

INSTALL VERITAS BACKUP EXEC v20.2.1188 ON WINDOWS SERVER 2016 DOMAIN CONTROLLER

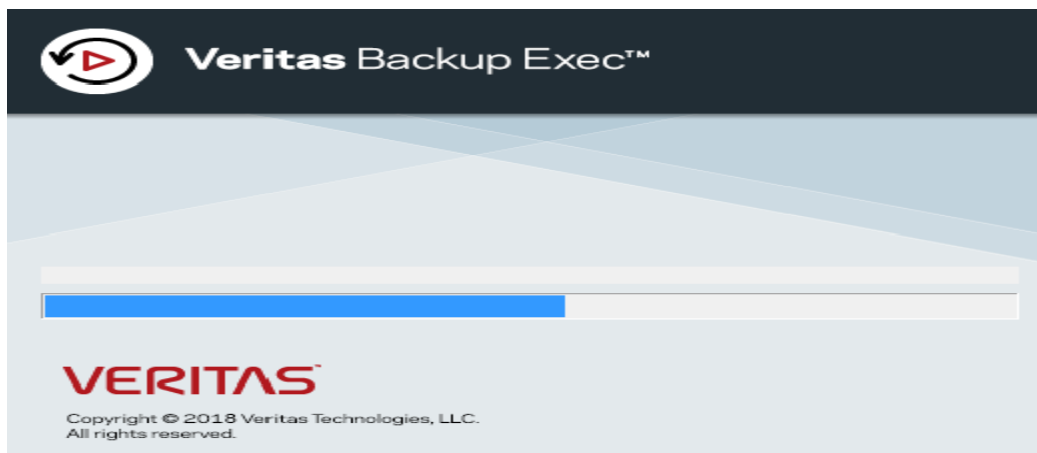
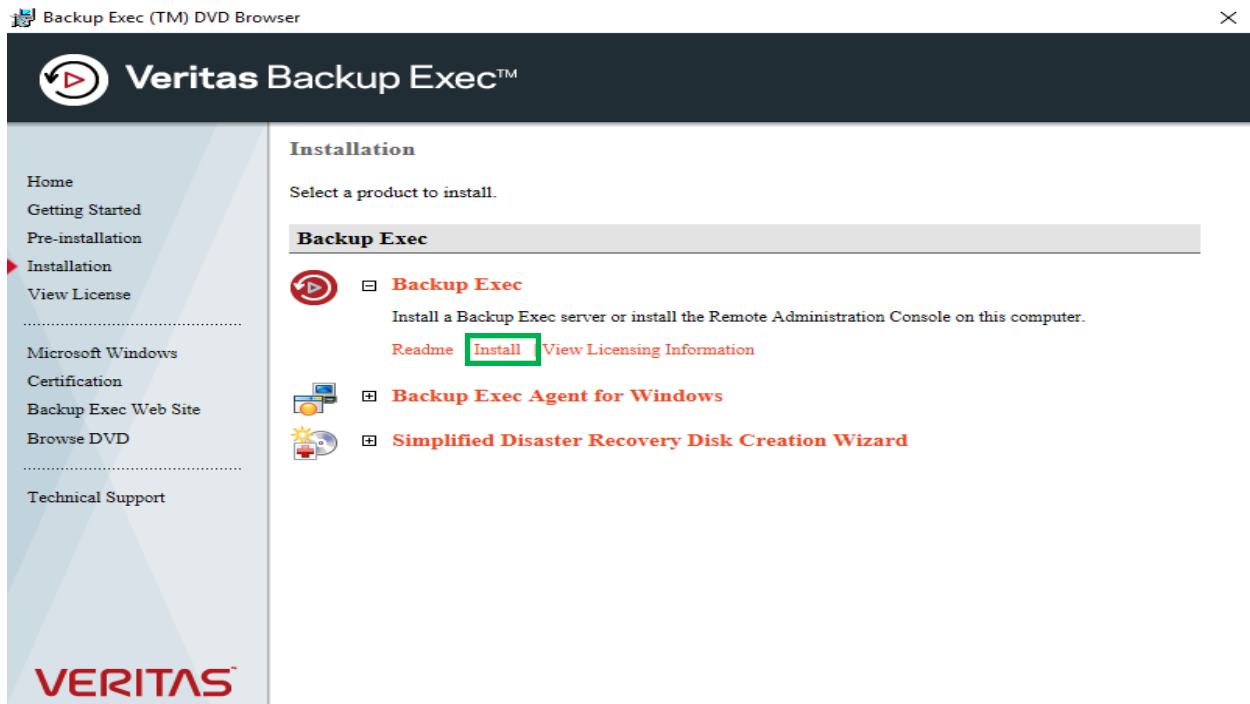
First download trial copy from Veritas site or from this link

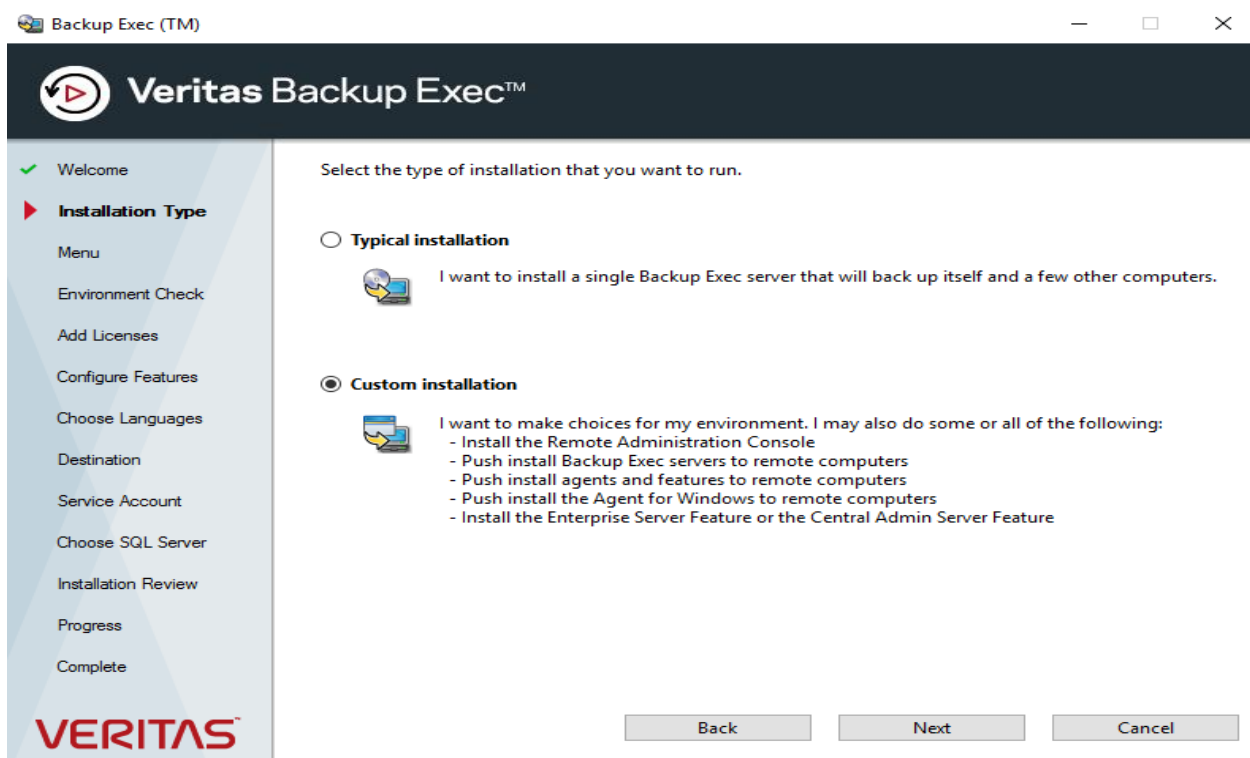
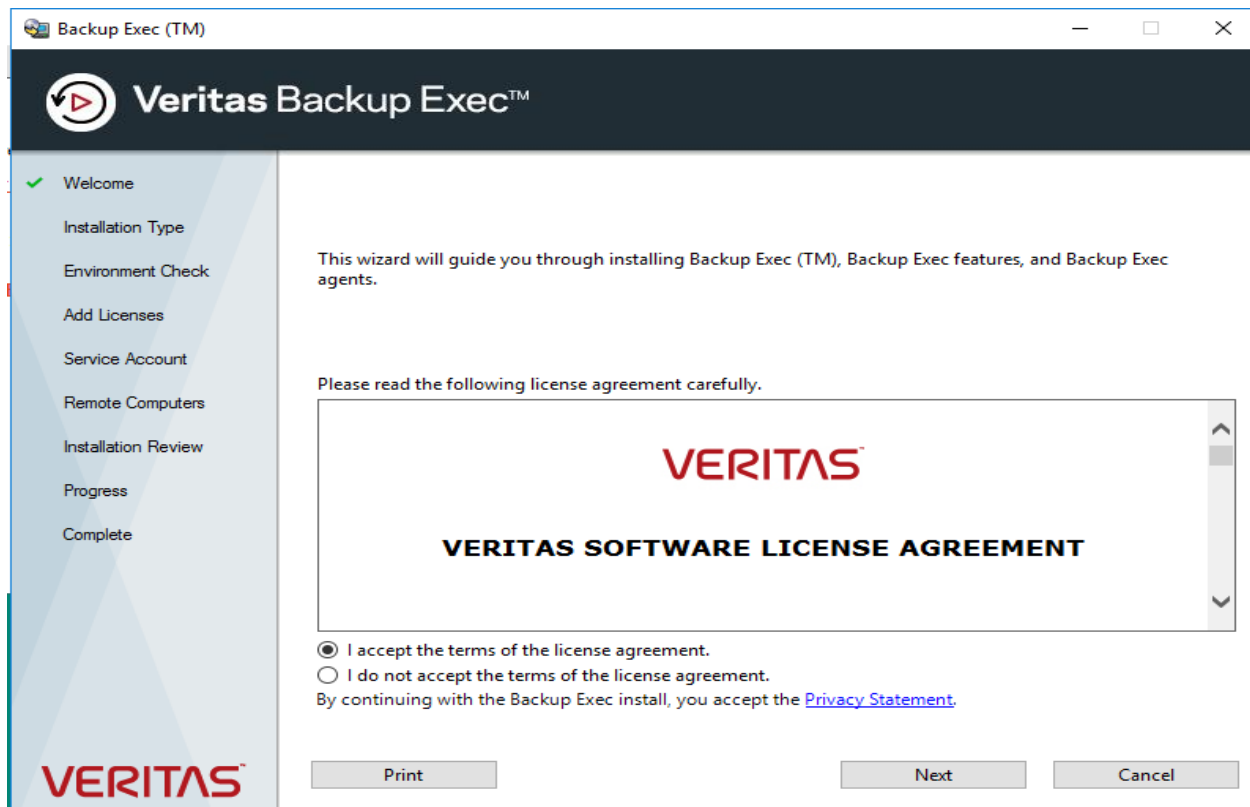
<https://www.teamos-hkrg.com/index.php?threads/symantec-veritas-backup-exec-20-2-1188-1650-x64.63870/>

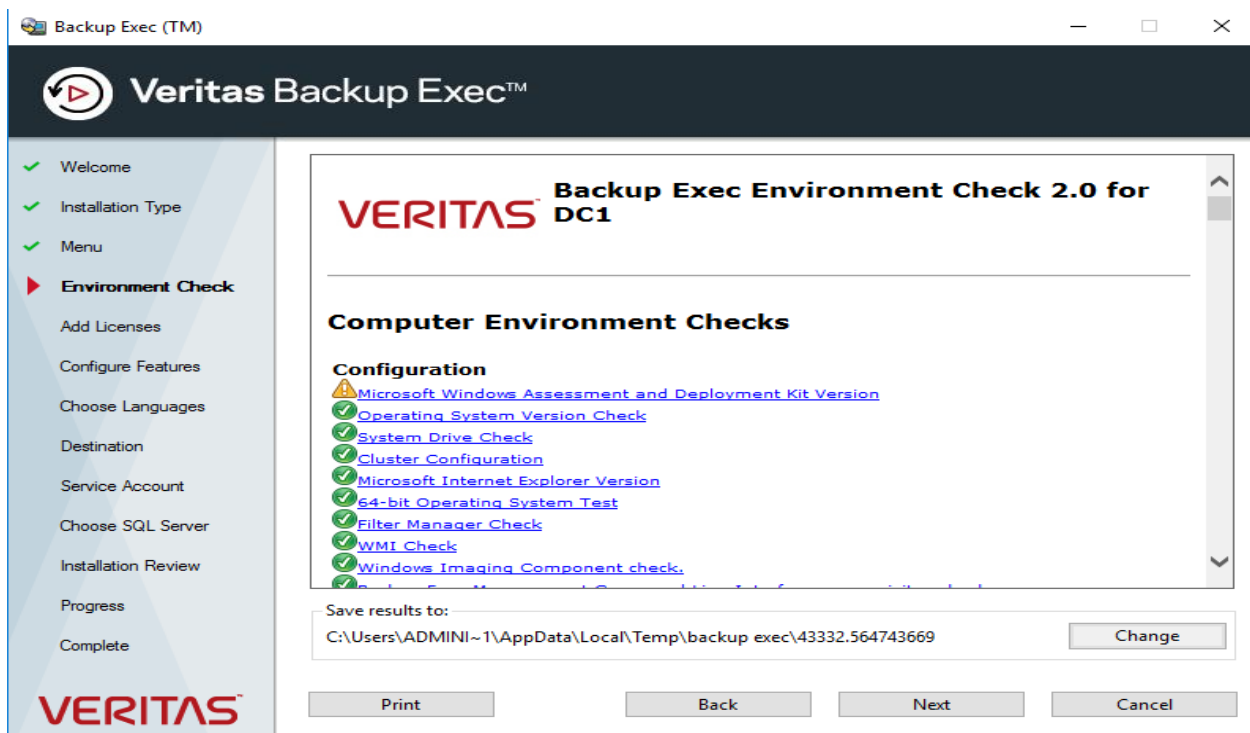
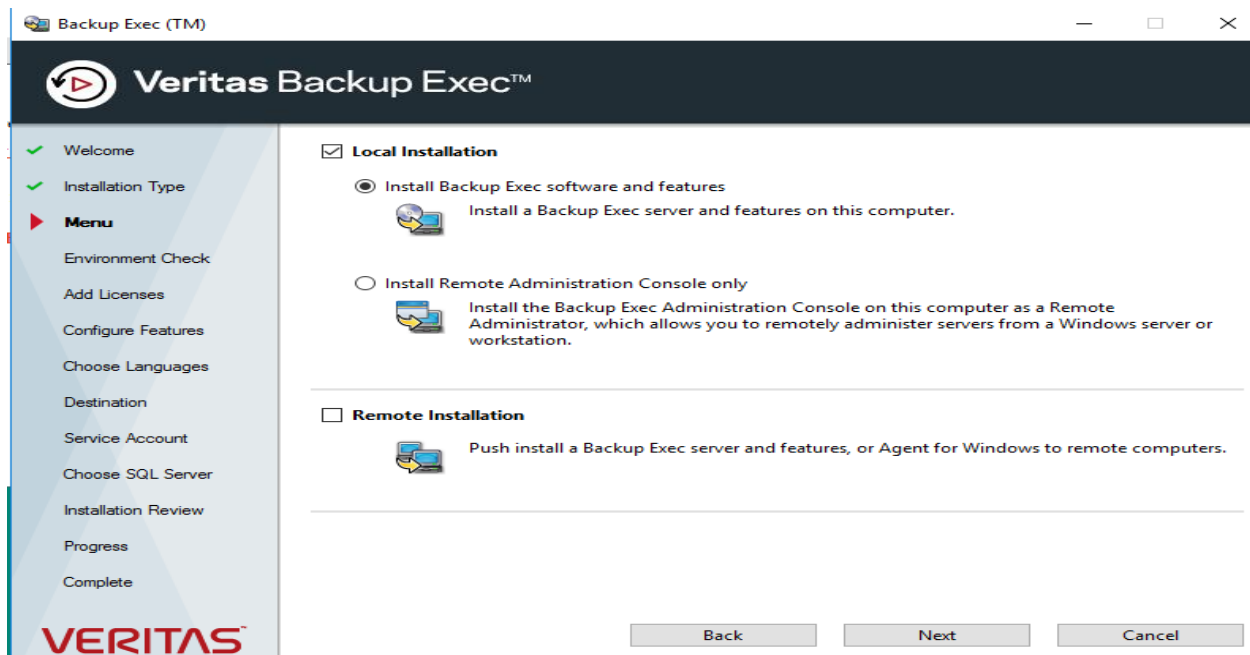
Extract the ISO to root of C drive and run Browser.exe

> DC1 > OS (C:) > Install

Name	Date modified	Type	Size
BE	27-Jul-2018 6:50 AM	File folder	
bin	27-Jul-2018 6:50 AM	File folder	
Linux	27-Jul-2018 6:50 AM	File folder	
AutoRun.inf	23-Oct-2017 2:54 ...	Setup Information	1 KB
Browser.exe	11-Jan-2018 7:11 P...	Application	1,810 KB
Browser.ini	23-Oct-2017 2:54 ...	Configuration sett...	1 KB
DVD.txt	27-Jul-2018 6:50 AM	Text Document	1 KB







