



# Acronis Backup 12 Advanced Beta

**EVALUATION GUIDE** 

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# 1 Introduction

We are happy to introduce the Beta version of Acronis Backup 12 Advanced – the solution that protects your entire business, backing up data on-premise, in remote systems, and in private and public clouds.

This document will help you install and evaluate the Acronis Backup 12 Advanced Beta. Your experience and feedback will help us achieve a high-quality product for our commercial release.

### Intended audience

For testing Acronis Backup 12 Advanced, it is expected that the reader:

- Knows basic principles, processes, and terminology of backup solutions.
- Possesses necessary experience and knowledge in installing and managing backup software.
- Is capable of using virtual machines (VM).

### Precautions

- Acronis Backup 12 Advanced Beta is not designed to be installed along with any Acronis software, such as Acronis Backup, Acronis Backup Service, Acronis Backup Cloud, or Acronis True Image.
- Do not test Acronis Backup 12 Advanced Beta on your production servers, desktops, or work laptops. The Beta is expected to have technical issues, and it may cause partial or full loss of data, configuration, or an entire system.

### Testing

Acronis Backup 12 Advanced Beta is designed to be tested for a wide range of scenarios. Feel free to perform any scenario, test any available feature and option. In this document, you can find sample scenarios that will give you a quick overview of what the product is capable of.

### Feedback

Whenever you find an issue that not listed in the "Known issues" section of the Release Notes, or are not sure how to use a function or feature, please send your feedback to us:

- Join the beta community to contribute to public discussions and chat with fellow technical previewers on the Acronis forum.
- Log issues and feature requests to the email address specified below.

Beta community: <u>https://forum.acronis.com/forums/beta-programs/acronis-backup-12-advanced-beta</u>

To access the community, please join the Beta program first.

Beta feedback: AcronisBackup12Beta@acronis.com

#### References

Release notes (include known issues): http://dl2.acronis.com/u/ABA12/Beta/AcronisBackup12ReleaseNotes\_Beta.pdf

Online help: <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#36537.html</u>

Datasheet: https://go.acronis.com/acronis-backup-12-advanced-beta-datasheet

What's new document: https://go.acronis.com/acronis-backup-12-advanced-beta-whatsnew

# 2 What's new in Acronis Backup 12 Advanced

- Unique! Acronis Active Protection to proactively detect and protect systems from ransomware attacks.
- Centralized backup policies, static and dynamic groupings, and the ability to manage, delegate, and establish roles for multiple administrators — all to support larger environments and greater volumes of data.
- Customizable dashboards and advanced reporting for quick insights into your entire IT infrastructure.
- Unique! Backup of XenServer, Linux KVM, Red Hat Enterprise Virtualization, and Oracle VM Server for complete protection of any virtual environment.
- Support for tape drives, autoloaders, and tape libraries for off-site storage to ensure compliance with company regulations.
- Off-host backup management operations, including staging (moving), replication (copying), validation, and retention (cleanup) of backups.
- Unified, web-based, touch-friendly, centralized management console to reduce management complexity.
- Unique! Protection for VMware vSphere ESX(i) and Microsoft Hyper-V hosts and VMs for complete protection of any virtual workload.
- VMware VM replication with WAN optimization for faster disaster recovery.
- Unique! Acronis Instant Restore (Run Backup as a VM) and vmFlashback for VMware & Hyper-V to reduce recovery time objectives (RTOs).
- SAN storage snapshots support for VMware backups to reduce ESXi resource utilization.
- Remote and automated bootable media for significant reduction of the RTO of remote systems and data centers.

# 3 Joining the Beta program

- 1. Go to the Acronis Backup 12 Advanced Beta web page: <u>https://www.acronis.com/en-us/business/backup/beta/</u>
- 2. Do one of the following:
  - If you have an Acronis account, click Log in, specify your user name and password, and then click Login.
  - If you do not have an Acronis account, fill in the registration form, and then click **Register**. You will receive and email message that contains your Acronis account user name and password.

A	<b>Acronis</b> Backup 12 Advanced Beta Program	Register to Jo Already have John	oin Beta Program an account? Log in Smith
New groundbre	aking features!	john.smith@mail.com	+1555555555
<ul> <li>Acronis Active Protection™, protecting systems from ransomware</li> <li>Roles and delegations for larger environments and amounts of data</li> </ul>		End User - Corporate	•
<ul> <li>Support of <b>21 platforms</b>, including Office 365<sup>®</sup>, VMware<sup>®</sup>, Hyper-V<sup>®</sup>, XenServer<sup>®</sup>, RHEV<sup>®</sup>, and Azure<sup>®</sup></li> </ul>		Company	501-1000 -
<ul> <li>Acronis Instant Restore<sup>™</sup>, delivering 15-second Recovery Time Objectives (RTO)</li> </ul>		United States of America	•
<ul> <li>Support of tape devices, deduplicated centralized disk storage, and Acronis Cloud Storage</li> </ul>		AZ	•
		RI	EGISTER
		By clicking «Register» you agree to	terms and conditions of the Beta Program.

3. As a result, you will see the web page where you can download the installation files.

# 4 Preparation and requirements

The evaluation implies that all Acronis Backup 12 Advanced components, including the management server, are installed locally in your environment (test lab). Therefore, there is no requirement for an Internet connection, although it is recommended.

### **Management Server**

To install Acronis Backup Management Server, we recommend a physical or virtual machine running Windows Server 2008 or later. Operating systems starting with Windows 7 are also supported.

- The machine must have minimum 4 GB of RAM and 5 GB of free space on the system volume.
- Acronis software must not be installed on this machine.
- You can use various virtualization software to run the virtual machine: VMware, Virtual PC, and so on. In Windows 8.x or 10 Enterprise, you can enable the Hyper-V role and use a Hyper-V virtual machine for testing.

