



User Guide for 1.0.0.38 Version

VERTIGO CLOUD BACKUP & REPLICATION



CONTACTING VERTIGO CONSULTING.....	4
ABOUT VERTIGO CLOUD BACKUP & REPLICATION.....	4
PLANNING FOR DEPLOYMENT	4
PLATFORM SUPPORT.....	4
SYSTEM REQUIREMENTS BACKUP SERVER.....	5
USED PORTS	6
LICENSING	7
SETUP VERTIGO CLOUD BACKUP	9
INSTALLING SOFTWARE.....	9
UPGRADE SOFTWARE.....	14
UNINSTALLING SOFTWARE.....	14
USING VERTIGO CLOUD BACKUP MANAGER.....	15
INITIAL SETTINGS.....	16
SYSTEM SETTINGS	16
AUTHENTICATION	16
SYSTEM UPDATES	19
BACKUP	20
CONFIGURING SCHEDULED BACKUP JOBS	20
EDITING BACKUP JOBS	23
DELETING BACKUP JOBS.....	23
RUNNING BACKUP MANUALLY	23
STOP RUNNING BACKUP JOBS.....	23
CONNECT MORE VCENTER SERVER/ESXI SERVER	24
SCHEDULING JOBS MODE.....	24
SCHEDULING ON DEMAND JOB.....	25
VIRTUAL MACHINE PREFERENCES	26
ADVANCED TRANSPORT MODE.....	27
RESTORE.....	31
TARGETS	35
CLOUD TARGETS.....	36
VMDK FILES	36
VIRTUAL MACHINE RECOVERY VERIFICATION.....	37
CLOUD BACKUP.....	38



REPORTING	39
SUMMARY BACKUP JOBS	39
MONITOR BACKUP JOBS	39
JOBS LOGS	40
JOB HISTORY	40
IMPORT AND EXPORT CONFIGURATION	41



CONTACTING VERTIGO CONSULTING

For any technical concern, suggestion or question, please contact our customer support:

- Phone: +39 039 6056691
- Email: support@vertigoconsulting.it

ABOUT VERTIGO CLOUD BACKUP & REPLICATION

Vertigo Cloud Backup & Replication is a backup solution developed for VMware vSphere virtual environments. Vertigo Cloud Backup provides a set of features for performing backup, restore and replication tasks.

This document contains a high-level overview of Vertigo Cloud Backup & Replication, its architecture, features, necessary to understand Vertigo Cloud Backup operations and processes.

PLANNING FOR DEPLOYMENT

Before you install Vertigo Cloud Backup, you must assure that the virtual environment and machines - that you plan to use as backup infrastructure components - meet product hardware recommendations and system requirements.

PLATFORM SUPPORT

Vertigo Cloud Backup works for the following version of the VMware vSphere platform:

Virtual Infrastructure

Specification	Requirements
Platform	VMware vSphere 6.x
Hypervisor	ESXi 6.x
	Free ESXi is not supported

Virtual Machines

Specification	Requirements
Virtual Hardware	All types and version of virtual hardware are supported Virtual machine with disks engaged in SCSI bus sharing are not supported for host-based backup, because VMware does not support snapshotting such VMs.
OS	ALL operating systems supported by VMware.
Software	VMware Tools recommended



File-Level Restore

Specification	Requirements
Microsoft Windows	FAT, FAT32 NTFS
Linux	Ext3, ext3, ext4 ReiserFS JFS XFS Btrfs

Please consider that:

You cannot restore pipes and other file system object. File-level restore supports recovery of files and folders only.

For Microsoft Windows you can restore files from basic and dynamic disk including simple, mirrored and striped volumes.

For Linux you can restore files from basic disk, Linux LVM and ZFS pools.

SYSTEM REQUIREMENTS BACKUP SERVER

Consideration:

The machine can be virtual or physical

The machine on which you plan to install Vertigo Cloud Backup does not necessarily need to be a domain member.

The software is all-in-one installation.

Specification	Requirement
Hardware	CPU: x86-64 processor (2 Core recommended) RAM: 4GB plus 500MB for each concurrent job Space Required: 216MB for setup file Network: 1Gbps minimum
OS	Only 64-Bit version Microsoft Windows Server 2019 Microsoft Windows Server 2016 Microsoft Windows Server 2012 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2008 R2 SP1
Software	Microsoft .NET Framework 4.6 or higher



USED PORTS

Vertigo Cloud Backup & Replication needs to communicate to the vCenter Server or ESXi Server

From	To	Protocol	Ports
Backup Server	vCenter Server	HTTPS/TCP	443
	vCenter Server	HTTPS/TCP	443
		TCP	902
	Cloud Endpoints	TCP	873
		TCP	11176



LICENSING

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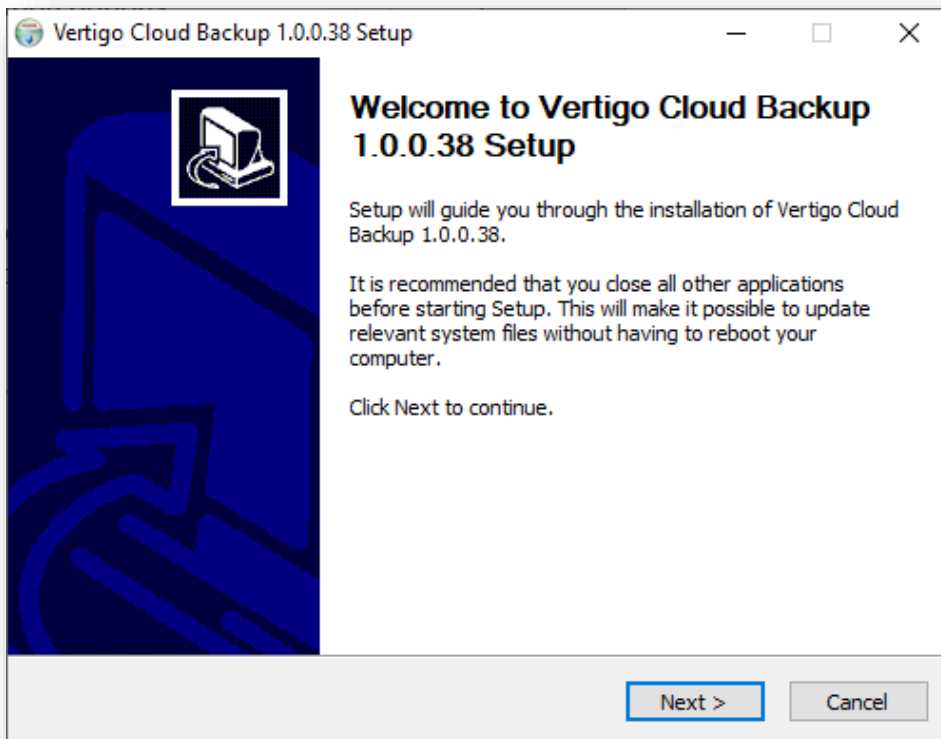
SETUP VERTIGO CLOUD BACKUP

Download the latest version of the Vertigo Cloud Backup & Replication from the Vertigo Consulting website under area download.

Before you install the software, ensure your account have sufficient permission for installation and the machine where you plan to install Vertigo Cloud Backup meet the system requirements.

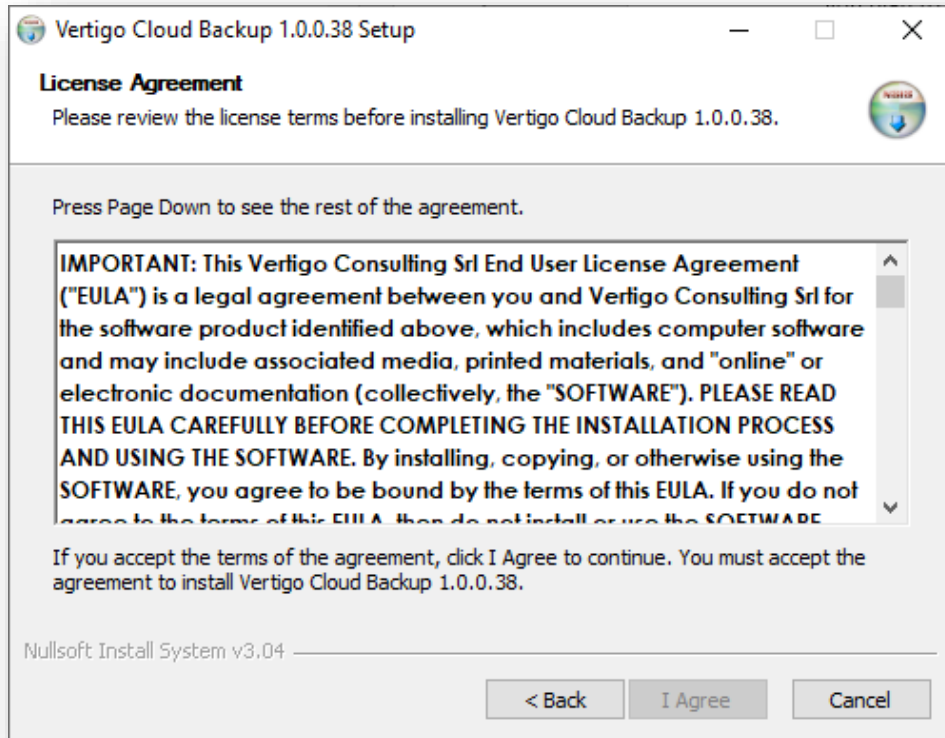
INSTALLING SOFTWARE

Proceed to run the VCBSetup.exe file and click install:



