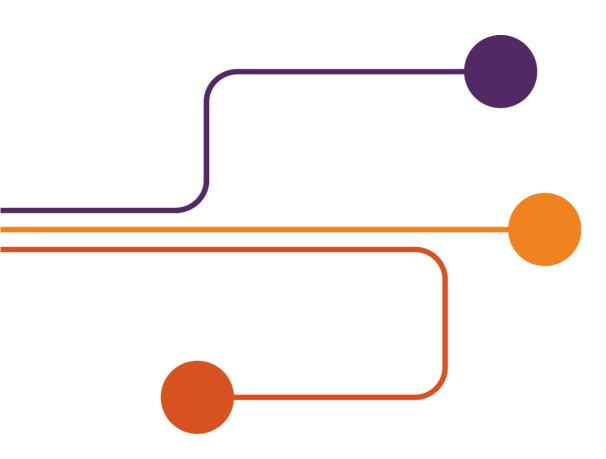


User Guide Atman Backup



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version PL 1.0

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Introduction.

This document presents the preparatory activities that should be carried out to effectively use the Atman Backup service. You will learn how to install a backup agent, how to use the administration panel, and how to perform administrative tasks in the field of backups, or how to set up backup tasks and restore data from backup. We also present the environmental and configuration conditions that should be met for the Atman Backup service to work effectively.

Administration panel

Access addresses

Main address of the administration panel:

https://panel.backup.atman.pl

Address used to download agent installation packages:

https://panel.backup.atman.pl/webconsole

Login data

Atman creates an account on the Atman Backup platform, and then activates it, whereas you automatically receive access to the administration panel by e-mail sent from **notify@backup.atman.pl**. One e-mail with contents in Polish and English contains information about the user name assigned to you as well as a link to set the password.

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Hello

An account for has been created for you. Click this link or copy and paste it into your web browser and enter the new credentials:

http://baas-t0-commsrv-INT.backup.atman.pl:80/webconsole/login/resetPassword.jsp?app=1&tk=

User name:

If you need help, please send an email to Administrator,

Thank you,

Your Administrator

Once you open the link, enter a password which must be at least 8-character long and should contain: one capital letter, one lower case letter, one numeric character, one special character.

Agent

Atman Backup enables agent-type backups. This means that in the server infrastructure protected by this service, software called an agent must be installed (iDA is the proprietary name used by Commvault - the software producer that we use as one of the Atman Backup components). There are several types of agents depending on the purpose (protected data sources): file system agent, database agent, application agent, VSA agent (for virtualized environments, used to perform snapshot backups of whole virtual machine files).

Backup types

Standard

As standard service, Atman provides agents for file system backup and a VSA agent (for snapshot backups of virtual machines).

Non-standard

Other types of backups - based on dedicated (e.g. MS SQL), application (e.g. Exchange) database agents, non-standard backup plans/policies (see next item) or other data storage medium (for example, tapes) may be prepared in the design mode after thoroughly discussing the scope and conditions with Atman.

Backup plans

Atman provides predefined - prepared and available by default - backup plans (backup policies). They are used to perform cyclical backup tasks, and they are determined by the frequency of task execution, start time, as well as data retention. Non-standard, individual plans may be prepared under the Custom Plan. The list of plans is presented in the table below:

	Plan	Scope of protection	Backup frequency	Start time	Data retention	Fees	
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Basic		524	To be chosen: 20.00	30 days	As part of the service (no additional fees)	
Standard	File system	Every 24 hours	00.00	60 days	(no additional rees)	
Premium			04.00	90 days	Upon on additional for	
Custom		Individua	lly agreed		Upon an additional fee	

Requirements

Network – Internet and TCP port

The agent and the platform communicate **via the Internet**, so the server infrastructure must have access to it. The transmission itself is encrypted, the data stored on the Atman Backup platform are also encrypted.

For those of your servers that are to be protected by the Atman Backup, an open **TCP 8403 port** is required, through which the agent (iDA) will communicate and exchange data with the infrastructure of the Atman Backup platform.

Operating systems

Supported OS*	Supported systems	Additional requirements
For Window	s systems	
Windows 2016 Windows Server 2016 (without Nano Servers) Windows 10 Windows Client 10 Windows Client 8.1 Windows Client 8 Windows Client 8 Windows Server 2012 R2 Windows Server 2012 R2 Windows Server 2008 Windows Server 2008 (minimum Service Pack 1) (without Core Editions) Windows Server 2003 Windows XP (minimum Service Pack 3)	File Allocation Table (FAT) file systems New Technology File Systems (NTFS) Encrypting File System (EFS) Transactional File Systems Distributed File System (DFS) Oracle ASM Cluster File System (Oracle ACFS) Resilient File System (ReFS) (for Windows Server 2012 and Windows: Server 2016) Nutanix Acropolis File Services (AFS)	Required disk space: /a/ 1 GB free space during the agent installation /b/ 500 MB free disk space for the log directory During the installation of the agent, the following are additionally installed automatically: /a/ .NET Framework 4.0 /b/ Microsoft Visual C++ 2017 Redistributable Package /c/ Microsoft Visual C++ 2013 Redistributable Package /c/ Microsoft Visual C++ 2010 Redistributable Package
Linux sys	stems	
Amazon Linux AMI 2017.03 (x86, x64) Asianux 4 (x64) Debian 5.x – 9.x (x86, x64) EulerOS 2.0 SP2, SP3 (x64) Fedora 27, glibc 2.26.x (x86, x64) Fedora 26, glibc 2.25.x (x86, x64) Fedora 25, glibc 2.24.x (x86, x64) Fedora 24, glibc 2.23.x (x86, x64) Fedora 23, glibc 2.22.x (x86, x64) Fedora 22, glibc 2.21.x (x86, x64) Fedora 21, glibc 2.20.x (x86, x64) Fedora 20, glibc 2.17.x (x86, x64) Fedora 19, glibc 2.17.x (x86, x64)	B-tree File System (Btrfs) Fraunhofer FS (FhGFS or BeeGFS) Extended 2 File System (ext2) Extended 3 File System (ext3) Extended 4 File System (ext4) General Parallel File System (GPFS)	Required disk space: /a/ 1 GB free space during the agent installation /b/ 500 MB free disk space for the log directory Volume managers: Veritas Volume Manager (VxVM) 5.0 + Logical Volume Manager (LVM)