### **Backup location**

To store backups, we recommend a network shared folder with at least 30 GB of free space.

- Share this folder for read/write for **Everyone** by using Windows file sharing (the SMB protocol).
- Ensure that this folder can be accessed from the machines that you will back up.

### 4.1 Installation

Click **Full installer for Windows 64-bit** to download the setup program that contains the management server.



### 4.1.1 Installing the management server

In this step, you will install the management server. Also, you will start the trial period for the software, so that you can use the fully functional product, without entering license keys.

The management server is a central point for managing your backups. Backups are performed by agents, which need to be installed on each machine that you want to back up.

- 1. Log on as an administrator and start the Acronis Backup setup program.
- 2. [Optional] To change the language the setup program is displayed in, click **Setup language**.
- 3. Accept the terms of the license agreement and select whether the machine will participate in the Acronis Customer Experience Program (CEP).
- 4. Leave the default setting Install a backup agent and Acronis Backup Management Server.

Acronis Welcome to Acronis Backup Setup	<ul> <li>Install a backup agent and Acronis Backup Management Server The management server is required to configure and manage backups.</li> </ul>	< Contract of the second secon
	<ul> <li>Install a backup agent The backup agent must be registered on the management server.</li> <li>Install Acronis Backup</li> <li>Customize installation settings</li> <li>Create .mst and .msi files for unattended installation</li> </ul>	

- 5. Click Install Acronis Backup to proceed with the installation.
- 6. After the installation completes, click **Close**. The backup console will open in your default web browser.

#### 7. Click Enter user name and password.

Acronis Backup		
Sign in as current Windows user		
SIGN IN		
》 Enter user name and password		

8. Enter the user name and password, and then click **Sign in**. Use a local or domain account with administrative privileges on the machine where the management server is installed.

*Important* Please remember that you are logging in to the system deployed on your premises. Do not try to use your Acronis account to log in!

A	cronis Backup
	Sign in
USER NAME	What account do l use
corp\ad	ministrator
PASSWORD	•
	SIGN IN
	Sign in as current Windows user

9. Click **Devices**, and then click **Start trial**.

Acronis Backup	All machines	
DASHBOARD	Q Search	Backup
	Type Name හි	Recovery
All machines	<b>VM</b> tw-win-2012-4	Active Protection
Machines with agents		
PLANS		
		() Alerts
(i) ABOUT	i A license is required Start trial or add license keys	×

- 10. Do one of the following:
  - If the machine is connected to the Internet, specify your Acronis account, and then click Sign in.
  - If the machine is not connected to the Internet, click **Start the trial without activation**.

×	Start trial	
	<ul> <li>Please sign in to your Acronis account to get:</li> <li>Fully-functional product for the 30-day trial period</li> <li>Free 30-day cloud backup subscription</li> </ul>	
	Free technical support	
	Enter email and password for your Acronis account	
	johm.smith@mail.com	
	•••••	
	SIGN IN	
	Forgot password? Create account	
	There is no Internet connection.	
	You can activate the trial from another device by visiting https://go.acronis.com/backup/trial	
	Start the trial without activation The free cloud subscription and technical support will not be available.	

# 5 Evaluation scenarios

### 5.1 Backup console views

The backup console has two views: a tile view and a table view. To switch between the views, click the corresponding icon in the top right corner.

The tile view supports a small number of machines.

Acronis Backup	All machines		?			
🚰 DASHBOARD		tw-win-2012			錼	
	VM	Status	Last backup	Next backup		
All machines				_		
Machines with agents		ENABLE BACKOP RECOVER				

The table view is enabled automatically when the number of machines becomes large.

Acronis Backup	All machines		ADD	
DASHBOARD	Q Search			🕁 Backup
	Type ↑ Name	Status	ŝ	Recovery
All machines	VM tw-win-2012	🚫 Not protected		Active
Machines with agents	VM AR2008HV	🚫 Not protected		Protection

Both views provide access to the same features and operations. This document describes access to operations from the table view.

### 5.2 Backup of entire machine and granular file recovery

In this scenario, you will back up the entire machine with the management server to a network share and recover a file from this backup. Using a similar procedure, you can recover volumes, disks, or the entire machine.

### To back up the machine

1. In the backup console, select the machine, and then click **Backup**.

Acronis Backup	All machines	⊟ ? ①	
DASHBOARD	Q Search	Backup	
L DEVICES	Type Name ↑	Recovery	
All machines	VM tw-win-2012	Active	
		• Protection	

The software displays a new backup plan template.

	× tw-win-2012		
*	New backup plan 🖉		<u>م</u>
⊅	WHAT TO BACK UP	Entire machine 🗸	
3	APPLICATION BACKUP	Disabled	
ы	WHERE TO BACK UP	Specify	
	SCHEDULE	Monday to Friday at 23:00	
	HOW LONG TO KEEP	Monthly: 6 months Weekly: 4 weeks	
()	ENCRYPTION	Off	0
Ŧ	CONVERT TO VM	Disabled	
$\otimes$	CREATE	]	

 Click Where to backup > Network folder, and then browse to the shared folder you created earlier or enter its path. If prompted, specify the user name and password for the shared folder. Click Add.

× Add location	Specify folder
Cloud Storage	Manage with storage node
Local folder	
Network folder	
Storage node	
SFTP	
oo Tape	

- 3. On the backup plan panel, click **Create**.
- 4. Click Run now.

The full backup starts immediately. The software displays the backup progress.

