



Acronis® Backup & Recovery 10

Installation Guide

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Installation of Acronis Backup & Recovery 10

Acronis Backup & Recovery 10 installation helps answer questions that might arise before and during the product installation.

1. Acronis Backup & Recovery 10 components

This section contains a full list of Acronis Backup & Recovery 10 components with a brief description of their functionality.

Acronis Backup & Recovery 10 includes three types of components.

Components for a managed machine (agents)

These are applications that perform data backup, recovery and other operations on the machines managed with Acronis Backup & Recovery 10. Agents require a license to perform operations on each managed machine. Agents have multiple features, or add-ons, that enable additional functionality and so might require additional licenses.

Components for centralized management

These components, delivered with the Advanced, SBS and Virtual Acronis Backup & Recovery 10 editions, provide the centralized management capability. Usage of these components is not licensed.

Console and tools

The console provides Graphical User Interface and remote connection to the agents and other Acronis Backup & Recovery 10 components. With bootable media builders, you can create bootable media in order to use the agents and other rescue utilities in a rescue environment. Usage of the console and the media builders is not licensed, but availability of the agent add-ons in a rescue environment depends on the licenses you have.

1.1. Agent for Windows

This agent enables disk-level and file-level data protection under Windows.

Disk backup

Disk-level data protection is based on backing up either a disk or a volume file system as a whole, along with all the information necessary for the operating system to boot; or all the disk sectors using the sector-by-sector approach (raw mode). A backup that contains a copy of a disk or a volume in a packaged form is called a disk (volume) backup or a disk (volume) image. It is possible to recover disks or volumes as a whole from such backup, as well as individual folders or files.

File backup

File-level data protection is based on backing up files and folders residing on the machine where the agent is installed or on a network share. Files can be recovered to their original location or to another place. It is possible to recover all files and folders that were backed up or select which of them to recover.

1.1.1. Bootable components and media builder

Bootable components of the agent enable operations with reboot, such as recovery of the volume containing the currently active operating system. Once the operations are completed, the machine boots into the operating system again. The bootable components are based on the Linux kernel. You can choose not to install the bootable components and perform operations that require reboot using bootable media.

Acronis Bootable Media Builder is a dedicated tool for creating bootable media containing the bootable components. The media builder, delivered with Agent for Windows, creates bootable media that represents volumes and network in the Windows-like style (C:, D:, \\server\share).

The Universal Restore add-on enables you to use the restore to dissimilar hardware functionality on the machine where the agent is installed, and create bootable media with this functionality. Universal Restore handles differences in devices that are critical for Windows start-up, such as storage controllers, motherboard or chipset.

1.1.2. Conversion to virtual machine

This add-on enables the agent to recover a disk (volume) to a new virtual machine of any of the following types: VMware Workstation, Microsoft Virtual PC, Parallels Workstation or Citrix XenServer virtual appliance.

1.1.3. Deduplication

This add-on enables the agent to back up data to deduplicating vaults managed by Acronis Backup & Recovery 10 Storage Node.

1.1.4. Agent for Hyper-V

Acronis Backup & Recovery 10 Agent for Hyper-V protects virtual machines residing on a Hyper-V virtualization server. The agent allows for backing up virtual machines from the host without having to install agents on each virtual machine. The agent installs on Windows 2008 Server x64 (any edition) or Microsoft Hyper-V Server 2008 as an add-on to Acronis Backup & Recovery 10 Agent for Windows.

Integration services have to be installed on the guest systems.

1.1.5. Disk Director Lite

Acronis Disk Director Lite enables disk management operations such as cloning disks; converting disks; creating, formatting and deleting volumes; and some additional operations like changing a disk partitioning style between MBR and GPT or changing a disk label. The disk management operations can be performed either in the operating system or using bootable media.

This application is installed as an add-on to Acronis Backup & Recovery 10 Agent for Windows.

1.2. Agent for Linux

This agent enables disk-level and file-level data protection under Linux.

Disk backup

Disk-level data protection is based on backing up either a disk or a volume file system as a whole, along with all information necessary for the operating system to boot; or all the disk sectors using the sector-by-sector approach (raw mode.) A backup that contains a copy of a disk or a volume in a packaged form is called a disk (volume) backup or a disk (volume) image. It is possible to recover disks or volumes as a whole from such backup, as well as individual folders or files.

File backup

File-level data protection is based on backing up files and directories residing on the machine where the agent is installed or on a network share accessed using the smb or nfs protocol. Files can be recovered to their original location or to another place. It is possible to recover all files and directories that were backed up or select which of them to recover.

1.2.1. Bootable components and media builder

Bootable components of the agent enable operations with reboot, such as recovery of the volume containing the currently active operating system. Once the operations are completed, the machine boots into the operating system again. The bootable components are based on the Linux kernel. You can choose not to install the bootable components and perform operations that require reboot using bootable media.

Acronis Bootable Media Builder is a dedicated tool for creating bootable media containing the bootable components. The media builder, delivered with Agent for Linux, creates bootable media that represents volumes and network in the Linux-like style (hda1, sdb2, smb://server/share).

1.2.2. Deduplication

This add-on enables the agent to back up data to deduplicating vaults managed by Acronis Backup & Recovery 10 Storage Node.

1.3. Agent for ESX/ESXi

Acronis Backup & Recovery 10 Agent for ESX/ESXi protects virtual machines residing on a VMware ESX or ESXi virtualization server. The agent allows for backing up virtual machines from the host without having to install agents on each virtual machine.

The agent installs on VMware ESX Infrastructure 3.5 Update 2. The agent is delivered as a virtual appliance. To install the agent, extract the virtual appliance files and import the virtual appliance to the VMware ESX server. For more information please see "Installing ESX/ESXi Virtual Appliance (p. 21)".

VMware Tools have to be installed on the guest systems.

1.4. Components for centralized management

This section lists the components included in the Acronis Backup & Recovery 10 editions that provide the centralized management capability. Besides these components, Acronis Backup & Recovery 10 Agents have to be installed on all machines that need data protection.

1.4.1. Management Server

Acronis Backup & Recovery 10 Management Server is the central server that drives data protection within the enterprise network. The management server provides the administrator with:

- a single entry point to the Acronis Backup & Recovery 10 infrastructure
- an easy way to protect data on numerous machines using backup policies and grouping
- enterprise-wide monitoring functionality
- the ability to create centralized vaults for storing enterprise backup archives
- the ability to manage storage nodes.

If there are multiple management servers on the network, they operate independently, manage different machines and use different centralized vaults for storing archives.

The management server's databases

The management server uses three Microsoft SQL databases:

- The configuration database that stores the list of registered machines and other configuration information, including backup policies created by the administrator.
- The synchronization database used for synchronization of the management server with registered machines and storage nodes. This is a database with rapidly changing operational data.
- The reporting database that stores the centralized log. This database may grow large. Its size depends on the logging level you set.

The configuration and synchronization databases should reside on the same Microsoft SQL Server (called an operational server) preferably installed on the same machine as the management server. The reporting database can be configured on the same or different SQL server.

When installing a management server, you can select for both operational and reporting servers what server to use. The following options are available:

- Microsoft SQL Server 2005 Express that comes with the installation package and installs on the same machine. In this case, an SQL server instance with three databases will be created on the machine.
- 2. Microsoft SQL Server 2008 (any edition) previously installed on any machine.
- 3. Microsoft SQL Server 2005 (any edition) previously installed on any machine.