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Fedora 18, glibc 2.16.x (x86, x64) Global File System Fedora 17, glibc 2.15.x (x86, x64) (GFS/GFS2) Elements that can be Fedora 16, glibc 2.14.x (x86, x64) GlusterFS File System protected with the help of an Fedora 15, glibc 2.13.x (x86, x64) (GlusterFS) agent: Fedora 14, glibc 2.13.x (x86, x64) Lustre File System Files with holes Fedora 13, glibc 2.12.x (x86, x64) (Clustered File System) Files with advisory locks Fedora 12, glibc 2.11.x (x86, x64) Moose File System Raw device files Fedora 11, glibc 2.10.x (x86, x64) (MooseFS) A maximum path level of 10 Fedora 10, glibc 2.9.x (x86, x64) Oracle Cluster File symbolic links pointing to Fedora 9, glibc 2.8.x (x86, x64) System (OCFS2) each raw device Fedora 8, glibc 2.7.x (x86, x64) Oracle ASM Cluster Files with names containing Gentoo 11, glibc 2.12.x (x86, x64) File System (Oracle non-ASCII characters as long Gentoo 10.1, glibc 2.6.x(x86, x64) ACFS) as the appropriate locales are Gentoo 10.0, glibc 2.9.x (x86, x64) Panasas ActiveScale Mandriva Linux 2010, glibc 2.10.x (x86, x64) File System (PanFS) Symbolic links that are Mandriva Linux 2009, glibc 2.9.x (x86, x64) Reiser File System browsed or manually added to the data contents NeoKylin Linux 6.5 (x64) (reiserfs) OpenSuSE 13.2, glibc 2.19 (x64) VERITAS File System Shares with Macintosh File OpenSuSE 13.1, glibc 2.18 (x86, x64) (VxFS) System data OpenSuSE 12.x, glibc 2.14+ (x86, x64) VERITAS Cluster File Files for which the file path or OpenSuSE 11.3, glibc 2.11.x (x86, x64) System (VxCFS) file name contains more than OpenSuSE 11.2, glibc 2.10.x (x86, x64) X9000 IBRIX File 1024 characters OpenSuSE 11.1, glibc 2.9.x (x86, x64) System (IBRIXFS) 6.x OpenSuSE 11.0, glibc 2.8.x (x86, x64) 'X' File System (XFS) Oracle Linux 7.x, glibc 2.17.x (x86, x64) Oracle Linux 6.x, glibc 2.12.x (x86, x64) Oracle Linux 5.x, glibc 2.5.x (x86, x64) RHEL/CentOS 7.x, glibc 2.17.x (x86, x64, Power PC) RHEL/CentOS 6.x, glibc 2.12.x (x86) RHEL/CentOS 6.x, glibc 2.12-1.25.x (x64) RHEL/CentOS 5.x, glibc 2.5.x (x 86, x64, Power PC) Scientific Linux SL 5.x, glibc 2.5.x (x64) Scientific Linux 7.x (x64) Scientific Linux 6.x (x64) Slackware 14.0, glibc 2.15.x (x86, x64) Source Mage 0.10 (x86) SuSE Linux 12.x, glibc 2.19.x and later (x86, x64, Power PC) SuSE Linux 11.x, glibc 2.9.x + (patches required by SuSE for SLES 11 SP4 for Power PC.) (x86 x64 Power PC) Ubuntu 8.04 - 18.04 LTS (x86, x64) Z-Linux (System z9/z10) (s390x 64-bit, 31-bit runtime libraries, s390 31-bit) Z-Linux RHEL 5.x, 6.x (s390x 64-bit, 31-bit runtime libraries, s390 31-bit) Z-Linux SuSE 11.x, 12.x Enterprise Server (s390x 64-bit, 31-bit runtime libraries, s390 31-bit)

VSA (Virtual Server Agent)

Note: for this type of backup, the user is responsible for the correct installation of the VSA agent on its virtualized infrastructure. Documentation:

http://documentation.commvault.com/commvault/v11_sp12 /adminconsole/article?p=86634.htm

Amazon Google Cloud Platform Microsoft Azure Microsoft Azure Stack Microsoft Hyper-V Nutanix Acropolis Hypervisor (AHV) OpenStack Oracle Cloud Infrastructure Classic Oracle VM VMware (vCenter or ESX server)

Requirements for VSA for the most popular types of virtualization: Vmware (vCenter or ESX server) - VSA agent installed on at least one physical or virtual machine (Windows operating system); Hyper-V - VSA agent installed on a Hyper-V host (for standalone configuration) or on a Hyper-V node(s) (configuration for Hyper-V cluster protection); OpenStack: a VSA agent installed on an instance in the OpenStack data center: Oracle VM: VSA agent installed on a virtual machine

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	in the Oracle VM Manager
	environment.

Antivirus exclusions

Virus scanning is often a cause of performance issues or may even prevent proper backup tasks in case of incorrect configuration of anti-virus exclusions. The following table shows the exclusions that should be included on servers covered by Atman Backup backups:

For Windows systems	For Linux systems
Software Installation Path: *:\Program Files\Commvault\ContentStore**	Software install directory: */opt/Commvault/**
Job Results folder: *:\Program Files\Commvault\ContentStore\iDataAgent\JobResults	Job Results directory: /opt/Commvault/iDataAgent/jobResults
For VSA in VMWare environment, Job Results folder: *:\Program Files\Commvault\ContentStore\iDataAgent\JobResults	Directory to extract installation binaries: /tmp/.gxsetup

 $Importantly, virus\ scanning\ should\ not\ be\ performed\ while\ performing\ backup\ tasks.$

Read more

http://documentation.commvault.com/commvault/v11/article?p=8670.htm

http://documentation.commvault.com/commvault/v11/article?p=8665.htm

Administrative panel and Internet browsers

The following browsers are supported:

- Apple Safari version 8.0 and subsequent
- Google Chrome version 40.0 and subsequent
- Microsoft Edge
- Microsoft Internet Explorer (IE) version 10 and subsequent
- Mozilla Firefox version 47.0 and subsequent

Use

Login to the administration panel

Enter in the web browser the address https://panel.backup.atman.pl/).

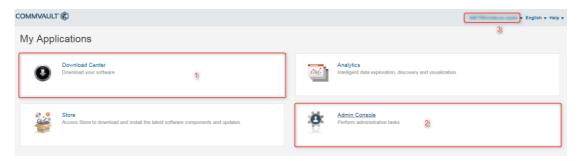
Enter the user name assigned by Atman during the activation of the service (box 1), password (box 2) and click the Login button (box 3):

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After logging in, go to the homepage of the administration panel:



Description of modules:

- 1 Download Center: a place to download prepared installation packages of agents
- 2 Admin Console: a place where backups are managed
- 3 Active user field: management of the active user

In the case of subsequent login sessions and automatic display of the Admin Console, to enter the main administration panel, use the address https://panel.backup.atman.pl/webconsole in the browser.