	× tw-win-2012
∻	ADD BACKUP PLAN
⊅	Applied backup plans
F	Entire machine to \\share\folder
69	WHAT TO BACK UP Entire machine
Ŀ	WHERE TO BACK UP \\share\folder
0	SCHEDULE Monday to Friday at 23:00
0	HOW LONG TO KEEP Monthly: 6 months Weekly: 4 weeks
+ ×	O Backing up (15%) Cancel
	Next backup Mar 27, 2017, 23:00 RUN NOW

- 5. Wait until the backup is complete.
- Click the down arrow next to **Run now**, and then click **Incremental**. The incremental backup starts immediately.

*To learn more about backup, refer to:* <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#38164.html</u>.

### To recover a file from a backup

1. In the backup console, select your machine, and then click **Recovery**.

2. Select the recovery point, and then click **Recover > Files/folders**.



- 3. Browse to the required file or use search to locate it. You can use one or more wildcard characters (\* and ?).
- 4. Select the file that you want to recover.
- 5. Click Recover.

Acronis Backup	tw-w	vin-2012	> C: > Us	ers > Administ	rator > Downloads	?
← Back	Q 9	Search				🕐 Recover
2017		Туре	Name	Size	Last change 🕹	Download
MARCH		D	deskt	282 bytes	Feb 05 10:33	
23 THURSDAY		D	MSEI	13.6 MB	Feb 04 17:58	
23:00	~	D	Firefo	43.0 MB	Feb 04 17:44	
16:53						

6. In Path, select Custom location.

R	ECOVER TO
tv	v-win-2012-4
P	ATH
	Original location
	Custom location
	Select where you want to recover the files to
	Browse
_	
	START RECOVERY 203 RECOVERY OPTIONS

7. Click **Browse**, and then specify a destination for the recovered files.

- 8. Click Start recovery.
- 9. Select one of the file overwriting options:
  - Overwrite existing files
  - Overwrite an existing file if it is older
  - Do not overwrite existing files

10. Click **Proceed** to start the recovery.

The recovery progress is shown on the **Activities** tab.

*To learn more about recovery, refer to:* <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#36648.html</u>.

# 5.3 Application-aware backup and SQL database recovery

In this scenario, you will install Agent for Windows and Agent for SQL, back up the entire machine with application-aware backup, and recover a database from this backup to a local folder.

Application-aware backup is a disk-level backup that also collects the application metadata. This metadata enables browsing and recovery of the application data without recovering the entire disk or volume. The disk or volume can also be recovered as a whole.

### To install Agent for Windows and Agent for SQL

- 1. Ensure that the prerequisites for application-aware backups are met. Refer to: <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#36264.html</u>.
- 2. Click Devices, and then click the Add button above the list of devices.

Acronis Backup	All machines	ADD	$\square$	?	
DASHBOARD	Q Search				
	Type Name ↓				ŝ
All machines	VM tw-win-2012				
Machines with agents					

- 3. Click Microsoft SQL Server.
- 4. Specify the host name or IP address of the machine where Microsoft SQL Server is installed and the credentials of an account with administrative privileges on that machine.



5. Click Add.

The agents will be silently deployed to the selected machine. The machine will appear under **Devices** on the **Microsoft SQL** tab.

If you have problems with the installation, refer to the preparatory steps described at: <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#36533.html</u>.

#### To back up the machine

- 1. Click All machines, and then select the machine where Microsoft SQL Server is installed.
- 2. Click Backup.

The software displays a new backup plan template.

	× tw-win-2012					
*	New backup plan 🗶 🔅					
♪	WHAT TO BACK UP Entire machine 🗸					
F	APPLICATION BACKUP Disabled					
69	WHERE TO BACK UP Specify					
	SCHEDULE Monday to Friday at 23:00					
	HOW LONG TO KEEP Monthly: 6 months Weekly: 4 weeks					
1	ENCRYPTION Off ()					
Ŧ	CONVERT TO VM Disabled					
$\otimes$	CREATE					

3. Click Application backup, and then click Yes under Microsoft SQL Server.

×	Application backup
	Microsoft SQL Server
	Allow recovery of SQL Server databases without recovering the entire disk.
	No

- 4. If prompted, specify the credentials of a domain account with administrative privileges on the machine where Microsoft SQL Server is installed.
- 5. Click Where to backup, and then do one of the following:
  - Select the shared folder you created earlier, and then click **Done**.
  - To add a new backup location, click Add location.

×	Select locations
Q	Search by name and path
	\\share\folder\
	301 GB used of 466 GB
+	Add location
	DONE

- 6. On the backup plan panel, click **Create**.
- 7. Click Run now.

The backup starts immediately. The backup progress is shown on the Activities tab.

8. Wait until the backup is complete.

To learn more about application-aware backup, refer to: <u>http://dl.managed-</u>protection.com/u/backup/help/12U4Beta/user/en-US/index.html#35509.html.

### To recover a database from the backup

- 1. Select the machine that you backed up, and then click Recovery.
- 2. Select the recovery point, and then click **Recover > SQL databases**.



- 3. Select the data that you want to recover. Double-click an instance to view the databases it contains.
- 4. Click Recover as files.



5. Click **Browse**, select a local folder to save the files to, and then click **Done**.



#### 6. Click Start recovery.

The recovery progress is shown on the Activities tab.

To learn more about recovery of SQL databases, refer to: <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#33592.html</u>.

### 5.4 Virtual machine backup and recovery

In this scenario, you will install Agent for Hyper-V, back up a Hyper-V virtual machine, and recover it to a new virtual machine.

If you have a VMware ESXi environment, you can perform similar steps for VMware ESXi virtual machines.