1.4.2. Storage Node

Acronis Backup & Recovery 10 Storage Node is a server aimed to optimize usage of various resources (such as the corporate storage capacity, the network bandwidth, or the managed machines' CPU load) required for the enterprise data protection. This goal is achieved through organizing and managing the locations that serve as dedicated storages of the enterprise backup archives (managed vaults).

The storage nodes enable creating highly scalable and flexible, in terms of the hardware support, storage infrastructure. Up to 20 storage nodes can be set up, each being able to manage up to 20 vaults. The administrator controls the storage nodes centrally from the Acronis Backup & Recovery 10 Management Server. Direct console connection to a storage node is not possible.

Setting up the storage infrastructure

Install the storage nodes, add them to the management server (the procedure is similar to the managed machine registration) and create centralized vaults. When creating a centralized vault, specify the path to the vault, the storage node that will manage the vault, and the management operations to be performed on the vault.

A managed vault can be organized:

- on the hard drives local to the storage node
- on a network share
- on a Storage Area Network (SAN)
- on a Network Attached Storage (NAS)
- on a tape library locally attached to the storage node.

The management operations are as follows.

Storage node-side cleanup and validation

Archives, stored in unmanaged vaults, are maintained by the agents that create the archives. This means that each agent not only backs up data to the archive, but also executes service tasks that apply to the archive, the retention rules and validation rules specified by the backup plan. To relieve the managed machines of unnecessary CPU load, execution of the service tasks can be delegated to the storage node. Since the tasks' schedule exists on the machine the agent resides on, and therefore uses that machine's time and events, the agent has to initiate the storage node-side cleanup and the storage node-side validation according to the schedule. To do so, the agent must be online. Further processing is performed by the storage node.

This functionality cannot be disabled in a managed vault. The next two operations are optional.

Deduplication

A managed vault can be configured as a deduplicating vault. This means that identical data will be backed up to this vault only once to minimize the network usage during backup and storage space taken by the archives. For more information, please see Deduplication.

Encryption

A managed vault can be configured so that anything written to it is encrypted and anything read from it is decrypted transparently by the storage node, using a vault-specific encryption key stored on the node server. In case the storage medium is stolen or accessed by an unauthorized person, the malefactor will not be able to decrypt the vault contents without access to this specific storage node.

If the archive is already encrypted by the agent, the storage node-side encryption is applied over the encryption performed by the agent.

1.4.3. PXE Server

Acronis PXE Server allows for booting machines into Acronis bootable components through the network.

The network booting:

- Eliminates the need to have a technician onsite to install the bootable media into the system that has to be booted
- During group operations, reduces the time required for booting multiple machines as compared to using physical bootable media.

1.4.4. License Server

The server enables you to manage licenses of Acronis products and install the components that require licenses.

For more information about Acronis License Server please see "Using Acronis License Server (p. 26)".

1.5. Management Console

Acronis Backup & Recovery 10 Management Console is an administrative tool for remote or local access to Acronis Backup & Recovery 10 agents, and in the product editions that include the centralized management capability, to the Acronis Backup & Recovery 10 Management Server.

The console has two distributions for installation on Windows and installation on Linux. While both distributions enable connection to any Acronis Backup & Recovery 10 agent and Acronis Backup & Recovery 10 Management Server, we recommend that you use the console for Windows if you have a choice between the two. The console that installs on Linux has limited functionality:

- remote installation of Acronis Backup & Recovery 10 components is not available
- the Active Directory-related features, such as browsing the AD, are not available.

1.6. Tools

This section lists auxiliary applications delivered with Acronis Backup & Recovery 10.

1.6.1. Bootable Media Builder

Acronis Bootable Media Builder is a dedicated tool for creating bootable media with bootable Acronis components based on the Linux kernel.

The media builder has two distributions for installation on Windows and installation on Linux.

The media builder **for Windows** creates bootable media that represents volumes and network in the Windows-like style (C:, D:, \\server\share).

The media builder **for Linux** creates bootable media that represents volumes and network in the Linux-like style (hda1, sdb2, smb://server/share).

1.6.2. WinPE ISO Builder

Acronis WinPE ISO Builder is a dedicated tool for creating bootable media based on Windows preinstallation environment. This tool can be installed only on machines running Windows.

1.6.3. Universal Restore

This add-on enables you to create bootable media with the restore to dissimilar hardware functionality. Universal Restore handles differences in devices that are critical for Windows start-up, such as storage controllers, motherboard or chipset.

2. Supported operating systems

Components for a managed machine

Acronis Backup & Recovery 10 Agent for Windows

Acronis Backup & Recovery 10 Advanced Server

Acronis Backup & Recovery 10 Advanced Server - Virtual Edition

- Windows Professional 2000 SP4/Professional XP SP2
- Windows Server 2000/Advanced Server 2000/Server 2003/Server 2008/SBS 2003/SBS 2008
- Windows XP Professional x64 Edition, Windows Server 2003/2008 x64 Editions
- Windows Vista all editions except for Vista Home Basic and Vista Home Premium

The agent delivered with the virtual edition can be installed onto virtual machines hosted on a single physical host.

Acronis Backup & Recovery 10 Advanced Server - Small Business Server Edition

- Windows SBS 2003
- Windows SBS 2008

Acronis Backup & Recovery 10 Server for Windows

- Windows Professional 2000 SP4/Professional XP SP2
- Windows Server 2000/Advanced Server 2000/Server 2003/Server 2008/SBS 2003/SBS 2008
- Windows XP Professional x64 Edition, Windows Server 2003/2008 x64 Editions
- Windows Vista all editions except for Vista Home Basic and Vista Home Premium

Remote connection to the agent is not possible.

Acronis Backup & Recovery 10 Advanced Workstation

- Windows Professional 2000 SP4/Professional XP SP2
- Windows XP Professional x64 Edition/Home Edition
- Windows Vista all editions

Remote connection to the agent installed on Windows Home editions is not possible.

Acronis Backup & Recovery 10 for Workstation

- Windows Professional 2000 SP4/Professional XP SP2
- Windows XP Professional x64 Edition/Home Edition
- Windows Vista all editions

Remote connection to the agent is not possible.

Acronis Backup & Recovery 10 Agent for Linux

Acronis Backup & Recovery 10 Advanced Server

Acronis Backup & Recovery 10 Advanced Server - Virtual Edition

- Linux with kernel 2.4.18 or later (including 2.6.x kernels) and glibc 2.3.2
- Various Linux distributions (see your man page for the exact list) among which support for the following Linux distributions is especially considered: SuSE 9.3, SuSE 10.0, SLES 9.0, RedHat 9.0, Fedora Core 4, Fedora Core 5, Enterprise Server 3.0, Mandrake 10.x, Slackware 10, Debian (Sarge), ASPLinux 10, Gentoo, Ubuntu 4.10
- x64 versions of the above Linux distributions and other Linux distributions are also supported.

The agent for Linux is in fact a 32-bit executable. For the authentication, the agent uses system libraries, 32-bit versions of which are not always installed by default with 64-bit distributions. When using the agent on a 64-bit RedHat based distribution, such as RHEL, CentOS, Fedora or Scientific Linux, make sure that the following 32-bit packages are installed in the system:

pam.i386 libselinux.i386 libsepol.i386

These packages should be available in the repository of your Linux distribution.

The agent delivered with virtual editions can be installed onto virtual machines hosted on a single physical host.

Acronis Backup & Recovery 10 Agent for Hyper-V

• Windows Server 2008 x64 Edition with Hyper-V

This agent installs on a Hyper-V host as an add-on to Acronis Backup & Recovery 10 Agent for Windows.