Password reset

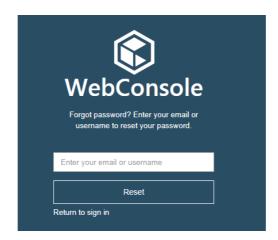
In the case of a password problem, while on the login page, you can change the access password to the panel by clicking on "Forgot password?"

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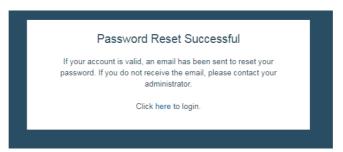




Then enter the current user name given at the stage of its launch, and click on the "Reset" button:



After a while an instruction will appear in the mailbox explaining how to set a new password.



Click on the link received by email and enter the new password:

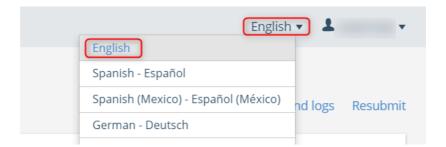
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Language choice

Atman recommends using the administrative panel in the English language version. The language may be changed by choosing an option in the upper right corner of the main panel window.



Downloading the agent installation package

To download installation packages, go to the "Download Center" function after logging into the main panel.

The following installation packages are available:

BaaS_Atman_FS_winx64 (package with Windows File System agent for servers, 64-bit system)

BaaS Atman FS winx86 (package with Windows File System agent for laptops/desktops, 64-bit system)

BaaS_Atman_VSA_winx64 (package with a Virtual Server agent for virtual machine backup for Windows operating systems)

BaaS_Atman_FS_Linux (package with the Linux File System agent for servers)

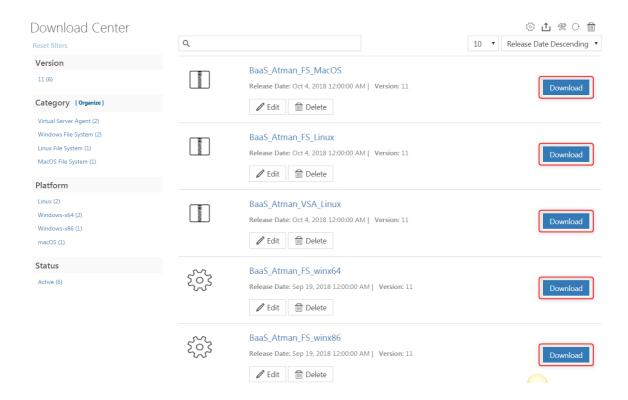
BaaS_Atman_FS_MacOS (package with the MacOS File System agent for servers)

BaaS_Atman_VSA_Linux (package with a Virtual Server agent for virtual machine backup for Linux operating systems)

Having chosen the appropriate package, click the "Download" button:

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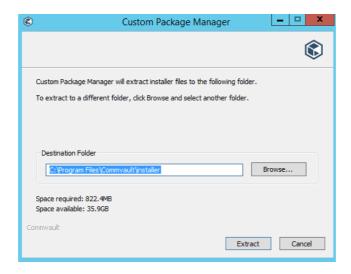


Choose the place to save the package; then, after downloading, place the package on the machine to be covered by Atman Backups, and then install it in accordance with the instructions described below in this guide.

Agent installation for Windows operating systems

During the installation, you may need to restart the machine where the agent is installed. The restart request is presented with a message.

Starting the agent installer and selecting the installation folder:

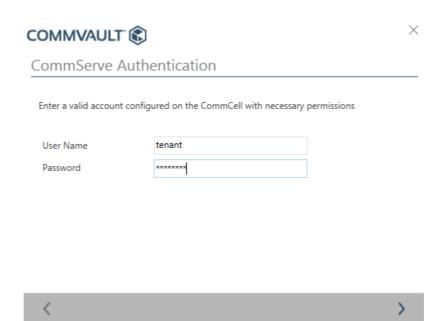




You must approve the license agreement:



Provide data of the user registered in the Atman Backup service. It is important **not to use** the e-mail address only to give the given full user name (organization/user):



After completion of the installation, click "Finish":



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The agent has been installed and added to the environment. After installing the package, the configuration of the agent and the setting of specific backup tasks are performed from the level of the administration panel (see the further sequence of instructions).

Agent installation for Linux/Unix operating systems

During the installation, you may need to restart the machine where the agent is installed. The restart request is presented with a message.

After downloading the package, place it on the machine and start the installation process. After copying the package to the machine (e.g. by the SCP program, WinSCP, in binary mode), unpack the .tar file, go to the directory where you unpacked the installation packages and with the administrator privileges execute the command:

sudo ./cvpkgadd

Then enter "Client Host Information" (you can leave the default name):

```
Commvault

Client Host Information

Client/Physical machine host name:
```

Then "Client name" or the name of the client in the environment (you can leave the default name):

```
Commvault Version 11

Client Information

Client name:
```

Finally, enter the user's rights to the system (it is important to use the full user name provided by Atman after the activation of the service, i.e. organization/user; do not use the email address):

Wait for the successful completion of the installation. Following the successful installation, a new client with the Linux File system agent will appear in the administration panel.

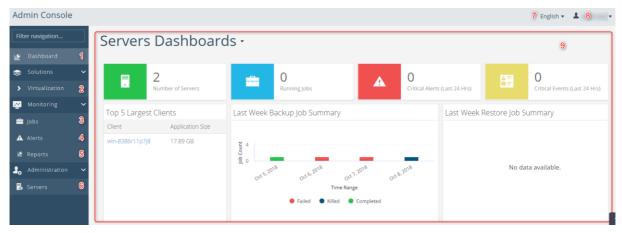
The agent has been installed and added to the environment. After installing the package, the configuration of the agent and the setting of specific backup tasks are performed from the level of the administration panel (see the further sequence of instructions).

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Overview of the main functions of the Admin Console panel

After logging in and going to the Admin Console homepage, the user has the following areas at their disposal:



Application:

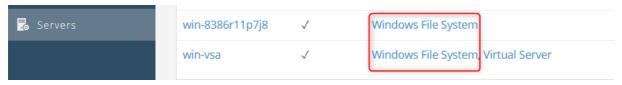
- 1 Dashboard: displays metrics and information about the current status of the environment
- 2 Solutions -> Virtualization: Configuration and settings for virtual machines protection (snapshot backup)
- 3 Monitoring -> Jobs: preview of tasks (active and historical)
- 4 Monitoring -> Alerts: list of alerts
- 5 Monitoring -> Reports: access to reports (described in more detail in a separate chapter of the guide)
- 6 Administration -> Servers: creating backup tasks, on-demand backup, restoring from backups
- 7 Active language field: changing the language for the console
- 8 Active user field: management of the active user
- 9 Management field: screen for modification and management of selected options

Configuration of the agent for file system backup

Protection of the entire file system of the selected server

Requirement: File System agent installed successfully and visible in the Admin Console.