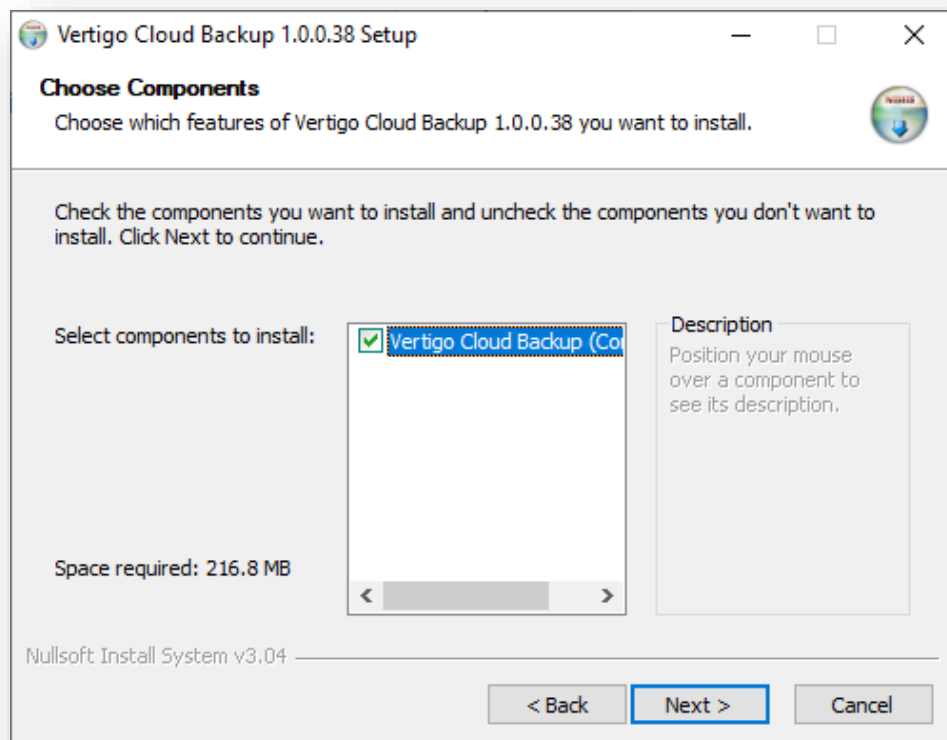


Read and scroll down to accept the License Agreement:



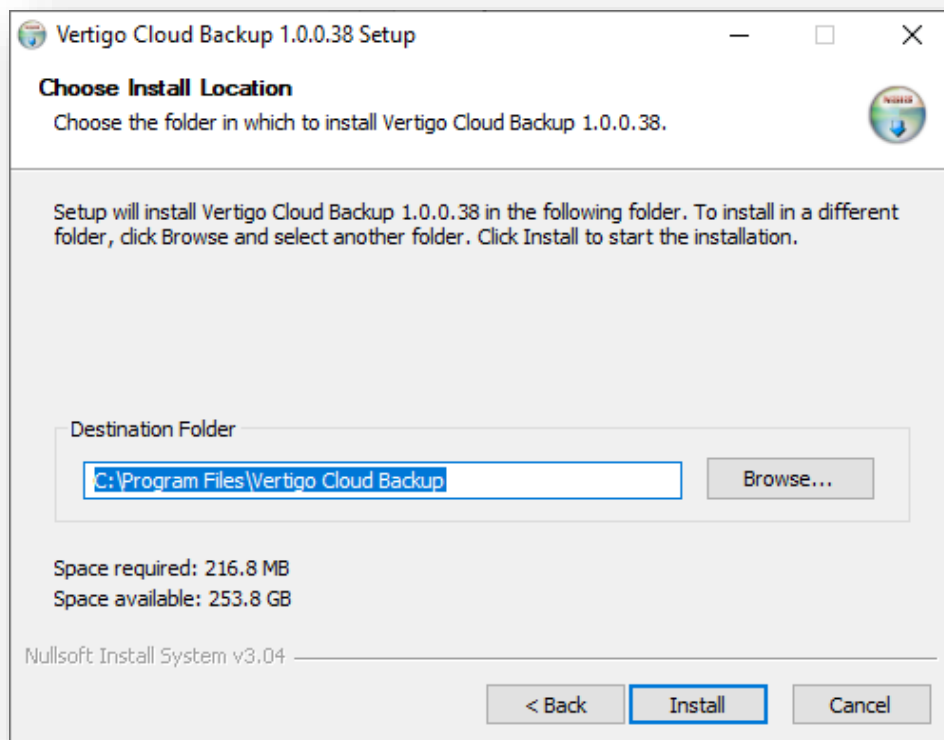


Leave the components selected and proceed:



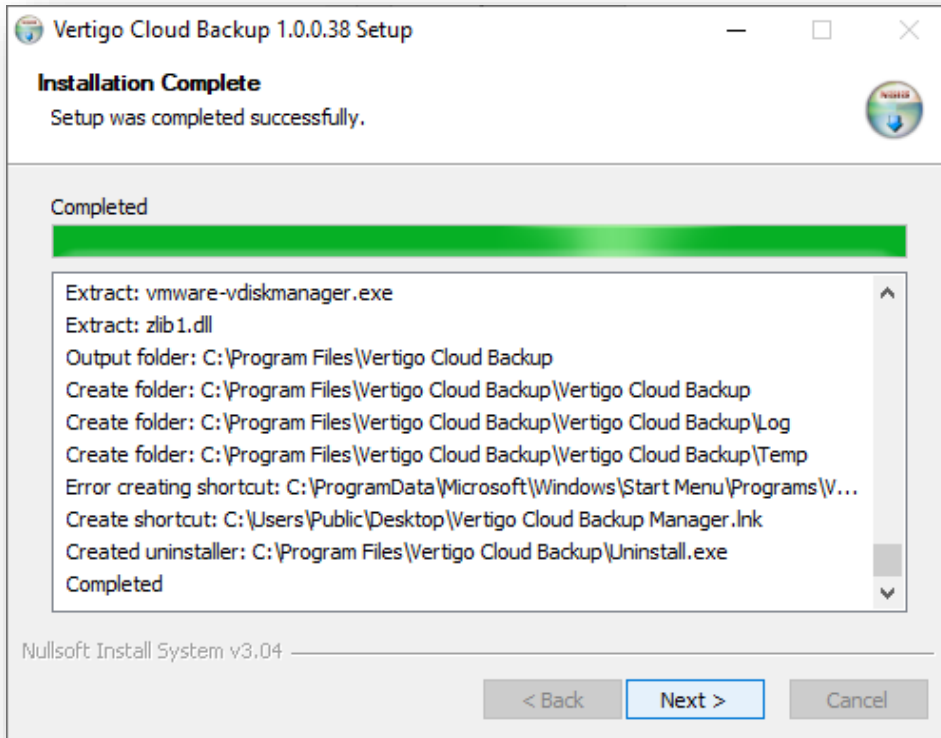


Select installation folder:

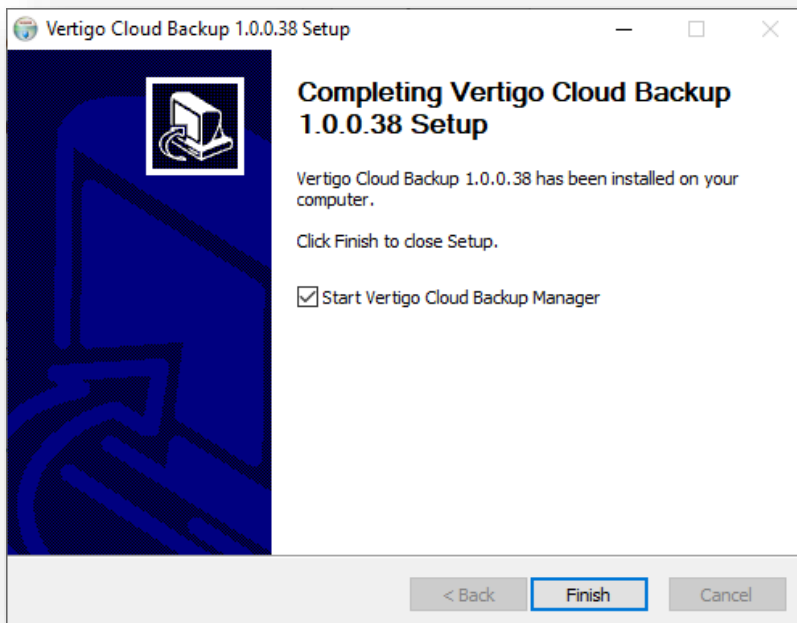




If the installation completed successfully, you can go ahead:



Proceed to complete the installation. The software is ready to use. Leave flag on Start Vertigo Cloud Manager to open the console.