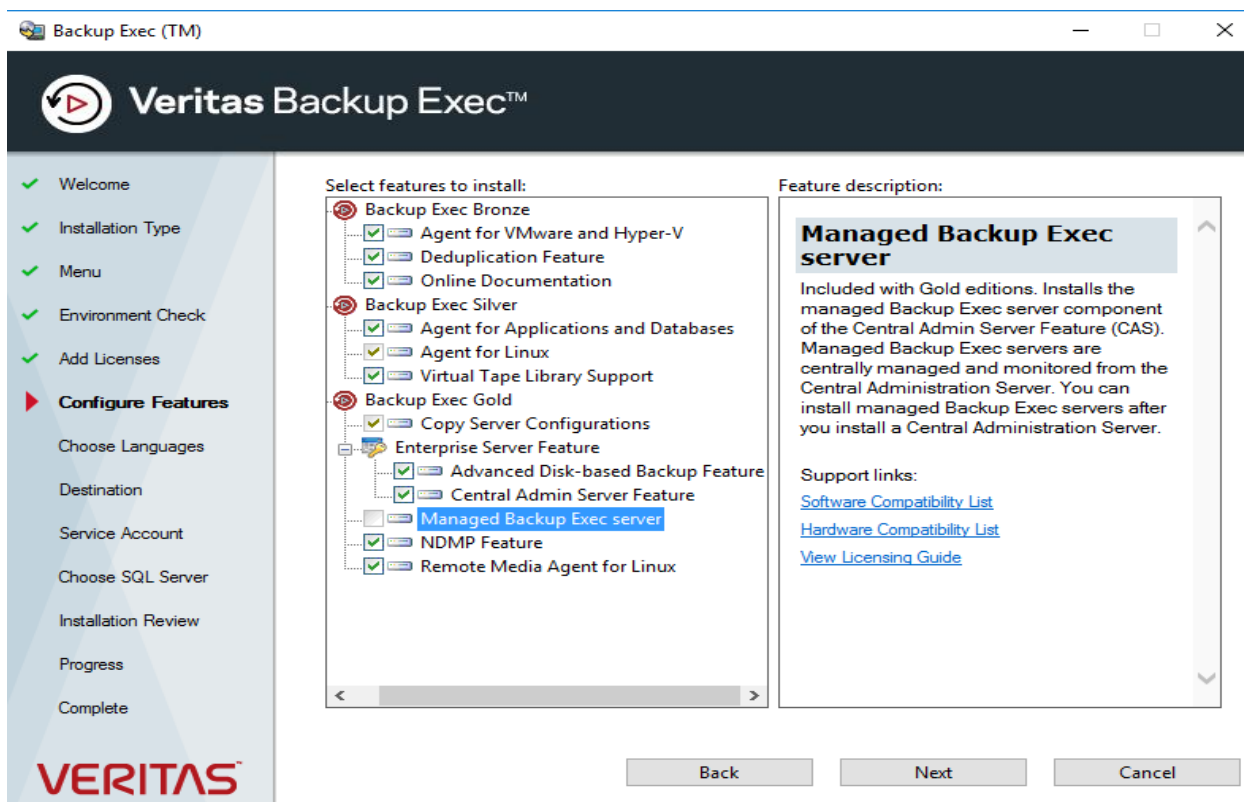
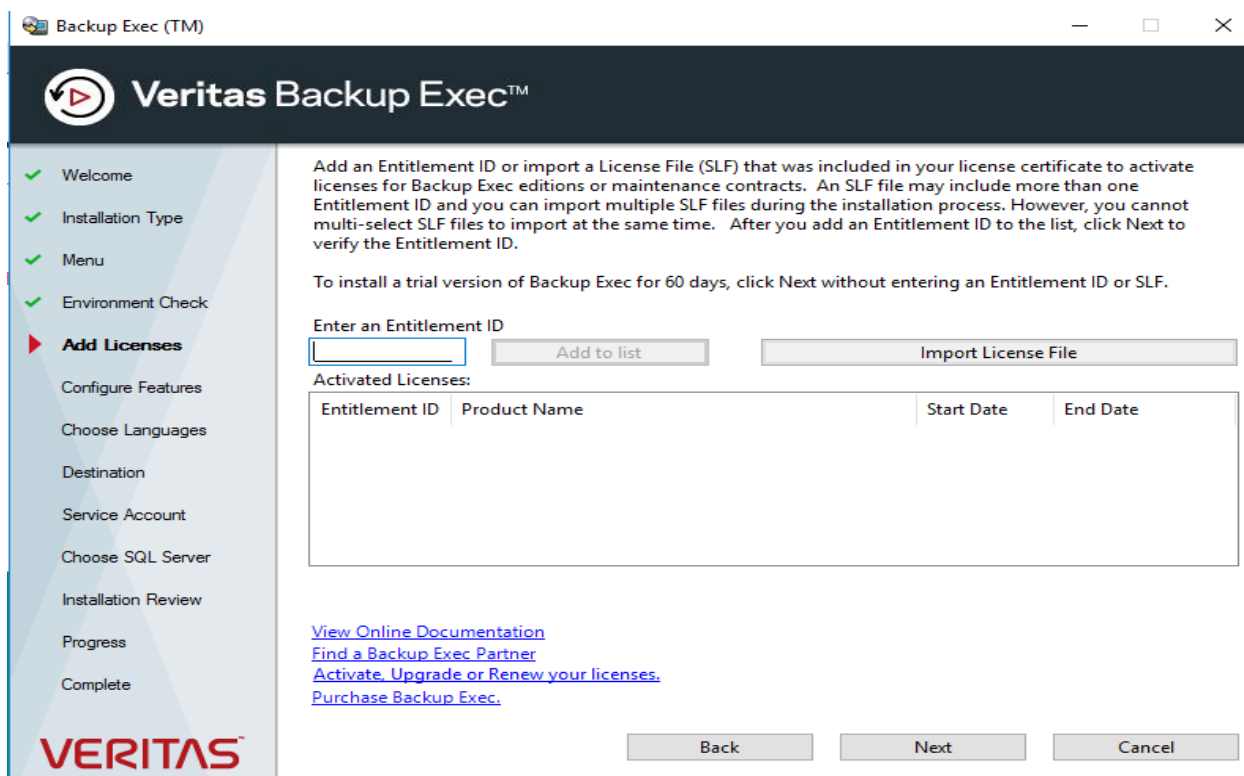
Microsoft Windows Assessment and Deployment Kit Version

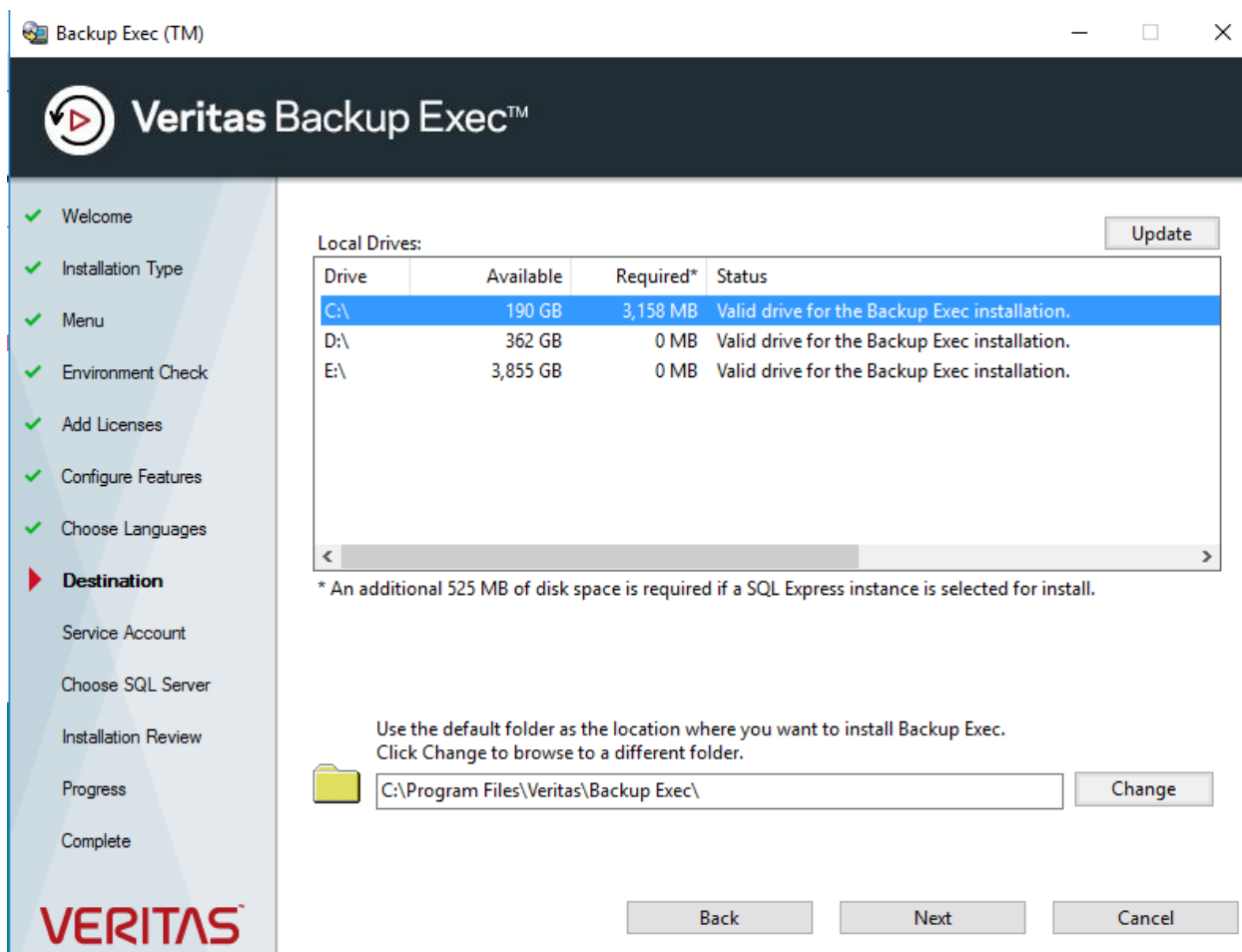
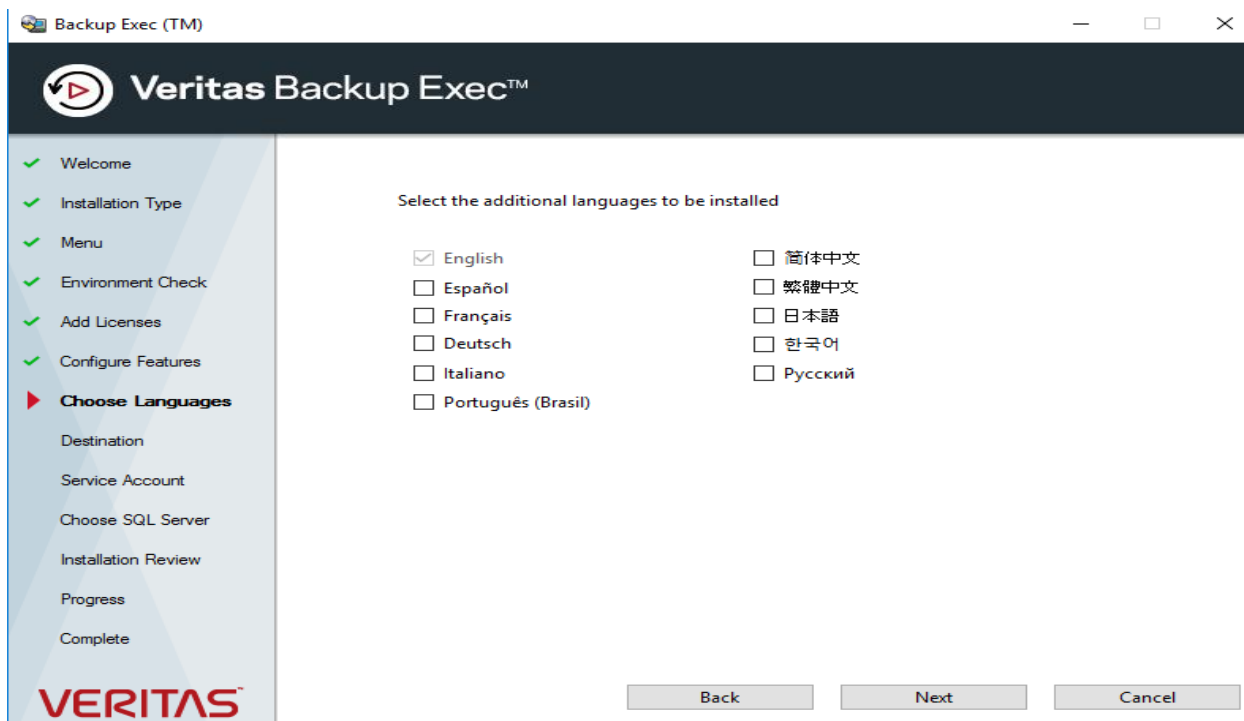
[Back to top](#)



Warning

The Simplified Disaster Recovery feature now requires the Microsoft Windows Assessment and Deployment Kit (ADK) version 10.0 to create a Simplified Disaster Recovery disk or an image(.iso). ADK version 10.0 is supported only on Windows 2008 R2 and later. You can create Simplified Disaster Recovery disk on Windows 2008 SP2 server using ADK version 8.1. You do not need to install the ADK now. The Create Disaster Recovery Disk Wizard guides you through the download and installation of the ADK.





Backup Exec (TM)

Veritas Backup Exec™

- Welcome
- Installation Type
- Menu
- Environment Check
- Add Licenses
- Configure Features
- Choose Languages
- Destination
- Service Account**
- Choose SQL Server
- Installation Review
- Progress
- Complete

Enter the user name and password of an account that has local administrative privileges for the Backup Exec services to use.

Select or enter the Domain name in the Domain list. If this computer is not a member of a domain, select or enter the local computer name in the Domain list.

Click the links below for details about required credentials when you install:

The Backup Exec database to a SQL Server instance on a different computer. [More information...](#)

To an existing Central Admin Server Feature environment. [More information...](#)

User name: Administrator

Password:

Domain: RAMLAN

Back Next Cancel

Backup Exec (TM)

The account RAMLAN\Administrator has been granted the following rights:
Log on using the batch logon type

OK

Backup Exec (TM)

Veritas Backup Exec™

- Welcome
- Installation Type
- Menu
- Environment Check
- Add Licenses
- Configure Features
- Choose Languages
- Destination
- Service Account
- Choose SQL Server**
- Installation Review
- Progress
- Complete

Backup Exec can install the SQL Express components on the local computer to create an instance on which to store the Backup Exec database. Or, you can select an existing instance of SQL Server 2008 R2 with Service Pack 2 or a later supported SQL Server version.

You can find a list of compatible operating systems, platforms, and applications [here](#).

☒ Create a local SQL Express instance on which to store the Backup Exec database

Destination Folder
C:\Program Files\Microsoft SQL Server\ Browse...

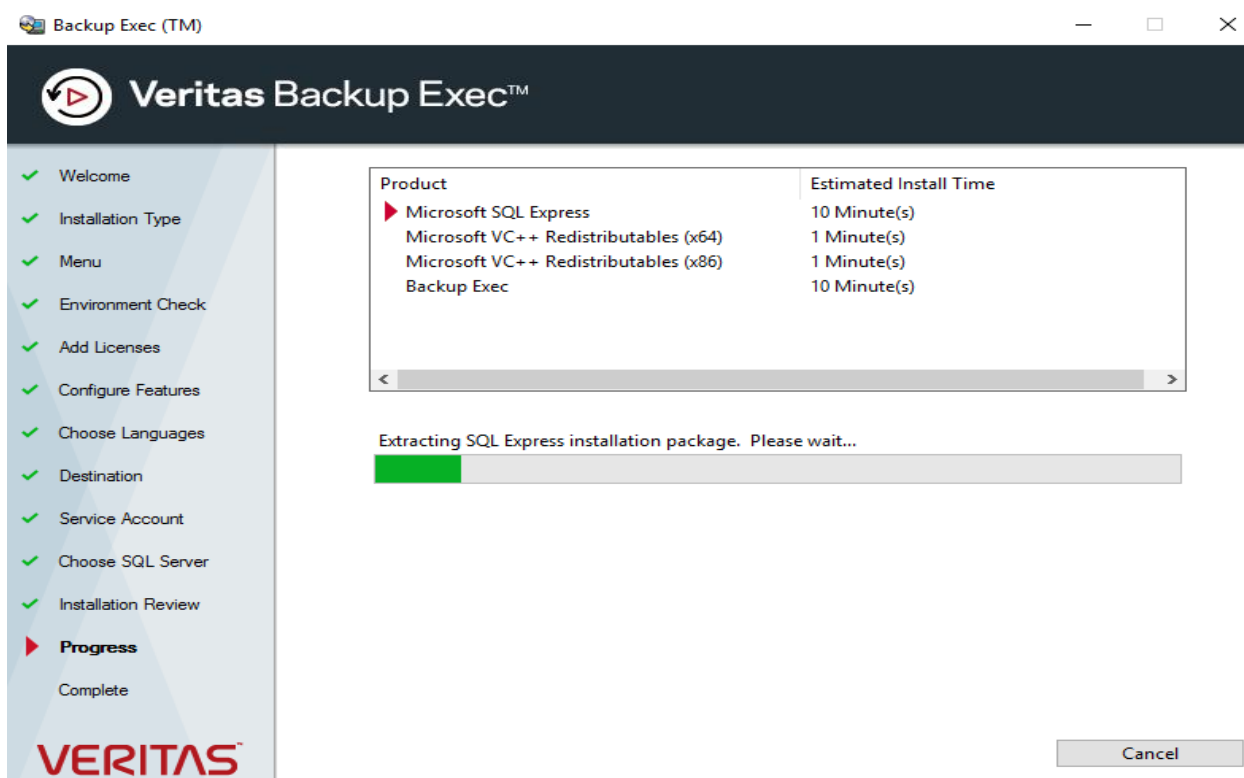
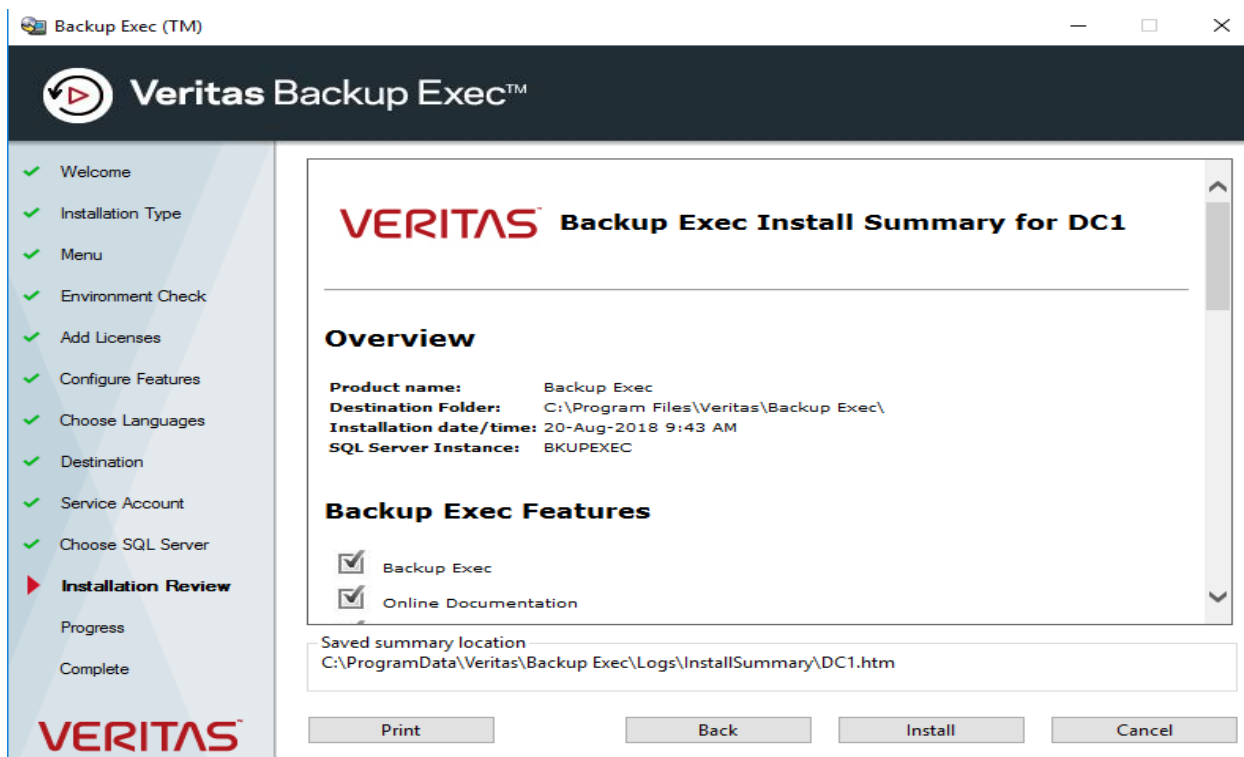
☐ Use an existing instance of SQL Server 2008 R2 with Service Pack 2 or a later supported SQL Server version.