After installing the package with the File System agent, click the "Windows File System" object on the server for which you want to configure the backups:



Then, go to the Backup sets → defaultBackupSet:

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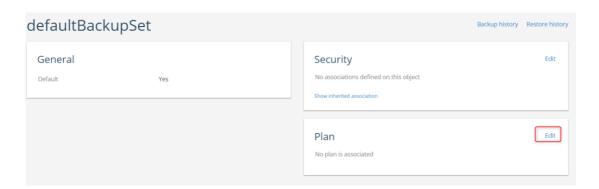


Next, go to the subclient → default:



NOTE: the subclient object cannot be deleted → default.

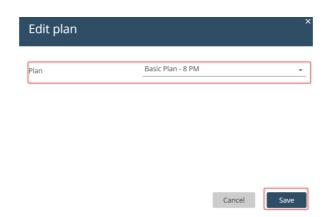
In the "Plan" section, select "Edit" ...



... and in the next step, select the plan you want to protect from the drop-down list. The selection must be confirmed with the "Save" button:

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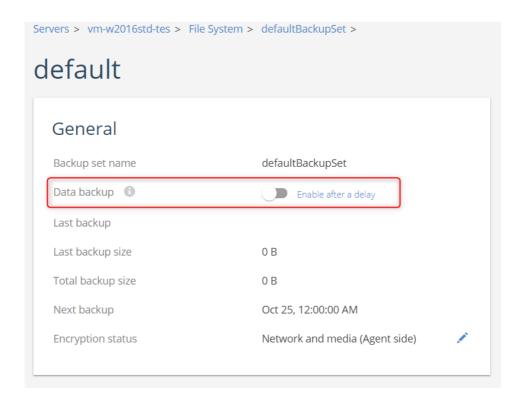




Protection of selected file system resources

Requirements: Installed client with the "File System" agent

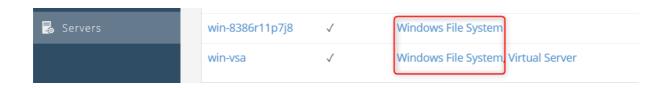
NOTE: you may not delete the subclient object → default. Additionally, after creating a new subclient and before configuring it, disable the backup activity on the subclient → default:



After installing the packages with the File System agent on the server, you need to configure it. Click on the "Windows File System" / "Linux" object for the server that you want to cover with backups:

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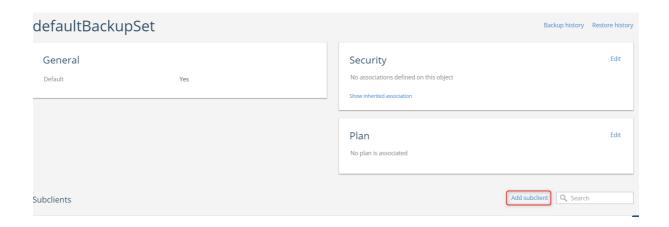




In the next step, go to the Backup sets object \rightarrow defaultBackupSet:



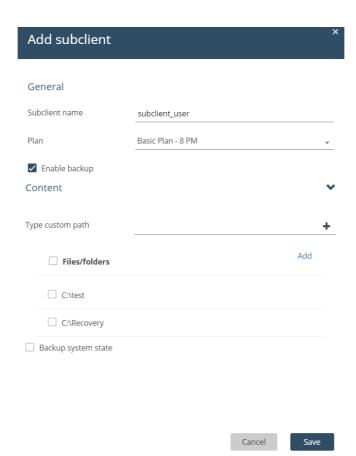
Choose "Add subclient" to create a new subclient:



Now enter the name for the subclient (Subclient name field), indicate the plan you want to have to protect your data (Plan field), in the Content field, indicate the content that will be protected. After choosing the Add button, a section will appear where you can specify a specific path/catalogue/ file. It is possible to give privileges to resources (for UNC paths) as well as exclusions. Confirmed the entered data with the Save button:

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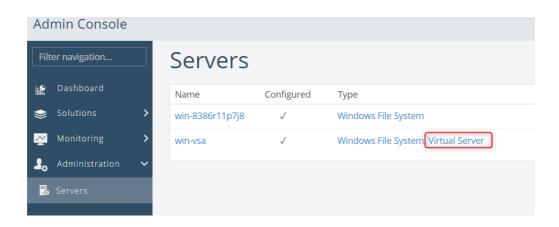




The subclient can be modified at any time. NOTE: please note that the contents (data/source to be backed up) of various subclients cannot be duplicated! The exception is the subclient object \rightarrow default. If the subclient object is configured \rightarrow default in accordance with the previous subsection, it will continue to protect all data except those specified in another subclient. Therefore, do not modify the "Content" field for the subclient object \rightarrow default.

Agent configuration for backup of full virtual machines

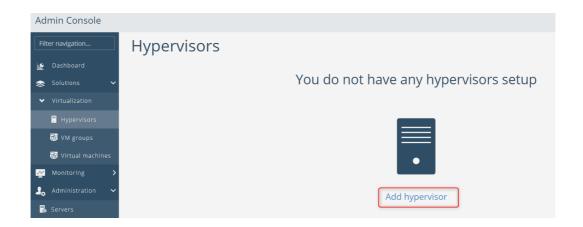
Requirements: Installed client with the "Virtual Server" agent



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After installing the package with the Virtual Server agent, it is necessary to configure the backup of virtual machines. When logged in to AdminConsole, go to the main menu on the left side of the screen under the Solutions tab, then drop down the Virtualization section and enter Hipervisiors. In the main window of the section, you now need to select the Add hypervisor option:



NOTE - the above view only appears when you configure the backup of virtual machines for the first time. When adding another virtualizer, the Add Hypervisior function will be visible in the upper right corner:



In the next step, fill in the following fields and confirm the change with the Save button:





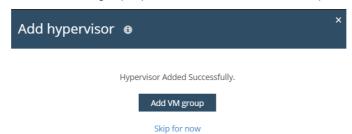
1 – Select type field: choosing the type of virtualizer (choose Vmware or Hyper-V)