Acronis Backup & Recovery 10 Agent for ESX/ESXi

VMware ESX Infrastructure 3.5 Update 2

The Agent for ESX/ESXi is delivered as a virtual appliance.

Components for centralized management

Acronis License Server

- Windows Professional 2000 SP4/XP Professional SP2
- Windows Server 2000/Advanced Server 2000/Server 2003/SBS 2003/SBS 2008/Server 2008
- Windows XP Professional x64 Edition, Windows Server 2003/2008/x64 Editions
- Windows Vista all editions except for Vista Home Basic and Vista Home Premium

Acronis Backup & Recovery 10 Management Console

- Windows Professional 2000 SP4/XP Professional SP2
- Windows Server 2000/Advanced Server 2000/Server 2003/SBS 2003/BS 2008/Server 2008
- Windows XP Professional x64 Edition/Home Edition, Windows Server 2003/2008/x64 Editions
- Windows Vista all editions

Acronis Backup & Recovery 10 Management Server and Acronis Backup & Recovery 10 Storage Node

- Windows Professional 2000 SP4/XP Professional SP2
- Windows Server 2000/Advanced Server 2000/Server 2003/SBS 2003/SBS 2008/Server 2008
- Windows XP Professional x64 Edition, Windows Server 2003/2008/x64 Editions
- Windows Vista all editions except for Vista Home Basic and Vista Home Premium

3. License policy

Acronis Backup & Recovery 10 licensing is based on the number of machines managed and protected by the product. Acronis Backup & Recovery 10 agents require a license to perform operations on each managed machine. The method of license check is different for stand-alone product editions and editions that enable centralized management.

Stand-alone editions

These are the following editions:

Acronis Backup & Recovery 10 Server for Windows (ABR10 SW)

Acronis Backup & Recovery 10 Server for Linux (ABR10 SL)

Acronis Backup & Recovery 10 for Workstation (ABR10 W)

The license key for the appropriate Acronis Backup & Recovery 10 edition is required to install an agent delivered with any of these editions. The license key has to be entered during the agent installation.

Editions with centralized management

These are the following editions:

Acronis Backup & Recovery 10 Advanced Server (ABR10 AS)

Acronis Backup & Recovery 10 Advanced Server - Virtual Edition (ABR10 AS VE)

Acronis Backup & Recovery 10 Advanced Server - Small Business Server Edition (ABR10 AS SBS)

Acronis Backup & Recovery 10 Advanced Workstation (ABR10 AW)

These editions include Acronis License Server that has to be installed prior to agent installation. License keys can be imported to the Acronis License Server from .txt or .eml files during the server installation or later on. For ABR10 AS, ABR10 AS SBS, ABR10 AW, one license key enables installation of the agent on a physical host and four virtual machines. For ABR10 AS VE, one license key enables installation of the agent on a physical host and on an unlimited number of hosted virtual machines.

Acronis Backup & Recovery 10 agent connects to Acronis License Server every time the agent service is started and then every 1–5 days, as specified by the agent configuration parameters. If the agent is unable to connect to the license server or does not find the appropriate license key for 1-60 days (as specified by the configuration parameters), it stops working until there has been a successful license check.

By default, the agent tries to connect to the license server every day and keeps working without a license server or license for 30 days.

4. Trial product version

Installation of Acronis Backup & Recovery 10 trial version does not require a license server. The trial key required at installation can be obtained on the Acronis Web site.

The Acronis Backup & Recovery 10 trial version has the following limitations:

- 15-day trial period
- Universal Restore and Deduplication functionality is disabled
- Acronis Disk Director creates volumes of the minimum size (1 cylinder ~ 7.8 MB) both in Windows and under bootable media. All functionality is available, but there is no option to commit the changes.
- command line utilities do not work in trial versions.

To upgrade from the trial version to the standard product you do not need to re-download the software. When the trial period is over, the product GUI displays a notification offering to specify a standard license key.

To specify the standard license key for a stand-alone product edition, run the installation package and follow the wizard's instructions. For editions with centralized management you need to install Acronis License Server and import the standard license keys.

5. Local installation (Windows)

You have a choice between downloading a full installation package and a small executable package that will download from Acronis Web site, only those components that you select to install.

5.1. Preparation

Install Acronis License Server and import the licenses. You can skip this step when using a trial license key or when installing only components that do not require license keys.

To install the license server, run the installation package, then click **Install Acronis Backup & Recovery 10**, then click **Install Acronis License Server on this machine**, and then follow the on-screen instructions.

Acronis Backup & Recovery 10 uses TCP port 9876 for local installation and for communication between components. The setup program automatically opens this port through Windows Firewall. If you use a different firewall, make sure that the port is open for both incoming and outgoing requests through that firewall.

5.2. Installation procedure

Do the following to install Acronis Backup & Recovery 10:

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. Click Install Acronis Backup & Recovery 10.
- 3. Specify the name or IP address of the Acronis License Server, or type your trial license key.
- 4. Select the components and specify the component features that you want to install.
- 5. If prompted, specify one or more of the following parameters depending on your component selection:
 - Credentials for the Acronis Backup & Recovery 10 component services. By default, the setup program will create a dedicated user account for each service. See "Specifying credentials for Acronis services (p. 14)".
 - The names of Microsoft SQL servers to be used by Acronis Backup & Recovery 10 Management Server. See "Specifying Microsoft SQL servers (p. 15)".
 - Whether to register Acronis Backup & Recovery 10 Agent for Windows and/or Acronis Backup & Recovery 10 Storage Node on the management server. See "Registering components on the management server (p. 15)".
 - The names of users who will be allowed to connect to the machine remotely. See "Specifying users allowed to connect remotely (p. 16)".

The summary window displays the list of components that will be installed on the machine.

5.3. Specifying credentials for Acronis services

The Acronis Backup & Recovery 10 Agent for Windows, Acronis Backup & Recovery 10 Management Server, and Acronis Backup & Recovery 10 Storage Node components run as services. When installing any of these components, you need to specify the account under which the component's service will run.

For each service, you can either create a dedicated user account or specify an existing account of a local or domain user.

If you choose to create dedicated user accounts for the services (recommended), the setup program will create the following user accounts:

- For the Acronis Backup & Recovery 10 Agent for Windows service, Acronis Agent User
- For the Acronis Backup & Recovery 10 Management Server service, AMS User
- For the Acronis Backup & Recovery 10 Storage Node service, ASN User

For security purposes, each of these accounts will be assigned only the user rights that are necessary to run the corresponding service:

- All three accounts are assigned the Log on as a service right.
- The Acronis Agent User account is additionally assigned the Log on locally, Back up files and directories, Restore files and directories, and Shut down the system user rights.

If you choose to specify an existing local or domain user account—for example, .\LocalUser or DomainName\DomainUser—make sure that the account is assigned the necessary user rights.

Important: After the installation, you cannot specify a different user account for a component's service.

5.4. Specifying Microsoft SQL servers

When installing Acronis Backup & Recovery 10 Management Server, you need to specify the Microsoft SQL servers for the management server's databases:

- The operational SQL server ensures synchronization of the Acronis Backup & Recovery 10 components and stores the policies configuration.
- The reporting SQL server stores the operation log and statistics. The database stored on this server may become considerably large over time.

For each SQL server, select one of the following:

- Microsoft SQL Server 2005 Express that comes with the installation package and installs on the same machine. In this case, an SQL server instance will be created on the machine.
- Microsoft SQL Server 2008 (any edition) previously installed on any machine.
- Microsoft SQL Server 2005 (any edition) previously installed on any machine.