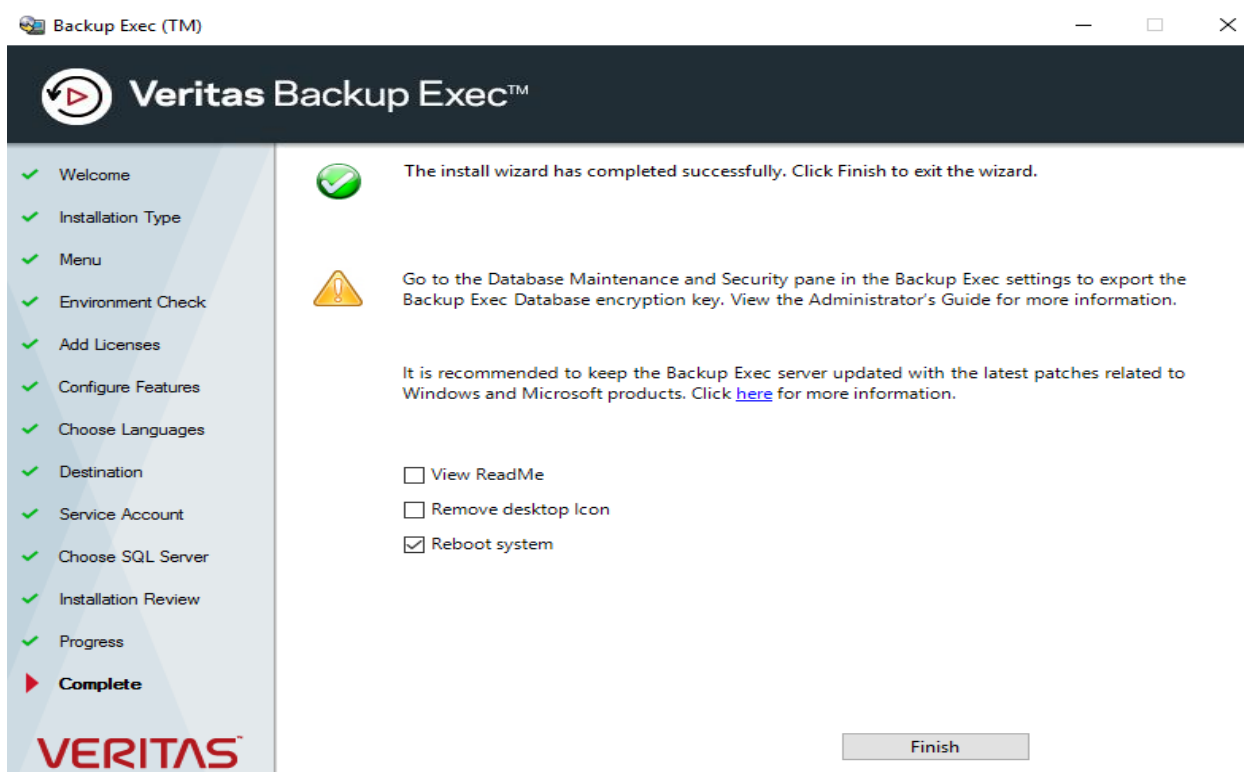
Select an instance or type the instance name (server name\instance name):

Note: Do not select an instance that is already in use by another Backup Exec server.

If the instance that you select is on the same server on which you are installing Backup Exec, the service account for the instance must have full permissions to the installation folder.

Back Next Cancel





Now open Veritas from desktop



What's New in this version of Backup Exec

Item	Description
Instant Cloud Recovery	Backup Exec users get Disaster Recovery powered by Azure Site Recovery. You can monitor the replication health and enable replication of on-premise virtual machines, whose hosts are configured with Azure Site Recovery. For more information about Azure Site Recovery, go to the following URL: https://azure.microsoft.com/services/site-recovery/
Support for vSphere 6.7	Backup Exec protects vSphere 6.7.
Support for Microsoft SharePoint Server 2016	Backup Exec now supports protection of SharePoint Server 2016. Granular restore is limited to farm-level components.
Windows Server, version 1803 and Windows 10, version 1803	Backup Exec now protects Windows Server, version 1803 and Windows 10, version 1803.
Establish trust for vCenter/ESX(i) servers	Backup Exec users can now review and validate the security SSL certificates installed on vCenter/ESX(i) hosts.

☐ Don't show again. To access this dialog, click the Backup Exec button, select Help and Documentation, and then select What's New.

Close

The screenshot displays the Veritas Backup Exec Central Administration Server interface. The top navigation bar includes tabs for Home, Backup and Restore, Job Monitor, Storage, Reports, and Instant Cloud Recovery. Below the navigation bar, there are several status panels:

- Configuration Tasks:** Shows critical settings configured, with a warning icon and text: "Critical settings are configured. Additional action is required to correct the items that are marked with a warning." It lists 0 Critical Tasks, 2 Warning Tasks, and 3 Informational Tasks.
- Virtual Machine Backups:** Displays "Virtual machine backup status not available".
- Storage Status:** Shows "No Storage Configured" with a warning icon and text: "Storage has not been configured yet. You must configure storage before you can run a backup." It includes a "Configure Storage" link.
- Simplified Disaster Recovery:** Shows "No Simplified Disaster Recovery Disk Created" with a warning icon and text: "You must create the Simplified Disaster Recovery disk so that you can recover your backed-up computers in case of a disaster." It includes a "Create Disaster Recovery Disk" link.
- Licensed Capacity Usage Status:** Shows a green checkmark and a progress bar indicating "0 bytes used". It includes a "View Details" link.
- Backup Status:** Shows a question mark icon and text: "No backups have been created. Create a Backup for This Backup Exec Server." It includes a "Never backed up" status.
- Instant Cloud Recovery Status:** Shows "Azure resources are not configured or not initialized."
- Database Encryption Key:** Shows a warning icon and text: "Database Encryption Key Has Not Been Exported". It includes a link to "Export Database Encryption Key".
- Installation and Upgrades:** Shows a "View Installation Summary Report" link.
- Documentation:** Shows a "View Installation Summary Report" link.

The bottom status bar shows "DC1" and various system metrics.

This concludes the install process of Veritas Backup Exec v20. I will include other configuration later.

Thanks

Ram Lan – 20th Aug 2018





How to complete activation of Veritas Backup Exec 20.1

Stop all Backup Exec services

Backup Exec Agent Browser	Allows the Backup Exec job en...	Running	Automatic	RAMLAN\Administrator
Backup Exec Deduplication Engine	Processes all data that goes thr...		Disabled	Local System
Backup Exec Deduplication Manager	Manages the PureDisk Dedupli...		Disabled	Local System
Backup Exec Deduplication Multi-threaded Streaming Agent	Provides a multi-threaded stre...		Disabled	RAMLAN\Administrator
Backup Exec Device & Media Service	Provides several COM server in...	Running	Automatic	RAMLAN\Administrator
Backup Exec Error Recording Service	Backup Exec Error Recording S...	Running	Automatic	Local System
Backup Exec Job Engine	Receives job requests from the...	Running	Automatic	RAMLAN\Administrator
Backup Exec Management Service	Acts as an interface between t...	Running	Automatic	RAMLAN\Administrator
Backup Exec PureDisk Filesystem Service	This component provides Back...		Manual	Local System
Backup Exec Remote Agent for Windows	Provides Backup and Restore s...	Running	Automatic	Local System
Backup Exec Server	Implements job scheduling, se...	Running	Automatic	RAMLAN\Administrator

After that run this registry.

DC1 > Downloads > Crack

Name	Date modified	Type	Size
 BE 1.reg	18-Aug-2018 9:12 ...	Registration Entries	9 KB
 be20-2022-999.reg	18-Aug-2018 9:12 ...	Registration Entries	9 KB
 Reg v20.0.1188 [9999 Day].reg	18-Aug-2018 9:12 ...	Registration Entries	9 KB
 v20.0.1188(9999 Day).reg	13-Apr-2018 11:38...	Registration Entries	9 KB

Restart all Backup Exec services

Backup Exec Agent Browser	Allows the Backup Exec job en...	Running	Automatic	RAMLAN\Administrator
Backup Exec Deduplication Engine	Processes all data that goes thr...		Disabled	Local System
Backup Exec Deduplication Manager	Manages the PureDisk Dedupli...		Disabled	Local System
Backup Exec Deduplication Multi-threaded Streaming Agent	Provides a multi-threaded stre...		Disabled	RAMLAN\Administrator
Backup Exec Device & Media Service	Provides several COM server in...	Running	Automatic	RAMLAN\Administrator
Backup Exec Error Recording Service	Backup Exec Error Recording S...	Running	Automatic	Local System
Backup Exec Job Engine	Receives job requests from the...	Running	Automatic	RAMLAN\Administrator
Backup Exec Management Service	Acts as an interface between t...	Running	Automatic	RAMLAN\Administrator
Backup Exec PureDisk Filesystem Service	This component provides Back...		Manual	Local System
Backup Exec Remote Agent for Windows	Provides Backup and Restore s...	Running	Automatic	Local System
Backup Exec Server	Implements job scheduling, se...	Running	Automatic	RAMLAN\Administrator

Open Veritas Backup Exec program – Scroll down to licensing info – It is fully activated

Licensing Information

[View license information](#)

Trial Version

Trial version expires in **9999** days.

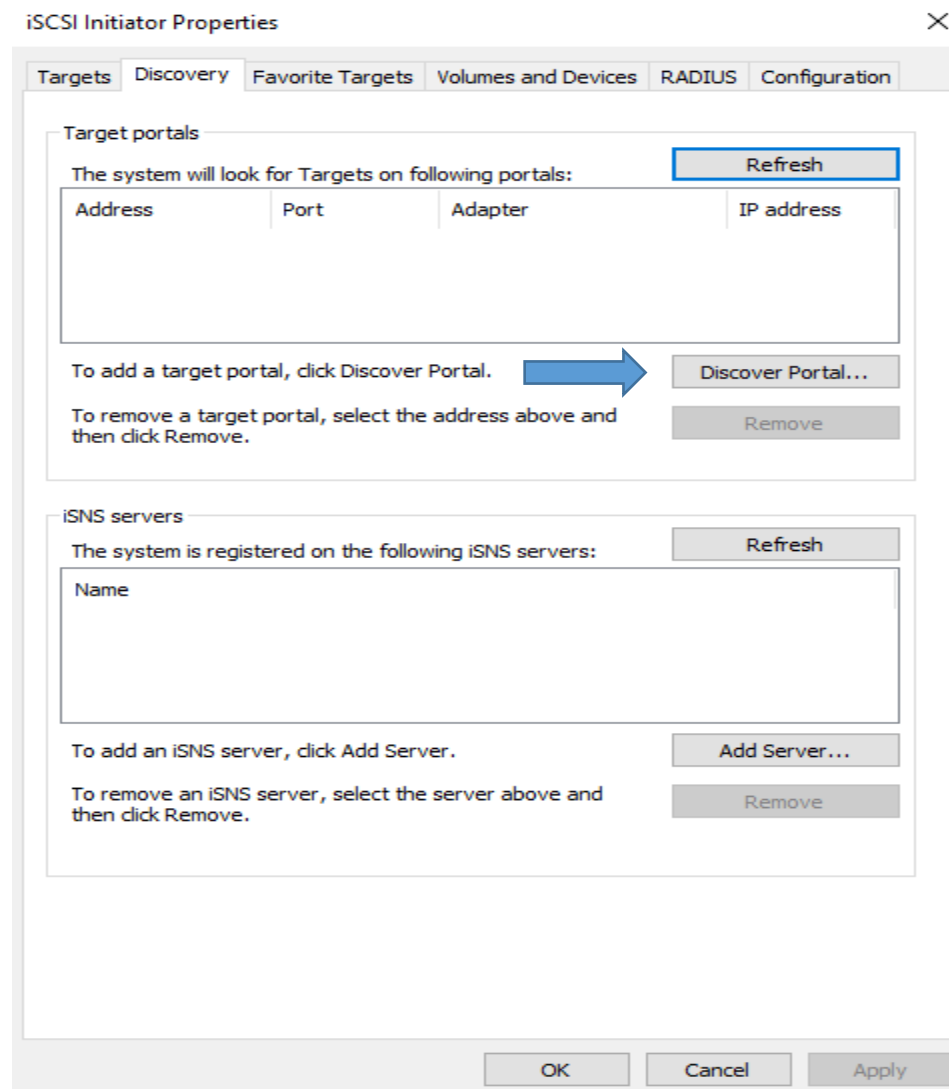
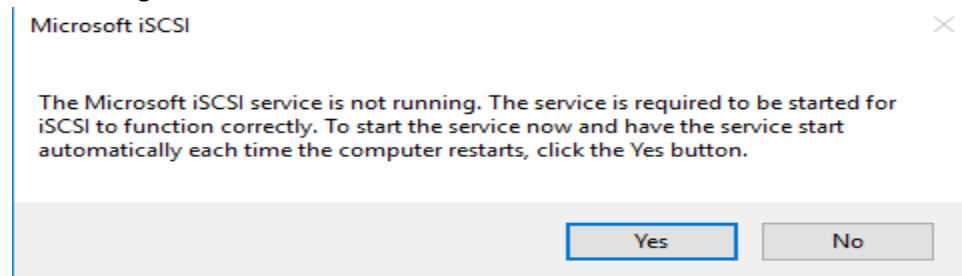
[Purchase a license](#)

[View license contract information](#)

[View licensing process information](#)

To backup Exchange mailbox using Veritas Backup Exec, I created a 250GB iSCSI storage on EMC NAS. Now, I will enable iSCSI initiator on DC1 to complete the configuration.

Start – Program – Windows Administrative Tools – Iscsi Initiator



Discover Target Portal

Enter the IP address or DNS name and port number of the portal you want to add.

To change the default settings of the discovery of the target portal, click the Advanced button.

IP address or DNS name: Port: (Default is 3260.)

Advanced... OK Cancel

Address of EMC NAS

iSCSI Initiator Properties

Targets Discovery Favorite Targets Volumes and Devices RADIUS Configuration

Target portals

The system will look for Targets on following portals:

Address	Port	Adapter	IP address
192.168.0.184	3260	Default	Default

Refresh

To add a target portal, click Discover Portal.

Discover Portal...

To remove a target portal, select the address above and then click Remove.

Remove

iSNS servers

The system is registered on the following iSNS servers:

Name

Refresh

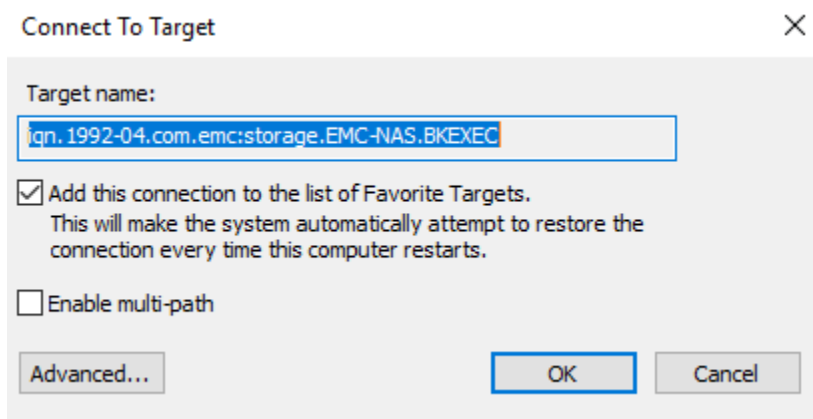
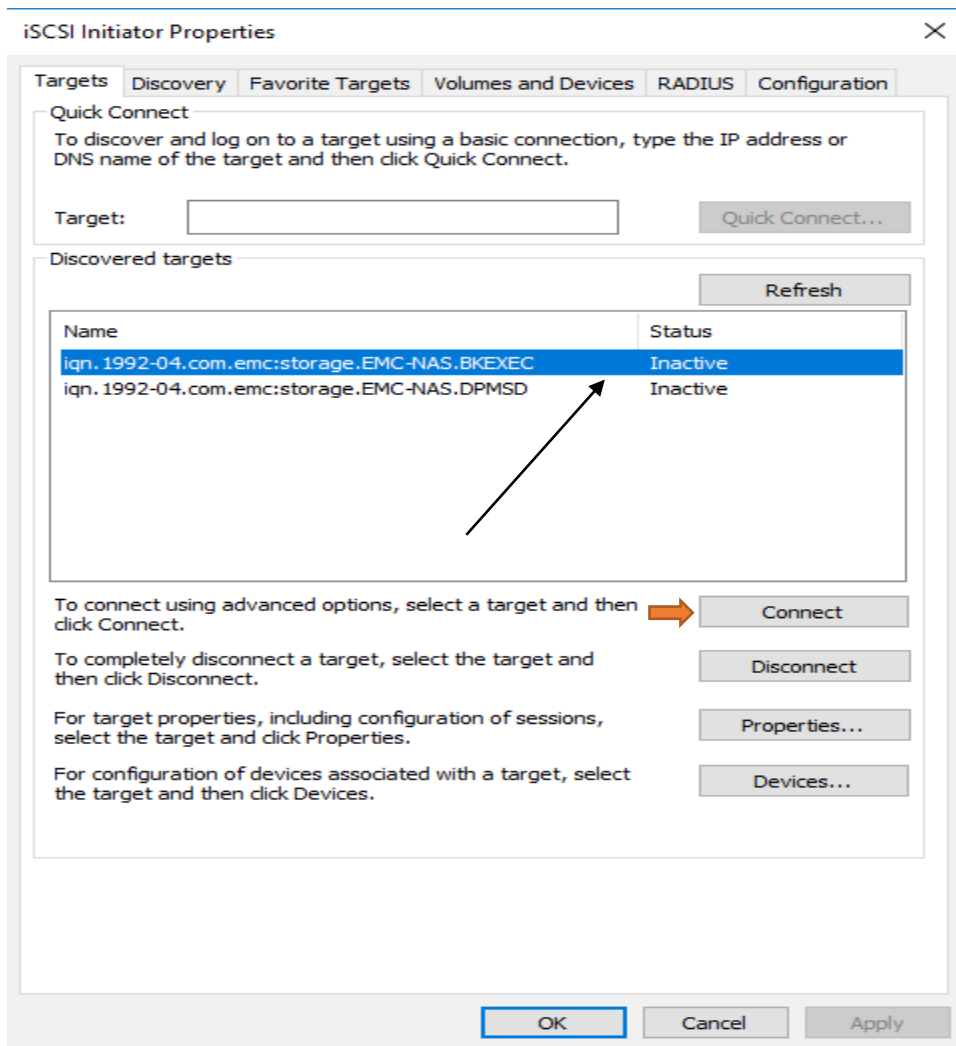
To add an iSNS server, click Add Server.