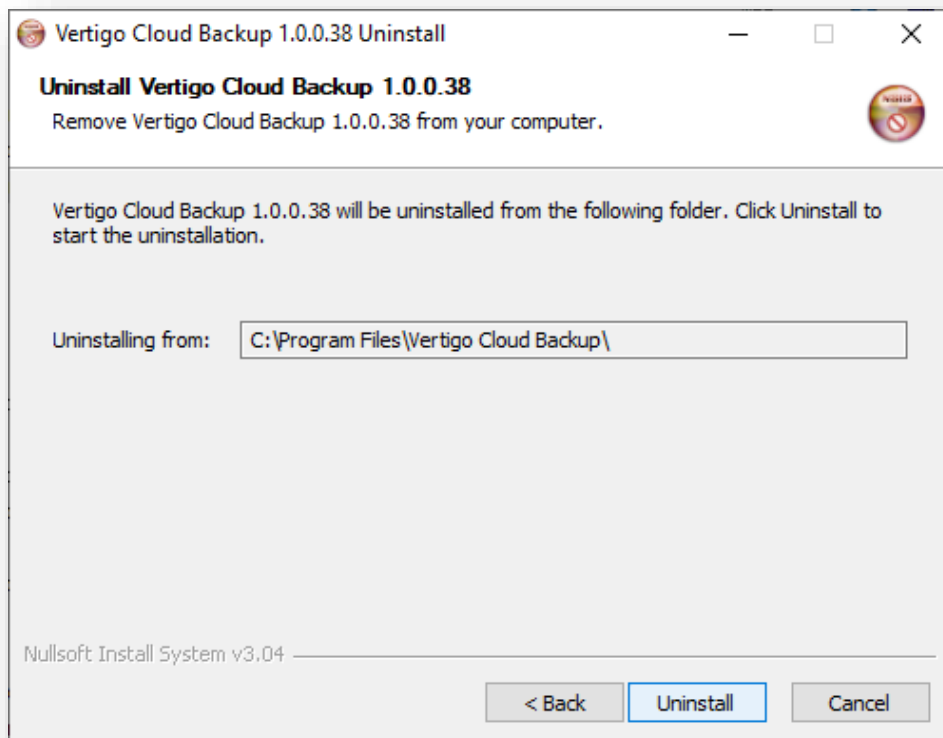


UPGRADE SOFTWARE

Vertigo Consulting customer care keep update you for updating and news about the software

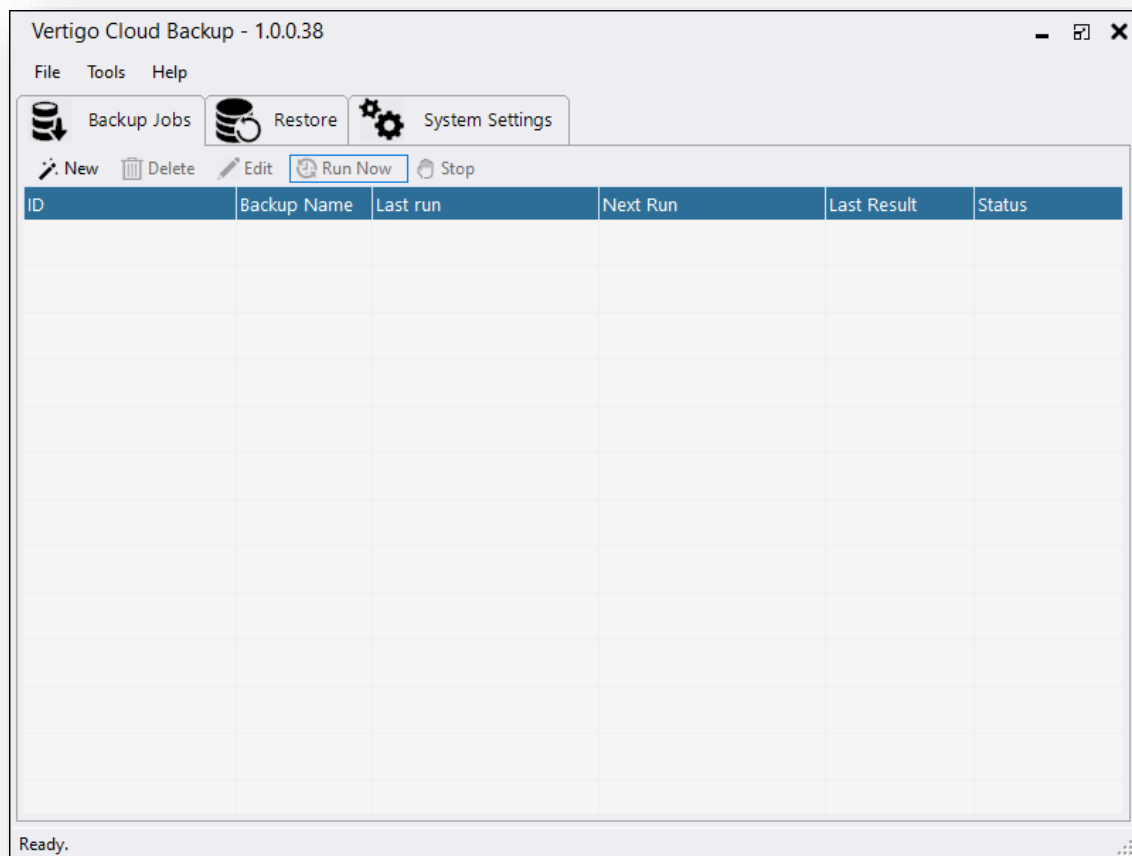
UNINSTALLING SOFTWARE

To uninstall Vertigo Cloud Backup, from the start menu select Control Panel and Program and Features. In the program list, right-click Vertigo Cloud Backup and select uninstall:





USING VERTIGO CLOUD BACKUP MANAGER



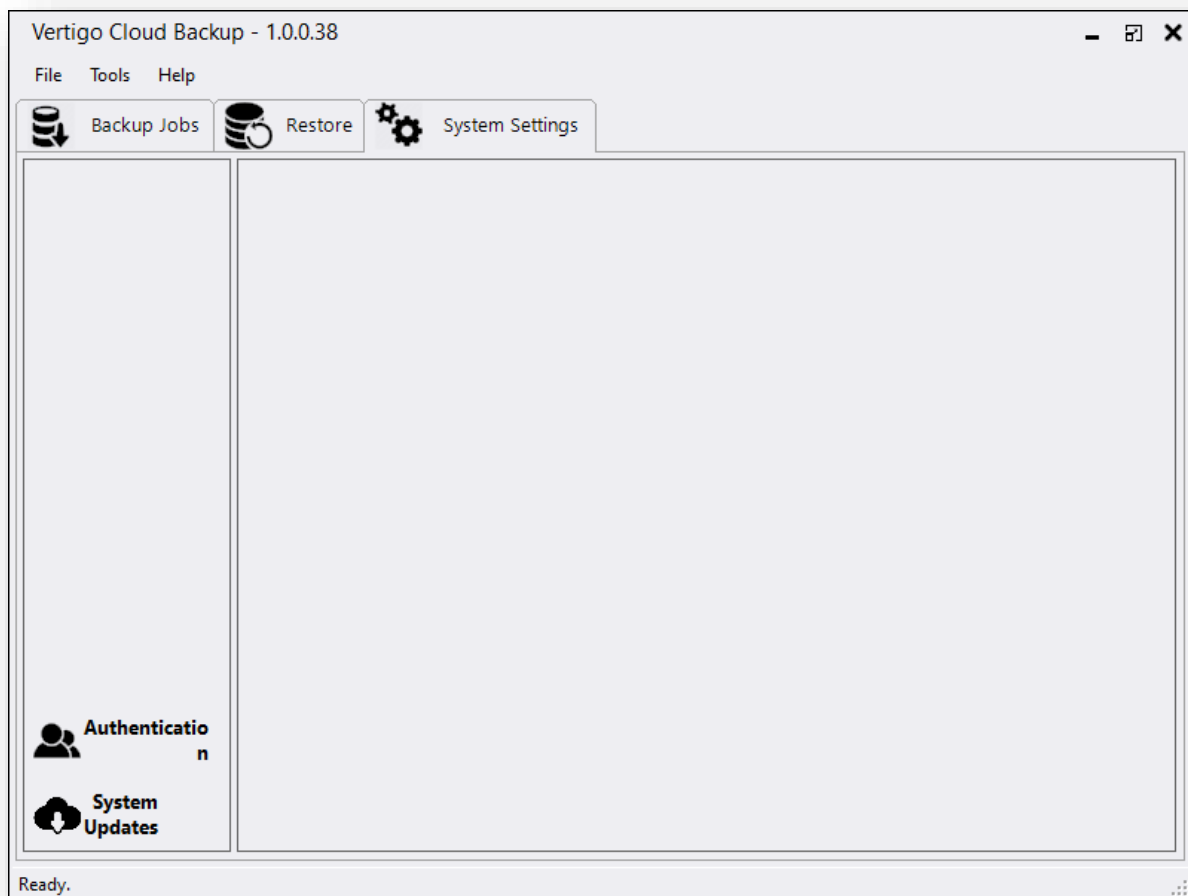


INITIAL SETTINGS

Before creating backup job, go to system settings menu to set the appropriate permission to use the console.

SYSTEM SETTINGS

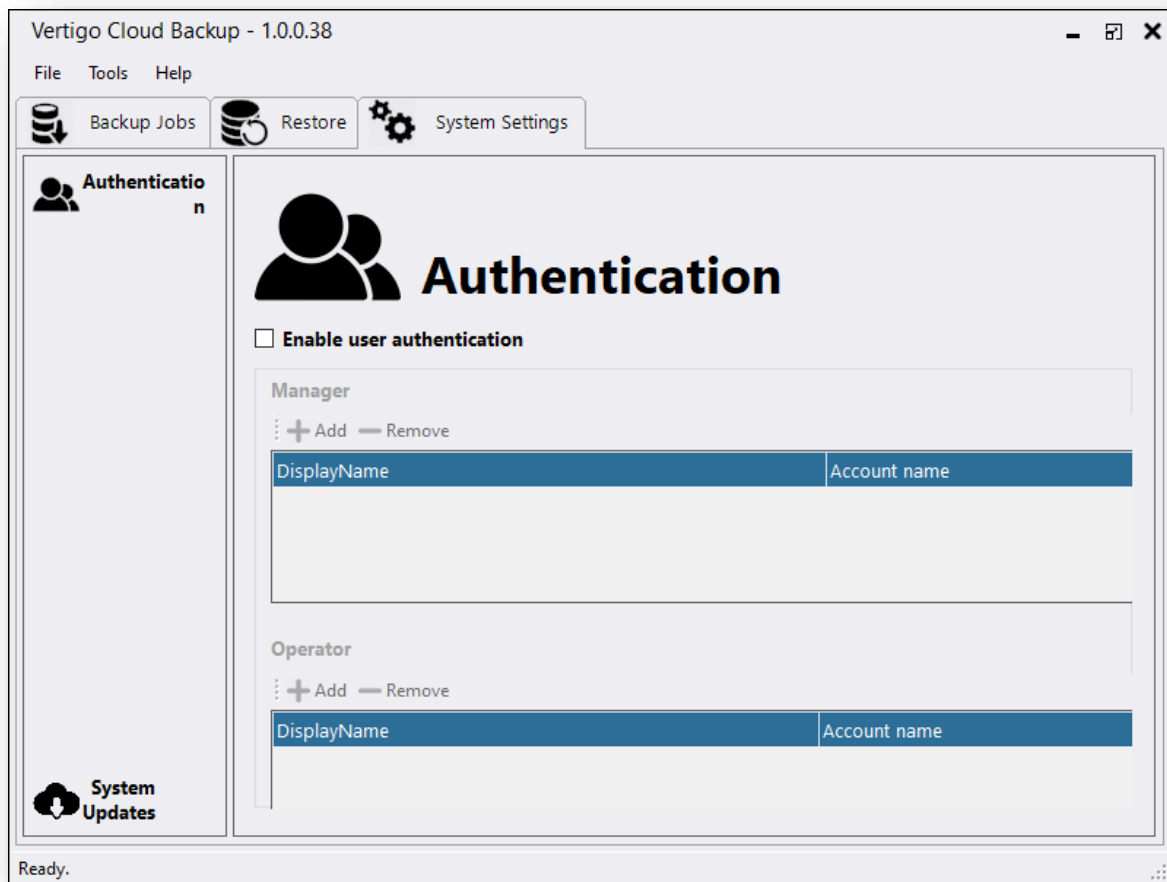
From System Settings menu you can enable user authentication and enable the automatic system updates.