Recommendations

For the operational SQL server, we recommend selecting a server that resides on the same machine as the management server—for example, Microsoft SQL Server 2005 Express that comes with the installation package.

For the reporting SQL server, you can choose the same server as for the operational SQL server, or a different server—not necessarily on the same machine.

5.5. Registering components on the management server

When installing Acronis Backup & Recovery 10 Agent for Windows or Acronis Backup & Recovery 10 Storage Node (or both), you need to specify whether to register these components on Acronis Backup & Recovery 10 Management Server.

After the agent is registered on the management server, the machine can be centrally managed by management server administrators. Such machine is called a registered machine.

After the storage node is registered on the management server, registered machines can back up data to and recover data from the storage node's centralized vaults.

To register the agent and/or the storage node during installation (recommended):

- 1. Click Register on the management server installed on the specified machine.
- 2. Specify the name or IP address of the machine with the management server. That machine must be online. It can be the local machine—for example, when the management server is among the components you are installing.
- 3. Specify the user name and password of a user who is a member of the Acronis Centralized Admins group on the management server's machine. If you are installing the management server on the local machine, specify the user name and password of a member of the Administrators group.

To skip registration:

Click I will register the component(s) later.

After the installation, you can register the components on the management server or remove them from it, through the management server's interface.

5.6. Specifying users allowed to connect remotely

When installing Acronis Backup & Recovery 10 Agent for Windows or Acronis Backup & Recovery 10 Management Server (or both), you need to specify the list of users whom you want to allow to manage the machine remotely by using Acronis Backup & Recovery 10 Management Console.

By default, the list contains all members of the Administrators group on the machine; note that this includes the domain administrators (if the machine is in an Active Directory domain).

The setup program creates the **Acronis Remote Users** group and adds the listed users to it. By adding or removing group members, you will add or remove users who are allowed to connect to the machine remotely.

5.7. Update

To update one or more Acronis Backup & Recovery 10 components:

- 1. Run the installation package, containing the updated version of Acronis Backup & Recovery 10.
- 2. Click Install Acronis Backup & Recovery 10.
- 3. Specify the name or IP address of Acronis License Server.
- 4. Click Update.
- 5. Follow the on-screen instructions.

6. Remote installation (Windows)

Acronis Backup & Recovery 10 Agent for Windows can be installed remotely.

To perform remote installation, you need administrator privileges on the target machines.

Preparation

- 1. Install Acronis License Server and import the licenses. You can skip this step when using a trial license key.
- 2. Install Acronis Backup & Recovery 10 Management Console.
- For successful installation on a remote machine running any Windows XP version, the option Control panel > Folder options > View > Use simple file sharing must be disabled on that machine.
- 4. For successful installation on a remote machine running Windows XP with Service Pack 2 or Windows 2003 Server, the option Control panel > Windows Firewall > Exceptions > File and Printer Sharing must be enabled on that machine.
- 5. Acronis Backup & Recovery 10 uses TCP ports 445 and 25001 for remote installation. Make sure that these ports are added to exceptions in the firewall settings on the remote machines.

Tip: If the remote machines are members of an Active Directory domain and use no firewall other than Windows Firewall, you can add TCP port 25001 to exceptions by using Group Policy. On a domain controller, create a Group Policy object, then go to **Administrative Templates -> Network -> Network Connections -> Windows Firewall -> Domain Profile -> Windows Firewall: Define port exceptions, and then add the following port exception:**

25001:tcp:*:enabled:Acronis remote install

TCP port 445 is added to exceptions automatically by Windows Firewall when you enable File and Printer Sharing.

You can exclude both ports from exceptions after the remote installation is complete.

Installation

- 1. Run Acronis Backup & Recovery 10 Management Console.
- 2. Click Install Acronis components.
- 3. Select the installer location from the list (Registered Components, Search removable media or Specify location). The default selection **Registered Components** will use setup files from the default folder: C:\Program Files\Common Files\Acronis\RemoteInstall.
- 4. Specify the features of Acronis Backup & Recovery 10 Agent for Windows that you want to install.
- 5. Specify the name or IP address of the Acronis License Server, or type a trial license key. You can use a single trial license key for remote installation to multiple machines.
- 6. Select machines on which the agent is to be installed. This can be done by:
 - o browsing the network. When browsing the network, you can select individual machines, as well as entire workgroups or domains
 - o typing machine names or IP addresses (click **Next** then add machines to the list)
 - o importing the list of the machines from .txt or .csv files.

7. Provide the administrator's user name and password for each machine. If there is a universal administrator account on the network, enter the account credentials for one machine and set the option to apply it to all the machines that you select. Domain administrator credentials and universal credentials for workgroups can be applied in this way.

If you do not specify credentials for all machines involved, or if the credentials are not valid for some machines, you will have an option to provide credentials during installation (there is an option **Other user** in the user name and password error prompt).

The summary window displays a list of machines where the agent will be installed.

Once the installation starts, the program displays the operation progress and the name of the machine on which the agent is being installed.

Update

To update Acronis Backup & Recovery 10 Agent for Windows on a remote machine, perform the same procedure.

7. Installation in Linux

This section describes installation of the following components on a machine running Linux:

- Acronis Backup & Recovery 10 Agent for Linux
- Acronis Backup & Recovery 10 Management Console
- Acronis Bootable Media Builder
- Acronis Backup & Recovery 10 Upgrade Tool.

By using command-line parameters, you can choose between the interactive and unattended installation modes.

7.1. Installation procedure

Preparation

Before proceeding with installation, you need to extract the installation files and assign them necessary access permissions:

- 1. On a machine running Windows, run the Acronis Backup & Recovery 10 setup file.
- 2. Click Extract installation files.
- 3. In the list of installation files, select the following check boxes:
 - Agent for Linux (AcronisAgentLinux.i686)
 - Bootable Media Builder (AcronisBootableComponentsMediaBuilderLinux.i686)
 - Management Console for Linux (AcronisManagementConsoleLinux.i686)
- 4. Copy the installation files AcronisManagementConsoleLinux.i686, AcronisAgentLinux.i686, and AcronisUpgradeTool.i686 to a folder on the machine where you want to install the components.
- 5. Go to the folder where you copied the installation files, and then run the following command:

chmod 777 Acronis*.i686

Installation

To install Acronis Backup & Recovery 10 Agent for Linux or Acronis Bootable Media Builder

- 1. Run the installation file:
 - For Acronis Backup & Recovery 10 Agent for Linux, run the command: ./AcronisAgentLinux.i686
 - For Acronis Bootable Media Builder, run the command: ./AcronisBootableComponentsMediaBuilder.i686
- 2. Specify the Acronis License Server—either by typing its DNS name or IP address or by choosing to find the license server automatically. Alternatively, type your Acronis Backup & Recovery 10 license key.
- 3. The setup program may ask you to compile the SnapAPI module for your Linux kernel. Click **Continue** to compile the module now (recommended), or click **Skip** to compile it manually later.

Note: If the setup program could not compile the necessary module for your Linux distribution, or if you have chosen to compile the module manually later, please refer to the file: /usr/lib/Acronis/BackupAndRecovery/HOWTO.INSTALL

To install Acronis Backup & Recovery 10 Management Console

- 1. Run the following command:
 - ./AcronisManagementConsoleLinux.i686
- 2. Follow the on-screen instructions.

7.2. Command-line parameters

By using command-line parameters, you can choose between the interactive and unattended installation modes.

When running any of the installation files:

- AcronisAgentLinux.i686
- AcronisBootableComponentsMediaBuilder.i686
- AcronisManagementConsoleLinux.i686

you can specify one or more of the following command-line parameters. Unless stated otherwise, the parameters are present in all three installation files.