### To install Agent for Hyper-V

1. Click **Devices**, and then click the **Add** button above the list of devices.

Acronis Backup	All machines	ADD	?	
DASHBOARD	<b>Q</b> Search			
	Type Name ↓			ŝ
All machines	VM tw-win-2012			
Machines with agents				

- 2. Click Hyper-V.
- 3. Specify the host name or IP address of the Hyper-V host and the credentials of an account with administrative privileges on the machine.

× Add Hyper-V host	
IP address or name of a Hyper-V host:	
hyperv.corp.acronis.com	Browse
corp\admin	
•••••	
ADD	

4. Click Add.

The agent will be silently deployed to the selected machine. The virtual machines will appear under **Devices** on the **Hyper-V** tab.



If you have problems with the installation, refer to the preparatory steps described at: <u>http://dl.managed-protection.com/u/backup/help/12U4Beta/user/en-US/index.html#36533.html</u>.

### To back up a Hyper-V virtual machine

- 1. Select the virtual machine that you want to back up.
- 2. Click Backup.

The software displays a new backup plan template.

	× w2k3x86	
<	New backup plan 🗶	¢3
ঌ	WHAT TO BACK UP Entire machine 🗸	
ы	WHERE TO BACK UP Specify	
Ŀ	SCHEDULE Monday to Friday at 2	23:00 🛈
()	HOW LONG TO KEEP Monthly: 6 months Weekly: 4 weeks	
—	ENCRYPTION   Off	0
÷	CONVERT TO VM Disabled	
	CREATE	

- 3. Click **Where to backup**, and then do one of the following:
  - Select the shared folder you created earlier, and then click **Done**.
  - To add a new backup location, click **Add location**.

×	Select locations
Q	Search by name and path
	\\share\folder\ 301 GB used of 466 GB
+	Add location

4. On the backup plan panel, click **Create**.

Click Run now.
 The backup starts immediately.

6. Click Activities.

#### The software shows the backup process details.



7. Wait until the backup is complete.

### To recover a virtual machine

- 1. Select the virtual machine that you backed up, and then click **Recovery**.
- 2. Select a recovery point, and then click **Recover > Entire machine**.



- 3. The software automatically selects the original machine as the target machine. Click **Target machine**, and then do the following:
  - a. Click New machine.
  - b. Select the Hyper-V host.
  - c. In Machine name, specify the new machine name.

#### d. Click OK.

× Select target machine
Microsoft Hyper-V 🗸
New machine     Existing machine
AR2008HV
Machine name:
My recovered Hyper-V VM
OK Cancel

4. Click Start recovery.

Virtual machine	
TARGET MACHINE My recovered Hyper-V VM or	AR2008HV New
PATH C:\ProgramData\Microsoft\W	/indows\Hyper-V
DISK MAPPING Disk 1 → C:\ProgramData\Mi GB	crosoft\Windows\Hyper-V, 20.0
VM SETTINGS Memory: 512 MB Virtual processors: 1	
Network adapters: 1	

The recovery progress is shown on the Activities tab.

The recovered machine is powered off by default, because the original machine may still be online and so there is a chance that the original machine's clone will appear on the network. To be on the safe side, power on the recovered virtual machine manually, after you take the necessary precautions.

### 5.5 Acronis Instant Restore

In this scenario, you will run a Hyper-V virtual machine from a backup of a machine running Microsoft SQL Server. You can use the backup created in the "Application-aware backup and SQL database recovery" (p. 15) scenario.

If you have a VMware ESXi environment, you can perform similar steps to run a VMware ESXi virtual machine from a backup.

A virtual machine can be created from a disk-level backup that contains an operating system. This operation, also known as Instant Restore, enables you to spin up a virtual server in seconds. The virtual disks are emulated directly from the backup and thus do not consume space on the datastore (storage). The storage space is required only to keep changes to the virtual disks.

### To run a virtual machine from a backup

- 1. Select a backed-up machine, click **Recovery**, and then select a recovery point.
- 2. Click Run as VM.



The software automatically selects the host and other required parameters.

3. Click Run now.





As a result, the machine appears in the **All machines** list with the following icon:

4. In Hyper-V Manager, right-click the machine running from a backup, and then click **Connect**.

Virtual Machines						
Name ^	State	CPU Usage	Assigned Memory	Uptime	Status	
HV12_CentOS7	Off					
HV12_CentOS6.7x64	Off					
HV12_RHEL6.7x64	Off					
HV12_RHEL7.2	Off					
HV12_Ubuntu15x64	Off					
HV12_Win2003 R2	Running	0%	1024 MB	02:43:45		
HV12_Win2003 R2_temp	Connect		1024 MB	00:01:11		
HV12_Win2008 R2	connecta.					
HV12_Win2012 R2	Settings					
HV12_Win2012R2Gen2	Turn Off					
	Shut Down					
	Save					
	Paura					
	Pause					
	Reset					
	Checkpoint					
Chastenaints	Move					
checkpoints	Export					9
	Rename		ected virtual machine has r	an checknoints		
	Enable Replicati	on		io onosigonito.		
	Help					

5. Verify that the machine running from a backup functions properly. For example, start SQL Server Management Studio and connect to a SQL Server instance that is running on the machine.

### To delete a virtual machine that is running from a backup

- 1. Select a machine that is running from a backup.
- 2. Click Delete.

Acronis Backup	All machines	ADD	⊟ ? ❶
DASHBOARD	Q_temp	× Search	0verview
	Type Name ↓	Ś	Activities
All machines	MS SQL Server_temp		() Alerts
Machines with agents			
Hyper-V			+ Add to group
Microsoft SQL			🚫 Delete

3. Confirm your decision.

The machine is removed from the backup console. It is also removed from the Hyper-V inventory and storage. All changes that occurred to the data while the machine was running are lost.