AUTHENTICATION

If you want to login using authentication, settings must be enabled and user added to the groups of manager or operators. The role of the group are:

- Manager user have the full control for all function.
- Operators can only view the status of the scheduled backup jobs.



Note that to enable domain authentication, the machine must be a member of domain. Otherwise, you can enable local authentication.

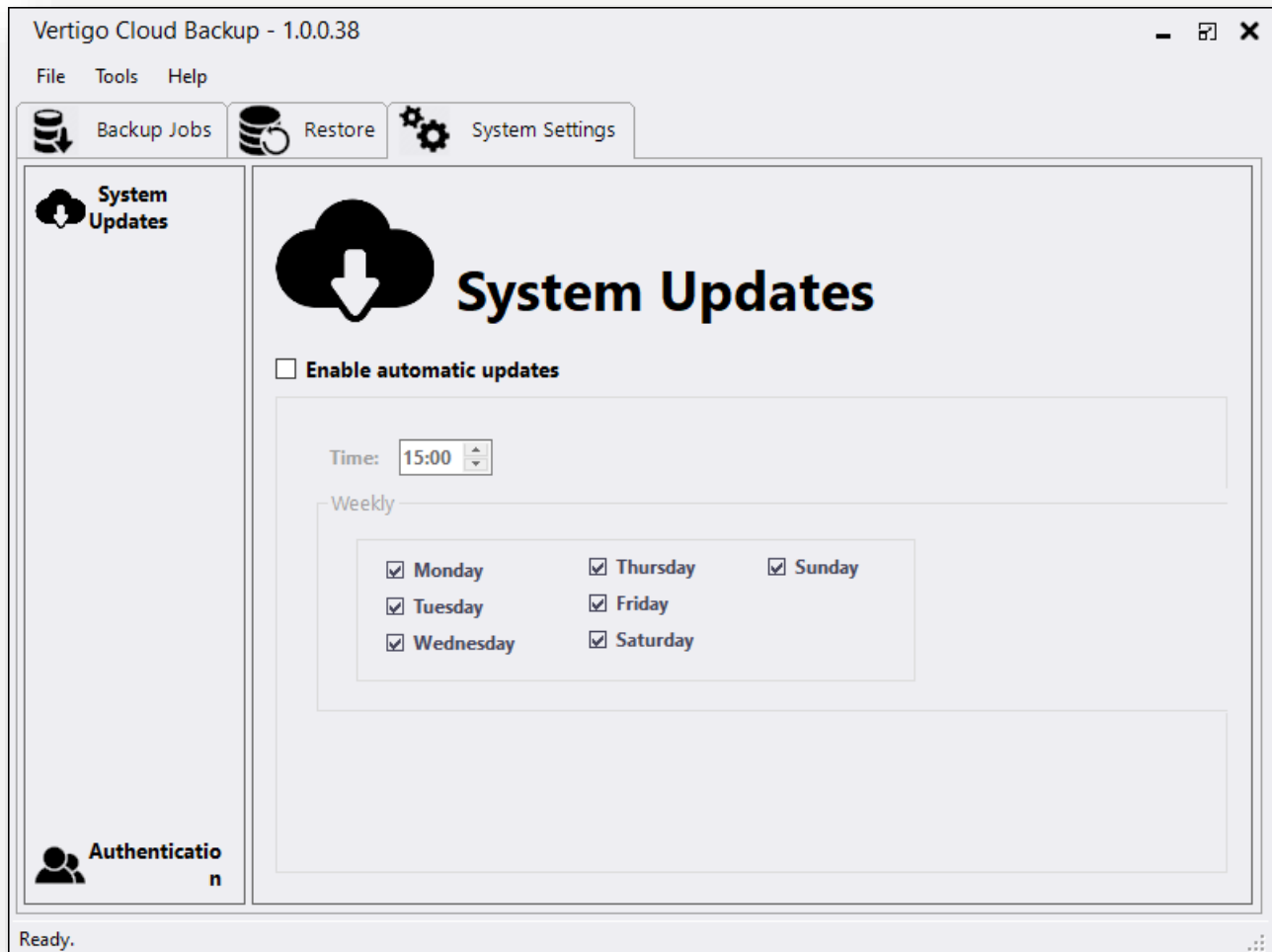
Select the account that you want to give the login permission to the console.

[illegible]



SYSTEM UPDATES

The backup software supports automatic updates. Enable automatic updates and select the timing. If there are running jobs, the update will be delayed to the end of the job.





BACKUP

CONFIGURING SCHEDULED BACKUP JOBS

To schedule a backup job, open Vertigo Cloud Backup Manager, go to main menu Backup Jobs and click on “New”. New Backup Wizard start. You must put data as below:

- JOB Title: the name you want to assign to your backup JOB (example: Daily Backup)
- VMware Settings: put the information to login to your vCenter Server or ESXi Server and click on Test Connections to validate.

- Apply filter on Folder or Resource pool (optional). If you want to filter the view of the virtual machine inventoried, use this option.
- Advanced Settings
 - Max concurrent Virtual Machine (max 5). For best performance, Vertigo suggest to use the default value.
 - Retry Failed VM: specify the number of tentative failed VM backup for retry.
- Disable Advanced Transport: For more information see “Advanced Transport Mode” paragraph.
- Select virtual machine that you want to add to the backup job. Use the right arrow to move the virtual machine select to the right column. Use double click on each virtual machine to change the preferences. For more information about, see “Virtual Machine Preferences” paragraph.



Source

Select Virtual Machines you want to backup up.

Virtual Machine	Disks
APP02	2 disk/s (200.00 GB)
AV01	1 disk (120.00 GB)
DC01	1 disk (70.00 GB)
DC02	1 disk (100.00 GB)
Dev01	1 disk (100.00 GB)
Dimension	2 disk/s (43.00 GB)
EV01	2 disk/s (1.70 TB)
EX01	8 disk/s (5.86 TB)
exchange.vertigo.cloud	2 disk/s (1.15 TB)
GW01	1 disk (30.00 GB)
LYNC01	2 disk/s (300.00 GB)
LYNC02	1 disk (100.00 GB)
LYNC03	1 disk (100.00 GB)
Mail	1 disk (200.00 GB)
MAIL4	1 disk (300.00 GB)
MAIL5	1 disk (200.00 GB)
OWNCLOUD01	2 disk/s (1.82 TB)

>>

<<

Double click to edit items

VirtualMachine	Disks
----------------	-------

< Back

Next >

Cancel



- Proceed to the next form to add a Target. Click on Add button to start wizard.
 - Select Target Type choosing from Local path, Network Location and HPE StoreOnce.

A screenshot of a software window titled "Target Type" with a subtitle "Select target type". It contains five radio button options: "Local path" (selected), "Network location", "HP StoreOnce", "Amazon S3 (coming soon)", and "Azure (coming soon)". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

- 1) Local path browses the disks visible from the resource explorer of the server. Can be a virtual disk or external magnetic tape for example.
- 2) Network location can be a NAS or another repository reachable from a network path.
- 3) HPE StoreOnce type is the same as the Network location type but it is optimized for improve performance.

Note that if you have virtual machine with disk over 2TB, use this type of target.

Specify target name. This name will be assigned to the folder created from the backup job where virtual machine will be saved.

- Select the path where save the backup
- Select the backup mode:
 - Full: full export of file
 - Synthetic: full export of file using differential method. The system takes the backup of the day before and update only the file modified.
 - Max backup to keep: the number of backup versions that you want to retain
- Schedule for Weekly or Monthly. Scheduling this, the job creates the backup set as settings.
- Return to main wizard after target creation end, go ahead and enable Cloud Backup Upload. For more information about configuration and plan see "Cloud Backup" paragraph
- Enable Email Report to send email report for the backup job.
- Job Schedule. For more information about, see "Scheduling Jobs Mode" paragraph.

More than one Target can be configured. You will have more backup set named as the target name.



EDITING BACKUP JOBS

Editing backup jobs from main tab “Backup Jobs” using tab “Edit” button after selected the job that you need to edit. Use the wizard to change setting of the job.

DELETING BACKUP JOBS

Deleting backup jobs from main tab “Backup Jobs” using “Delete” button after selected the job that you need to delete.

RUNNING BACKUP MANUALLY

Running backup job manually from main tab “Backup Jobs” using “Run Now” button after selected the job that you need to start immediately.