-v or --version

Displays the product version and then exits.

-a or --auto

Performs installation in the so-called unattended setup mode, as opposed to the default interactive mode.

The setup program will proceed without asking for interaction, such as typing the license key or clicking the **Next** buttons.

When using this parameter, you need to specify the component to install, by using the -i parameter.

When installing Acronis Backup & Recovery 10 Agent for Linux and using this parameter, you need to specify the license server or the license key by using the **-L** or **-I** parameter, respectively.

If the SnapAPI module needs to be compiled and the compilation is possible, the setup program will automatically compile the module; otherwise, it will skip the compilation.

-n or --nodeps

Ignores dependencies during an unattended setup. This option is effective only in the unattended setup mode (see the previous parameter, -a).

-u or --uninstall

Uninstalls the component. You do not need to specify a license key or the license server.

-c or --norpm

Uses its own RPM Package Manager and not the system's package manager. Specify this parameter when installing the component on a system which does not use RPM Package Manager—such as an Ubuntu system.

-d or --debug

Puts verbose information to the installation log.

-i ComponentName or --id=ComponentName

Specifies the name of the component being installed:

For Acronis Backup & Recovery 10 Agent for Linux installation file: **AcronisAgentLinux-10.0.10052-1.i386.rpm**

For Acronis Backup & Recovery 10 Media Builder installation file: **MediaBuilder-10.0.10052-1.i386.rpm**

For Acronis Backup & Recovery 10 Management Console installation file: ManagementConsole-10.0.10052-1.i386.rpm

Note: The package's version number (here, 10.0.10052) may differ. To obtain the version number, run the installation file with the **-v** parameter.

-e {0 | 1} or --ssl={0 | 1}

Applies to Acronis Backup & Recovery 10 Agent for Linux installation file only.

Specifies whether to enable authentication for connection to other components. Authentication is performed by using Secure Socket Layer (SSL) certificates.

The possible values are:

- 0: Do not use authentication
- 1: Use authentication

-C ManagementServer or **--ams**=ManagementServer

Applies to Acronis Backup & Recovery 10 Agent for Linux installation file only.

Specifies the name or IP address of the Acronis Backup & Recovery 10 Management Server.

The machine will be automatically registered on the management server after the installation is complete.

-p *PortNumber* or **--port=***PortNumber*

Applies to Acronis Backup & Recovery 10 Agent for Linux installation file only.

Specifies the number of the TCP port to use to connect to other Acronis Backup & Recovery 10 components. The default port number is 9876.

-I LicenseKey or --serial=LicenseKey

Applies to Acronis Backup & Recovery 10 Agent for Linux installation file only.

Specifies the license key for the agent. Use either this parameter of the -L parameter.

-L LicenseServer or --license-server=LicenseServer

Applies to Acronis Backup & Recovery 10 Agent for Linux installation file only.

Specifies the name or IP address of the Acronis License Server. Use either this parameter or the **-I** parameter.

-? or --help

Displays help and then exits.

--usage

Displays a brief usage message and then exits.

7.3. Uninstalling components

To uninstall Acronis Backup & Recovery 10

Do the following as the root user:

- 1. Run the following commands to uninstall the Acronis Backup & Recovery 10 components:
 - # cd /usr/lib/Acronis/BackupAndRecovery/uninstall
 - # ./uninstall
- 2. Run the following command to delete the source files of the SnapAPI module:

```
# rm -rf /usr/src/snapapi*
```

8. Installing ESX/ESXi Virtual Appliance

The Acronis Backup & Recovery 10 Agent for ESX/ESXi is delivered as a virtual appliance. This component enables you to back up and recover virtual machines hosted on a VMware ESX Server without installing agents on the virtual machines.

To install the ESX/ESXi Virtual Appliance

Perform the following steps on a machine running Windows.

Step 1: Extracting the virtual appliance's files

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. Click Extract installation files. Then, in the list of installation packages, select the ESX/ESXi Virtual Appliance (AcronisVirtualAppliance.msi) check box.

Tip: Alternatively, you can click **Install Acronis Backup & Recovery 10**, and then select the **ESX/ESXi Virtual Appliance** check box in the list of components.

- 3. In **Extract to**, specify the folder to which you want to extract the virtual appliance's installation package, and then click **Extract**.
- 4. Run the installation package.

After the installation is complete, the virtual appliance's files will be located in the folder %CommonProgramFiles%\Acronis\ESXAppliance.

Step 2: Importing the virtual appliance

- 1. Start the VMware Infrastructure client and log on to the VMware ESX Server.
- 2. On the **File** menu, point to **Virtual Appliance**, and then click **Import**.
- 3. Click Import from file, then click Browse, and then select the virtual appliance's OVF package—normally, the file: C:\Program Files\Common Files\Acronis\ESXAppliance\AcronisESXAppliance.ovf
- 4. Click **Next**, and then type a name for the appliance—for example: **AcronisESXAppliance**
- 5. Click **Next**, and then click **Finish**.

Configuring ESX/ESXi Virtual Appliance

To use Acronis Backup & Recovery 10 Agent for ESX/ESXi, specify the VMware ESX/ESXi Server that the agent will manage and the credentials for connecting to the agent remotely.

To configure the virtual appliance

- 1. In the VMware Infrastructure client, right-click the virtual appliance's name in the list of virtual machines, and then click **Power On**.
- 2. To specify network parameters for the agent, click **Configure network**. By default, the network parameters are configured automatically by using Dynamic Host Configuration Protocol (DHCP).
- 3. Click **Provide license**, and then type the name or IP address of the Acronis License Server, or type your trial license key. After you click **OK**, the agent will connect to the license server to acquire a license.
- 4. Click **Configure connections**, and then specify:
 - The name or IP address of a VMware ESX/ESXi Server whose virtual machines you want to back up and recover, and the user name and password for logging on to that server.
 - The password for remote connection to the agent. The user name is root.

9. Installing components using Group Policy

You can centrally install, or deploy, Acronis Backup & Recovery 10 Agent for Windows onto machines that are members of an Active Directory domain, by using Group Policy, a mechanism available in Microsoft Windows 2000 Server and later Windows server operating systems.

With Group Policy, a domain administrator can specify a set of actions that will be performed on each machine in the entire domain or its part every time the machine logs on to the domain.

Example

Let us suppose that a domain administrator wants to deploy Acronis Backup & Recovery 10 Agent for Windows onto all accounting office machines, so that whenever a domain user logs on to Windows on any of these machines, the domain controller ensures that the agent is installed and operational on the machine.

Assume that the domain already has the Accounting Office organizational unit, which contains all accounting office machines.

First, the domain administrator configures the agent's setup file by specifying such parameters as the license key to use for the deployments, and the name of Acronis License Server to verify the license key's validity.

Then, the domain administrator assigns the setup file for centralized deployment, by creating a Group Policy object.

As a result, every time a domain user logs on to Windows from any of the accounting office machines, the domain controller checks whether Acronis Backup & Recovery 10 agent is installed on the user's machine, and installs the agent if necessary.

No user interaction is needed during such installation, nor does the user have to be a member of the Administrators group on the machine.

9.1. Preparing the agent's deployment

In this and the following topic, you will find how to set up a Group Policy object to deploy Acronis Backup & Recovery 10 Agent for Windows onto machines in an entire domain or in its organizational unit.

Every time a machine logs on to the domain, the resulting Group Policy object will ensure that the agent is installed and operational on the machine.