*To learn more about Instant Restore, refer to: <u>http://dl.managed-</u> <u>protection.com/u/backup/help/12U4Beta/user/en-US/index.html#38848.html</u>.* 

# 5.6 Using the Dashboard

In this scenario, you will inspect the current state of your backup infrastructure by using the **Dashboard** tab and customize a widget.

The dashboard provides a number of customizable, dynamic widgets that give an overview of your backup infrastructure and backed-up devices. The widgets are updated in real time.

### To view the dashboard

1. Click Dashboard.



2. Inspect the **Resources status** widget. It shows a summary of protection status of all protected devices. Click a status view the list of devices that have this status.



### To customize a widget

You can customize the **Resources status** widget so that it shows the status of virtual machines only. On this widget, next to **Resources**, click **All**, and then select **Virtual machine**.



### 5.7 Group management

In this scenario, you will create a group of machines, apply a backup plan to this group, run the plan, and then check the plan execution status.

Groups are designed for convenient managing a large number of machines. You can apply a backup plan to a group rather than to each machine separately. Once a new machine appears in the group, the plan is automatically applied to it.

You can create static and dynamic groups. A static group content never changes unless you explicitly add or delete a machine. Dynamic groups are populated automatically according to the search criteria you specify.

Only machines of the same type can be added to a group. For example, under **Hyper-V** you can create a group of Hyper-V virtual machines. Under **Machines with agents**, you can create a group of machines with installed agents. Under **All machines**, you cannot create a group.

Besides machines, you can also create groups of Exchange databases, Exchange mailboxes, SQL Server databases, and Office 365 mailboxes.

In this scenario, we will create a static group of virtual machines.

### To create a group of machines

- 1. Click All machines or Hyper-V, and then select a Hyper-V virtual machine.
- 2. Click Add to group.

Acronis Backup	All machines	
🕂 DASHBOARD	Q Search	Backup
DEVICES	Type Name ↓	Recovery
All machines	₩7x86	
Machines with agents	w2k3x86	
- Hyper-V	VM tw-win-2012	Activities
	Test	() Alerts
PLANS	centos6.7	
Гстана васкиря	VM AR2008HV	+ Add to group

3. Click the gear icon next to the Hyper-V group, and then click New group.



4. Specify the name of the new group, and then click **OK**.



5. Select the newly created group, and then click **Done**.

× Add to group	
Hyper-V	
Important VMs	ŝ
DONE	

- 6. Add another machine to the newly created group:
  - a. Select another Hyper-V virtual machine.
  - b. Click Add to group.
  - c. Select the group, and then click **Done**.
- 7. Under **Devices**, go to the **Hyper-V** section.

8. The software displays the list of groups, including the built-in groups (All virtual machines, Hosts and clusters), and the newly created group. The new group contains two machines.

Ac	<b>ronis</b> Backup		<	Important VMs	ADD		?	
ß	DASHBOARD	– Hyper-V		<b>Q</b> Search	(	Dele	te grou	p
Ð	DEVICES	All virtual machines		Type Name ↓				
	4 H	• Hosts and clusters		W7x86				
	All machines	Important VMs	ŝ	wywex w2k3x86				
	Machines with agents							
	Hyper-V							

### To apply a backup plan to a group of machines

1. In the groups tree, select the **Hyper-V** group.

The software displays the list of child groups.

2. Select the newly created group, and then click **Backup**.

Ac	<b>ronis</b> Backup		<	Hyper-V	l	ADD	?	
ß	DASHBOARD	– Hyper-V	\$ <u>\$</u>	<b>Q</b> Search		🔶 E	Backup	
Ð	DEVICES	∞ All virtual machines		Туре	Name $\Psi$	60 (	Overview	
	All machines	Hosts and clusters			Important VMs		) el et e	
	Machines with agents	Important VMs			Hosts and clusters		Jelete	
	Hyper-V				All virtual machines			

The software displays an existing backup plan from one of the previous scenarios. You can apply this backup plan or create a new one.

× Important VMs	
Choose a backup plan	Create new
Entire machine to \\s	share\folder 😣 🔨
WHAT TO BACK UP	Entire machine
WHERE TO BACK UP	\\share\folder
SCHEDULE	Monday to Friday at 23:00
HOW LONG TO KEEP	Monthly: 6 months Weekly: 4 weeks
APPLY	

- 3. Click Apply.
- 4. Click **Run now**. The backup will be started on all machines to which the plan is applied.

### To check the plan execution status

1. Click the **Plans** tab, and then click **Backup**.

2. Select the backup plan, and then click the diagram in the **Status** column. The software displays the plan execution status.

Acronis Backup		?
DASHBOARD	Q Search	- Create plan
	□ Name ↑ Status OK 1	<b>∢</b> ← Import
E PLANS	Entire machine to \\share\folder\	Details
Backup		Run now

## 5.8 Acronis Active Protection

In this scenario, you will enable Acronis Active Protection on a machine, emulate an activity that encrypts some test files, and see how Acronis Backup handles the situation.

**Note** The encryption only affects the files located in the test folder. After the evaluation is finished, you can safely delete this folder from the machine.

Acronis Active Protection protects your system from malicious software (also known as ransomware) that encrypts files and demands a ransom for the encryption key. When enabled, Active Protection monitors the processes running on the machine. When a third-party process that tries to encrypt files is detected, Active Protection generates an alert, stops the process and reverts the file changes by using the service cache.

Active Protection is available for machines running Windows Vista and later, Windows Server 2008 and later. Agent for Windows must be installed on the machine.

