files and folders** at the **Recovery Method** step.*

2. Select a backup at the **Archive location** step and then click **Next**.

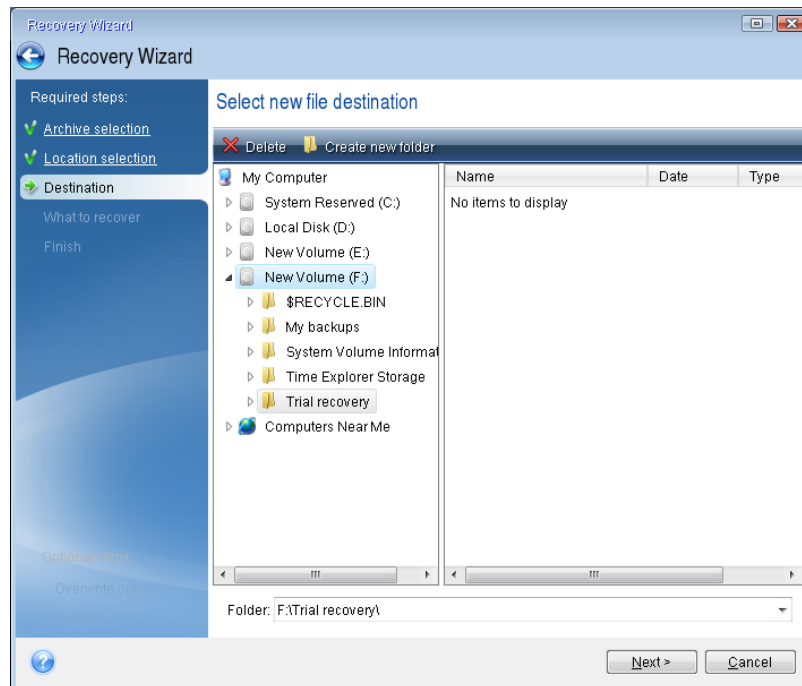


3. When recovering files with the rescue CD you are able to select only a new location for the files to be recovered. Therefore just click **Next** at the **Location selection** step.
4. After the **Destination** window opens, check that all your drives are shown under **My Computer**.

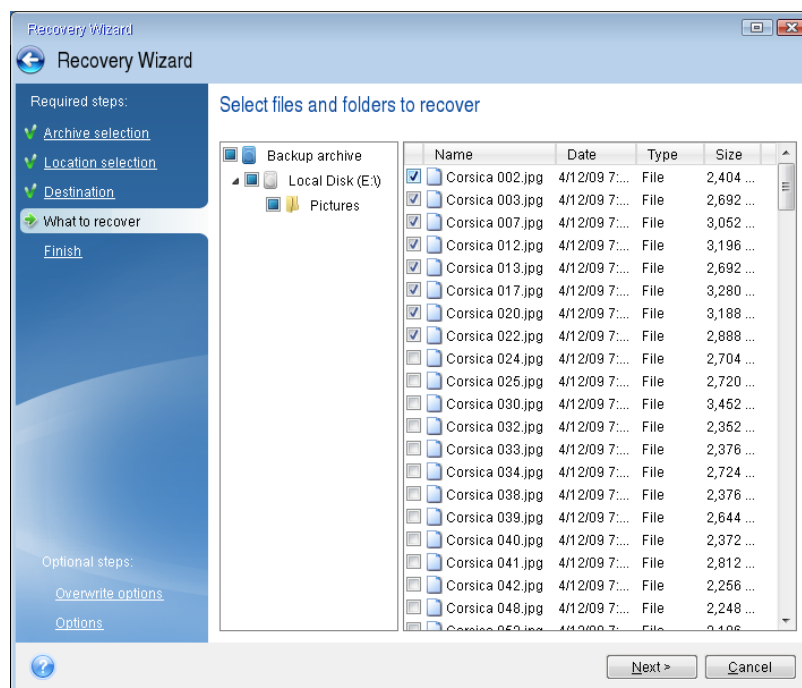
If you store your backups on the network, you should also check that you can access the network.

*If no computers are visible on the network, but the **Computers Near Me** icon is found under **My Computer**, specify network settings manually. To do this, open the window available at **Tools & Utilities** → **Options** → **Network adapters**.*

If the **Computers Near Me** icon is not available under **My Computer**, there may be problems either with your network card or with the card driver provided with Acronis True Image OEM for Windows Server.