Prerequisites

Before proceeding with agent deployment, make sure that:

- You have an Active Directory domain with a domain controller running Microsoft Windows Server 2003 or later.
- You are a member of the Domain Admins group in the domain.

• You know the license key or the name or IP address of a machine where Acronis License Server is installed.

Step 1: Extracting the installation package

First, you need to create a shared folder that will contain the agent's installation package (provided as an .msi file), and extract the package there.

- 1. On the domain controller (or any other machine in the domain), create a folder—for example: **D:\Acronis**
- 2. Run the Acronis Backup & Recovery 10 setup file.
- 3. Click Extract installation files.
- 4. Select the **Agent (AcronisAgentWindows.msi)** check box. You can clear the remaining check boxes.
- 5. In **Extract to**, type the name of the folder that you just created, or click **Browse** and select the folder.
- 6. Click Extract.

Step 2: Sharing the folder

You now need to share the folder that you created in Step 1.

- 1. Right-click the folder's name, and then click **Sharing and Security**.
- 2. In the folder properties dialog box, click **Share this folder**. In **Share name**, you can type an alternative name for the shared folder instead of the default one if necessary.
- 3. Click Permissions.
- 4. In the share permissions dialog box, click Add.
- 5. In the **Select Users or Groups** dialog box, type **Authenticated Users** and then click **OK**.
- 6. Under **Group or user names**, select **Authenticated Users**. Under **Permissions for Administrators**, make sure that only **Read** is checked in the **Allow** column.
- 7. As a security best practice, select **Everyone** under **Group or user names**, and then click **Remove**.
- 8. Click **OK** to close the share permissions dialog box, and then click **OK** to close the folder properties dialog box.

Step 3: Configuring the agent's installation package

Finally, you need to configure the agent's installation package by running the configuration script, which was provided to you along with your license key. The configuration script creates a transform (also known as a modification, a modification file, or an .mst file) for the installation package.

- 1. In the Start menu, click Run, and then type: cmd
- 2. Click OK.
- 3. Change the current folder to the one where the configuration script **mst_gen.vbs** is located, by running commands such as:

D:

cd D:\Acronis

4. Run the configuration script as follows:

mst_gen.vbs Full_Path {License_Key \ License_Server} User_Name Password Edition

For example:

mst_gen.vbs \\server\Acronis\AgentWindows.msi mylicensesrv mydomain\AgentUser
MyPassWd SA

The script parameters are the following:

Full Path

Specifies a full path to the agent's installation package. Enter a local path, such as D:\Acronis\AgentWindows.msi; or a universal naming convention (UNC), such as \\server\Acronis\AgentWindows.msi.

License_Key

Specifies the license key to use when installing the package. A license key is a sequence of letters and numerals separated by dashes. Enter the license key exactly, including the dashes.

License Server

Specifies the name or IP address of the machine where Acronis License Server is installed.

You need to specify either a license key or a license server.

User_Name

Specifies the name of the user account under which Acronis Managed Machine Service will run on the machines. The user account must have appropriate privileges, as described in Rights for Acronis services. Separate the name of the domain and the account by a backslash, as in: mydomain\user

Password

Specifies the password for the user account whose name is given by *User_Name*.

Edition

Specifies the code of your edition of Acronis Backup & Recovery 10. The codes are:

SA: Acronis Backup & Recovery 10 for Server

SBS: Acronis Backup & Recovery 10 for Microsoft Windows Small Business Server (SBS)

WA: Acronis Backup & Recovery 10 for Workstation - Advanced Edition

VEL: Acronis Backup & Recovery 10 - Virtual Edition Lite

VEH: Acronis Backup & Recovery 10 - Virtual Edition for Hyper-V

VEE: Acronis Backup & Recovery 10 - Virtual Edition for ESX/ESXi

5. The agent's setup file is ready for deployment. You now need to create a Group Policy object, as described in the next topic.

9.2. Setting up the Group Policy object

Use this procedure to set up a Group Policy object for agent deployment in the entire domain or in its organizational unit.

Prerequisites

 You must be logged on to the domain controller as a domain administrator; if the domain has more than one domain controller, log on to any of them as a domain administrator.

- If you are planning to deploy the agent in an organizational unit, make sure that the organizational unit exists in the domain.
- Make sure that you have completed the steps described in Preparing the agent's deployment (p. 23).

Step 1: Creating a Group Policy object

- 1. In the **Start** menu, point to **Administrative Tools**, and then click **Active Directory Users and Computers**.
- 2. Right-click the name of the domain or organizational unit, and then click Properties.
- 3. In the dialog box, click the **Group Policy** tab, and then click **New**.
- 4. Type the name of the new Group Policy object—for example: Acronis Backup & Recovery 10 Agent
- 5. Click **Edit**. The Group Policy Object Editor snap-in will open. You can now close the dialog box by clicking **Close**.

Step 2: Configuring the Group Policy object

- 1. In the **Group Policy Object Editor** snap-in, expand **User Configuration**, and then expand **Software Settings**.
- 2. Right-click **Software installation**, then point to **New**, and then click **Package**.
- 3. Select the agent's setup file in the shared folder that you previously created, and then click **Open**.
- 4. In the **Deploy Software** dialog box, click **Advanced**, and then click **OK**.
- 5. On the **Deployment** tab, under **Deployment type**, click **Assigned**.
- 6. Under **Deployment options**, select the **Install this application at logon** check box.

Note: You might want to clear the **Install this application at logon** check box if some users in your network log on to the domain via a slow connection such as a dial-up connection. If you clear this check box, all users will have to start the agent's installation by clicking a shortcut in **Add or Remove Programs** after they log on to the domain.

- 7. Under Installation user interface options, click Basic.
- 8. On the **Modifications** tab, click **Add**, and then select the modification—also called transform—that you previously created; the transform file has the name **AgentWindows.mst** and is located in the same folder as the agent's installation package.
- 9. Click **OK** to close the **Deploy Software** dialog box.

10. Using Acronis License Server

Acronis License Server is a mechanism that tracks licenses of Acronis products.

A license key is associated with the Media Access Control address (MAC address) of the machine managed by Acronis Backup & Recovery 10 agent. In cases when the machine has multiple network interface cards (NICs), the license key is associated with the first enumerated physical NIC and its MAC address.

Acronis License Server can import multiple license keys from .txt or .eml files, saving you from the time-consuming procedure of typing in numbers.

When upgraded, recovered or reinstalled, the Acronis License Server keeps all the imported licenses intact. However, it is recommended that you copy the file(s) with license keys to removable media, or create a hard copy of that file(s) and keep it in a safe place. This ensures that you have license data available in case of hardware failure.

Viewing information about licenses

- 1. Run the Acronis Backup & Recovery 10 Management Console.
- Click Manage licenses. Connect to the machine where Acronis License Server is installed. This will display all license keys available on the license server. One license key can contain multiple licenses.
 - Right-click on the column headings bar to choose the details to display: Product Name, Serial Number, Import Date, Expiration Date and Total number of licenses assigned to each license key, as well as how many of them are available (i.e. free) and used. For example, if one license corresponds to one license key, Total=1, Available=1, Used=0 (if the license is free) or Available=0, Used=1 (if the license has been acquired).
- 3. To display more information about used licenses, select **Manage used licenses** on the sidebar. (This item does not appear while all licenses are free).
 - The Used mode lists all licenses that are acquired. Right-click on the column headings bar to choose the details to display: Product Name, Host Name, Host Address, Serial Number, Acquire Date (date of deployment or installation that used the license) and Renewal Date.

You can sort any list using **View > Arrange Icons by**.