### To enable Acronis Active Protection on a machine

- 1. Under All machines, select the machine for which you want to enable Acronis Active Protection.
- 2. Click Active Protection.



3. Click Apply.

Active Protection Plan <sup>①</sup>					
ACTION ON DETECTION	Revert using cache				
HARMFUL PROCESSES	None				
TRUSTED PROCESSES	None				
FOLDER EXCLUSIONS	None				
Apply					

**Note** The plan settings cannot be modified in the Beta. This functionality will be available in the final release.

### To emulate an encryption activity

1. Download the archive: <u>http://dl2.acronis.com/u/EncryptionTest/FileEncryptionTestSet.zip</u>

2. Unpack the archive to a local folder of the machine for which Acronis Active Protection is enabled.

i 🛞 🔹 🕇 🎩 🕨	File_encryption_test_set	✓ C	Search File_encry	ption_test_set
Favorites	Name	Date modified	Туре	Size
E Desktop	📄 1.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
\rm Downloads	2.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
📃 Recent places	3.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
	🖹 4.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
🧃 Libraries	5.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
📑 Documents	🖹 6.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
🎝 Music	📄 7.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
📔 Pictures	🖹 8.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
📑 Videos	🖹 9.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
	🖹 10.docx	11/13/2016 6:22 PM	Office Open XML	528 KB
📮 Computer	🚳 run_xor.cmd	11/9/2016 6:24 PM	Windows Comma	1 KB
	💷 xor_file.exe	11/6/2016 8:21 PM	Application	56 KB
📮 Network	📧 xor_file1.exe	11/6/2016 8:21 PM	Application	56 KB

The archive contains the encryption tool and several .docx files.

3. Double click the run\_xor.cmd file.

The tool starts encrypting the .docx files in the folder.

4. Check the **Alerts** tab in the backup console. The software generates an alert, stops the test file encryption process, and then reverts the file changes by using the service cache (temporary copies of the files created by the Acronis Active Protection service).

Acronis Backup	Alerts <	Suspicious activity is dete	ected 🗄 🕐 🛈
DASHBOARD	() All alerts 1	1 alert	Clear all
	8 Critical	Suspicious activity is detected	Mar 27, 2017, 14:41
Plans	Suspicious activity is detected 1	Device	tw-win-2012
		Process	C:\Users\Administrator\Desktop \File_encryption_test_set\xor_file1.exe
G BACKUPS		Action	Revert using cache
		Affected files	C:\Users\Administrator\Desktop \File_encryption_test_set\10.docx C:\Users\Administrator\Desktop \File_encryption_test_set\9.docx C:\Users\Administrator\Desktop
			\File_encryption_test_set\3.docx C:\Users\Administrator\Desktop
1 ALERTS			C:USers\Administrator\Desktop \File_encryption_test_set\2.docx C:USers\Administrator\Desktop \File_encryption_test_set\7.docx C:USers\Administrator\Desktop
ర్టస్తి settings			VFIle_encryption_test_set\1.docx C:\Users\Administrator\Desktop VFIle_encryption_test_set\6.docx C:\Users\Administrator\Desktop VFIle_encryption_test_set\5.docx C:\Users\Administrator\Desktop VFIle_encryption_test_set\8.docx
POWERED BY ACRONIS ANYDATA ENGINE		Support	Clear

### 5.9 Off-host replication of backups to cloud storage

In this scenario, you will schedule replication of backups from a network share to the cloud storage. The replication plan will be executed by an agent different from the one(s) that create the backups. This capability is designed to relieve the production servers of unnecessary CPU load.

### To create a backup replication plan

- 1. Click Plans > Backup replication.
- 2. Click Create plan.



The software displays a new plan template.

AGENT	Specify
ITEMS TO REPLICATE	Specify
DESTINATION	Specify
HOW TO REPLICATE	All backups 🗸
SCHEDULE	Monday to Friday at 23:00
RETENTION RULES	Monthly: 6 months Weekly: 4 weeks Daily: 7 days Hourly: 24 hours
BACKUP PASSWORD	Off

3. Click Agent, select the agent that will perform the replication, and then click OK.

You can select any agent that is registered on the management server and has access to the backup location. To showcase this scenario, we recommend that you select an agent different from the one that executes the backup plan.

×	Select agent
Q	Search by name
-	tw-win-2012
	AR2008HV
	OK Cancel

- 4. We will configure the plan to replicate the entire backup location; in our case, the shared folder. Click **Items to replicate**, and then do the following:
  - a. Click Add.

× Locations		Switch to backups
		+ Add
	No locations	
		DONE

The software displays the previously used backup locations.

b. Select the shared folder that contains backups, and then click **Done**.



c. Click **Done**. If prompted, specify the user name and password for the shared folder.

#### 5. Click Destination.

6. Click Add location > Cloud storage.



7. Specify the credentials of your Acronis account, and then click **Sign in**.

×	Add location	Cloud storage	
$\bigcirc$	Cloud Storage	Enter amail and paceword for your Acronic account	
ß	Local folder	iohn.smith@mail.com	
₽	Network folder	•••••	
		SIGN IN	
		Forgot password? Create account	

8. On the new plan panel, click **Create**.

### To run the validation plan

- 1. Under **Plans > Backup replication**, select the newly created plan.
- 2. Click Run now.



### To check the plan execution status

1. Click Activities.

2. Click the running activity to view the details. The **Device** field shows the agent that is executing the plan.



- 3. Wait until the replication is finished.
- 4. Click the **Backups** tab.
- 5. In **Locations**, select **Cloud Storage**. Browse the cloud storage to ensure that the backups were replicated.