STOP RUNNING BACKUP JOBS

Stop running job from main tab “Backup Jobs” using “Stop” button after selected the job that you need to end.

Note that all task described in this page required an undefined time to goal that depend also from VMware process.



CONNECT MORE VCENTER SERVER/ESXI SERVER

More than one Datacenter can be configured through console for export VM. Using the same method to connect on new vCenter Server/ESXi Server: from Vertigo Cloud Backup Manager, on main menu "Backup Jobs" click on "New" tab and set the other Datacenter.

SCHEDULING JOBS MODE

From this form, you can select the schedule mode use in the job:

Job Schedule

When do you want to start the Job?

Settings

- ☒ On demand
- ☐ One time
- ☐ Daily
- ☐ Weekly
- ☐ Monthly

< Back Next > Cancel

The mode available are:

- On demand: through this mode, job can be start from other software or Windows task. For more information, see "Scheduling On demand Job" paragraph.
- One time: run one time. Next run can be done manually.
- Daily
- Weekly
- Monthly

Note that for each job the schedule set in the Target must be the same on the job schedule. Otherwise the job will not start.



SCHEDULING ON DEMAND JOB

Schedule a backup job using on demand method, can be useful to integrate Vertigo Cloud Backup to other software that save virtual machine on the tape.

If you need to start the VCB job backup before other external process using pre-post command, you must specify the id number in the pre-post command configuration as below:

"C:\Program Files\Vertigo Cloud Backup\CloudBackup.Executor.exe" --id VCB-18089

Where id number is visible from the VCB console in the details as in the figure under summary tab

Vertigo Cloud Backup - 1.0.0.39

File Tools Help

Backup Jobs Restore System Settings

New Delete Edit Run Now Stop

ID	Backup Name	Last run	Next Run	Last Result	Status
VCB-18089	Backup Gior...	4/2/2020 11:30:00 PM	On demand	Warning	Idle
VCB-35472	Backup Stor...	3/27/2020 8:00:00 PM	4/3/2020 8:00:00 PM	Successful	Idle
VCB-86289	bck exchang...	3/25/2020 7:24:00 PM	On demand	Successful	Idle

Summary Monitor Job Logs Job History

VCB-18089
Backup Giornaliero
(Idle)

Last run: 4/2/2020 11:30:00 PM
Next run: On demand
Last result: Warning

Target Status

BackupVM 2.8.1.1
0 bytes of 9 TB
● IN USE
● FREE

Ready.



VIRTUAL MACHINE PREFERENCES

For each virtual machine, you can select:

- Virtual disk must to be saved in the backup job
- Snapshot memory
- Allow non-quiescence snapshot to force the continue of the job reverting to full backup if fail the quiescence
- Download all config files of virtual machine
- Shutdown the virtual machine before run the snapshot. The VM will start immediately after the snapshot end.
- Never upload to cloud the Virtual Machine if the Replication feature is enabled. For more information, see “Cloud Backup” paragraph.
- Leave snapshot until next backup. Do not delete the snapshot until the next backup start.

APP02

Selected Virtual disks to backup

Disk	Size	UUID
☒ [DS04] APP02/APP02.vmdk	100.00 GB	6000C29d-e248-c53a-01d3-4aafdb...
☒ [DS09] APP02/APP02_1.vmdk	100.00 GB	6000C291-2956-393b-29e1-707bd8...

☐ Snapshot memory

☒ Allow non-quiescence snapshot (will revert to full backup if quiescence fails)

☐ Always shutdown VM before snapshot operations

☐ Download all config files (logs, memory, etc...)

☐ Never upload to cloud

☐ Leave snapshot until next backup

Apply

Cancel



ADVANCED TRANSPORT MODE

Virtual Disk Transport Methods

VMware supports file-based or image-level backups of virtual machines hosted on an ESX/ESXi host with SAN or iSCSI storage. Virtual machines can read data directly from shared VMFS LUNs, so backups are very efficient and do not put significant load on production ESX/ESXi hosts or the virtual network.

This VDDK release makes it possible to integrate storage-related applications, including backup, using an API rather than a command-line interface. VMware has developed back-ends that enable efficient access to data stored on ESX/ESXi clusters. Third party developers can access these data paths (called advanced transports) through the virtual disk library. Advanced transports provide the most efficient transport method available, to help maximize application performance.

VMware supports four transport methods discussed below: file, LAN (NBD), SAN, and HotAdd.

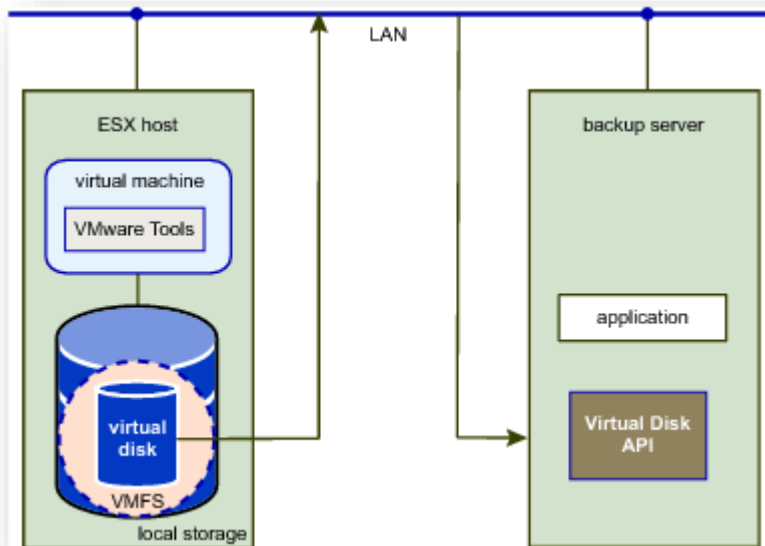
File Access

The library reads virtual disk data from /vmfs/volumes on ESX/ESXi hosts, or from the local filesystem on hosted products. This file transport method is built into the virtual disk library, so it is always available.

LAN (NBD) Transport

When no other transport mode is available, storage applications can use LAN transport for data access, either NBD (network block device) or NBDSSL (encrypted). NBD is a Linux-style kernel module that treats storage on a remote host as a block device. NBDSSL uses SSL to encrypt all data passed over the TCP/IP connection. The NBD transport method is built into the virtual disk library, and is always available.

LAN (NBD) Transport Mode for Virtual Disk



In this mode, the ESX/ESXi host reads data from storage and sends it across a network to the backup server. For LAN transport, virtual disks cannot be larger than 1TB each. As its name implies, this transport mode is not LAN-free, unlike SAN and HotAdd transport. LAN transport offers the following advantages:

The ESX/ESXi host can use any storage device, including local storage or NAS.



The backup server could be a virtual machine, so you can use a resource pool and scheduling capabilities of VMware vSphere to minimize the performance impact of backup. For example, you can put the backup server in a different resource pool than the production ESX/ESXi hosts, with lower priority for backup.

If the ESX/ESXi host and backup server are on a private network, you can use unencrypted data transfer, which is faster and consumes fewer resources than NBDSSL. If you need to protect sensitive information, you have the option of transferring virtual machine data in an encrypted form.

NFC Session Limits

NBD employs the VMware network file copy (NFC) protocol. NFC Session Connection Limits shows limits on the number of network connections for various host types. VixDiskLib_Open() uses one connection for every virtual disk that it accesses on an ESX/ESXi host. VixDiskLib_Clone() also requires a connection. It is not possible to share a connection across disks. These are host limits, not per process limits, and do not apply to SAN or HotAdd.

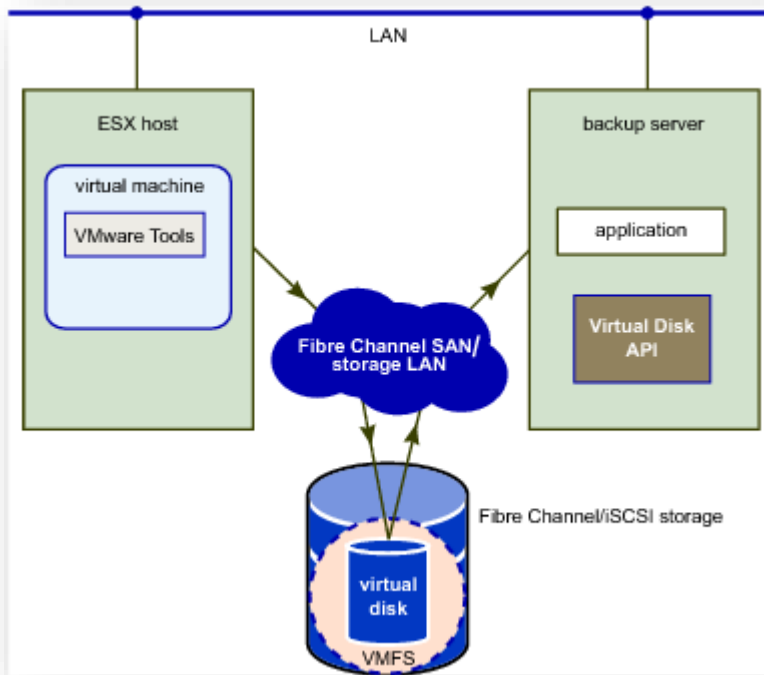
NFC Session Connection Limits		
Host Platform	When Connecting	Limits You To About
vSphere 4	to an ESX host	9 connections directly, 27 connections through vCenter Server
vSphere 4	to an ESXi host	11 connections directly, 23 connections through vCenter Server
vSphere 5	to an ESXi host	Limited by a transfer buffer for all NFC connections, enforced by the host; the sum of all NFC connection buffers to an ESXi host cannot exceed 32MB. 52 connections through vCenter Server, including the above per-host limit.