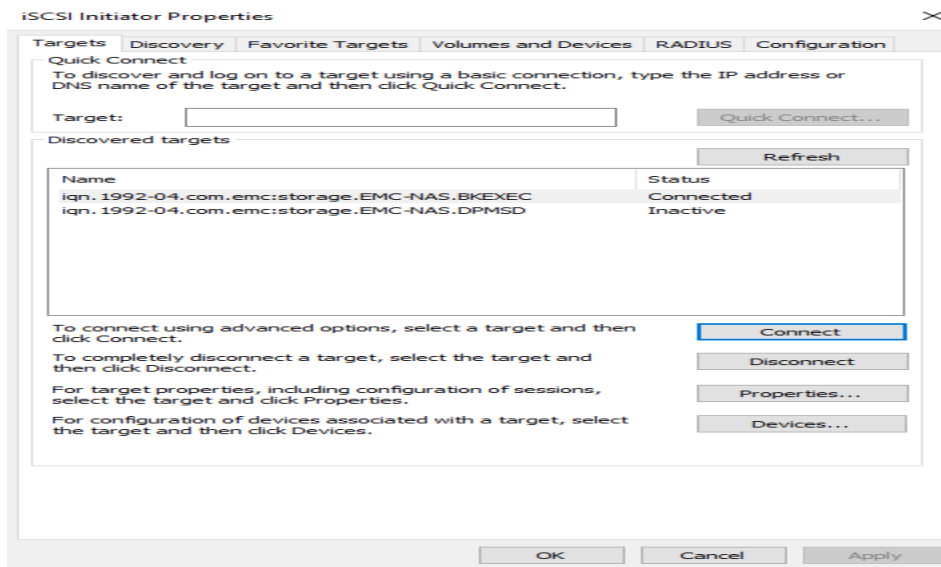
Add Server...

To remove an iSNS server, select the server above and then click Remove.

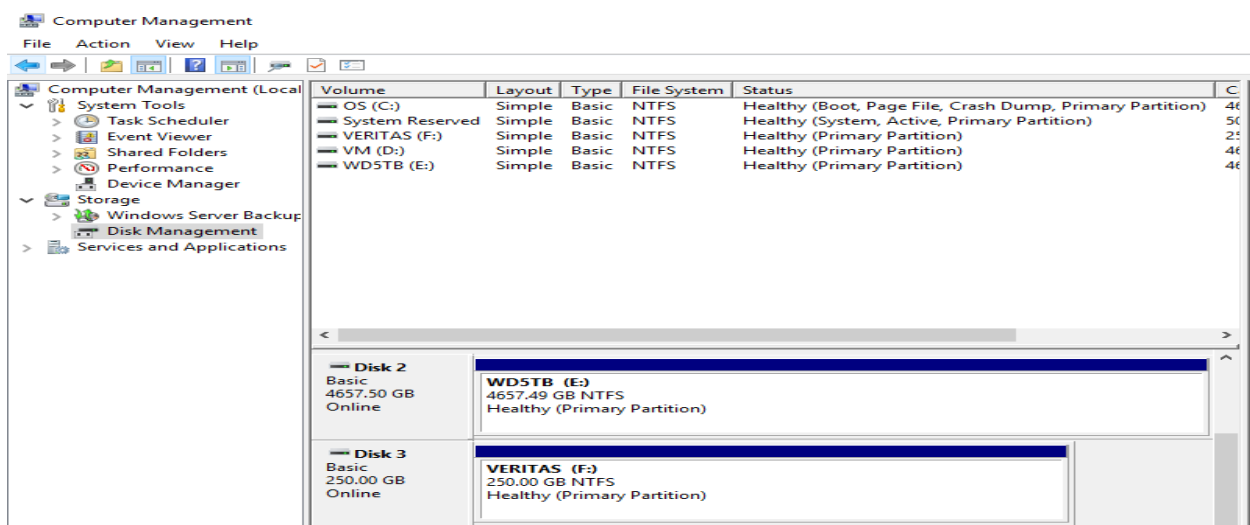
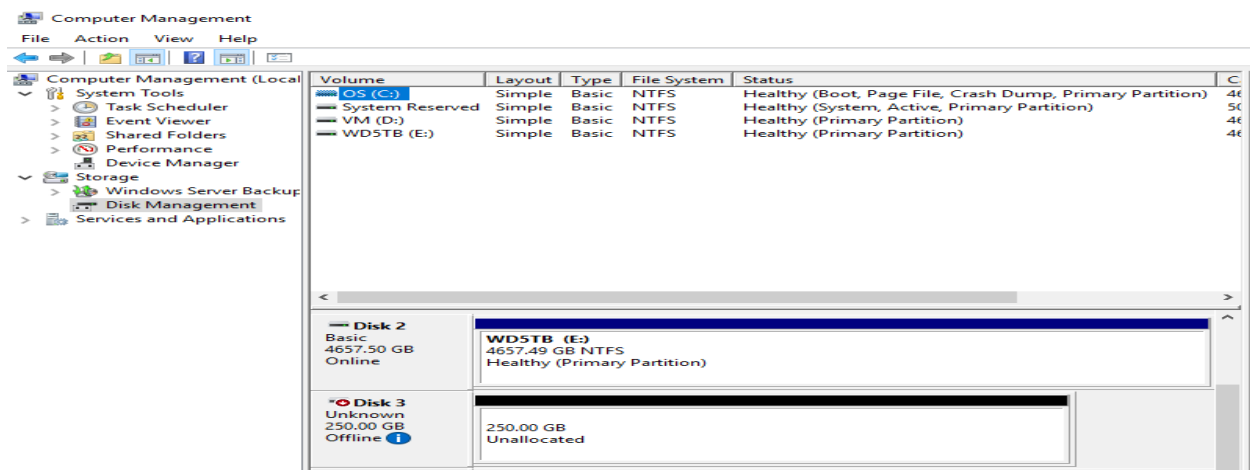
Remove

OK Cancel Apply





Open Computer Management – Disk Management. Bring the disk Online and then Initialize and create Simple Volume Partition.



Storage Configuration:

veritas backup exec™ (Central Administration Server)


Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery




One Column Two Columns Narrow/Wide Three Columns Reset Home Tab

Layout System Health

☒ Active Alerts ☒ Storage Status ☒ Database Encryption Key ☐ Technical Support
☐ Alert History ☒ Instant Cloud Recovery Status ☒ Virtual Machine Backups ☒ Documentation
☒ Backup Status ☒ Configuration Tasks ☒ Licensed Capacity Usage Status ☒ Licensing Information
☒ Backup Size ☒ Simplified Disaster Recovery ☒ Backup Exec RSS Rea

Configuration Tasks

 **Critical settings are configured. Additional action is required to correct the items that are marked with a warning.**


 Critical Tasks: 0  Warning Tasks: 2  Informational Tasks: 3

[View configuration task details.](#)

Virtual Machine Backups

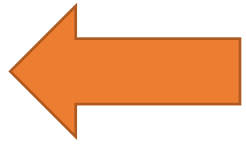
Virtual machine backup status not available

Storage Status

 **No Storage Configured**


Storage has not been configured yet. You must configure storage before you can run a backup.

[Configure Storage](#)




Configure storage


Which Backup Exec server do you want to configure storage for?


 **DC1**
Central Administration Server


[Next >](#) [Cancel](#)


 Configure storage on DC1


Which type of storage do you want to configure?

**Disk-based storage**
Local or remote disk storage, disk cartridge devices, deduplication disk storage, storage arrays, virtual disks, and legacy backup-to disk folders may be available to configure.

**Cloud storage**
A storage device to which you can send backup data to the cloud.

**Network storage**
OpenStorage devices, NDMP servers, and remote media agents for Linux may be available to configure.

**Tape storage**
Installing tape drivers, replacing or adding hot-swappable storage devices, configuring robotic library partitions, and configuring barcode rules are tasks that may be available.

**Storage pools**
Storage device pools and Backup Exec server pools may be available to configure.

[What are the different types of storage?](#)

< Back

Next >

Cancel

 Configure storage on DC1

Which type of disk-based storage do you want to configure?

**Disk storage**
Storage on a volume, a hot-swappable device, a USB device, or a FireWire device.

**Deduplication disk storage**
Storage on a volume on which only unique data is stored to reduce the size of backups.

**Import a legacy backup-to-disk folder**
Storage on a folder on a disk that was created with a previous version of Backup Exec. You can import an existing backup-to-disk folder.


**Disk cartridge device**
 There are no unconfigured disk cartridge devices on the system
Storage on a device that uses disk cartridge media, such as an RDX device, or devices that appear in Windows as removable storage, such as USB thumb drives.

[What are the different types of disk storage?](#)

< Back

Next >

Cancel

 Configure storage on DC1

What name and description do you want to use for the disk storage device?

Name:

Description:

< Back

Next >

Cancel



Where do you want to create the disk storage device?

- ☒ Local disk: **F: (250 GB Free)**
Only one disk storage device can be created on a volume.
- ☐ Network share:
Enter a UNC path to the network share. For example: \\server\share



Backup Exec formats the local disk only if it is not already formatted. No data is overwritten.

If Windows data deduplication is currently enabled on the drive on which you create disk storage, Backup Exec excludes the backup data in the folder \BEData from deduplication, unless the \BEData folder already exists. Backup Exec must exclude backup data from deduplication to let Simplified Disaster Recovery perform a local recovery of the Backup Exec server.

< Back

Next >

Cancel



How many write operations do you want to let run at the same time on this disk storage device?

Concurrent write operations:



This setting determines how many jobs can write data at the same time on this device. The number of jobs that this device can handle varies depending on your hardware and environment, so you may need to adjust this setting later. It is recommended that you set it low enough to avoid overloading your system, but high enough to process your jobs in a timely manner.

< Back

Next >

Cancel



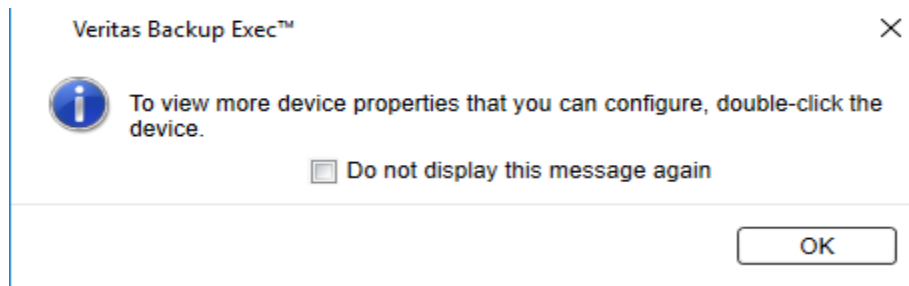
Storage configuration summary

Configuration on central administration server		⌵
DC1		
Storage category		⌵
Disk-based storage		
Storage type		⌵
Disk storage		
Name and description for the disk storage device		⌵
Name:	DC1 Disk storage 0001	
Description:	This storage is available on DC1 Server	
Disk storage device location		⌵
Path:	F:	
Concurrent Write Operations		⌵
Concurrent operations:	2	

< Back

Finish

Cancel



Veritas Backup Exec™ (Central Administration Server)

Home

Backup and Restore

Job Monitor

Storage

Reports

Instant Cloud Recovery

One Column

Two Columns

Narrow/Wide

Three Columns

Reset Home Tab

☒ Active Alerts

☐ Alert History

☒ Backup Status

☒ Backup Size

☒ Storage Status

☒ Instant Cloud Recovery Status

☒ Configuration Tasks

☒ Simplified Disaster Recovery

☒ Database Encryption Key

☒ Virtual Machine Backups

☒ Licensed Capacity Usage Status

☐ Technical Support

☒ Documentation

☒ Licensing Information

☒ Backup Exec RSS Read

Layout

System Health

Configuration Tasks

Critical settings are configured. Additional action is required to correct the items that are marked with a warning.

Critical Tasks: 0

Warning Tasks: 2

Informational Tasks: 3

[View configuration task details.](#)

Virtual Machine Backups

Virtual machine backup status not available

Storage Status

Disk-based Storage

125 MB used of 250 GB

Total capacity: 250 GB

Pending configuration tasks:

Veritas Backup Exec™ (Central Administration Server)

Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery

Layout: One Column, Two Columns, Narrow/Wide, Three Columns, Reset Home Tab

System Health: Active Alerts, Alert History, Backup Status, Backup Size, Storage Status, Instant Cloud Recovery Status, Configuration Tasks, Simplified Disaster Recovery, Database Encryption Key, Virtual Machine Backups, Licensed Capacity Usage Status, Technical Support, Documentation, Licensing Information, Backup Exec RSS Ready

Configuration Tasks

 **Critical settings are configured. Additional action is required to correct the items that are marked with a warning.**

Critical Tasks: 0 Warning Tasks: 2 Informational Tasks: 3

[View configuration task details.](#)

Logon Accounts:

Configuration Tasks

Severity	Category	Description	Task	Action
Informational	Email and Text Notifications	Optional email and text notification settings are not configured.	Configure the email and text notification settings, if applicable to your organization.	Open the email and text notification settings.
Informational	Data Discovery	Unprotected servers have been discovered and may need to be backed up.	Review the unprotected servers, and then install the Backup Exec Agent for Windows if you want to back them up.	Open the Add Server Wizard.
Informational	Notification Recipients	Optional notification recipient settings are not configured.	Configure the notification recipient settings, if applicable to your organization.	Open the notification recipient settings.
Warning	Database Encryption Key	The database encryption key has not been exported to a secure location. Backup Exec may not be able to fully recover all data in case of a disaster. For more information, see TECH226330 on the Backup Exec Knowledge Base.	Export the database encryption key.	Open the database maintenance and security settings.
Warning	Logon Accounts	Credentials for the server 'DC1.RAMLAN.CA' have not been tested. Backups on this server may fail if the credentials are incorrect.	Check the credentials.	Open the credentials view.

Close

You can use system logon account or any user from AD as well.

Test/edit credentials for DC1.RAMLAN.CA

Name	Logon Account	Credential Status	Date Last Attempted	
DC1.RAMLAN.CA	System Logon Account	Unknown, Test n		Test All
C:	<use server's logon ac...	Unknown, Test n	20-Aug-2018 10:33:36 AM	Test Selected
D:	<use server's logon ac...	Unknown, Test n	20-Aug-2018 10:33:36 AM	Delete Selected
E:	<use server's logon ac...	Unknown, Test n	20-Aug-2018 10:33:36 AM	Cancel Test
Microsoft SQL Ser...	<use server's logon ac...	Test not applicat	20-Aug-2018 10:33:36 AM	
System State	<use server's logon ac...	Unknown, Test n	20-Aug-2018 10:33:36 AM	
Microsoft Hyper-V	<use parent source's l...	Test not applicat	20-Aug-2018 10:33:36 AM	

You may need to test the credentials for the selected contents. It is recommended that you click Test All, or select the contents that you must test and click Test Selected. Backup jobs will fail if you do not provide the correct credentials for the selected contents.

Help Apply OK Cancel

Test/edit credentials for DC1.RAMLAN.CA

Name	Logon Account	Credential Status	Date Last Attempted
DC1.RAMLAN.CA	System Logon Account	Success	20-Aug-2018 11:23:59 AM
C:	<use server's logon ac...>	Success	20-Aug-2018 11:24:04 AM
D:	<use server's logon ac...>	Success	20-Aug-2018 11:24:05 AM
E:	<use server's logon ac...>	Success	20-Aug-2018 11:24:07 AM
Microsoft SQL Ser...	<use server's logon ac...>	Test not applicat	20-Aug-2018 11:24:10 AM
System State	<use server's logon ac...>	Success	20-Aug-2018 11:24:23 AM
Microsoft Hyper-V	<use parent source's l...>	Test not applicat	20-Aug-2018 11:24:23 AM
F:	<use server's logon ac...>	Success	20-Aug-2018 11:24:09 AM

You may need to test the credentials for the selected contents. It is recommended that you click Test All, or select the contents that you must test and click Test Selected. Backup jobs will fail if you do not provide the correct credentials for the selected contents.

Help Apply OK Cancel

Encryption Key:

Configuration Tasks

Severity	Category	Description	Task	Action
Informational	Email and Text Notifications	Optional email and text notification settings are not configured.	Configure the email and text notification settings, if applicable to your organization.	Open the email and text notification settings.
Informational	Data Discovery	Unprotected servers have been discovered and may need to be backed up.	Review the unprotected servers, and then install the Backup Exec Agent for Windows if you want to back them up.	Open the Add Server Wizard.
Informational	Notification Recipients	Optional notification recipient settings are not configured.	Configure the notification recipient settings, if applicable to your organization.	Open the notification recipient settings.
Warning	Database Encryption Key	The database encryption key has not been exported to a secure location. Backup Exec may not be able to fully recover all data in case of a disaster. For more information, see TECH226330 on the Backup Exec Knowledge Base.	Export the database encryption key.	Open the database maintenance and security settings.

Settings

Database Maintenance and Security

Perform database maintenance daily at: 4:00:00 AM

Delete aged data

☒ Delete aged data

Job History:

☐ Keep job history for data on media that have current overwrite protection periods

☒ Keep job history for specified number of days: 30

Number of days to keep data before deleting it from the Backup Exec database:

Job logs: 30

Alert history: 7

Reports: 14

Audit logs: 30

☒ Perform database consistency check

☒ Save contents of database to the Backup Exec data directory

☒ Optimize database size

Backup Exec Database Encryption Key Management

The database encryption key is required to migrate or recover the Backup Exec server.

Path: \\VCM1\\Sources Export

☐ Remember the export path. By clicking this check box, you consent to let Backup Exec retain and display the export path during import operations.

You must export the database encryption key to ensure that you can migrate or recover the Backup Exec server later. Export the key to:

- Either a physical volume that is assigned to a drive letter or a network share that is specified as a UNC path
- A drive other than the drive on which Backup Exec is installed
- A secure location so that an unauthorized user cannot use the key to access the database

Help OK Cancel

Export Database Encryption Key



Export Database Encryption Key

Successfully exported Backup Exec Database encryption key 'bf9ec577.dek' to location '\\vcm1\\sources'.