Removing licenses

To completely remove a license from the Acronis License Server, select it from the list of available licenses and click **Remove license** on the sidebar.

Using the Acronis License Server Management Tool

The LicenseServerCmdLine.exe file is located in the license server installation folder, by default it is \Program Files\Acronis\LicenseServer.

LicenseServerCmdLine.exe uses the following syntax:

```
LicenseServerCmdLine [command] [option1] [option2]
```

LicenseServerCmdLine.exe supports the following commands and command options:

```
--list
```

Displays the list of Acronis License Servers found on the local network.

```
--status [servername or server IP-address]
```

Displays the status of the specified license server, i.e. the number of total/free licenses for each Acronis product.

```
--import [servername] [license key]
```

Adds a new license key to the specified license server. You can specify multiple license keys (space separated).

```
--import-file [servername] [filename]
```

Imports license keys from a .txt or .eml file.

```
--help
```

Shows usage.

Upgrade from Acronis True Image Echo

This section describes how to upgrade Acronis True Image Echo editions to Acronis Backup & Recovery 10 editions.

11.1. Upgrading to stand-alone editions of Acronis Backup & Recovery 10

This section describes how to upgrade the following editions of Acronis True Image Echo:

- Acronis True Image Echo Server for Windows to Acronis Backup & Recovery 10 Server for Windows
- Acronis True Image Echo Server for Linux to Acronis Backup & Recovery 10 Server for Linux.

Preparation

Before proceeding with the upgrade, make sure that:

- You have a license key for the corresponding Acronis True Image Echo edition.
- You have an upgrade license key for the corresponding Acronis Backup & Recovery 10 edition.

Upgrading components

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. Click Install Acronis Backup & Recovery 10.
- 3. Specify the upgrade license key and the license key for the currently installed product.
- 4. Confirm the deletion of the currently installed product components.
- 5. Follow the on-screen instructions. For details, see "Local installation (Windows) (p. 13)".

Result:

The Acronis True Image Echo components are replaced with the Acronis Backup & Recovery 10 components.

Upgrading tasks

After you have upgraded the product components, you might want to import the old backup tasks and validation tasks to Acronis Backup & Recovery 10. If you do not import them, these tasks will no longer run. You can import the tasks later at any time.

Note: The tasks that back up data to Acronis Backup Server or validate archives stored on it will not be imported to Acronis Backup & Recovery 10.

To upgrade the old tasks, use Acronis Backup & Recovery 10 Upgrade Tool. This command-line utility is located in the Acronis Backup & Recovery 10 installation directory, in the UpgradeTool subdirectory.

In Windows:

- Change the current folder to the folder where the upgrade tool is installed—by default:
 C:\Program Files\Acronis\UpgradeTool
 - If Acronis Backup & Recovery 10 is installed in a folder other than the default folder, change the path accordingly.
- 2. Run the following command:

cscript UpgradeTool.vbs Agent

In Linux:

- 1. Change the current directory to: /usr/lib/Acronis/UpgradeTool
- 2. Run the following command:

UpgradeTool.sh Agent

Result:

- Tasks that were present in Acronis True Image Echo, are converted to Acronis Backup & Recovery 10 tasks and appear in the **Backup plans and tasks** view.
- Each backup task's schedule, items to back up, and backup destination are the same as before, but the task will create a new archive to perform further backups.
- Each backup task is part of a backup plan. You can edit the backup plan to change the task's schedule or other parameters.

Using backup archives created with Acronis True Image Echo

After the upgrade to Acronis Backup & Recovery 10, you have the ability to recover data from backups created with Acronis True Image Echo.

To facilitate access to these backups, you may want to create a personal vault where the backups are located. For instructions on how to create a personal vault, see the "Actions on personal vaults" section in the User's Guide.

A personal vault can store both Acronis True Image Echo archives and Acronis Backup & Recovery 10 archives. You can specify this vault as a destination for new backup plans.

11.2. Upgrading to advanced editions of Acronis Backup & Recovery 10

This section describes how to upgrade the following editions of Acronis True Image Echo:

- Acronis True Image Echo Enterprise Server to Acronis Backup & Recovery 10 Advanced Server
- Acronis True Image Echo Workstation to Acronis Backup & Recovery 10 Advanced Workstation
- Acronis True Image Echo Virtual Edition to Acronis Backup & Recovery 10 Advanced Server Virtual Edition
- Acronis True Image for Microsoft Windows Small Business Server to Acronis Backup & Recovery 10 Advanced Server SBS Edition.

The advanced editions of Acronis Backup & Recovery 10 include Acronis License Server that has to be installed prior to upgrading the Echo agents and local versions.

The advanced editions of Acronis Backup & Recovery 10 do not have local versions. Local versions of Acronis True Image Echo are upgraded to Acronis Backup & Recovery 10 agents. Then you can install Acronis Backup & Recovery 10 Management Console on the machines, where local administration is required.

11.2.1. Before the upgrade

Preparation

Before proceeding with the upgrade on one or more machines, make sure that:

- The Acronis License Server contains the appropriate number of license keys for the corresponding Acronis True Image Echo editions.
- You have upgrade license keys for Acronis Backup & Recovery 10 for each machine. You will import these keys after installing or upgrading the license server.

Upgrade sequence

We recommend performing the upgrade in the following order:

- 1. Install or upgrade Acronis License Server. See "Installing or upgrading the Acronis License Server (p. 31)".
- 2. Install Acronis Backup & Recovery 10 Management Console. See "Installing Acronis Backup & Recovery 10 Management Console (p. 31)".
- 3. Install Acronis Backup & Recovery 10 Management Server and convert the Acronis Group Server's group tasks to the management server's backup policies. See "Upgrading Acronis Group Server to Acronis Backup & Recovery 10 Management Server (p. 31)".
- 4. Install Acronis Backup & Recovery 10 Storage Node and convert the Acronis Backup Server's backup locations to the storage node's centralized vaults. See "Upgrading Acronis Backup Server to Acronis Backup & Recovery 10 Storage Node (p. 33)".
- 5. Upgrade Acronis True Image Echo agents and local versions, and import the local tasks and backup locations. See "Upgrading Acronis True Image Echo agents and local versions (p. 34)".

11.2.2. Installing or upgrading the Acronis License Server

If an earlier version of the license server is already installed, upgrade it by installing the new license server on the same machine. In this case, the old license keys will be present on the upgraded license server. If you have not used a license server before, import both old license keys and upgrade license keys to the newly installed license server.

To install or upgrade the license server

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. Click Install Acronis Backup & Recovery 10.
- 3. Click Install Acronis License Server on this machine and follow the on-screen instructions.
- 4. Import the upgrade license keys for Acronis Backup & Recovery 10.
- 5. If you have not used a license server before, import the old license keys.

Result:

• The license server contains the old license keys and the newly imported upgrade license keys.

11.2.3. Installing Acronis Backup & Recovery 10 Management Console

You can install Acronis Backup & Recovery 10 Management Console on the same machine as Acronis True Image Echo Management Console, or on a different machine. In either case, you can continue using Acronis True Image Echo Management Console with Acronis True Image Echo components if these still exist in your infrastructure.

To install Acronis Backup & Recovery 10 Management Console

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. In the list of components, select the **Management Console** check box.
- 3. Follow the on-screen instructions.

Result:

- Acronis Backup & Recovery 10 Management Console is installed.
- You can continue using Acronis True Image Echo Management Console with Acronis True Image Echo components.