5. Select the destination for the files and then click **Next**.
6. Select several files for recovery by selecting their check boxes and then click **Next**.



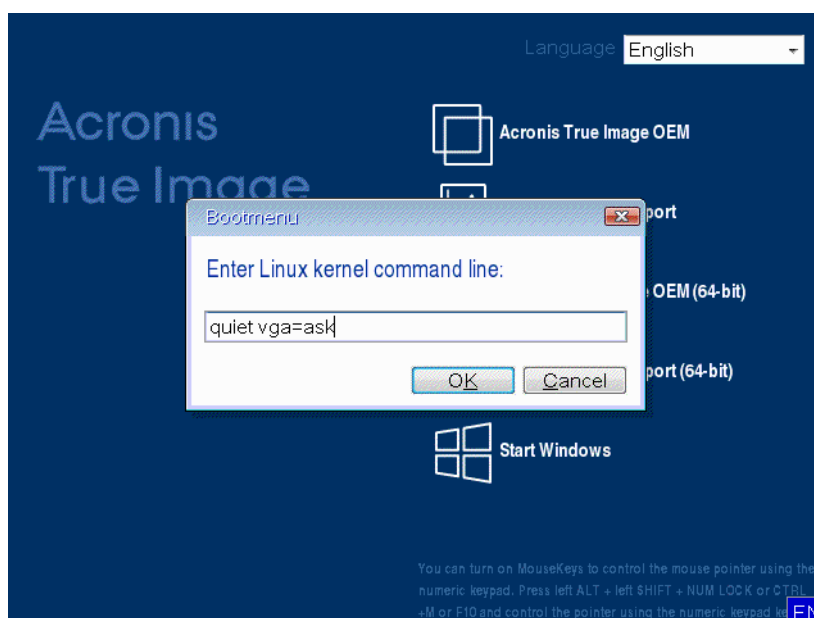
7. Click **Proceed** on the Summary window to start recovery.
8. After the recovery finishes, exit the standalone Acronis True Image OEM for Windows Server.

Now you can be reasonably sure that your rescue CD will help you when needed.

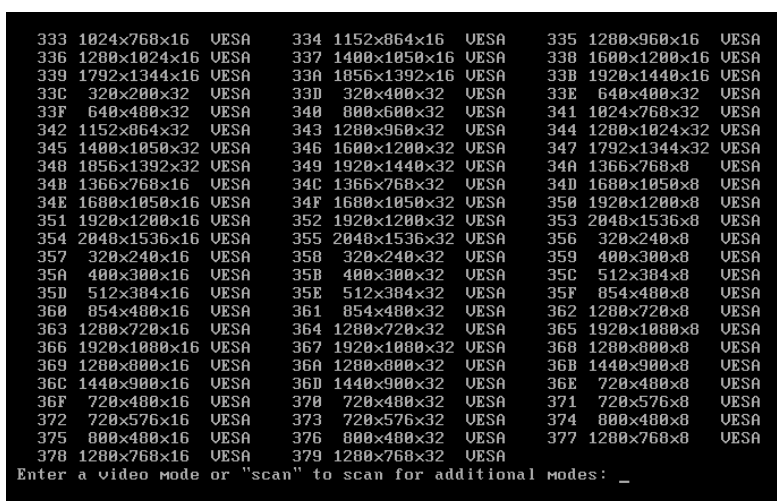
6.1.2.1 Selecting video mode when booting from the rescue media

When booting from the rescue media the optimal video mode is selected automatically depending on the specifications of your video card and monitor. However, sometimes the program can select the wrong video mode, which is unsuitable for your hardware. In such case you can select a suitable video mode as follows:

1. Start booting from the rescue media. When the boot menu appears, hover the mouse over **Acronis True Image OEM for Windows Server** item and press the F11 key.
2. When the command line appears, type "vga=ask" (without quotes) and click **OK**.



3. Select **Acronis True Image OEM for Windows Server** in the boot menu to continue booting from the rescue media. To see the available video modes, press the Enter key when the appropriate message appears.
4. Choose a video mode you think best suitable for your monitor and type its number in the command line. For instance, typing 338 selects video mode 1600x1200x16 (see the below figure).



5. Wait until Acronis True Image OEM for Windows Server starts and make sure that the quality of the Welcome screen display on your monitor suits you.

To test another video mode, close Acronis True Image OEM for Windows Server and repeat the above procedure.

After you find the optimal video mode for your hardware, you can create a new bootable rescue media that will automatically select that video mode.