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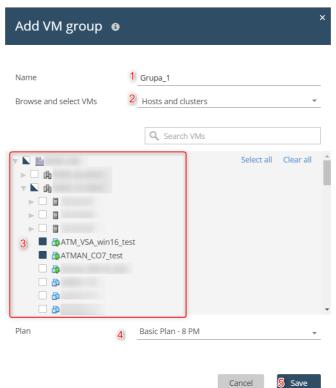


- 2 Host name field: host address (FQDN or IP name) to be resolved by the client with the Virtual Server agent installed
- 3 Hypervisior display name field: enter the name of the virtualization client that will be visible in the Admin Console
- 4 Username field: name of the service user used for backup of virtual machines
- 5 Password field: password of the service user
- 6 Proxy field: host with the Virtual Server agent installed (the agent can be installed on a virtual or physical machine)

Next, go to the configuration, select the "Add VM group" option to indicate the machines to be protected:



After selecting this option, complete the following fields and confirm with the Save button:

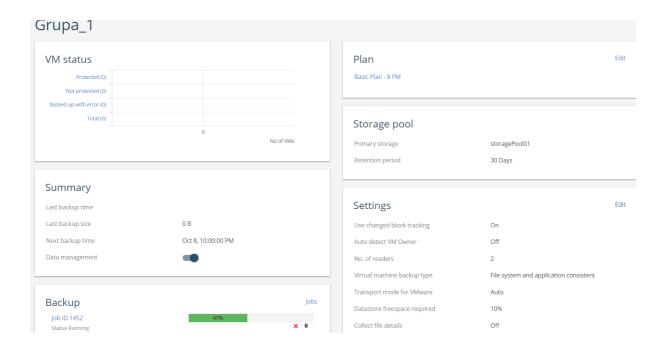


- 1 Name field: enter the group name
- 2 Browse and select VMs field: selection of the host grouping method and searching for machines by name
- 3 Virtual machines selection section: according to the criteria selected in point 2, indicate the machines to be protected
- 4 Plan field: choose a plan for the backup of virtual machines

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In the next step, the subclient options screen will appear through which you can modify the settings of the backup of virtual machines and add/remove machines to be protected with backups:



NOTE: the system automatically adds the recommended settings which can be found in the Settings section.

Starting a backup on demand

In addition to backing up automatically, cyclically according to plan, it is possible to perform backups in one-time mode, on demand/with a click. In order to run such backup, choose the Servers section from the main menu, and then select the server for which you want to run a one-time backup:



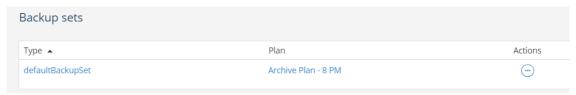
In the next step, select the type of agent (in this case File System) ...

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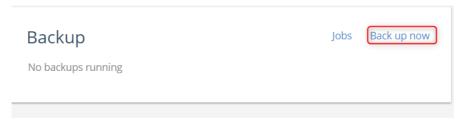
... and enter the Backup sets object \rightarrow defaultBackupSet:



Choose a subclient object where you want to run a one-time data backup task:

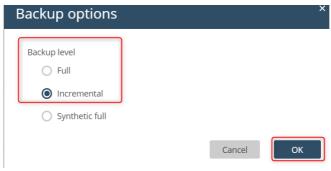


In the Backup section, click Back up now:



In the Backup options field, specify which operation you would like to perform (Full - full backup, Incremental - incremental backup).

NOTE - do not use the synthetic full option. In the next step, confirm your selection with the OK button that will launch the task:



You will receive information about the task launch. After clicking View job details, you are redirected to the Monitoring section \rightarrow Jobs for this task where you can verify the progress of the task.

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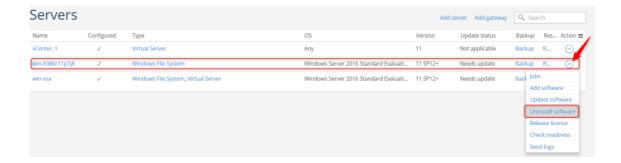




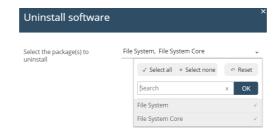
Uninstalling the agent

Note: uninstalling the agent involves stopping the backup tasks that it performs. To resume data protection tasks, you must reinstall the agent.

To uninstall the agent, in the main menu go to the Servers tab and then select the client from which you would like to uninstall the application. In the next step, click the "..." button in the Actions column and choose Uninstall Software:



Go to the Uninstall software window, select Select all, and then using the Uninstall button, move on:

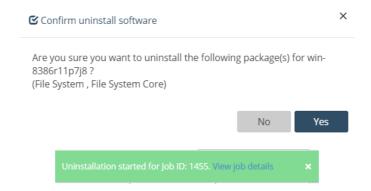


Cancel Uninstall

Confirm the removal of the agent with the Yes button:

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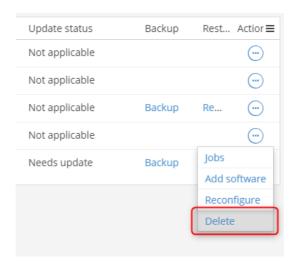


Removal of the agent from the system

Requirements: before removing the client, all agents must be uninstalled as per the previous section.

Note: removal of the client involves stopping the backup tasks and the inability to recover data. It also involves deleting all data contained in the backup repository. The backup can be reconfigured by reinstalling the agent, but you will not be able to access the data recorded before the agent was removed from the system.

To remove the agent from the system, in the main menu go to the Administration section \rightarrow Servers and select the client/server that you want to remove from the backup system. Next, click the "..." button in the Actions column and choose Delete:



Confirm the message and you should receive information on the screen that the agent has been successfully removed from the system.

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Recovery of the full machine

The full machine can be recovered via AdminConsole on a machine with the Full Recovery Machine operating system already installed.

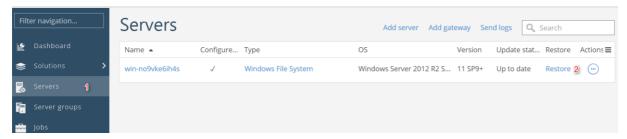
NOTE: the recovery is possible if you have properly configured data protection options.