OK

Email Setting:

Configuration Tasks

Severity	Category	Description	Task	Action
Informational	Email and Text Notifications	Optional email and text notification settings are not configured.	Configure the email and text notification settings, if applicable to your organization.	Open the email and text notification settings.
Informational	Data Discovery	Unprotected servers have been discovered and may need to be backed up.	Review the unprotected servers, and then install the Backup Exec Agent for Windows if you want to back them up.	Open the Add Server Wizard.
Informational	Notification Recipients	Optional notification recipient settings are not configured.	Configure the notification recipient settings, if applicable to your organization.	Open the notification recipient settings.

Manage Recipients

You can add an individual or a group to the recipient list. Select a recipient to edit the details for the recipient or to delete the recipient from the list.

Name	Type
------	------

[Add a recipient](#)
[Add a group](#)
[Edit](#)
[Delete](#)

Help

OK

Cancel

Configure Email and Text Messages

Email configuration

Email server: Port number:

Sender name:

Sender email address:

Email authentication


☐ Enable email authentication

Sender user name:

Sender password:

Text message configuration

Text message service provider address:

 The address for the text message service provider can be changed for an individual when you add the recipient details.

Help OK Cancel

Add Individual Recipient



Name: Ram

Email alerts

☒ Send notifications by email

Recipient's email address: ram@ramlan.ca

Send test email

☐ Send no more than 1 emails within 1 Minute(s)

Text Message alerts

☐ Send notifications by text message

Recipient's cell phone number:

Send test message

Text message service provider address:

☐ Send no more than 1 text messages within 1 Minute(s)

Help

OK

Cancel

Manage Recipients



You can add an individual or a group to the recipient list. Select a recipient to edit the details for the recipient or to delete the recipient from the list.

Name	Type
Ram	Recipient

Add a recipient

Add a group

Edit

Delete

Help

OK

Cancel

Reply Reply All Forward IM



Mon 20-Aug-2018 11:34 AM

administrator <administrator@ramlan.ca>

Backup Exec Notification Test

To Ram

This is a test of the notification feature provided by Backup Exec

Installing Backup Exec Agent: For this exercise, I am installing the agent on **EX2016** server only.

Configuration Tasks

Configuration Tasks

Severity	Category	Description	Task	Action
Informational	Data Discovery	Unprotected servers have been discovered and may need to be backed up.	Review the unprotected servers, and then install the Backup Exec Agent for Windows if you want to back them up.	Open the Add Server Wizard.

Browse

Browse for servers:

Servers without an Agent for Windows installed

DC2

☒

EX2016

☐

APPV

☐

MBAM

☐

CM1

☐

SFB

☐

OM

☐

WIN7

☐

WIN10

☐

VMM

☐

CM2

Backup Exec must establish a trust with the servers that you want to add to ensure secure communication between the Backup Exec server and the remote computers. You must allow Backup Exec to establish the trust before you can continue to add the servers.

☒ Allow Backup Exec to establish a trust with the servers.

Help

OK

Cancel

Add a Server

Which servers do you want to add?

Type the name of a server or the server's IP address or browse for any servers that you want to add:

Server Name

EX2016

Logon Account

System Logon Account

Add

Browse

Delete

Apply to All

☐ Always use IP address to connect to servers. Do not resolve IP addresses into fully qualified domain names.

What are logon accounts?

Next >

Cancel

Add a Server

Do you want Backup Exec to upgrade the Backup Exec Agent for Windows if a version of it is installed on the remote computer?

☒ Upgrade the Backup Exec Agent for Windows to the current version automatically

☒ Restart the remote computer automatically after installing the Backup Exec Agent for Windows when a restart is required

< Back

Next >

Cancel

Add a Server

Summary

Servers to add

Server Name	Logon Account
EX2016	System Logon Account

Install features

Upgrade the Backup Exec Agent for Windows to the current version automatically:	Yes
Restart the remote computer automatically after installing the Backup Exec Agent for Windows when a restart is required:	Yes

< Back

Install


Cancel

Add a Server

Installing the Backup Exec Agent for Windows.






Server Name	Progress
EX2016	<div><div></div>Pre-processing</div>


Installing the Backup Exec Agent for Windows.

Server Name	Progress
EX2016	 Successful

Finish

Do the same of installing the agent on all the servers that needs to be backed up using Veritas and Test All Credentials.

Name	Logon Account	Credential Status	Date Last Attempted	
EX2016	System Logon Account	 Success	20-Aug-2018 11:46:31...	<input type="button" value="Test All"/>
C:	<use server's logon ac...	 Success	20-Aug-2018 11:46:34...	<input type="button" value="Test Selected"/>
System State	<use server's logon ac...	 Success	20-Aug-2018 11:46:40...	<input type="button" value="Delete Selected"/>
Microsoft Hyper-V	<use parent source's l...	 Test not applicat	20-Aug-2018 11:46:40...	<input type="button" value="Cancel Test"/>
Microsoft Informati...	<use server's logon ac...	 Test not applicat	20-Aug-2018 11:46:46...	

 You may need to test the credentials for the selected contents. It is recommended that you click Test All, or select the contents that you must test and click Test Selected. Backup jobs will fail if you do not provide the correct credentials for the selected contents.

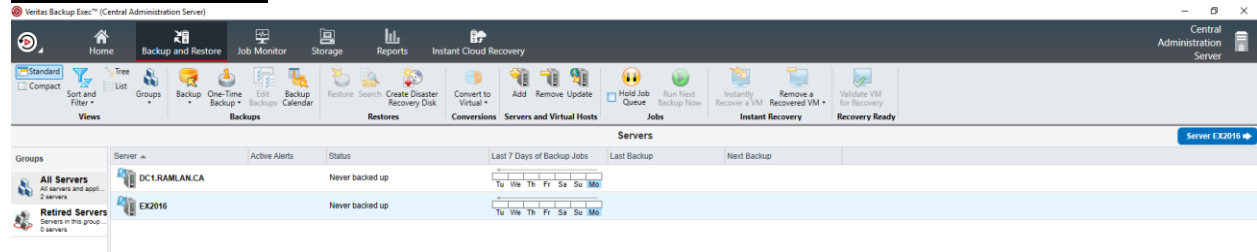
Help

Apply

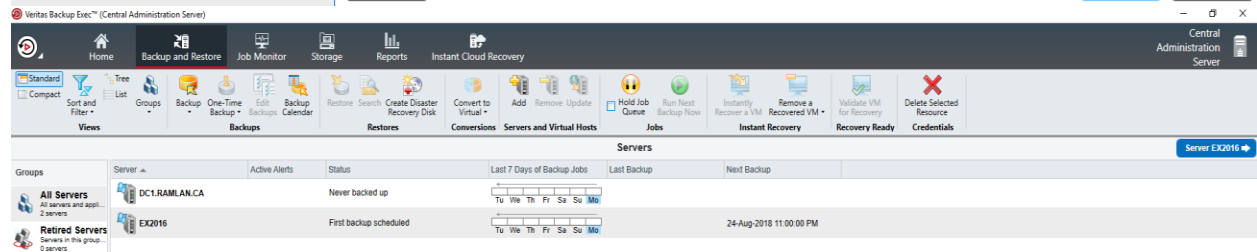
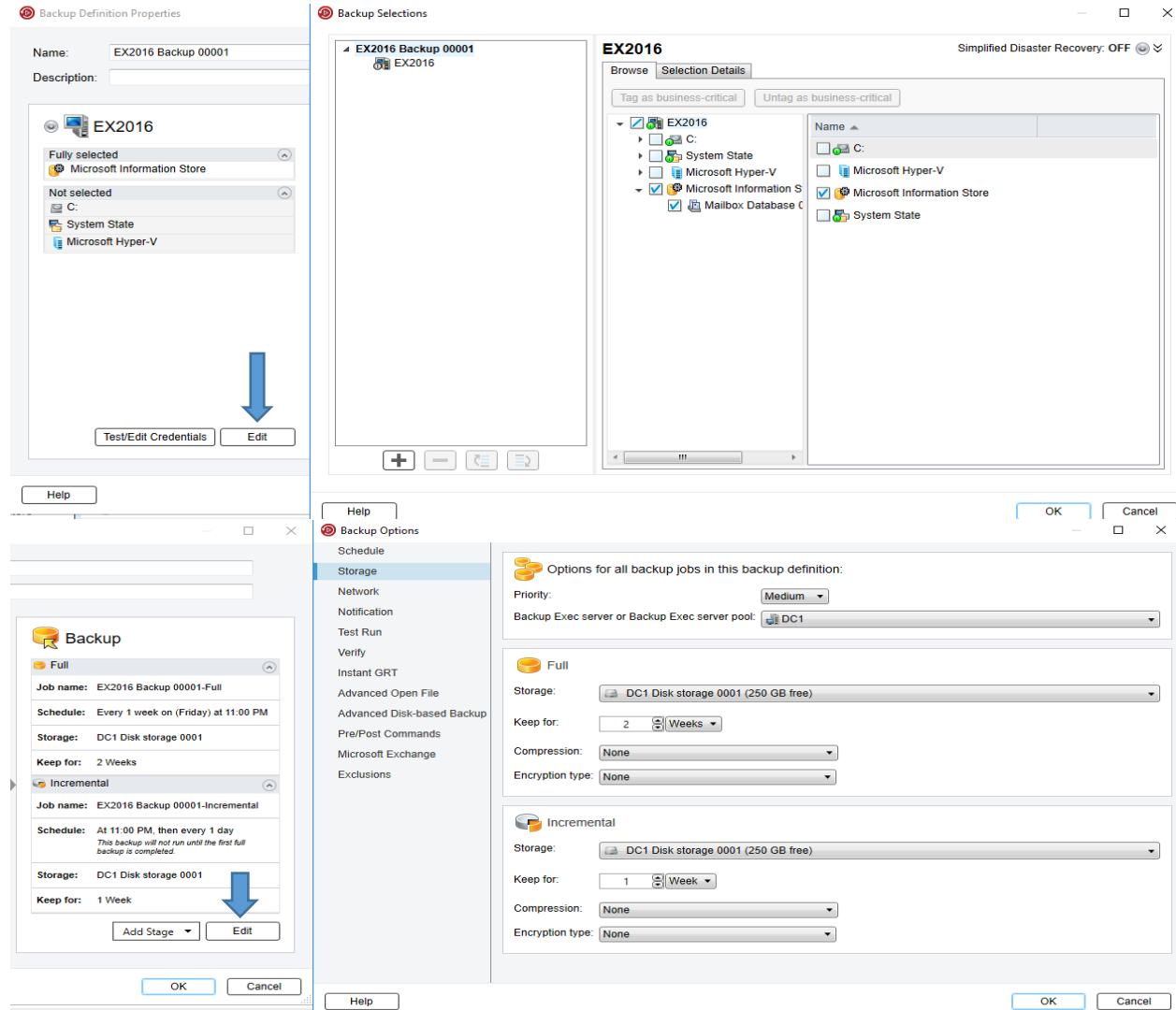
OK

Cancel

Backup Job Creation:

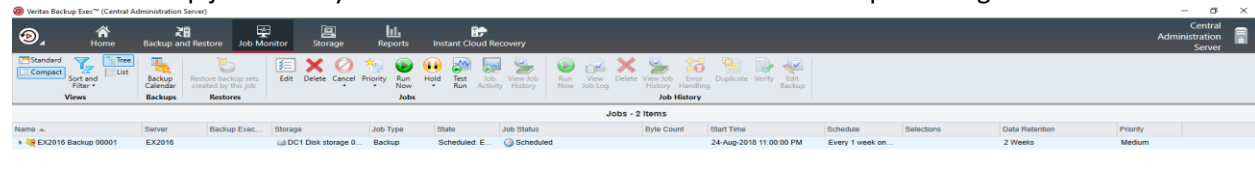


Click Edit to select just the Mailbox and Storage Location.



Job Monitor Status:

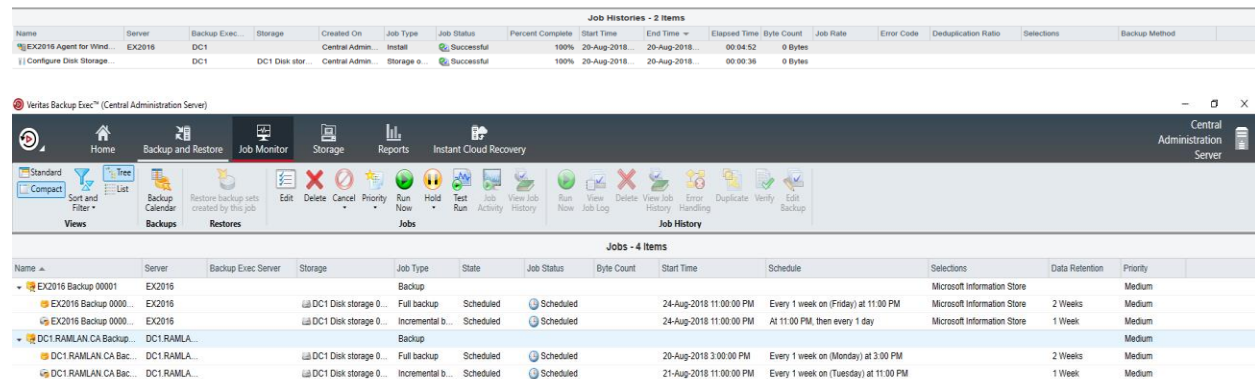
Our first backup job is ready and scheduled to run once a week to backup exchange mailbox.



Veritas Backup Exec™ (Central Administration Server)

Jobs - 2 Items

Name	Server	Backup Exec...	Storage	Job Type	State	Job Status	Byte Count	Start Time	Schedule	Selections	Data Retention	Priority
EX2016 Backup 00001	EX2016		DC1 Disk storage 0...	Backup	Scheduled	Scheduled		24-Aug-2018 11:00:00 PM	Every 1 week on...		2 Weeks	Medium



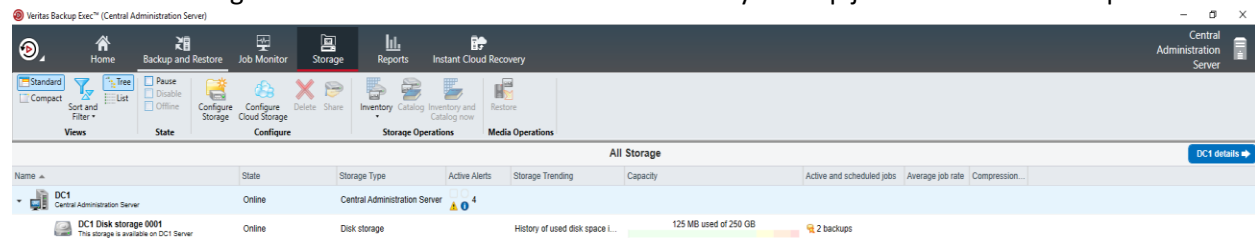
Veritas Backup Exec™ (Central Administration Server)

Jobs - 4 Items

Name	Server	Backup Exec Server	Storage	Job Type	State	Job Status	Byte Count	Start Time	Schedule	Selections	Data Retention	Priority
EX2016 Backup 00001	EX2016			Backup						Microsoft Information Store		Medium
EX2016 Backup 0000...	EX2016		DC1 Disk storage 0...	Full backup	Scheduled	Scheduled		24-Aug-2018 11:00:00 PM	Every 1 week on (Friday) at 11:00 PM	Microsoft Information Store	2 Weeks	Medium
EX2016 Backup 0000...	EX2016		DC1 Disk storage 0...	Incremental b...	Scheduled	Scheduled		24-Aug-2018 11:00:00 PM	At 11:00 PM, then every 1 day	Microsoft Information Store	1 Week	Medium
DC1 RAMLAN CA Backup...	DC1 RAMLA...			Backup								Medium
DC1 RAMLAN CA Bac...	DC1 RAMLA...		DC1 Disk storage 0...	Full backup	Scheduled	Scheduled		20-Aug-2018 3:00:00 PM	Every 1 week on (Monday) at 3:00 PM		2 Weeks	Medium
DC1 RAMLAN CA Bac...	DC1 RAMLA...		DC1 Disk storage 0...	Incremental b...	Scheduled	Scheduled		21-Aug-2018 11:00:00 PM	Every 1 week on (Tuesday) at 11:00 PM		1 Week	Medium

Storage Status:

The network storage we created before is available for weekly backup jobs on Veritas Backup Server



Veritas Backup Exec™ (Central Administration Server)

All Storage

Name	State	Storage Type	Active Alerts	Storage Trending	Capacity	Active and scheduled jobs	Average job rate	Compression...
DC1	Online	Central Administration Server						
DC1 Disk storage 0001	Online	Disk storage		History of used disk space L...	125 MB used of 250 GB	2 backups		

Establish Trust:

Select the server – right click and select Establish Trust

Veritas Backup Exec™ (Central Administration Server)

Standard

Compact

Split and Filter

Tree List

Groups

Backup

One-Time Backup

Edit Backups

Backup Calendar

Restore

Search

Create Disaster Recovery Disk

Convert to Virtual

Add

Remove

Update

Hold Job Queue

Run Next Backup Now

Instantly Recover a VM

Instant

Home

Backup and Restore

Job Monitor

Storage

Reports

Instant Cloud Recovery

Views

Backups

Restores

Conversions

Servers and Virtual Hosts

Jobs

Instant

Groups

All Servers
All servers and appl...
14 servers

Physical
These are Physical...
4 servers

Virtual Servers
These are Virtual VM...
10 servers

Retired Servers
Servers in this group...
0 servers

Server

AGPM

APPV

CM

CM1

CM2

MBAM

OM

OOS

SFB

VMM

Active Alerts

Status

Last 7 Days of Backup Jobs

Last Backup

Next Backup

Never backed up

Never backed up

Never backed up

Never backed up

Never backed up

Never backed up

Never backed up

Never backed up

Never backed up

Never backed up

Backup

Edit Backups

Hold Job Queue

Run Next Backup Now

Restore

Search

Instantly Recover a VM

Remove a Recovered VM

Validate VM for Recovery

Convert to Virtual Machine from Point In Time

Remove Update

Establish Trust

Restore Files or Folders:

I have deleted a file from Documents folder called **FINAL RESUME**. I am going to restore the file from the backup to the same location.