SAN Transport

In this mode, the virtual disk library obtains information from an ESX/ESXi host about the layout of VMFS LUNs, and using this information, reads data directly from the SAN or iSCSI LUN where a virtual disk resides. This is the fastest transport method for applications deployed on a SAN-connected ESX/ESXi host.

SAN mode requires applications to run on a physical machine (a backup server, for example) with access to FibreChannel or iSCSI SAN containing the virtual disks to be accessed. This is an efficient data path, as shown in SAN Transport Mode for Virtual Disk, because no data needs to be transferred through the production ESX/ESXi host. If the backup server is also a media server, with optical media or tape drives, backups can be made entirely LAN-free.

SAN Transport Mode for Virtual Disk

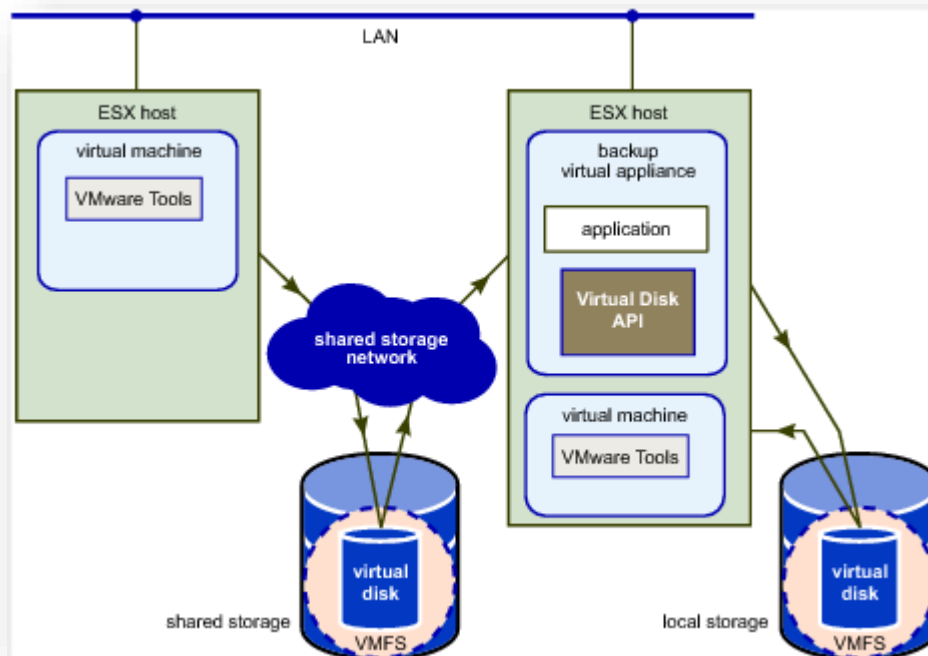


HotAdd Transport

If the application runs in a virtual machine, it can create a linked-clone virtual machine from the backup snapshot and read the linked clone's virtual disks for backup. This involves a SCSI HotAdd on the host where the application is running – disks associated with the linked clone are HotAdded on the virtual machine. VixTransport handles the temporary linked clone and hot attachment of virtual disks. VixDiskLib opens and reads the HotAdded disks as a “whole disk” VMDK (virtual disk on the local host). This strategy works only with virtual machines with SCSI disks and is not supported for backing up virtual machines with IDE disks.



HotAdd Transport Mode for Virtual Disk

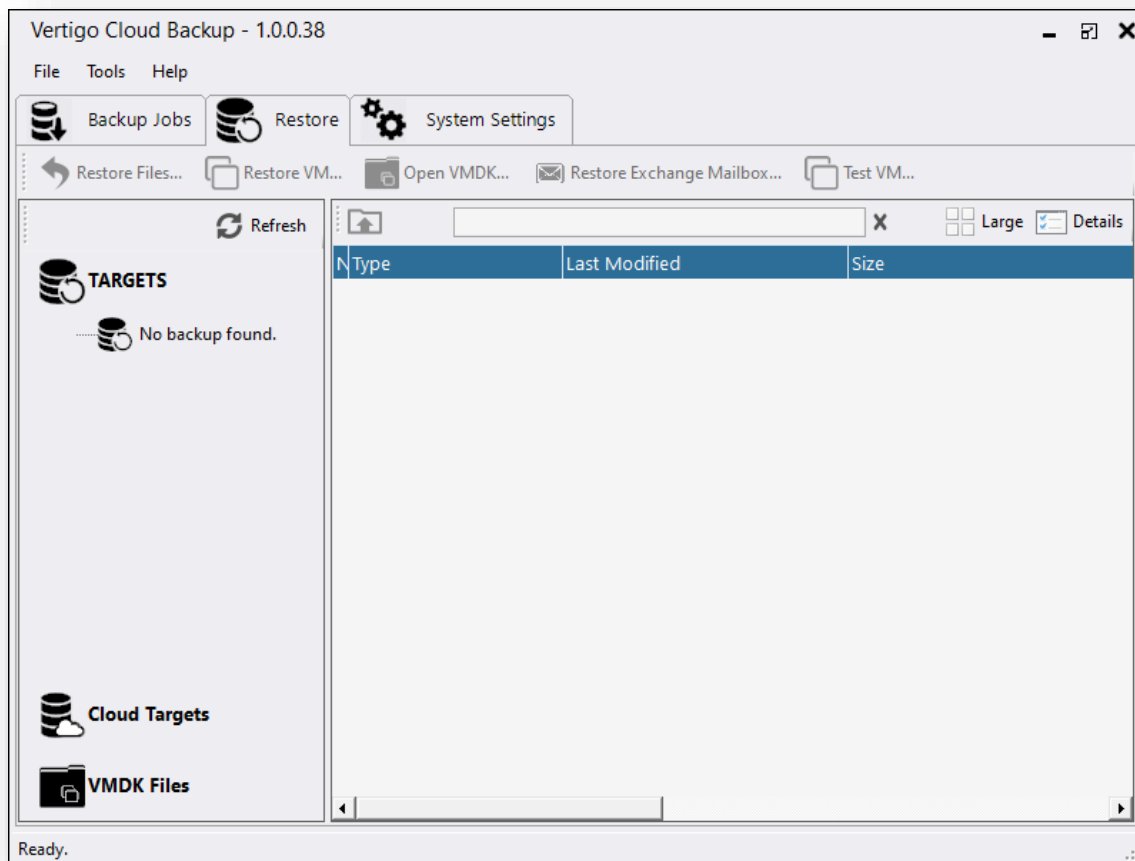


SCSI HotAdd is a good way to get virtual disk data from guest virtual machines directly to the ESX/ESXi host on which they are running.

Running the backup server on a virtual machine has two advantages: it is easy to move a virtual machine to a new media server, and it can back up local storage without using the LAN, although this incurs overhead on the physical ESX/ESXi host than when using SAN transport mode.



RESTORE





Restore VM

Use Restore VM button to start wizard. Move VM that need to be restored in the right column selecting the vm and click on the arrow.

Source

Select Virtual Machines you want to restore.

Machine	Backup Date	Path	D
MILSRV...	3/14/2020 1:02:00 AM	Z:\Backu...	1
02	3/14/2020 12:59:00 AM	Z:\Backu...	2
NA01	3/14/2020 12:56:00 AM	Z:\Backu...	2
DS01	3/14/2020 12:56:00 AM	Z:\Backu...	1
2008	3/26/2019 12:49:00 PM	Z:\Backu...	1
RDS01	3/13/2020 12:50:00 AM	Z:\Backu...	1
RDS02	3/13/2020 12:48:00 AM	Z:\Backu...	1
srv01web	3/14/2020 12:50:00 AM	Z:\Backu...	1
Argo	3/14/2020 12:49:00 AM	Z:\Backu...	2
ic01	11/26/2019 2:06:00 AM	Z:\Backu...	2
app	3/14/2020 12:43:00 AM	Z:\Backu...	4
dc	3/14/2020 12:43:00 AM	Z:\Backu...	2
	3/14/2020 12:40:00 AM	Z:\Backu...	1
.spektra.it	3/14/2020 12:40:00 AM	Z:\Backu...	2
	3/14/2020 12:38:00 AM	Z:\Backu...	1
.spektra.it	3/14/2020 12:37:00 AM	Z:\Backu...	1
MSAP	11/26/2019 2:44:00 AM	Z:\Backu...	7
MSAPBW	11/26/2019 3:46:00 AM	Z:\Backu...	7

>><<

Virtual Machine

< BackNext >Cancel



Go ahead with the wizard to the next form where you must to specify the information access for the vCenter Server or ESXi Server where you will restored the VM.

[illegible]

Double click on virtual machine to edit the properties and complete the information required to the restore task. Note that if the virtual machine already exist, you must change the name of the virtual machine restored.

- Complete the configuration with Host information, Folder name, Resource Pool assigned and Datastore.
- Choose if you need to restore one or more disk.
- With option “Allow Partial Restore” enabled, restore process continue even one or more disk fail
- Leaves option “Generalize Virtual Machine” as is if you need to removes unique information from your Windows installation



cdudc01

Virtual Machine Name:
Please choose a name that doesn't exists on target vCenter. Otherwise restore will fail.

Host:

Folder:

Resource Pool:

Datastore:

Optional Settings

Selected Virtual disks to restore

Disk	Size	UUID
☒ [DS05] cdudc01/cdudc01.vmdk	40.00 GB	6000C290-c982-eab6-e195-ddcd493a0...
☒ [DS05] cdudc01/cdudc01_1.vmdk	300.00 GB	6000C29f-e6f8-fe4a-7ddc-87d9c4e282...