Full Recovery Machine (for Windows)

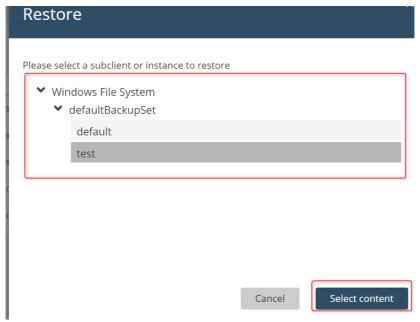
NOTE: in order to recover the full machine, the machine protection with the System State option is required in the subclient properties (for the Windows File System agent) or the "1-Touch Recovery" option (for the Linux File System agent).

Requirement: before the recovery operation is performed, a machine on which the recovery will be carried out must be prepared in accordance with the documentation https://documentation.commvault.com/commvault/v11 sp12/article?p=57205.htm. In addition, you must install the Windows File System agent on the machine on which the recovery will be performed, and also disable the backup activity on this new server/client.

To recover the full machine, go to the Servers section in the main menu and select the server/client from whose backup copies the recovery is to be performed. Click Restore:



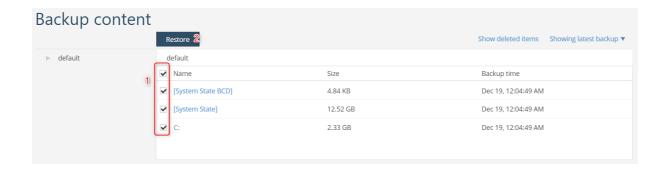
If you have configured many subclients, select the one from which you want to perform the recovery:



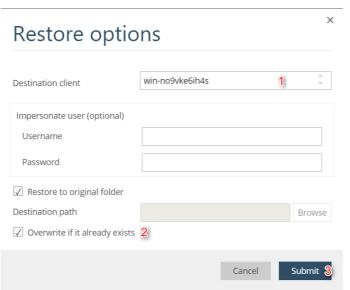
In the next step, select all objects ("[System State BCD]", "[System State]" and the system partition as mandatory, the rest of the partition is not mandatory). Click Restore:

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Next, indicate the target server/client to which the recovery is to be performed, select the "Overwrite if it already exists" option and run the recovery by clicking Submit:



You will receive a message about starting the task:



After moving to "Jobs:, you can verify the progress of the task:



Completed status means that the task has been completed, the machine has been recovered.

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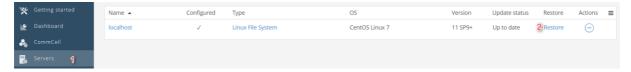


Full Recovery Machine (for Linux)

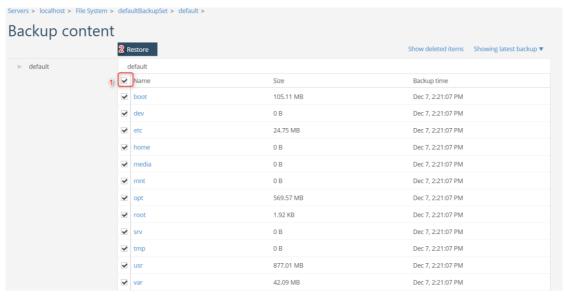
NOTE: if the full machine with installation points is not protected, its full recovery will not be possible - in order to use this option, a proper backup configuration is required.

Requirement: before the recovery operation is performed, a machine on which the recovery will be carried out must be prepared in accordance with the documentation.http://documentation.commvault.com/commvault/v11 sp12/article?p=57175.htm. In addition, you must install the Linux File System agent on the target machine on which the recovery will be performed, and also disable the backup activity on this new server/client.

To recover the full machine, go to the Servers (1) section in the main menu and select the server/client from which the recovery is to be performed. Then click Restore (2):

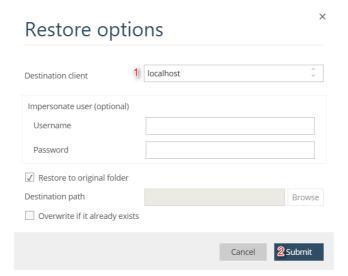


Select all objects (by marking the box marked as (1) and click Restore:





In the next step, indicate the target server/client, do not select the "Overwrite if it already exists" option (as opposed to Windows File System) and run the recovery by clicking Submit:



You will receive a message about starting the task:



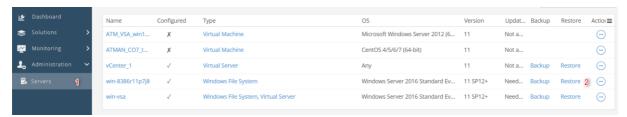
After going to the Jobs section, you can follow the task:



Completed status means that the task has been completed, the machine has been recovered.

Recovery of a single file

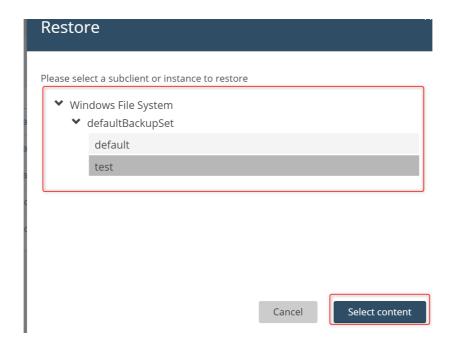
To recover a single file, in the main menu on the left side of the Admin Console screen, go to the Servers section and select the server/client from which you would like to recover a single file. Click Restore:



If you have configured many subclients, select the one from which you want to perform the recovery:

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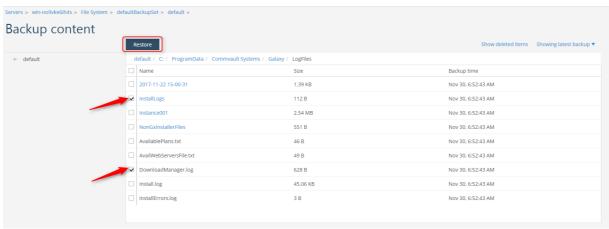




You can search for and point to specific backup files that the user wants to recover. You can recover files according to the status of the machine from the last backup task, from a specific day or time interval.