> DC1 > Documents

Name	Date modified	Type	Size
Custom Office Templates	09-Jul-2018 3:50 PM	File folder	
ITIL	26-Jul-2018 3:42 PM	File folder	
My Shapes	20-Jul-2018 11:14 ...	File folder	
Outlook Files	20-Aug-2018 3:34 ...	File folder	
windowpowershell	03-Aug-2018 11:0...	File folder	
CMMMap_7_23_2018_14-30-59.vsd	23-Jul-2018 3:01 PM	Microsoft Visio 20...	1,282 KB
Default.rdp	15-Aug-2018 4:48 ...	Remote Desktop ...	3 KB

Veritas Backup Exec™ (Central Administration Server)

Home Backup and Restore Job Monitor Storage Reports

Standard Compact Sort and Filter Tree List Groups Backup One-Time Backup Edit Backups Backup Calendar Restore Search Create Restore

Views Backups Restore

Groups	Server	Active Alerts	Status
All Servers All servers and appli... 14 servers	DC1.RAMLAN.CA	Job Cancellation	Backed up
Physical These are Physical... 4 servers	DC2		Never backed up
	EX2016		Backed up

Restore Wizard

Which type of data from DC1.RAMLAN.CA do you want to restore?

Files, folders, or volumes
Restore file system data

Next > Cancel

What do you want to restore?

**File and folder backups to a point-in-time**

Browse the backup sets to find files, folders, or volumes to restore. Backup Exec uses the backup set that you select, as well as any related backup sets, to restore the data to the point-in-time at which the backup set was created.

**File and folder backups from a backup set**

Browse the backup sets to find files, folders, or volumes to restore. Backup Exec restores only the data from the backup set that you select.

**Files and folders located through Search**

Search for files, folders, or volumes in backup sets or archives, and restore selected items.

< Back

Next >

Cancel

What files and folders do you want to restore?

Show backups from: 21- 07 -2018

to: 21- 08 -2018

Test/Edit Credentials

Resource View

Details View

DC1.RAMLAN.CA



C:

☒ 20-Aug-2018 3:16:16 PM (Snapshot Full☒ Users☒ Administrator☒ Documents☐ Custom Office Templates☐ Outlook Files☐ windowpowershell☐ Downloads☐ 20-Aug-2018 3:01:30 PM (Snapshot Full

Name	Size	Type	Modified Time
<input type="checkbox"/> CMMMap_7_23_...	1.25 MB		23-Jul-2018 3:01:39 PM
<input type="checkbox"/> Custom Office...		File Folder	09-Jul-2018 3:50:38 PM
<input type="checkbox"/> Default.rdp	2.17 KB		15-Aug-2018 4:48:28 PM
<input type="checkbox"/> desktop.ini	402 Bytes		16-Aug-2018 1:29:01 PM
<input checked="" type="checkbox"/> Final Resume -...	27.9 KB		26-Jun-2018 9:09:39 AM
<input type="checkbox"/> Outlook Files	786 KB	File Folder	20-Aug-2018 3:08:04 PM
<input type="checkbox"/> windowpower...	4.37 KB	File Folder	03-Aug-2018 11:07:14 AM

What files and folders do you want to restore?

Show backups from: 21- 07 -2018

to: 21- 08 -2018

[Test/Edit Credentials](#)**Resource View** Details View

Selections for DC1.RAMLAN.CA Logon account: System Logon Account

Include - C:\Users\Administrator\Documents\Final Resume - Support.docx

Where do you want to restore the data?

☒ To the original location☐ To a different location

Drive:

Example: \server\drive:

Path:

Example: \path

[Browse](#)

Server logon account: System Logon Account

[Add/Edit](#)

Note: If you restore files from a volume that has Windows deduplication, Backup Exec places the files on the disk as non-deduplicated. Ensure that you have enough disk space to restore the non-deduplicated data before you run a restore job. For more information see: [TECH204775](#)

Note: During a redirected restore, you may not be able to restore some file system attributes from the original data. For more information about how Backup Exec treats the file system attributes for different types of file systems, see: [TECH205960](#)

Microsoft Virtual Hard Disk (Windows Server 2008 R2 or later)

☐ Create a Virtual Hard Disk for redirected data☒ Create a different Microsoft Virtual Hard Disk for each backup set that is restored☐ Create a single Microsoft Virtual Hard Disk that contains the merged files and folders from all redirected backup sets

VHD file name:

[What happens if I restore to a Virtual Hard Disk?](#)

< Back

Next >

Cancel

How do you want to maintain file integrity, hierarchy, and security for restored data?

- ☐ Restore files that were corrupt or incomplete in the backup. Some data may be retrievable from them.
- ☒ Recreate the directory structure from the backup when the data is restored; otherwise, all data is restored without any directory structure

Restore existing files

- ☐ Restore over existing files
- ☐ Skip if the file exists
- ☒ Overwrite the file on disk only if it is older

Restore security information and file system permissions

- ☒ Restore files with their security information and file system permissions
- ☐ Restore files without their security information and file system permissions. The security information and file system permissions for the restored files are determined by the security information and file system permissions at the destination location
- ☐ Restore only the security information and file system permissions for files that exist at the destination; do not restore the file content

< Back

Next >

Cancel

How do you want to restore operating system features?

- ☐ Restore Removable Storage data (Windows 2003 only)
- ☐ Restore disk quota data

Junction points

- ☒ Restore junction points, mount points, symbolic links, files, and directories
- ☐ Preserve existing junction points, mount points, and symbolic links, and restore files and directories

Which options should I select?

< Back

Next >

Cancel

What additional tasks do you want to perform before and/or after a restore?

☐ Run a command before and/or after the restoreType a command to run before the restore runs: Type a command to run after the restore runs: ☐ Let Backup Exec check the exit codes of the commands to determine if the commands completed successfully☒ Run job only if pre-command is successful☒ Run post-command only if pre-command is successful☒ Run post-command even if job failsCancel command if not complete within minutes

Run these commands:

☐ On this Backup Exec server☒ On each server restored to

Notification

Select each recipient to notify when the job completes.

Recipient Name	Recipient Type
<input checked="" type="checkbox"/> Ram	Recipient

[Manage recipients](#)[Properties](#)☒ Include the job log in email notifications

Which options should I select for the additional tasks?

< Back

Next >

Cancel

What job name and schedule do you want to use?

Name: Schedule: ☒ Run now☐ Run on: ☐ Create without a schedule

Options

Schedule Queue

Reschedule the job if it does not start hours after its scheduled start time☐ Cancel the job if it is still running hour after its scheduled start time☐ Submit job on hold

< Back

Next >

Cancel

Restore Summary

Data to restore

Restore: Files, folders, or volumes

Type of data

Type: File and folder backups to a point-in-time

Selections

C:\
Include - Users\Administrator\Documents\Final Resume - Support.docx

Location to restore to

Restore to original location: Yes

File integrity, hierarchy, and security options

Restore files that were corrupt or incomplete in the backup: No
Recreate the directory structure from the backup when the data is restored: Yes
Restore existing files: Overwrite the file on disk only if it is older
Restore security information and file system permissions: Restore files with their security information and file system permissions

Operating system features

Restore Removable Storage data (Windows 2003 only): No
Restore disk quota data: No
Junction points: Restore junction points, mount points, symbolic links, files, and directories

Additional tasks

Pre and post commands: No pre- or post-commands are configured
Notifications: Recipients have been selected for notification when the job completes
Include job log with a notification to an email recipient: Yes

Job name and schedule

Name: DC1.RAMLAN.CA Restore 00001
Schedule: Run Now
Submit job on hold: No

< Back

Finish

Cancel

Central Administration Server												
Jobs - 5 items												
Name	Server	Backup Exec Server	Storage	Job Type	State	Job Status	Byte Count	Start Time	Schedule	Selections	Data Retention	Priority
EX2016 Backup 00001	EX2016			Backup								Medium
EX2016 Backup 0000	EX2016		DC1 Disk storage 0...	Full backup	Scheduled	Scheduled		24-Aug-2018 11:00:00 PM	Every 1 week on (Friday) at 11:00 PM		2 Weeks	Medium
EX2016 Backup 0000...	EX2016		DC1 Disk storage 0...	Incremental backup	Scheduled	Scheduled		20-Aug-2018 11:00:00 PM	At 11:00 PM, then every 1 day		1 Week	Medium
DC1 RAMLAN CA Backup...	DC1 RAMLA...			Backup								Medium
DC1 RAMLAN CA Bac...	DC1 RAMLA...		DC1 Disk storage 0...	Full backup	Scheduled	Scheduled		27-Aug-2018 3:00:00 PM	Every 1 week on (Monday) at 3:00 PM		2 Weeks	Medium
DC1 RAMLAN CA Bac...	DC1 RAMLA...		DC1 Disk storage 0...	Incremental backup	Scheduled	Scheduled		21-Aug-2018 11:00:00 PM	Every 1 week on (Tuesday) at 11:00 PM		1 Week	Medium
DC1 RAMLAN CA Restore 0...	DC1 RAMLA...	DC1		Restore	Active	Active - Running - Initializing	0 Bytes		Run Now			Medium

Reply Reply All Forward IM

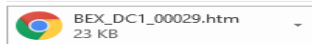


Mon 20-Aug-2018 3:41 PM

administrator <administrator@ramlan.ca>

Backup Exec Alert: Job Success (Server: "DC1") (Job: "DC1.RAMLAN.CA Restore 00001")

To: Ram



(Server: "DC1") (Job: "DC1.RAMLAN.CA Restore 00001") Completed Successfully.

Job Operation - Restore

Server - DC1.RAMLAN.CA

Drive and media mount requested: 20-Aug-2018 3:40:30 PM

Drive and media information from media mount: 20-Aug-2018 3:40:35 PM

Drive Name: DC1 Disk storage 0001

Media Label: B2D000002

Media GUID: {ab0f988d-604e-4751-975e-90f4ebf78e99}

All Media Used

B2D000002

Network control connection is established between [::1]:62537 <--> [::1]:10000

Network data connection is established between [::1]:62538 <--> [::1]:17768

Set Information - \\DC1.RAMLAN.CA\C: OS

Restore Set Information

Restoring data to \\DC1.RAMLAN.CA\C: OS.

Storage Media #1: " Media created 20-Aug-2018 3:15:26 PM "

Backup performed on 20-Aug-2018 at 3:16 PM

Backup set #1: " "

Restore started on 20-Aug-2018 at 3:40:50 PM.

Restore completed on 20-Aug-2018 at 3:40:50 PM.

Restore Set Summary

Restored 1 file in 4 directories.

Processed 28,907 bytes in 1 second.

Throughput rate: 1.65 MB/min

Job Completion Status

Job ended: 20-Aug-2018 at 3:41:00 PM

Completed status: Successful


> DC1 > Documents

Name	Date modified	Type	Size
Custom Office Templates	09-Jul-2018 3:50 PM	File folder	
ITIL	26-Jul-2018 3:42 PM	File folder	
My Shapes	20-Jul-2018 11:14 ...	File folder	
Outlook Files	20-Aug-2018 3:41 ...	File folder	
windowpowershell	03-Aug-2018 11:0...	File folder	
CMMMap 7 23 2018 14-30-59.vsd	23-Jul-2018 3:01 PM	Microsoft Visio 20...	1,282 KB
Default.rdp	15-Aug-2018 4:48 ...	Remote Desktop ...	3 KB
Final Resume - Support.docx	26-Jun-2018 9:09 ...	Microsoft Word D...	28 KB

Simplified Disaster Recovery:

I will complete the final task of installing simplified disaster recovery process.


Simplified Disaster Recovery



No Simplified Disaster Recovery Disk Created

You must create the Simplified Disaster Recovery disk so that you can recover your backed-up computers in case of a disaster.
[Create Disaster Recovery Disk](#)

Create Simplified Disaster Recovery Disk Wizard



Welcome to the Simplified Disaster Recovery Disk Creation Wizard

This wizard helps you to create a new Simplified Disaster Recovery disk. If you already have a Simplified Disaster Recovery disk, this wizard helps you to create a customized disk from it.

You can add network and storage drivers to the recovery disk that is being created. You can either manually add the drivers or select the drivers from the computers that were backed up by the Backup Exec server.

To connect to another Backup Exec server, select the following option:

☐ Choose another Backup Exec server


Version 20.0.1188.1650

Next > Cancel

Create Simplified Disaster Recovery Disk Wizard

Source Location

Create a new Simplified Disaster Recovery disk image, or specify the location of an existing disk.



☒ Create a new Simplified Disaster Recovery Disk image (.iso)
If you do not have an image or a recovery disk, select this option.

☐ From a previous CD or DVD, or from a folder
Type the location of the folder that contains the files extracted from the Simplified Disaster Recovery Disk:

Browse

☐ From an image (.iso) file
Type the location of the previous Simplified Disaster Recovery Disk:

Browse

< Back Next > Cancel

License Agreement

You must accept the terms of this agreement to continue. If you do not accept the Microsoft Software License Terms, click Decline.

MICROSOFT SOFTWARE LICENSE TERMS

Microsoft Windows Assessment and Deployment Kit (ADK) for Windows 10
Microsoft Windows Hardware Lab Kit (HLK) for Windows 10
Microsoft Windows Driver Kit (WDK) for Windows 10

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1. INSTALLATION AND USE RIGHTS.

Back

Accept

Decline

Select the features you want to install

Click a feature name for more information.

- ☐ Application Compatibility Tools
- ☒ Deployment Tools
- ☒ Windows Preinstallation Environment (Windows PE)
- ☐ Imaging And Configuration Designer (ICD)
- ☐ Configuration Designer
- ☐ User State Migration Tool (USMT)
- ☐ Volume Activation Management Tool (VAMT)
- ☐ Windows Performance Toolkit
- ☐ Microsoft SQL Server 2012 Express
- ☐ Microsoft User Experience Virtualization (UE-V) Template
- ☐ Microsoft Application Virtualization (App-V) Sequencer
- ☐ Media eXperience Analyzer

Application Compatibility Tools

Size: 7.2 MB

Tools to help mitigate application compatibility issues.

Includes:

- Compatibility Administrator
- Standard User Analyzer (SUA)

Estimated disk space required:

3.4 GB

Disk space available:

185.6 GB

< >

Back

Install

Cancel

Welcome to the Windows Assessment and Deployment Kit - Windows 10!

☐ Learn more about the Windows Assessment and Deployment Kit
Check this box to explore the Windows ADK documentation on MSDN.

Close

Create Simplified Disaster Recovery Disk Wizard



Startup Options

Specify startup options for the custom Simplified Disaster Recovery Disk



Platform for which to create the Disk Image (iso):

- ☐ 32-bit
☒ 64-bit

Time zone:

(UTC-05:00) Eastern Time (US & Canada)

Language:

English

☒ Automatically start network services

< Back

Next >

Cancel

Create Simplified Disaster Recovery Disk Wizard



Select computers to use the drivers from

Select computers from which to add the network drivers and storage drivers.



Select the 64-bit computers from which to use the network drivers and storage drivers. However if you prefer to add OEM drivers, click Next.

64-bit computers backed up by this Backup Exec server:

<input type="checkbox"/>	Computer Name	Operating System
Backups for which Simplified Disaster Recovery is enabled have not been run.		



To create a 32-bit custom Simplified Disaster Recovery Disk, click Back and select 32-bit as the platform for the Recovery Disk Image (iso) to be created.

< Back

Next >

Cancel

Create Simplified Disaster Recovery Disk Wizard

Drivers to Include
Select the network drivers and storage drivers that you want to include in the custom Simplified Disaster Recovery Disk.

Drivers List:

<input type="checkbox"/>	Name	Version	Date time	System Name
<div><p>Create Simplified Disaster Recovery Disk Wizard</p><p>A newer or same version of this driver already exists in the database or discrepancy list</p><p>OK</p></div>				

To add a network driver or a storage driver, click the Add Driver button, and then navigate to the location of the driver.

Add Driver

< Back Next > Cancel

I tried to add ASUS Server network driver. The database within the ISO package already has the newer or same version.

Create Simplified Disaster Recovery Disk Wizard

Select Location for CD Image.
Specify a location to store the bootable image until you burn a CD/DVD.

An ISO 9660 CD image file will be created.
Most CD/DVD image burning applications require the image to be on the same computer to prevent underrun problems during the burn.

It is recommended that you place the image to be burned in a location on the computer where the CD/DVD image burning application is installed.

Volume Label:
Custom SDR Bootable CD

Image file name (.iso):
C:\Program Files\Veritas\Backup Exec\SDR\CustomSDRImage0001.iso

Browse

< Back Next > Cancel

Create Simplified Disaster Recovery Disk Wizard

Summary
Review your selections before you start the image creation process.