11.2.4. Upgrading Acronis Group Server to Acronis Backup & Recovery 10 Management Server

You can install Acronis Backup & Recovery 10 Management Server on the same machine as the Acronis Group Server, or on a different machine.

The management server and the group server are independent of each other: if you are not planning to use the group server, you can uninstall it at any time, including before the management server's installation. Otherwise, you can continue using the group server with Acronis True Image Echo components if these still exist in your infrastructure.

After the management server is installed, you can import the group server's group tasks as the management server's backup policies—even after you uninstall the group server.

Note: The tasks that back up data to Acronis Backup Server or validate archives stored on it will not be imported to the management server.

To install the management server

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. In the list of components to install, select the **Management Server** check box.
- 3. To be able to import the group server's group tasks, select the **Upgrade Tool** check box.
- 4. Follow the on-screen instructions.

To import the group server's group tasks

- 1. On the machine where the management server is installed, log on as a member of the Administrators group.
- 2. Change the current folder to the folder where the upgrade tool is installed—by default: C:\Program Files\Acronis\UpgradeTool

If Acronis Backup & Recovery 10 is installed in a folder other than the default folder, change the path accordingly.

3. If the group server and the management server are installed on the same machine, run the following command (note capitalization):

cscript UpgradeTool.vbs GS [-r]

(the optional parameter -r is described below). Otherwise, run the following command:

```
cscript UpgradeTool.vbs GS MachineName -u UserName [-p Password] [-r]
```

Description of parameters:

MachineName

Specifies the name or IP address of the machine where the group server is installed.

-u UserName

Specifies the user name of a member of the Administrators group on the *MachineName* machine.

-p Password

Specifies the password for the *UserName* user. If you skip this parameter, the upgrade tool will prompt you for a password.

-r

Effective only if you are planning to upgrade the machines' tasks—see "Upgrading Acronis True Image Echo agents and local versions (p. 34)".

This parameter prohibits the conversion of local backup plans, resulting from the upgrade of group tasks on a machine, to centralized backup plans. When this parameter is specified, local backup plans resulting from upgrade of group tasks on a machine, will remain local after the machine is registered on the management server. Otherwise, the management server will convert them to centralized backup plans and establish correspondence between these centralized plans and the policy resulting from the group task upgrade.

Result:

- The imported group tasks become the management server's backup policies and appear in the Backup policies view.
- (After you upgraded tasks on a machine and if you did not specify the -r parameter.) When a
 machine to which a group task was originally applied registers on the management server, the
 corresponding backup policy will become applied to that machine.

11.2.5. Upgrading Acronis Backup Server to Acronis Backup & Recovery 10 Storage Node

You can install Acronis Backup & Recovery 10 Storage Node on the same machine as the Acronis Backup Server, or on a different machine.

If you want to import the backup server's locations as the storage node's centralized vaults, you must install the storage node on the same machine as the backup server.

Importing the backup server's locations as centralized vaults facilitates access to the Acronis True Image Echo archives stored in them. No Acronis Backup & Recovery 10 archives can be created in these vaults.

To install Acronis Backup & Recovery 10 Storage Node

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. In the list of components to install, select the **Storage Node** check box.
- 3. To be able to import the backup server's locations, select the **Upgrade Tool** check box.
- 4. Follow the on-screen instructions.

To import the backup server's locations

- 1. On the machine where the storage node is installed, log on as a member of the Administrators group.
- Change the current folder to the folder where the upgrade tool is installed—by default:C:\Program Files\Acronis\UpgradeTool
 - If Acronis Backup & Recovery 10 is installed in a folder other than the default folder, change the path accordingly.
- 3. Run the following command:

cscript UpgradeTool.vbs BS

Result:

- The backup server's backup locations are the storage node's centralized vaults.
- If the storage node is registered on the management server, these centralized vaults will appear on the management server in the **Vaults** view.
- Each centralized vault is named according to the backup location's folder.
- Each centralized vault displays all archives currently present in the corresponding backup location.

Coexistence of the backup server and the storage node

Suppose that both the backup server and the storage node are installed and operational in your environment, and that you imported the backup server's locations as the storage node's centralized vaults. In this case:

- The backup server continues working as before: Acronis True Image Echo components can back up data to and recover data from the locations; the backup server cleans up the location according to quotas and time limits.
- The storage node accesses the corresponding centralized vaults in the read-only mode: you can view the vaults' contents and recover data from their archives, but no archives can be deleted from the vaults.

11.2.6. Upgrading Acronis True Image Echo agents and local versions

To upgrade Acronis True Image Echo agents and local versions, install Acronis Backup & Recovery 10 agents on the machines where the old agents and local versions are installed:

- 1. Run the Acronis Backup & Recovery 10 setup file.
- 2. Specify the name or IP address of the Acronis License Server.
- 3. In the list of components, select the components that you want to install. To be able to upgrade the old tasks (see "Upgrading tasks" later in this section), select the **Upgrade Tool** check box.
- 4. Confirm the deletion of the currently installed agent or local version. To upgrade the old tasks at the time of installation, select the **Import existing tasks** check box.
- 5. Follow the on-screen instructions. For details, see "Local installation (Windows) (p. 13)".
- 6. The advanced editions of Acronis Backup & Recovery 10 do not have local versions. Select to install Acronis Backup & Recovery 10 Management Console, along with the agent, on the machines, where local administration is required.

Result:

 The Acronis True Image Echo agents and local versions are replaced with Acronis Backup & Recovery 10 agents.

Instead of local installation, you can install Acronis Backup & Recovery 10 agents remotely or by using Group Policy. For details, see "Remote installation (Windows) (p. 17)" and "Installing components using Group Policy (p. 23)".

Upgrading tasks

After you have upgraded the agents and local versions, you might want to import the old backup tasks and validation tasks to Acronis Backup & Recovery 10. If you do not import them, these tasks will no longer run. You can import the tasks later at any time.

Note: The tasks that back up data to Acronis Backup Server or validate archives stored on it will not be imported to Acronis Backup & Recovery 10.

You can upgrade the old tasks at the time of installation (see the installation instructions earlier in this section), or later by using Acronis Backup & Recovery 10 Upgrade Tool. This command-line utility is located in the Acronis Backup & Recovery 10 installation directory, in the UpgradeTool subdirectory.

In Windows:

- Change the current folder to the folder where the upgrade tool is installed—by default:
 C:\Program Files\Acronis\UpgradeTool
 - If Acronis Backup & Recovery 10 is installed in a folder other than the default folder, change the path accordingly.
- 2. Run the following command (note capitalization):

```
cscript UpgradeTool.vbs Agent
```

In Linux:

- 1. Change the current directory to: /usr/lib/Acronis/UpgradeTool
- 2. Run the following command:

UpgradeTool.sh Agent

Result:

- Tasks that were present in Acronis True Image Echo, are converted to Acronis Backup & Recovery 10 tasks and appear in the **Backup plans and tasks** view.
- Each backup task's schedule, items to back up, and backup destination are the same as before, but the task will create a new archive to perform further backups.
- Each backup task is part of a backup plan. You can edit the backup plan to change the task's schedule or other parameters.
- The tasks' log entries are not imported.

Using backup archives created with Acronis True Image Echo

After the upgrade to Acronis Backup & Recovery 10, you have the ability to recover data from backups created with Acronis True Image Echo.

To facilitate access to these backups, you may want to create a personal vault where the backups are located. For instructions on how to create a personal vault, see the "Actions on personal vaults" section in the User's Guide.

A personal vault can store both Acronis True Image Echo archives and Acronis Backup & Recovery 10 archives. You can specify this vault as a destination for new backup plans.

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