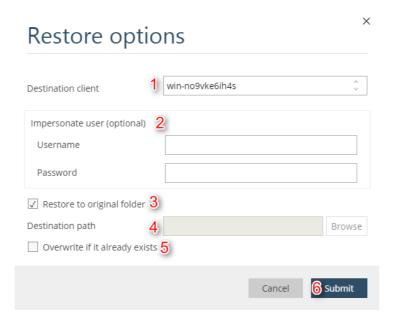
In the next step, indicate the partition from which you would like to recover files and navigate to a specific file by clicking on the names of individual folders. Select one or more elements (it can be a folder or a single file) and click Restore:



In the Restore option window, you can choose the following options:

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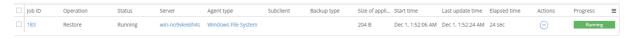


- 1 Destination client field: selection of the target server (client) on which you want to perform the recovery
- 2 Impersonate user field (optional): optional specification of permissions for the target server (client)
- 3 Restore to original folder field: recreation to the same location
- 4 Destination path field: you can indicate any recreation destination path
- 5 Overwrite if it already exists field: permission to overwrite an existing file in the location
- 6 Submit button: confirmation of the operation and execution of the recovery

After clicking Submit, you will get a message about starting the recovery task:



After going to the Jobs section, you can follow the task:



Completed status means that the task has been completed, the files have been recovered.

Recovery of the full virtual machine

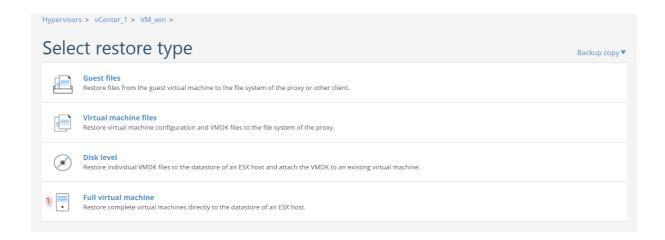
To recover a single full machine from a backup, go to the Servers section in the main menu and select the client/VSA from which the recovery is to be performed, and then click Restore:



The recovery type selection window appears:

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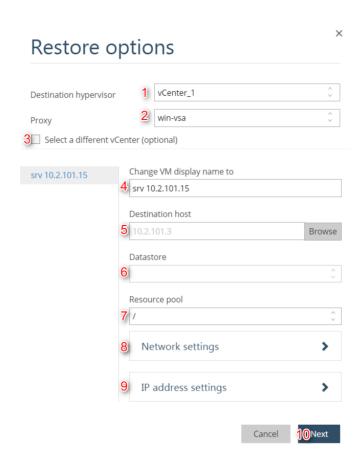
Select the "Full virtual machine" option, and then set the time criterion from which you want to perform the recovery (1), indicate the machine you want to recover (2) and click the Restore button to go to the next options:



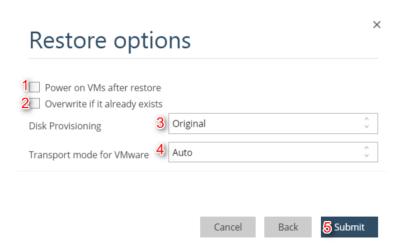
In the next step, indicate in the drop-down list (1) of the target virtualization client on which you want to recover the virtual machine, if it is not configured in the system, using the "Select a different vCenter (optional)" option you can indicate other vCenter. Select the client with the installed "Virtual Server" agent (so-called VSA) which will mediate in the recovery operation (2). Choose the name for the recovered machine (4), indicate the target host (5), datastore (6) and Resource pool (7). If necessary, network settings (8 and 9) can be defined. Settings are saved using the Next (10) button:

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After moving to the next recovery options, you can request that the machine is turned on immediately (1) and overwritten if it already exists in the environment (2). In addition, indicate the Disk Provisioning method for machine disks after recovery and the Transport mode (3 and 4). Start the recovery with the Submit (5) button:



You will receive a message about the start of the recovery task:

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Restore requested - Job ID: 266 × View jobs

The task can be monitored in the Jobs section:



Completed status means the end of the recovery.

Recovery of a single file from the virtual machine

NOTE: In the case of granular recovery of individual files from virtual machines ("Guest files" option), there are restrictions for Vmware and Hyper-V described in:

http://documentation.commvault.com/commvault/v11 sp9/article?p=products/vs vmware/c vmw restore guest files.htm (for Vmware)

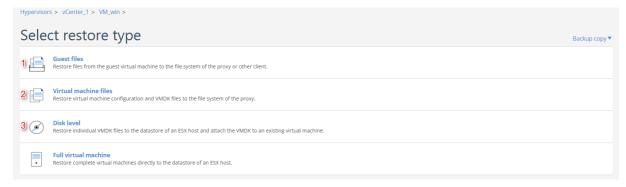
http://documentation.commvault.com/commvault/v11 sp9/article?p=products/vs ms/t vhypv guest file restore.htm (for Hyper-V)

The service allows you to recover individual files from the operating system using the installed VSA client. If you have any questions or problems, please contact Atman. The following description shows the recovery based on VMWare backup.

To recover an individual file, go to the Servers section in the main menu and select the VSA client from which the recovery is to be performed, and click Restore:



The recovery type selection window appears:



1 – Guest files option: not recommended; recovery of individual files (file system) from the operating system level to a client with installed Windows File System agent or Linux File System agent and to another virtual machine

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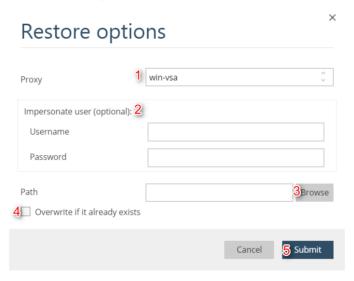
- 2 Virtual machine files option: recovery of machine configuration files to a client with File System or Virtual Server (VSA) agent installed
- 3 Disk Level option: recovery of machine disks to resources with the option of connecting to an existing virtual machine

Virtual machine files option

After selecting the "Virtual machine files" option, set the time criterion for the intended recovery (1), then select the machine using the drop-down tree on the left (2), select specific files (3) and use the Restore button to go to the next recovery options.



Indicate the server/client to which you want to recover (1), optionally, give authorizations for the machine (2), indicate the path to be recorded (3), select the option to overwrite existing files (4) and press Submit to start the recovery (5):

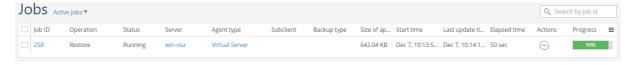




You will receive a message about the start of the recovery task:

Restore requested - Job ID: 258 × View jobs

The task progress can be monitored in the Jobs section:



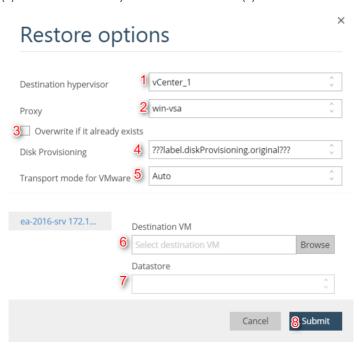
Completed status means the end of the recovery.