Image

Disk label	: Custom SDR Bootable CD
Platform	: AMD64
Source	: Will be extracted from the Microsoft Windows Asse
Destination CD image	: C:\Program Files\Veritas\Backup Exec\SDR\C

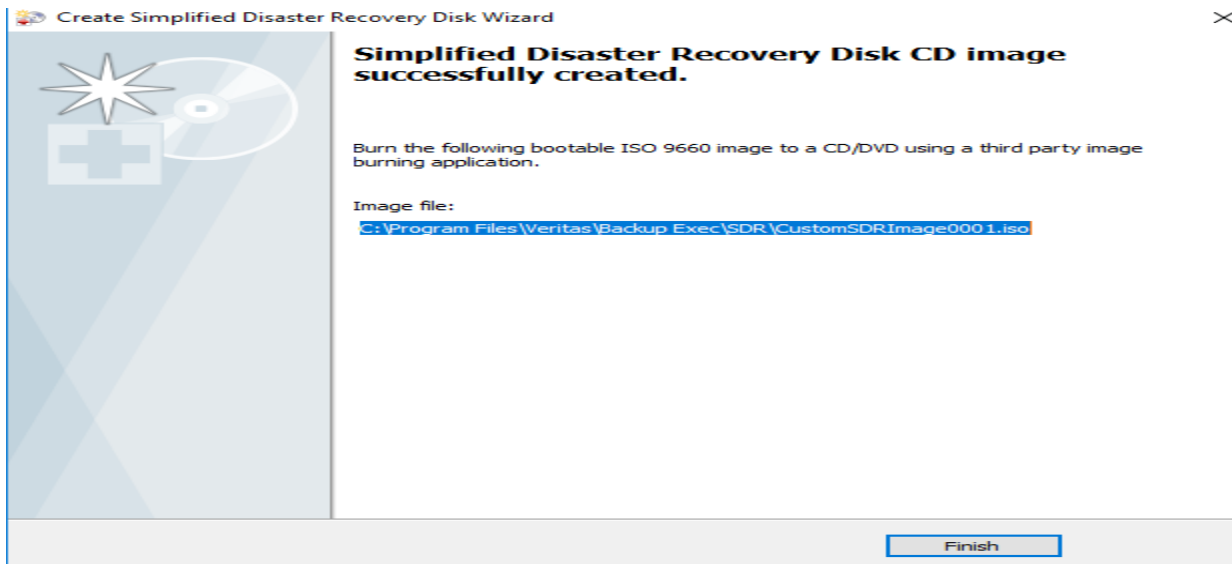
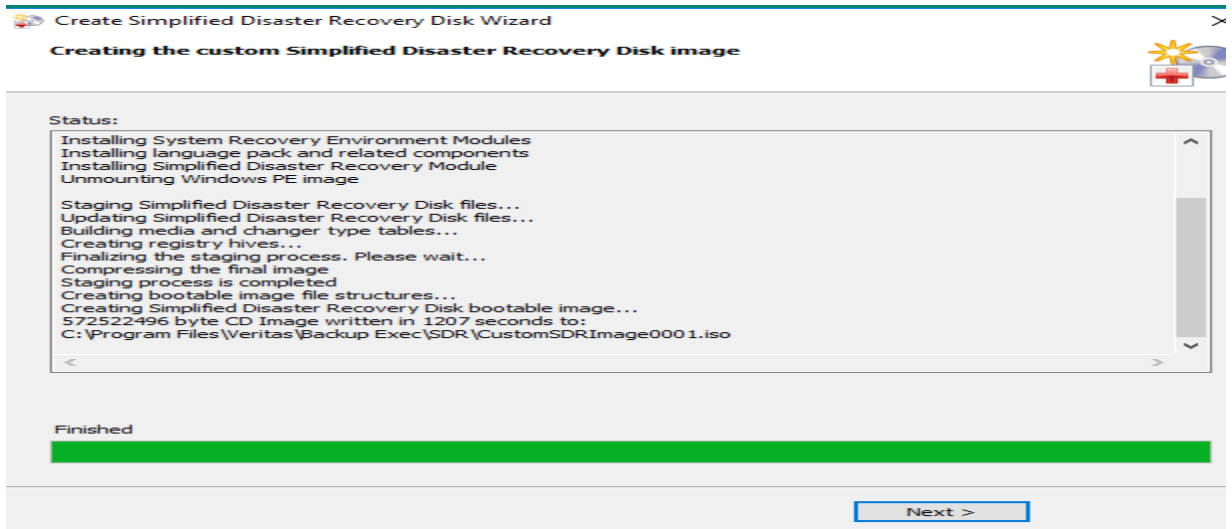
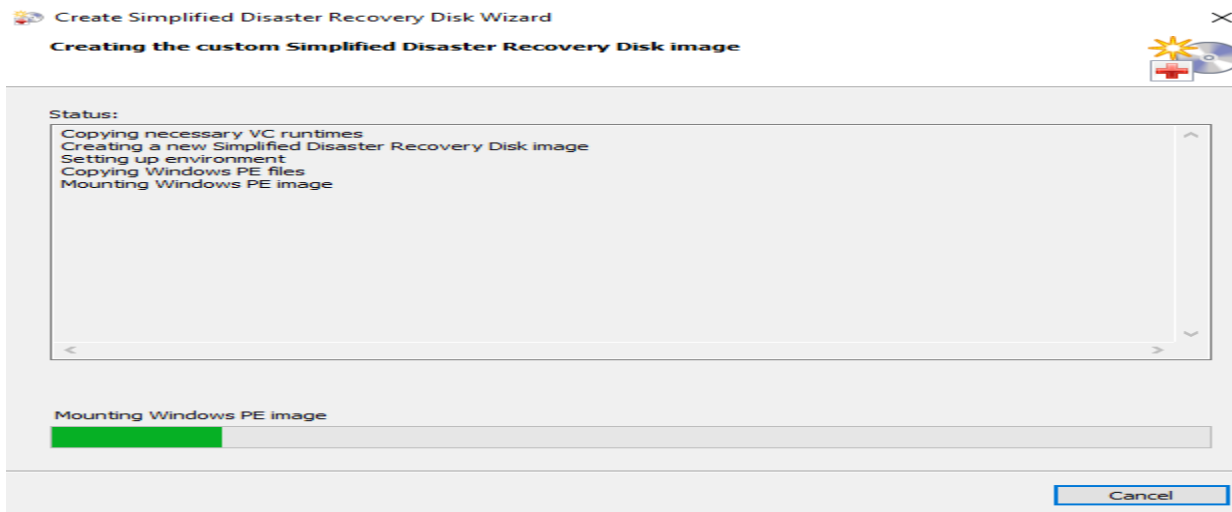
Startup options

Timezone	: (UTC-05:00) Eastern Time (US & Canada)
Language	: English
Keyboard layout	: English (0409:00000409)
Automatically start network services	: Yes

Selected drivers

Name	Version	Date
------	---------	------

< Back Create Image Cancel



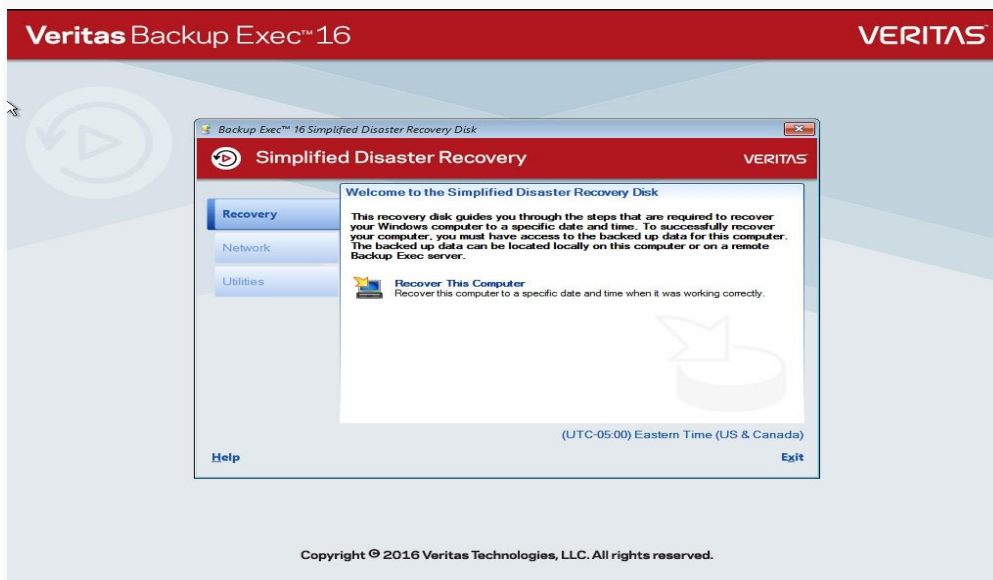
Recovering a Computer:

Below screen shot are from Veritas site on how to recover the computer that crashed using Simplified Disaster Recovery ISO/CD.

The first interactive screen that comes up is the License Agreement Screen. Once that is accepted the SDR will continue.



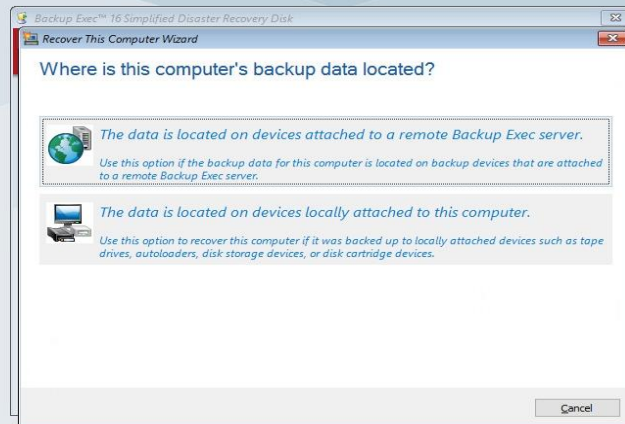
In the Recovery tab choose "Recover This Computer".



If connecting to a Remote Backup Exec server choose that option which will start networking services.

Note: If the Starting Networking services fails to start, use the Utility menu option and select Load a Driver; for further assistance refer to <https://www.veritas.com/docs/000012248>

If the Server that is being recovered contains the backup device locally, choose that option.

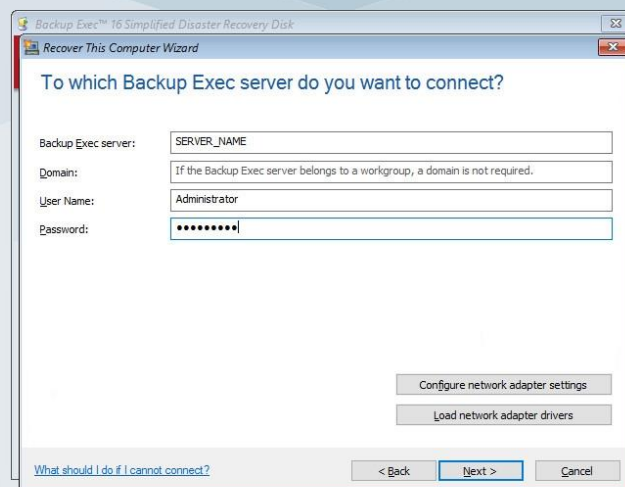


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Enter the Backup Exec server where the files are backed up to.

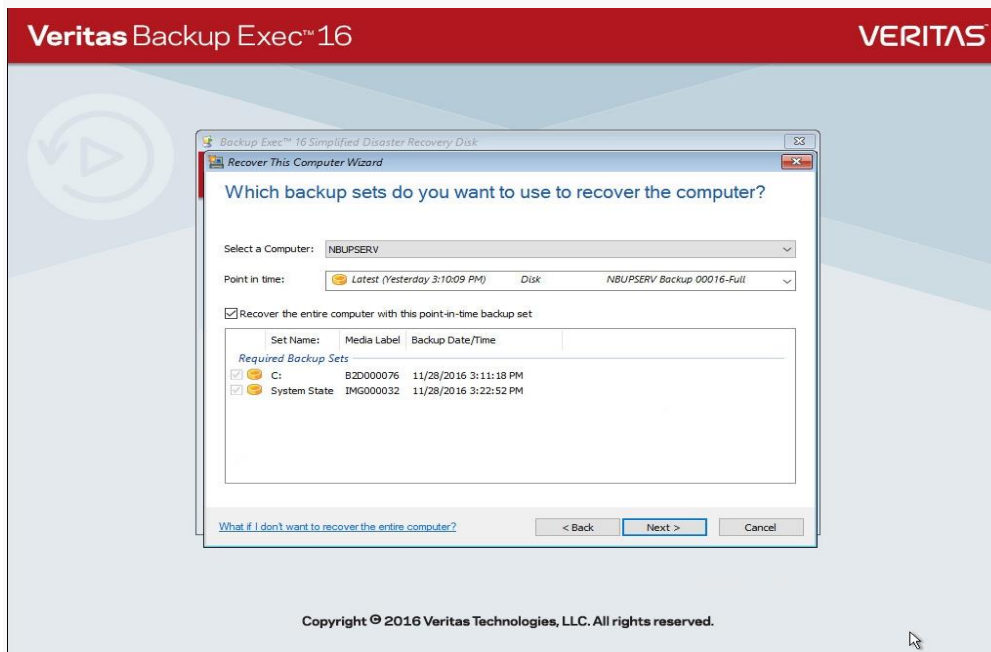
Enter the server name, domain, User name and Password.

The network adapter can be configured or drivers added, if necessary.



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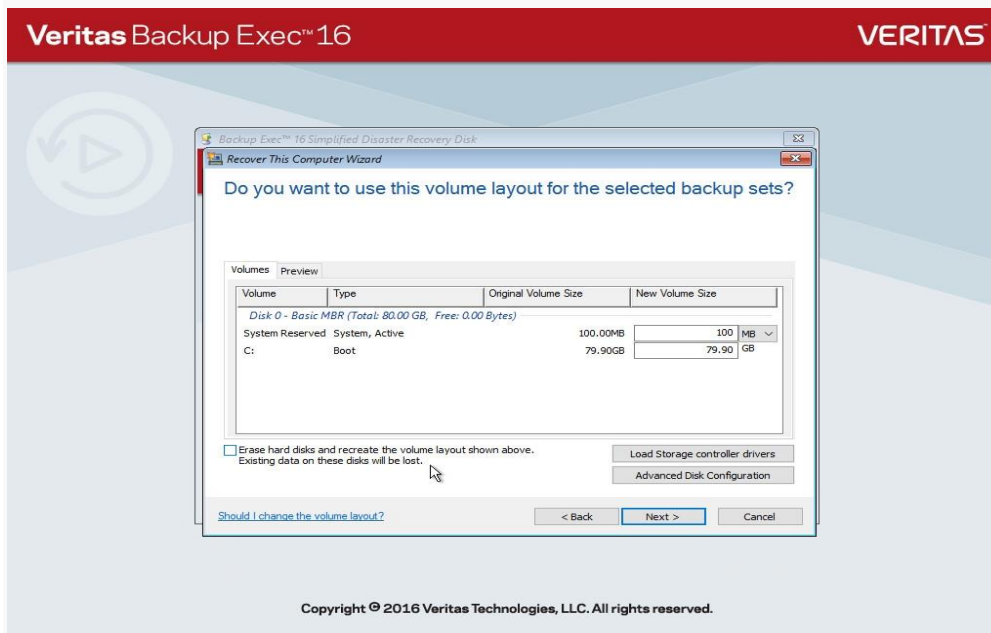
Select the server and the point-in-time to be recovered and click Next.



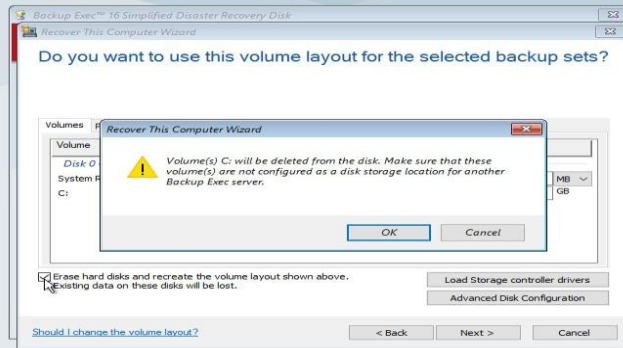
The next screen displays the original volume layout of the server that was backed up. Clicking the Preview button will show a different view.

The Advanced Disk Configuration button will allow the disk layout to be modified to accommodate larger disks so the volumes can be increased in size.

Storage controller drivers can also be added at this time.

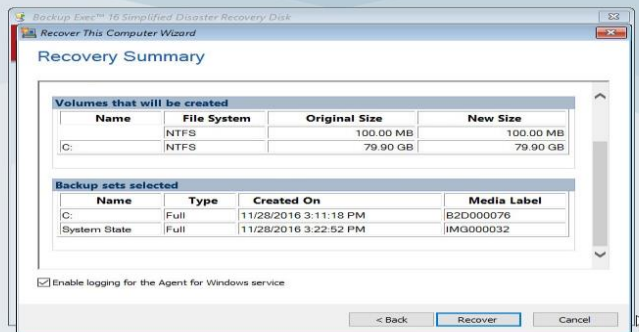


In some instances the option to "Erase hard disks..." should be chosen.

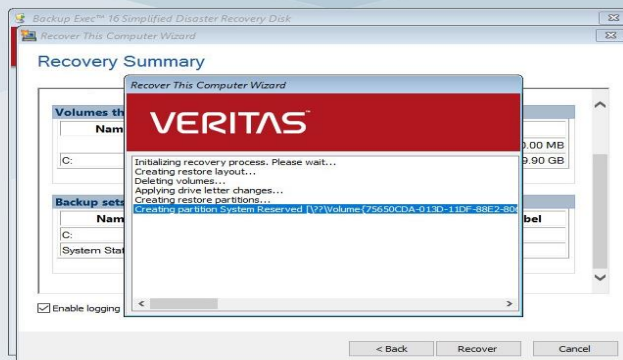


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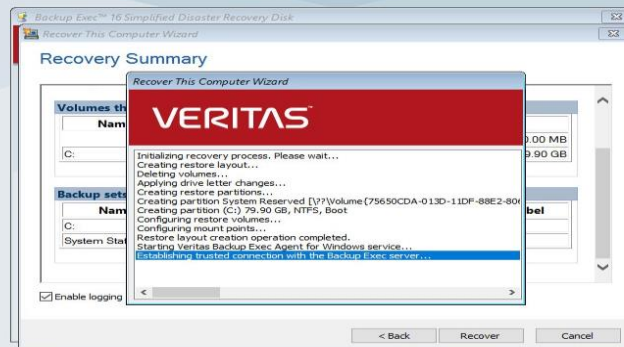
The Recovery Summary is displayed, click Recovery to start the recovery.