To do this, start Acronis Media Builder, select the required media components, and type the mode number with the "0x" prefix (0x338 in our instance) in the command line at the "Bootable media startup parameters" step, then create the media as usual.

6.2 Acronis Startup Recovery Manager

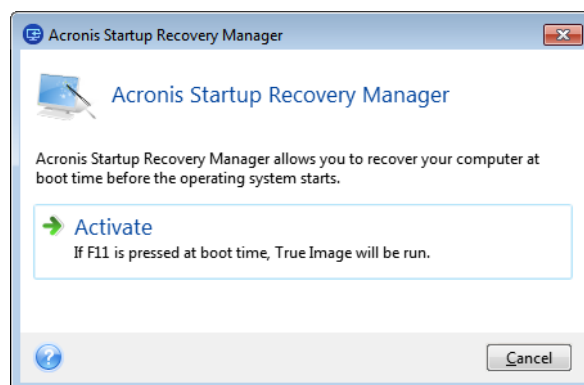
How it works

The Acronis Startup Recovery Manager lets you start Acronis True Image OEM for Windows Server without loading the operating system. With this feature, you can use Acronis True Image OEM for Windows Server by itself to recover damaged partitions, even if the operating system won't boot. Unlike booting from Acronis removable media, you will not need a separate media or network connection to start Acronis True Image OEM for Windows Server.

How to activate

To activate Acronis Startup Recovery Manager:

1. Start Acronis True Image OEM for Windows Server.
2. On the **Tools and utilities** tab, click **Acronis Startup Recovery Manager**.
3. In the opened window, click **Activate**.



How to use

If a failure occurs, turn on the computer and press F11 when you see the "Press F11 for Acronis Startup Recovery Manager" message. This will start a standalone version of Acronis True Image OEM for Windows Server that differs only slightly from the complete version.

Additional information

Disk letters in standalone Acronis True Image OEM for Windows Server might sometimes differ from the way Windows identifies drives. For example, the D: disk identified in the standalone Acronis True Image OEM for Windows Server might correspond to the E: disk in Windows. The disk labels and information on partition sizes, file systems, drive capacities, their manufacturers, and model numbers can help in correctly identifying the disks and partitions.

You won't be able to use the previously activated Acronis Startup Recovery Manager if the Try&Decide is turned on. Rebooting the computer in the Try mode will allow you to use Acronis Startup Recovery Manager again.

Does Acronis Startup Recovery Manager affect other loaders?

When Acronis Startup Recovery Manager is activated, it overwrites the master boot record (MBR) with its own boot code. If you have any third-party boot managers installed, you will need to reactivate them after the Startup Recovery Manager has been activated. For Linux loaders (e.g. LiLo and GRUB), you might consider installing them to a Linux root (or boot) partition boot record instead of MBR before activating Acronis Startup Recovery Manager.

UEFI boot mechanism is different from the BIOS one. Any OS loader or other boot program has its own boot variable that defines a path to the corresponding loader. All loaders are stored on a special partition called EFI System Partition. When you activate Acronis Startup Recovery Manager in UEFI-booted system, it changes the boot sequence by writing its own boot variable. This variable is added to the list of variables and does not change them. Since all loaders are independent and do not affect each other, there is no need to change anything before or after activating Acronis Startup Recovery Manager.

6.3 Mounting an image

Mounting images as virtual drives lets you access them as though they were physical drives. Such ability means that:

- A new disk appears in your system.
- You can view the image contents in Windows Explorer and other file managers.

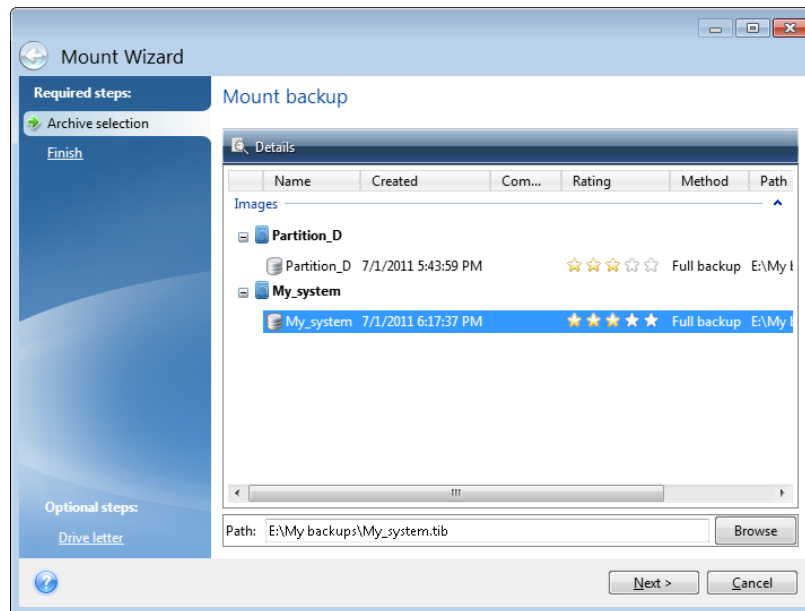
The operations described in this section are supported only for the FAT and NTFS file systems.