☒ **Allow Partial Restore** (leaves files if backup fails)

☒ **Generalize Virtual Machine** (resets all mac addresses)

OK

Cancel

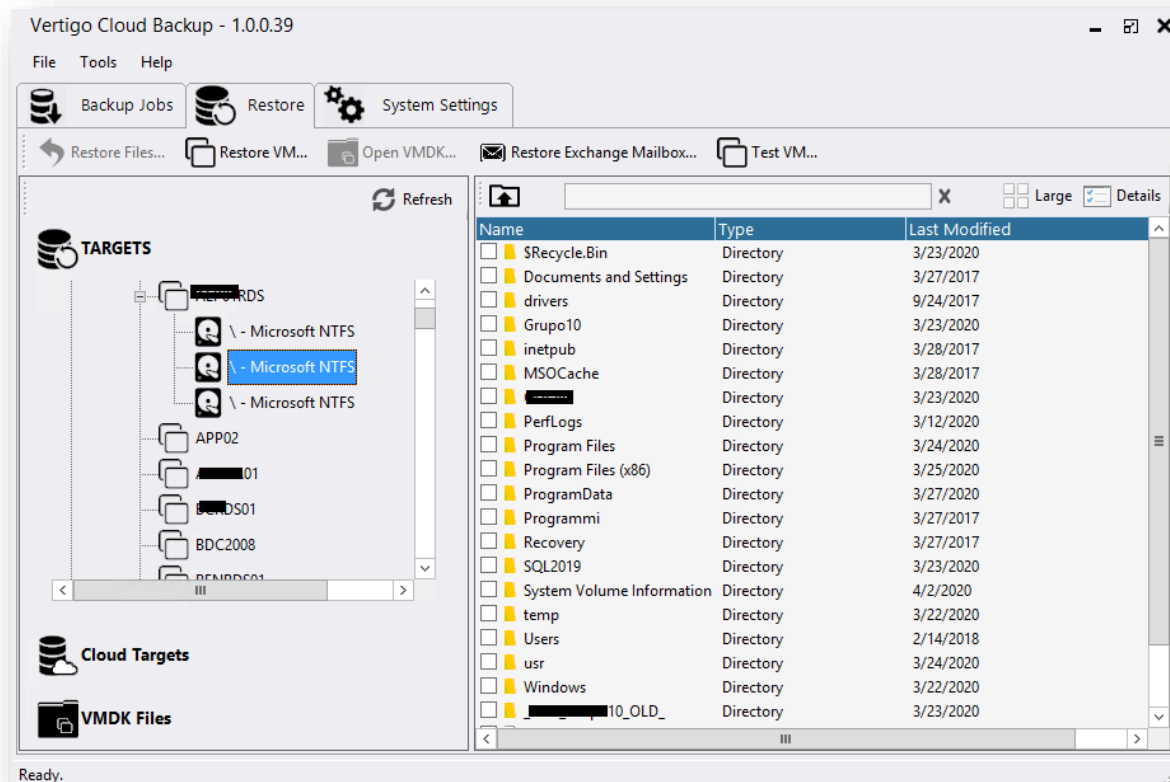


TARGETS

Select target restore to browse VMDK disk and restore file and folder granularly.

- To restore, select the one or more files and/or folders and click button “Restore Files” on the top of the menu. Select a path to save the restored data.

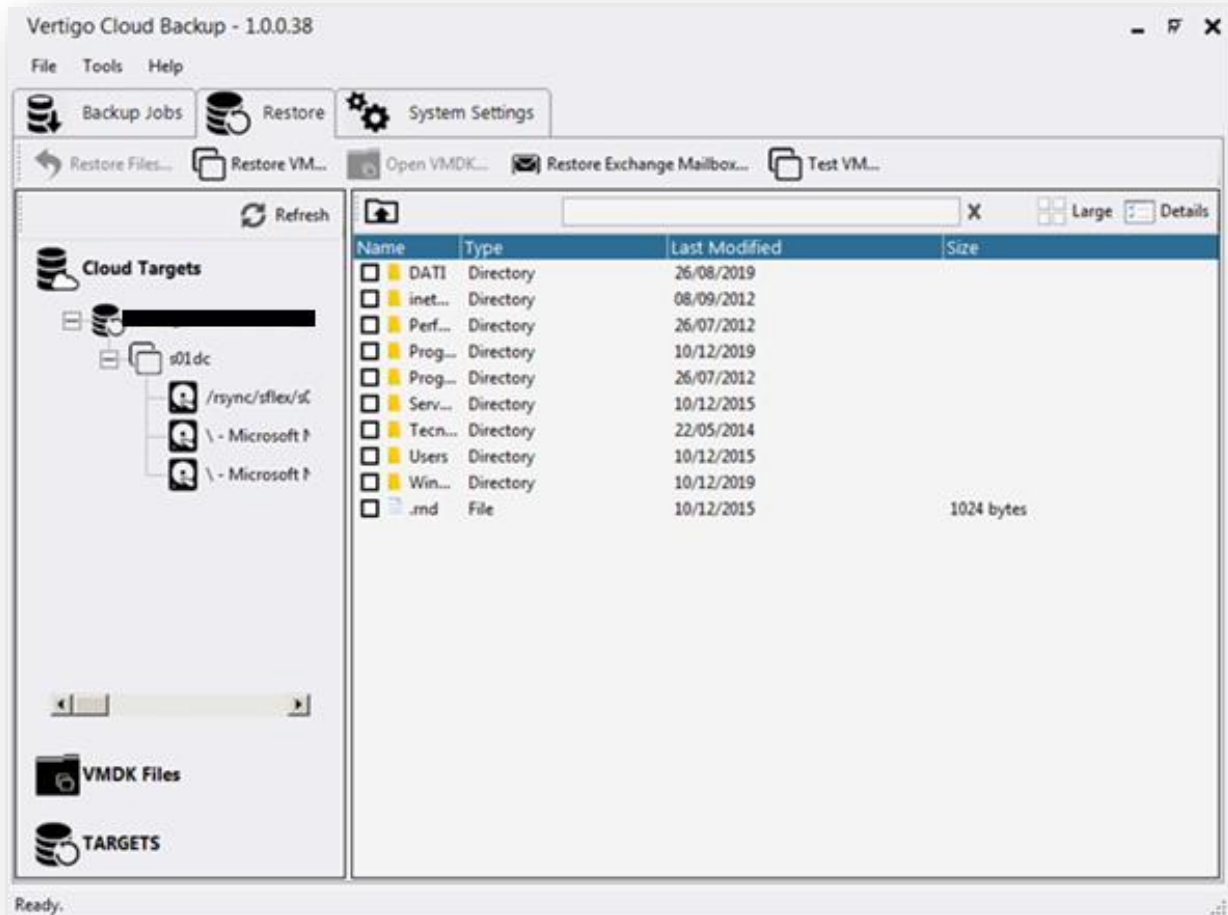
Restored data will have the parent folder path.





CLOUD TARGETS

Use this restore method if you have enabled Cloud Upload.



Select server in the Cloud Targets and choose restore method from restore file/folder or virtual machine

- Browse vmdk to restore files and/or folders and click button "Restore Files" on the top of the menu. Select a path to save the restored data.
- Restore VM in your on-premise Datacenter.

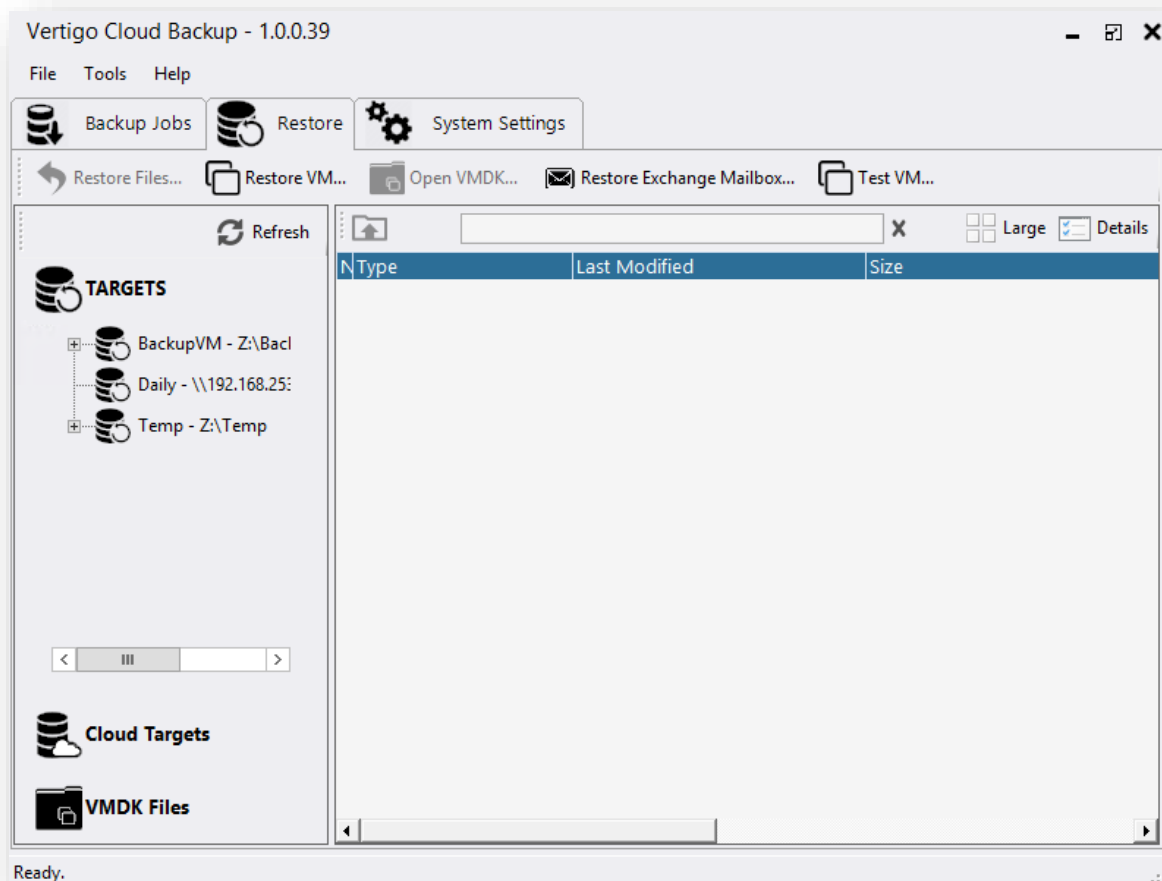
VMDK FILES

VMDK Files allow you to open .vmdk files from another location to be restored. Select VMDK Files option e click on Open VMDK button on the top of the menu



VIRTUAL MACHINE RECOVERY VERIFICATION

Vertigo Cloud Backup & Replication could run a Test VM for verify the integrity of operating system.