Disk level option:

After selecting the Disk level option, set the time criterion for the intended recovery (1), then select the machine using the drop-down tree on the left (2), select specific files (3) and use the Restore button to go to the next recovery options:



In the next step, indicate the target hypervisor to which you want to perform the recovery (1), indicate the client with the installed Virtual Server agent (2), you can choose the option to overwrite the existing files (3), Disk Provisioning option for the disc that is being recovered (4), transport mode for Vmware (5), the machine to which we want to recover the disk (6), the resources where the recovered disk will be placed (7) and start the recovery with the Submit button (5):



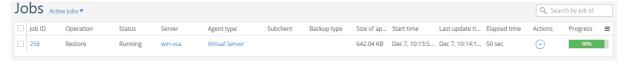
You will receive a message about the start of the recovery task:

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The task progress can be monitored in the Jobs section:

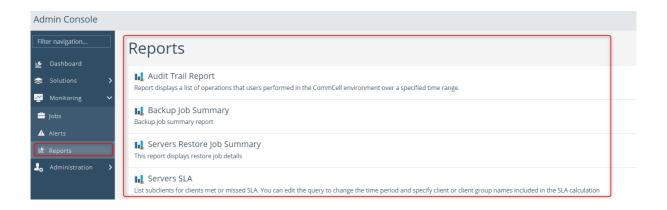


Completed status means the end of the recovery.

Reports

The report module can be found in the menu Monitoring -> Reports in the navigation panel on the left side of the window.

The user may review four reports: "Servers SLA", "Backup job summary", "Servers Restore job summary", "Audit Trial Report".

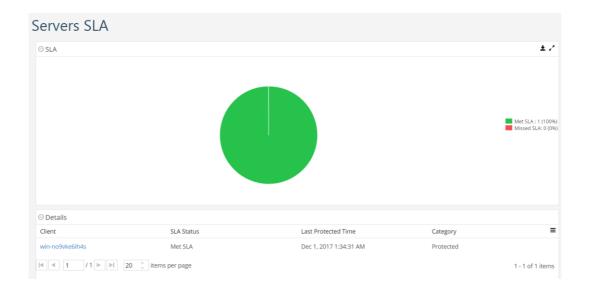


Servers SLA

This report helps to monitor the correct execution of backups from the perspective of a longer time horizon. It shows the ratio of the number of servers (agents) on which the backup tasks were properly performed to the total number of all servers (agents). In the reports and descriptions of the administration panel, the server (agent) is referred to as "Client".

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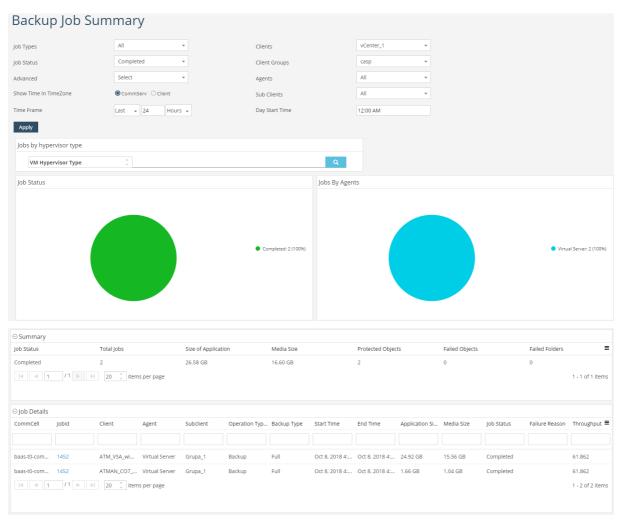


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Backup job summary

This report is a summary of data protection tasks. After selecting the appropriate criteria, and confirming with the "Apply" button, the report is generated.



The user may extract various types of useful information, including:

Jobs Status: the status of the performed task

Total Jobs: the number of tasks with a certain status

Size of Application: a number defining the size of source data subjected to backup protection for all tasks according to the selected criterion

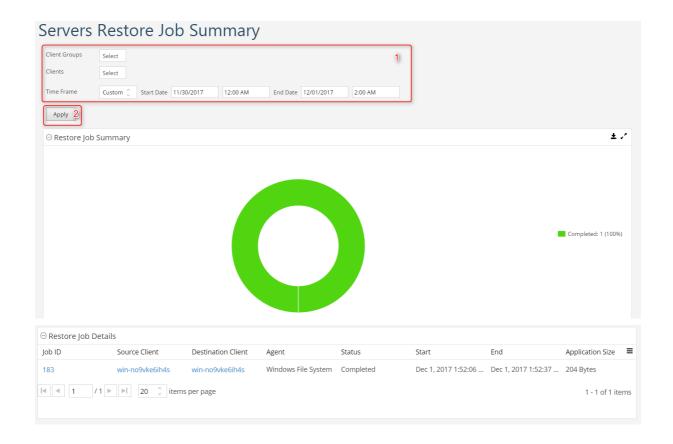
Media Size: Actual size of data stored on the platform after compression and deduplication

Server Restore job summary

This report is a summary of data recovery tasks. After selecting the appropriate criteria (1), and confirming with the "Apply" button (2), the report is generated.

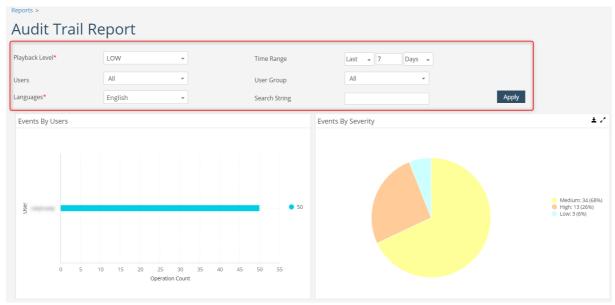
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Audit Trial Report

This report performs an audit of the user's activity; it helps to perform a detailed review of all operations carried out on the environment by the user in a given period of time. After selecting the appropriate criteria, and confirming with the "Apply" button, the report is generated:



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-	High	Oct 8, 2018 6:03:29 AM	Consume License	Client: win-8386r11p7j8 License Type: Server File System
	High	Oct 8, 2018 6:03:29 AM	Register/Install Client	Login Name: Client: win-8366r11p7j8
	Low	Oct 8, 2018 6:00:38 AM	Web Console download Operatio n	Downloaded file [E:\Commvault\ContentStore\Tenant_Packa ges\VSAlinux\UnixCustomPackage\tan\custom_pkg.tan] from source client [1] to destination]
	Medium	Oct 8, 2018 4:53:52 AM	User Logged in	Login success: username: host/ device: logged in from: [AdminConsole]