You cannot mount a disk backup, if it is stored on an FTP server.

How to mount an image

1. In Windows Explorer, right-click the image file that you want to mount, and then click **Mount image**.
The Mount wizard opens.
2. Select the backup for mounting by its creation date/time. Thus, you can explore the data state at a certain moment.

Note that you cannot mount an image of the entire disk except in the case when the disk consists of one partition.



3. [optional step] On the **Drive letter** step, select a letter to be assigned to the virtual disk from the **Mount letter** drop-down list. If you do not want to mount a partition, select **Do not mount** in the list or clear the partition's check box.
4. Click **Proceed**.
5. After the image is connected, the program will run Windows Explorer, showing its contents.

6.4 Unmounting an image

We recommend that you unmount the virtual disk after all necessary operations are finished, as maintaining virtual disks takes considerable system resources.

To unmount an image, perform one of the following:

- In Windows Explorer, right-click the disk icon and click **Unmount**.
- Restart or shut down your computer.

7 Troubleshooting

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7.1 Acronis System Report

When you contact the product's support team, they usually need information about your system in order to resolve your problem. Sometimes getting the information is an inconvenient process and may take a long time. The Generate system report tool simplifies the procedure. It generates a system report containing all the necessary technical information and allows you to save the information to file. When it's necessary, you can attach the created file to your problem description and send it to the product's support team. This will simplify and speed up the search for a solution.

To generate a system report, perform one of the following:

- On the main program window click the question mark symbol, and select **Generate system report**.
- On the Windows **Start** menu, click **All Programs -> Acronis -> True Image OEM for Windows Server -> Tools and Utilities -> Acronis System Report**.
- Press **CTRL+F7**. Note that you can use the key combination even when Acronis True Image OEM for Windows Server is performing any other operation.

After the report is generated:

- To save the generated system report to file, click **Save** and in the opened window specify a location for the created file.
- To exit to the main program window without saving the report, click **Cancel**.
- When you create your bootable rescue media, the **Acronis System Report** tool is automatically placed on the media as a separate component. This component allows you to generate a system report when your computer cannot boot. After you boot from the media, you can generate the report without running Acronis True Image OEM for Windows Server. Simply plug in a USB flash drive and click the **Acronis System Report** icon. The generated report is be saved on the USB flash drive.

Creating a system report from the command line prompt

1. Run Windows Command Processor (cmd.exe) as administrator.
2. Change the current directory to the Acronis True Image OEM for Windows Server installation folder. To do so, enter:

```
cd C:\Program Files (x86)\Acronis\True Image OEM for Windows Server
```

3. To create the system report file, enter:

```
SystemReport
```

File SystemReport.zip will be created in the current folder.

If you want to create the report file with a custom name, type the new name instead of <file name>:

```
SystemReport.exe /filename:<file name>
```

7.2 How to collect crash dumps

Because a crash of Acronis True Image OEM for Windows Server or Windows can be caused by different reasons, each crash case must be investigated separately. Acronis Customer Central would appreciate if you could provide the following information:

If Acronis True Image OEM for Windows Server crashes, please provide the following information:

1. A description of the exact sequence of steps performed before you encountered the issue.
2. A crash dump. For information on how to collect such a dump, see the Acronis Support Knowledge Base (KB) article at <http://kb.acronis.com/content/27931>.

If Acronis True Image OEM for Windows Server causes a Windows crash:

1. A description of the exact sequence of steps performed before you encountered the issue.
2. A Windows dump file. For information on how to collect such a dump see the Acronis Support KB article at <http://kb.acronis.com/content/17639>.