CLOUD BACKUP

Upload

☐ **Enable Cloud Upload**

Connection Details
IP address/Name:
User name:
Password:

General Settings
Upload timeout: Seconds
Retry attempts:

< Back

Next >

Cancel

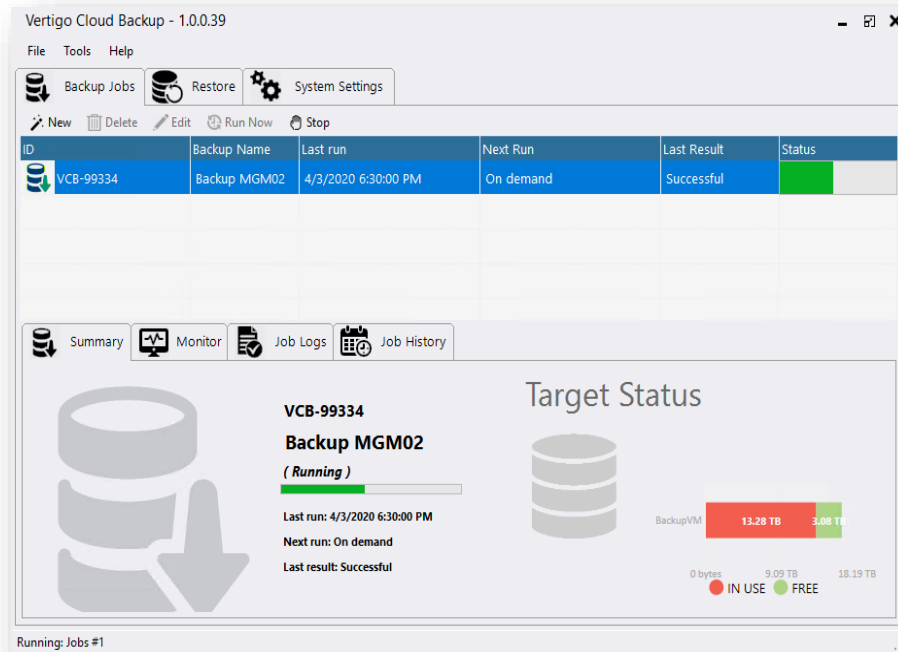
To enable Plan for replication feature, contact Vertigo Consulting to the reference below:

- Phone: +39 039 6056691
- Email: commerciale@vertigoconsulting.it

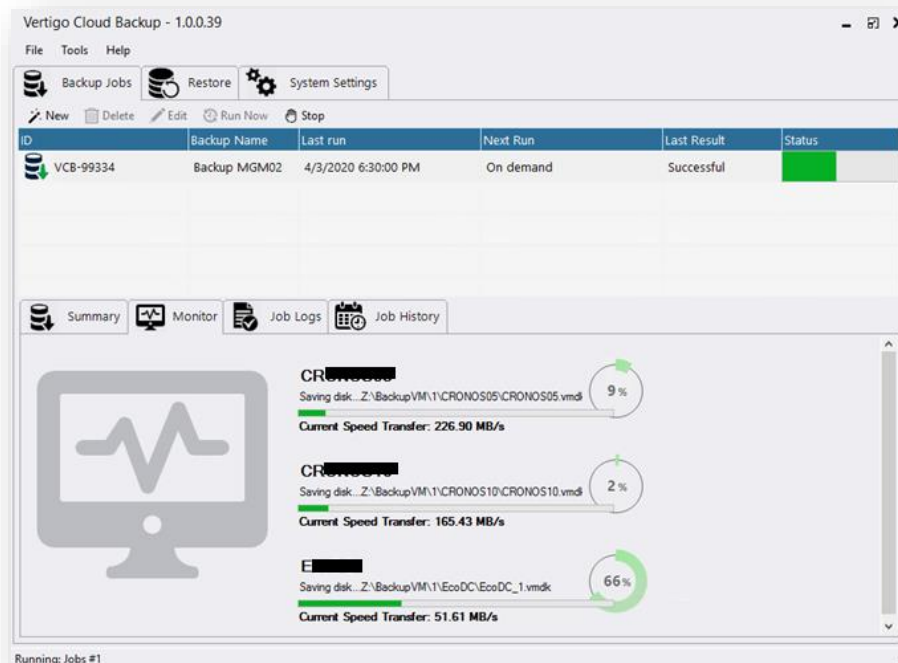


REPORTING

SUMMARY BACKUP JOBS



MONITOR BACKUP JOBS





JOBS LOGS

Through this tab can be view real-time monitor logs

JOB HISTORY

The screenshot displays the 'Vertigo Cloud Backup - 1.0.0.39' application window. The 'Job History' tab is active, showing a table of backup jobs. Below the table, a detailed view of a specific job is shown, including a tree structure of backed-up files and their sizes.

ID	Backup Name	Last run	Next Run	Last Result	Status
VCB-99334	Backup MGM02	4/3/2020 6:30:00 PM	On demand	Successful	Success

Job Details: 4/2/2020 6:30:00 PM - Successful - Total Saved: 5.39 TB - Time Elapsed: 10 hours,47 minutes,39 seconds

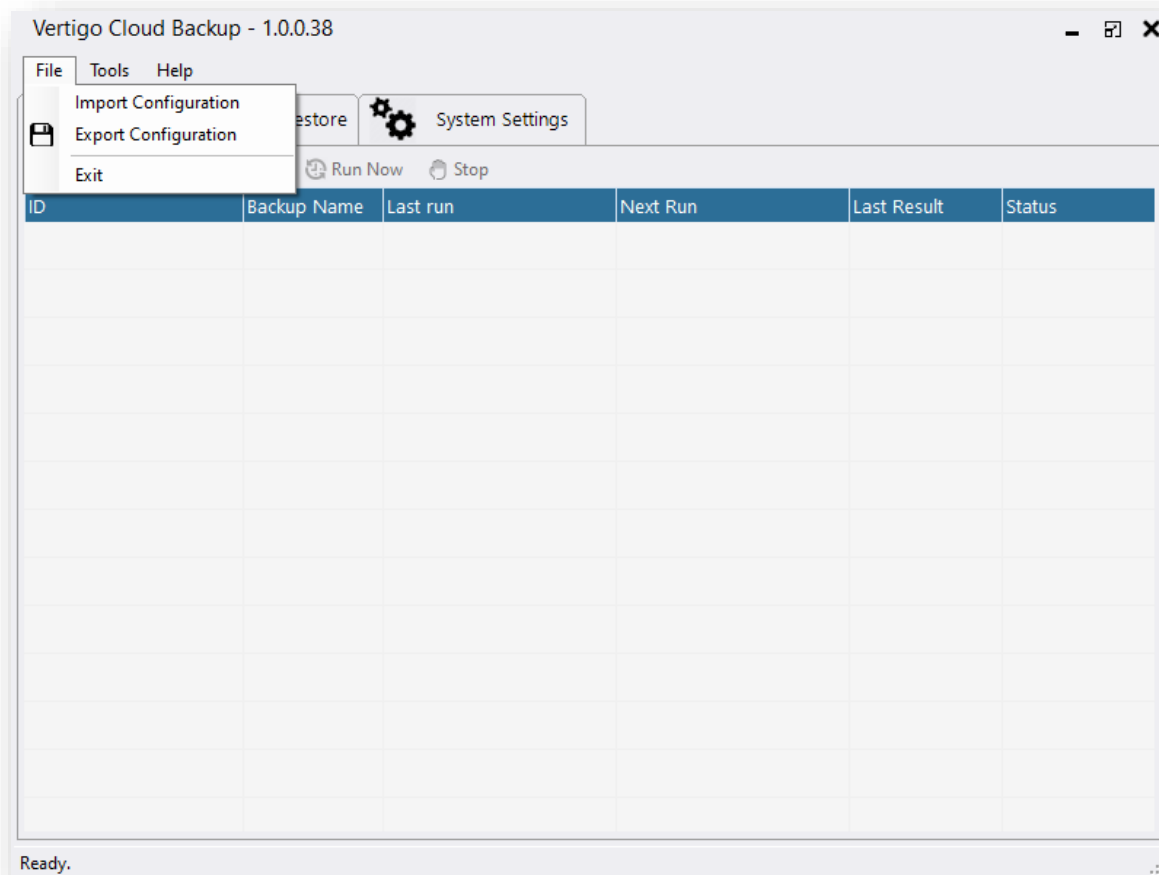
- EB2 (27.51 GB)
- srv01rds: bcal (94.47 GB)
- EB (45.61 GB)
- EV (49.34 GB)
- AP (210.21 GB)
- OG (45.21 GB)
- QL (721.80 GB)
- 509 (26.22 GB)

Running: Jobs #1



IMPORT AND EXPORT CONFIGURATION

Backup jobs can be exported in a .db file through the console to be imported later. Use Import Configuration and Export Configuration from File menu.





Address	[Company Address]
Description	Vertigo Cloud Backup & Replication
Version	1.0.0.38
Data:	[Publish Date]
Author:	Utente di Microsoft Office

ATTACHED DOCUMENTS	
CODE	SUBJECT