# 5.10 Off-host validation of backups by calculating checksum and Instant Restore

In this scenario, you will schedule validation of backups that are stored on a network share. The software will simultaneously use two validation methods:

- Calculating a checksum for every data block saved in a backup.
- Running a Hyper-V virtual machine from a backup, and then connecting to Hyper-V Heartbeat Service to ensure that the operating system has started successfully. This method works only for disk-level backups that contain an operating system.

### To create a validation plan

- 1. Click Plans > Validation.
- 2. Click Create plan.

Acronis Backup		?
DASHBOARD	Q Search	+ Create plan
	Name	⊱ Import
PLANS	There are no items to show in this view.	
Backup		
Bootable media		
VM replication		
Cleanup		
Backup replication		
Validation >		

The software displays a new plan template.

New validation plan 🗶		
AGENT	Specify	
ITEMS TO VALIDATE	Specify	
WHAT TO VALIDATE	All backups 🐱	
HOW TO VALIDATE	Checksum verification	
SCHEDULE	Monday to Friday at 23:00	
BACKUP PASSWORD	Off Off	
CREATE	CANCEL	

3. Click Agent, select Agent for Hyper-V that will perform the validation, and then click OK.



- 4. We will configure the plan to validate the entire backup location; in our case, the shared folder. Click **Items to validate**, and then do the following:
  - a. Click Add.

× Locations		Switch to backups
		┿ Add
	No locations	
		DONE

The software displays the previously used backup locations.

b. Select the shared folder that contains backups, and then click **Done**.

×	Select locations
Q	Search by name and path
	\\share\folder\
	301 GB used of 466 GB
+	Add location
	DONE

- c. Click **Done**. If prompted, specify the user name and password for the shared folder.
- 5. To configure the plan to use both validation methods, click **How to validate**, and then do the following:

a. Enable the **Run as a virtual machine** switch.

× How to validate	
CHECKSUM VERIFICATION	On
RUN AS VIRTUAL MACHINE	On On
TARGET MACHINE	Specify
VM HEARTBEAT	On On

- b. Click Target machine.
- c. In the virtual machine type selector, select Microsoft Hyper-V.
- d. Select the Hyper-V host where the virtual machines will run, and then click **OK**.

× Select target host
Microsoft Hyper-V 🗸
AR2008HV
Machine name:
[Machine Name]_validate
ОК Cancel

e. Click **Path**, specify a folder on the Hyper-V server where the machines will be located, and then click **Done**.

× How to validate			
CHECKSUM VERIFICATION	On On		
RUN AS VIRTUAL MACHINE	On On		
TARGET MACHINE	[Machine Name]_validate		
РАТН	C:\VMs\		
PROVISIONING MODE	Dynamically expanding 🗸		
VM HEARTBEAT	On On		
VM SETTINGS	Virtual processors: Dynamic Memory: Dynamic 100% Network adapters: 0		
	DONE		

6. On the new plan panel, click **Create**.

### To run the validation plan

- 1. Under **Plans** > **Validation**, select the newly created plan.
- 2. Click Run now.

Acronis Backup		?
Dashboard	Q Search	+ Create plan
	Name	K Import
	New validation plan	
		Go Details
Backup		( Run now
Bootable media		Ŭ
VM replication		Activities
Cleanup		() Alerts
Backup replication		
Validation		

### To check the plan execution status

1. Click Activities.

The software shows two validation activities per backup - one for each of the validation methods.

2. You can click an activity to view its details.

The **Device** field shows the agent that executed the activity.



3. Wait until the validation is finished for all backups. If some of the backups are corrupted, the software will generate alerts.

### 5.11 Tape management

*In this scenario, you will back up a machine running Windows to a locally attached tape device and recover a folder from this backup.* 

### Before backing up

- 1. Ensure that the tape device is attached to the machine in accordance with the manufacturer's instructions.
- 2. If third-party software with proprietary tape management tools is installed on the machine, uninstall or deactivate this software.
- 3. When detecting a tape device, Acronis Backup disables the device from Windows Removable Storage Manager (RSM). If the machine has third-party software that uses RSM, make sure that neither a user nor third-party software enables the device in RSM until the evaluation is completed.
- 4. Load tapes to the tape device.

The total capacity of tapes that you need roughly equals the total occupied space of the machine's disks.

*Warning* The tapes will be overwritten. Please ensure that you do not need the data stored of these tapes.

- 5. In **Settings** > **Tape management**, expand the node with the machine name, and then click **Tape devices**.
- 6. Ensure that the attached tape device is displayed. If it is not, click **Detect devices**.

Tapes <	tw-win-2012 > Tape devices	?
- <b>t</b> w-win-2012-4	Q Search	Detect devices
– 📴 Tape devices	Type Name State 👸	
HP MSL G3 Series 3.00 (18O3700	HP MSL G3 Ser	
+ 🛅 Tape pools		

- 7. If your tape device is a stand-alone drive, skip this step. Otherwise, do the following:
  - a. Click the tape device name.
  - b. Click Inventory to detect the loaded tapes.

Tapes <	tw-win-2012 $ ightarrow$ Tape devices $ ightarrow$ HP MSL G3 Series 3.00 (18037	70069P) (?) (I)
– 🛄 tw-win-2012	Q Search	Inventory
- Tape devices	🔄 Type 🕈 Name 🤤 State	(i) Info
HP MSL G3 Series 3.00 (180370	Slot 2	
+ 🗃 Tape pools	Slot 3	(L) Show activities

c. Keep Full inventory turned on. Enable the Move unrecognized or imported tapes to the 'Free tapes' pool switch, and then click Perform inventorying now. Full inventorying of an entire tape device may take a long time.