If Acronis True Image OEM for Windows Server hangs:

1. A description of the exact sequence of steps performed before you encountered the issue.
2. A userdump of the process. See the Acronis Support KB article at <http://kb.acronis.com/content/6265>.
3. The Procmon log. See the Acronis Support KB article at <http://kb.acronis.com/content/2295>.

If you cannot access the information, contact Acronis Customer Central for an FTP link for uploading files.

This information will speed up the process of finding a solution.

7.3 Acronis Customer Experience Program

Acronis Customer Experience Program (CEP) is a new way to allow Acronis customers to contribute to the features, design and development of Acronis products. This program enables our customers to provide us with various information, including information about the hardware configuration of your host computer and/or virtual machines, the features you use most (and least), and the nature of the problems you face. Based on this information, we will be able to improve the Acronis products and the features you use most often.

To make a decision:

1. On the sidebar, click **Help**, and then click **About Acronis True Image OEM for Windows Server**.
2. To leave the program, turn off the **Participate in the Acronis Customer Experience Program** switcher.

If you choose to participate, the technical information will be automatically collected every 90 days. We will not collect any personal data, like your name, address, phone number, or keyboard input. Participation in the CEP is voluntary, but the end results intended to provide software improvements and enhanced functionality to better meet the needs of our customers.

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Acronis patented technologies

Technologies, used in this product, are covered and protected by one or more U.S. Patent Numbers: 7,047,380; 7,275,139; 7,281,104; 7,318,135; 7,353,355; 7,366,859; 7,475,282; 7,603,533; 7,636,824; 7,650,473; 7,721,138; 7,779,221; 7,831,789; 7,886,120; 7,895,403; 7,934,064; 7,937,612; 7,949,635; 7,953,948; 7,979,690; 8,005,797; 8,051,044; 8,069,320; 8,073,815; 8,074,035; 8,145,607; 8,180,984; 8,225,133; 8,261,035; 8,296,264; 8,312,259; 8,347,137; 8,484,427; 8,645,748; 8,732,121 and patent pending applications.

8 Glossary of Terms

A

Acronis Startup Recovery Manager

A protection tool that allows to start standalone version of Acronis True Image OEM for Windows Server at boot time when F11 is pressed. Acronis Startup Recovery Manager eliminates the need for rescue media.

Acronis Startup Recovery Manager is especially useful for mobile users. If a failure occurs, the user reboots the machine, hits F11 on prompt "Press F11 to run Acronis Startup Recovery Manager..." and performs data recovery in the same way as with ordinary bootable media.

Limitations: cannot be organized on a dynamic disk; requires manual configuration of boot loaders, such as LILO and GRUB; requires re-activation of third-party loaders.

B

Backup

The same as Backup operation (p. 70).

Backup operation

An operation that creates a copy of the data that exists on a machine's hard disk for the purpose of recovering or reverting the data to a specified date and time.

Backup settings

A set of rules configured by a user when creating a new backup. The rules control the backup process. Later you can edit the backup settings to change or optimize the backup process.

Backup version

The result of a single backup operation (p. 70). Physically, it is a file or a set of files that

contains a copy of the backed up data as of a specific date and time. Backup version files created by Acronis True Image OEM for Windows Server have a TIB extension. The TIB files resulting from consolidation of backup versions are also called backup versions.

Bootable media

A physical media (CD, DVD, USB flash drive or other media supported by a machine BIOS as a boot device) that contains standalone version of Acronis True Image OEM for Windows Server.

Bootable media is most often used to:

- recover an operating system that cannot start
- access and back up the data that has survived in a corrupted system
- deploy an operating system on bare metal
- back up sector-by-sector a disk that has an unsupported file system

D

Disk backup (Image)

A backup (p. 70) that contains a sector-based copy of a disk or a partition in packaged form. Normally, only sectors that contain data are copied. Acronis True Image OEM for Windows Server provides an option to take a raw image, that is, copy all the disk sectors, which enables imaging of unsupported file systems.

F

Full backup

1. A backup method that is used to save all the data selected to back up.
2. A backup process that creates a full backup version (p. 70).

Full backup version

A self-sufficient backup version (p. 70) containing all data chosen for backup. You do

not need access to any other backup version to recover the data from a full backup version.

I

Image

The same as Disk backup (p. 70).

R

Recovery

Recovery is a process of returning of a corrupted data to a previous normal state from a backup (p. 70).

V

Validation

An operation that checks whether you will be able to recover data from a particular backup version (p. 70).

When you select for validation...

- a full backup version (p. 70) - the program validates the full backup version only.