× Inventorying		
FULL INVENTORY		Ū
MOVE UNRECOGNIZED OR IMPORTED TAPES TO THE 'FREE TAPES' POOL		0
PERFORM IN	VENTORYING NOW	

As a result, the loaded tapes are detected and moved to the Free tapes pool.

### To back up the machine

Perform the backup as described in "Windows: Backup and granular file recovery" (p. 11) with the following specifics:

• When specifying the backup location, select **Tape pool 'Acronis'**.

×	Where to back up
Q	Search by name and path
þ	\\share\folder
	300 GB used of 466 GB

 Click the gear icon to modify the backup options, click Tapes, and then select the Enable file recovery from disk backups stored on tapes check box.

× Backup options	
Q Search by name	Enable file recovery from disk backups stored on tapes
Pre-post commands	<ul> <li>Return a tape back to the same slot after backup plan completed</li> <li>Eject tapes after backup plan completed</li> </ul>
Pre-post data capture commands	Overwrite a tape in the stand-alone tape drive when creating a full backup
Scheduling	Chaosa davisa usad far backing up
Sector-by-sector backup	All devices
Splitting	Use tape sets within a tape pool chosen for the backup plan
Tapes	• Use distinct tape set for each: choose a template

### To recover a folder from the backup

- 1. In the backup console, select your machine, and then click **Recovery**.
- 2. Select the recovery point.
- 3. The software displays the tapes on which the backup is stored. Ensure that these tapes are present in the tape device.
- 4. Click **Recover** > **Files/folders**.



5. Follow the recovery steps described in "Windows: Backup and granular file recovery" (p. 11), starting from step 3.

## 5.12 Reporting

In this scenario, you will configure the email notification settings, generate a summary report about your backup infrastructure, send the report to the specified email address, and then schedule sending the report.

You can specify a custom SMTP server for sending email notifications from the management server. For example, it is possible to use Microsoft Exchange Server that is installed on your premises, or your Office 365 mailbox.

For simplicity, we recommend that you use an existing or create a new account in the Gmail email service. The **Less secure apps** setting must be turned on in this Gmail account. For more information, refer to <u>https://support.google.com/accounts/answer/6010255</u>.

### To configure the email notification settings

1. Click Settings > System settings > Email server.

Email server		?	
Email service			
Gmail			~
The 'Less secure apps' setting must	be turned on in your	Gmail acco	ount.
Account that will be used to send m	essages		
acronis.beta@gmail.com	•••••		
Sender (shown in the From field)			
user@example.com			
SEND TEST MESSAGE			

- 2. In Email service, select Gmail.
- 3. Specify the credentials of an account that will be used to send the report.
- 4. Leave the Sender field empty. This setting is not effective when using the Gmail email service.
- 5. Click Save.

### To generate and send a summary report

1. Click the Reports tab.

### 2. Click Summary.

Acronis Backup	Reports	0
🔂 DASHBOARD	Q Search	+ Create report
	Name ↓ Schedule Recipients	Q Open
	Alerts	
	Archive	Send now
Ф <u></u> васкирз	Current Status	Download
	Daily Activity	ស្ត្រី Settings
	Locations	
	Summary	Clone

The software shows the summary report which includes the dashboard widgets and tables that provide historical data.

Acronis Backup	← Summ	ary							?	
🔂 DASHBOARD						🗹 Send 🛃	Download	🗘 Settings 🛛 🕂	- Add widget	:
	RESOURCES ST	ATUS			×	LOCATION STATUS				×
<b>PLANS</b>										
<b>Г</b> ВАСКИРS		2	ок <b>2</b>	Errors <b>O</b>		931.5	GB	Free space	3	
		Protected	Critical <b>O</b>	Warnings <b>0</b>		Total sp	ace	Total backup	size B	E
() ALERTS	PROTECTED RE	SOURCES								
ႏွိုင္ငံ SETTINGS	Resource status	: All Y Groupin	g: None Y							©
	Resource	Plan name	Target loc	Resource s	Last finisl	h Last succe	Last RP size	Total runs	Number o	of
	tw-w	Entire mac	275C127F	🕑 ОК	16.03.201	17 16.03.2017	0	2	1	
	tw-w	Entire mac	275C127F	🛛 ок	20.03.201	17 20.03.2017	0	5	4	
	tw-w	Entire mac	7E1CFFBF	🕑 ОК	17.03.201	17 16.03.2017	0	3	2	
	cent	Hyper-V V	4244E7FB	🕑 ОК	18.03.201	17 17.03.2017	0	4	3	
POWERED BY ACRONIS ANYDATA ENGINE										

3. Click Send.

4. Specify the recipient's email address.

#### 5. In File format, select PDF.

Send report	
Recipients	
File format	
PDF	~
SEND	CANCEL

- 6. Click Send.
- 7. Check the inbox of the email account that you specified in step 4.

### To schedule sending the summary report

- 1. Click Settings.
- 2. Enable the Send a scheduled report switch.
- 3. Select the Send by email check box.
- 4. In **Recipients**, specify the recipient's email address.
- 5. In **Schedule**, select the day of the month on which the report will be generated and sent.
- 6. In **Send at**, select the time when the report will be generated.

× Settings	
Send a scheduled report	
<ul> <li>Send by email</li> </ul>	
Recipients	
john.smith@mail.com	
Save to folder	
File format	
Excel and PDF	~
Schedule Select days of month	
30	~
Send at	
0:00 AM	*
SAVE	

# 6 Disclaimer

This document describes a future version of Acronis Backup 12 Advanced. Some features and functionality may not be present in technical previews, beta, or public versions. This document, or any related document on future developments, products and/or platforms directions, and functionality are all subject to change and may be changed by Acronis at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. This document is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. Technical changes and differences from the illustrations are reserved; errors are excepted.

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