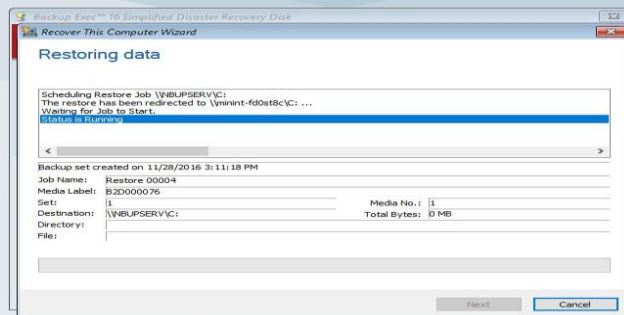
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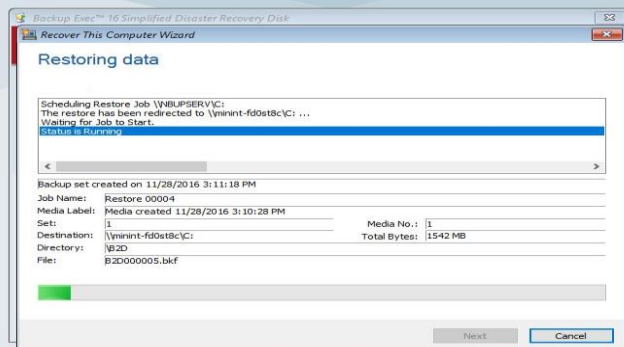
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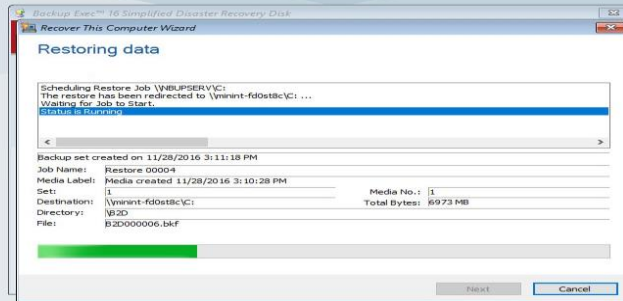
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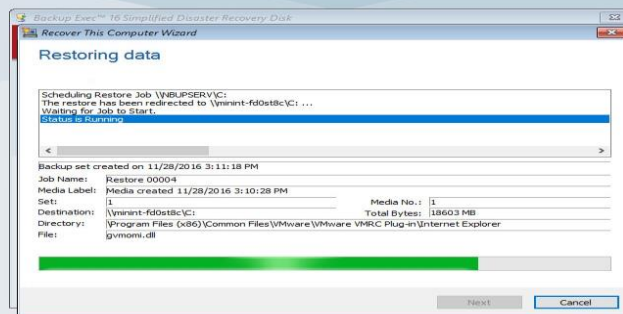
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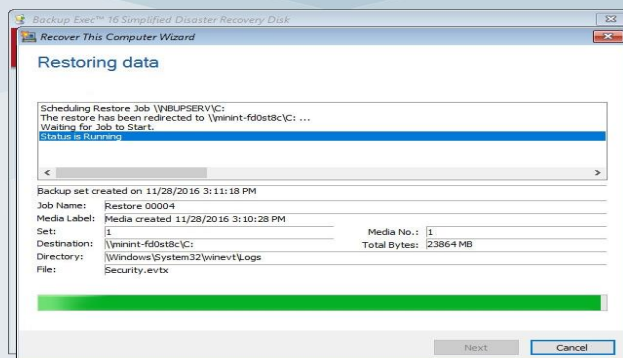
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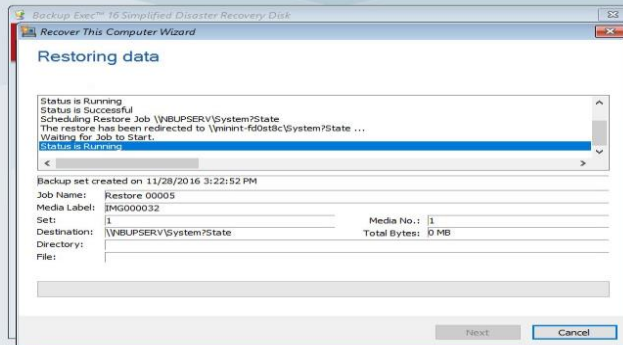
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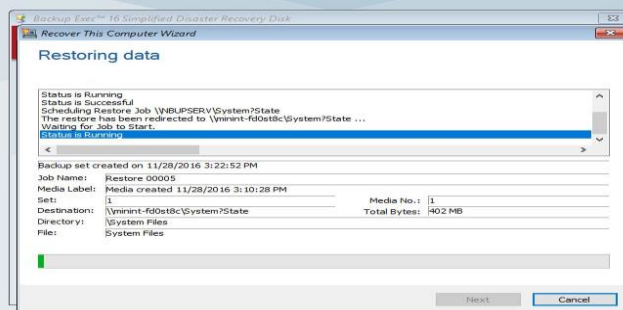
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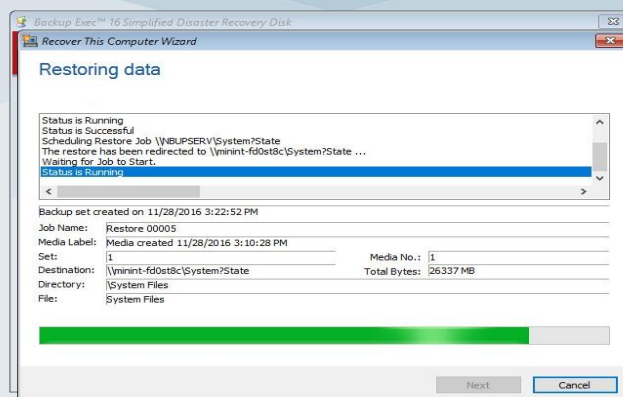
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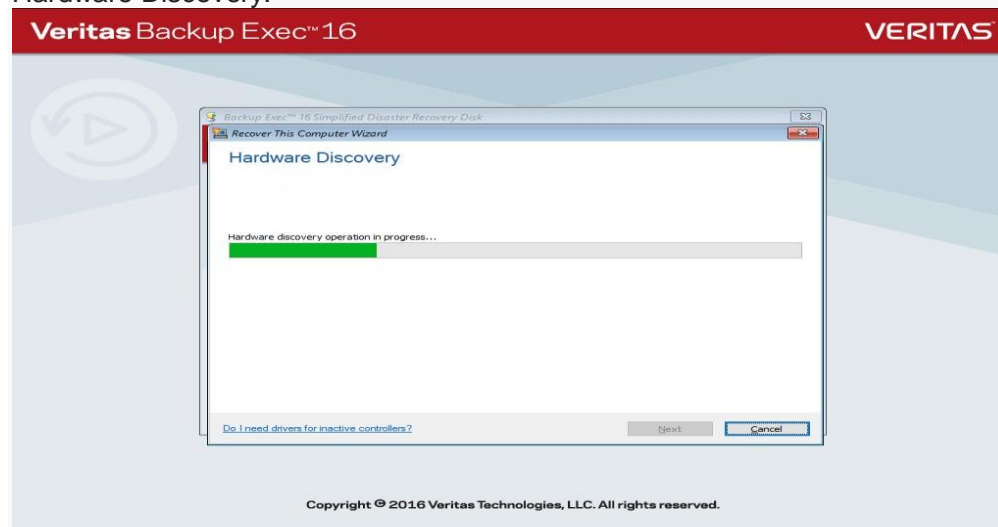


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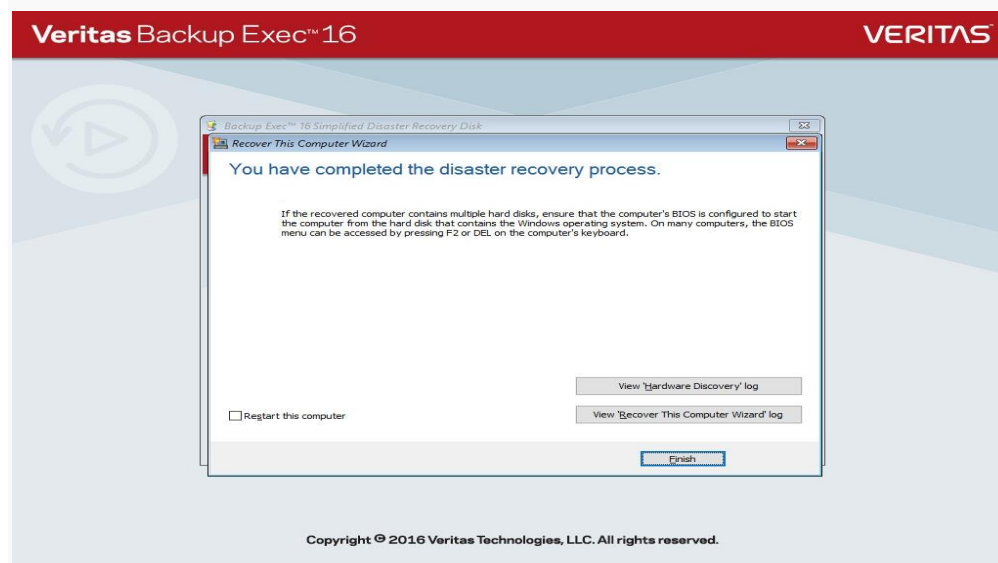


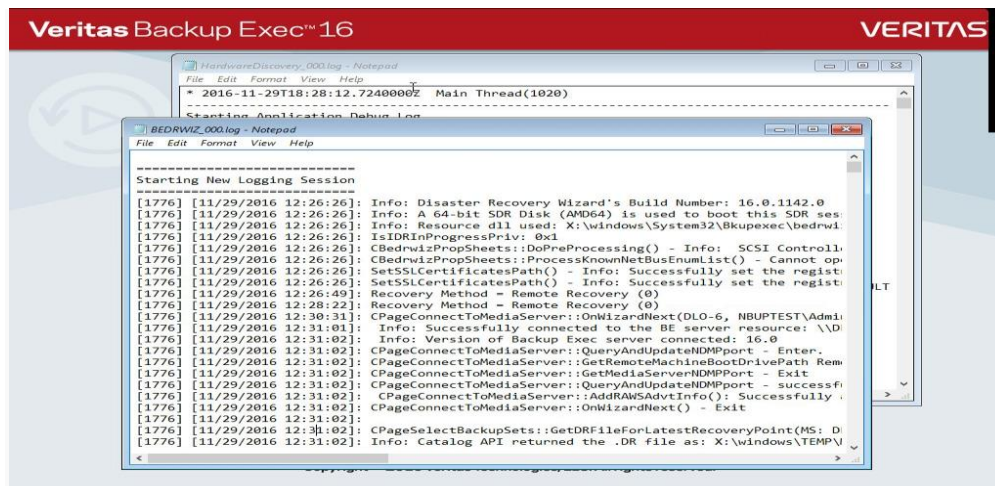
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When the restore is finished restoring the files and System State it will then go through a Hardware Discovery.

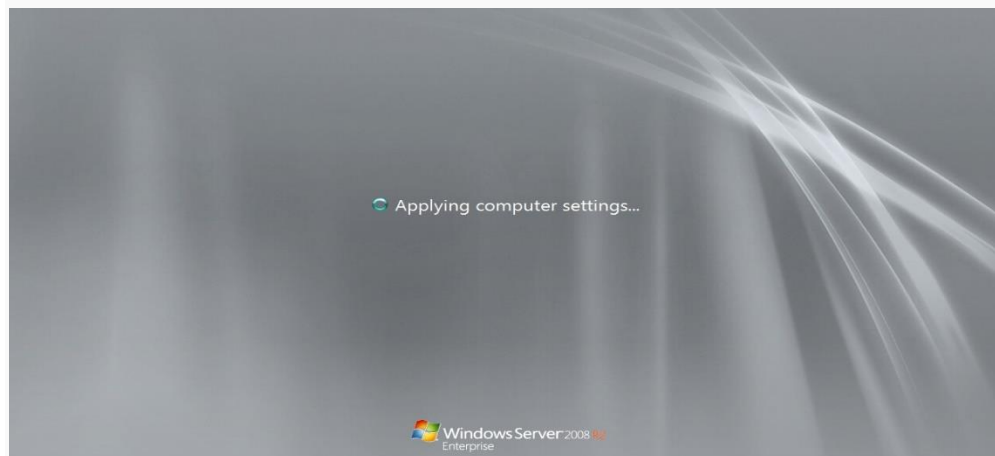


When the restore is complete the Hardware and Recover logs can be reviewed.





When the system reboots it will complete recovery and the system is fully restored and ready to login.



Various Screen Shots of Veritas Backup Exec:

The image displays two screenshots of the Veritas Backup Exec Central Administration Server interface.

Top Screenshot:

- Configuration Tasks:** A warning icon indicates that critical settings are configured, but additional action is required to correct items marked with a warning. It shows 0 Critical Tasks, 1 Warning Task, and 1 Informational Task.
- Virtual Machine Backups:** A message states "Virtual machine backup status not available".
- Storage Status:** A progress bar shows 12.5 GB used of 250 GB total capacity.
- Simplified Disaster Recovery:** A message states "The Simplified Disaster Recovery Disk has been created".
- Alert History:** A message states "No alert history items exist".
- Licensed Capacity Usage Status:** A progress bar shows 12 GB used.
- Backup Status:** A pie chart shows the status of backup jobs: 2 Successful, 0 Failed, 0 Completed with exceptions, 0 First backup scheduled, and 15 Never backed up.

Bottom Screenshot:

- Licensing Information:** A message states "Trial Version" and "Trial version expires in 060 days".
- Database Encryption Key:** A message states "Database Encryption Key Has Been Exported".
- Backup Size:** A bar chart shows the amount of data backed up (in GB) over time (from 14-Aug-2018 to 20-Aug-2018). The chart shows a significant increase in data backed up on 20-Aug-2018.
- Backup Exec RSS Reader:** A list of RSS feeds is displayed, including Backup Exec Blog, Backup Exec Forums, Backup Exec Ideas, and Backup Exec Events.

Veritas Backup Exec™ (Central Administration Server)

Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery

Standard Compact Sort and Filter Views Backups Restore backup sets created by this job Restores Edit Delete Cancel Priority Run Now Hold Test Run View Job Activity View Job History Run Now View Job Log Delete View Job History Error Handling Duplicate Verify Edit Backup Job History

Jobs - 5 Items											
Name	Server	Backup Exec Server	Storage	Job Type	State	Job Status	Byte Count	Start Time	Schedule	Selections	Data Retention
EX2016 Backup 00001	EX2016			Backup							
EX2016 Backup 00001	EX2016		DC1 Disk storage 0...	Full backup	Scheduled	Scheduled		24-Aug-2018 11:00:00 PM	Every 1 week on (Friday) at 11:00 PM		2 Weeks
EX2016 Backup 00001	EX2016		DC1 Disk storage 0...	Incremental backup	Scheduled	Scheduled		29-Aug-2018 11:00:00 PM	At 11:00 PM, then every 1 day		1 Week
DC1 RAMLAN CA Backup...	DC1 RAMLAN CA			Backup							
DC1 RAMLAN CA Backup...	DC1 RAMLAN CA		DC1 Disk storage 0...	Full backup	Scheduled	Scheduled		27-Aug-2018 3:00:00 PM	Every 1 week on (Monday) at 3:00 PM		2 Weeks
DC1 RAMLAN CA Backup...	DC1 RAMLAN CA		DC1 Disk storage 0...	Incremental backup	Scheduled	Scheduled		21-Aug-2018 11:00:00 PM	Every 1 week on (Tuesday) at 11:00 PM		1 Week
WIN10 Agent for Windows...				Install	Scheduled	Ready		20-Aug-2018 3:56:24 PM	Run Now		

Job Histories - 31 Items													
Name	Server	Backup Exec...	Storage	Created On	Job Type	Job Status	Percent Complete	Start Time	End Time	Elapsed Time	Byte Count	Job Rate	Error Code
WIN10 Agent for Windows...	WIN10	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:02:37	0 Bytes		
WIN10 Agent for Windows...	WIN10	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:02:53	0 Bytes		
DC1 RAMLAN CA Rest...	DC1 RAMLA...	DC1	DC1 Disk stor...	Central Admin...	Restore	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:42	28.2 KB	1.00 MB/min	
EX2016 Backup 00001...	EX2016	DC1	DC1 Disk stor...	Central Admin...	Backup	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:02:02	406 MB	1,106.00 MB/s	1\EX2016\Microsoft Info...
DC1 RAMLAN CA Back...	DC1 RAMLA...	DC1	DC1 Disk stor...	Central Admin...	Backup	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:01:13	3.98 MB	79.00 MB/min	1\DC1 RAMLAN CA\IC...
DC1 RAMLAN CA Back...	DC1 RAMLA...	DC1	DC1 Disk stor...	Central Admin...	Backup	Cancelled	N/A	20-Aug-2018...	20-Aug-2018...	00:10:23	12.0 GB	1,434.00 MB/s	1\DC1 RAMLAN CA\IC...
MBAM Agent for Windo...	MBAM	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:48	0 Bytes		
VMM Agent for Windo...	VMM	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:10	0 Bytes		
SFB Agent for Windo...	SFB	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:09	0 Bytes		
CM Agent for Windo...	CM	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:13	0 Bytes		
OOS Agent for Windo...	OOS	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:12	0 Bytes		
CM1 Agent for Windo...	CM1	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:34	0 Bytes		
CM2 Agent for Windo...	CM2	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:27	0 Bytes		
CM Agent for Windo...	CM	DC1		Central Admin...	Install	Successful	100%	20-Aug-2018...	20-Aug-2018...	00:00:45	0 Bytes		

Veritas Backup Exec™ (Central Administration Server)

Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery

Standard Compact Sort and Filter Views Backups One Time Backup Edit Backup Calendar Restores Search Create Disaster Recovery Disk Conversions Servers and Virtual Hosts Jobs Instant Recovery Recovery Ready

Servers					
Groups	Server	Active Alerts	Status	Last 7 Days of Backup Jobs	Last Backup
All Servers All servers and appt...	DC1.RAMLAN.CA		Backed up	Tu We Th Fr Sa Su Mo	20-Aug-2018 3:15:19 PM
Physical These are Physical...	DC2		Never backed up	Tu We Th Fr Sa Su Mo	
Virtual Servers These are Virtual...	EX2016		Backed up	Tu We Th Fr Sa Su Mo	20-Aug-2018 3:22:25 PM
Workstations These are all work...	PAR		Never backed up	Tu We Th Fr Sa Su Mo	
Retired Servers Servers in this group...					

Details for DC1.RAMLAN.CA

Showing guest machines: All

Name	Backup Status	Last 7 Days of Backup Jobs	Last Backup	Next Backup
Microsoft Windows computer				
C:	Backed up			
D:	Never backed up			
E:	Never backed up			
Microsoft SQL S...				
System State	Never backed up			
Microsoft Hyper-V				
F:	Never backed up			

Refresh Backup Restore Delete

Veritas Backup Exec™ (Central Administration Server)

Central Administration Server

Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery

Standard Compact Sort and Filter Views Tree List Groups Backup One-Time Backup Edit Backups Backup Calendar Restore Search Create Disaster Recovery Disk Conversions Servers and Virtual Hosts Add Remove Update Hold Job Quick Run Next Backup Now Instantly Recover a VM Remove a Recovered VM Validate VM for Recovery Recovery Ready

Groups

- All Servers All servers and applications (7 servers)
- Physical These are Physical Servers
- Virtual Servers These are Virtual VMs (10 servers)
- Workstations These are all workstations
- Retired Servers Servers in this group (0 servers)

Servers

Server	Active Alerts	Status	Last 7 Days of Backup Jobs	Last Backup	Next Backup
AGPM		Never backed up	Tu W Th Fr Sa Su Mo		
APPV		Never backed up	Tu W Th Fr Sa Su Mo		
CM		Never backed up	Tu W Th Fr Sa Su Mo		
CM1		Never backed up	Tu W Th Fr Sa Su Mo		
CM2		Never backed up	Tu W Th Fr Sa Su Mo		
MSAM		Never backed up	Tu W Th Fr Sa Su Mo		
OM		Never backed up	Tu W Th Fr Sa Su Mo		
OOS		Never backed up	Tu W Th Fr Sa Su Mo		
SFB		Never backed up	Tu W Th Fr Sa Su Mo		
VMM		Never backed up	Tu W Th Fr Sa Su Mo		

Details for AGPM

Backup Source	Backup Selection	Backup Status	Login Account
C:	None	Never backed up	Use server's login acc...
Windows computer (virtual machine)	EFI System Partition	None	Use server's login acc...
	System State	None	Use server's login acc...

Refresh

DC1 Alerts 0 Active Directory Users and Computers 0 VERITAS

Veritas Backup Exec™ (Central Administration Server)

Central Administration Server

Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery

Standard Compact Sort and Filter Views Tree List Groups Backup One-Time Backup Edit Backups Backup Calendar Restore Search Create Disaster Recovery Disk Conversions Servers and Virtual Hosts Add Remove Update Hold Job Quick Run Next Backup Now Instantly Recover a VM Remove a Recovered VM Validate VM for Recovery Recovery Ready

Groups

- All Servers All servers and applications (7 servers)
- Physical These are Physical Servers
- Virtual Servers These are Virtual VMs (10 servers)
- Workstations These are all workstations
- Retired Servers Servers in this group (0 servers)

Servers

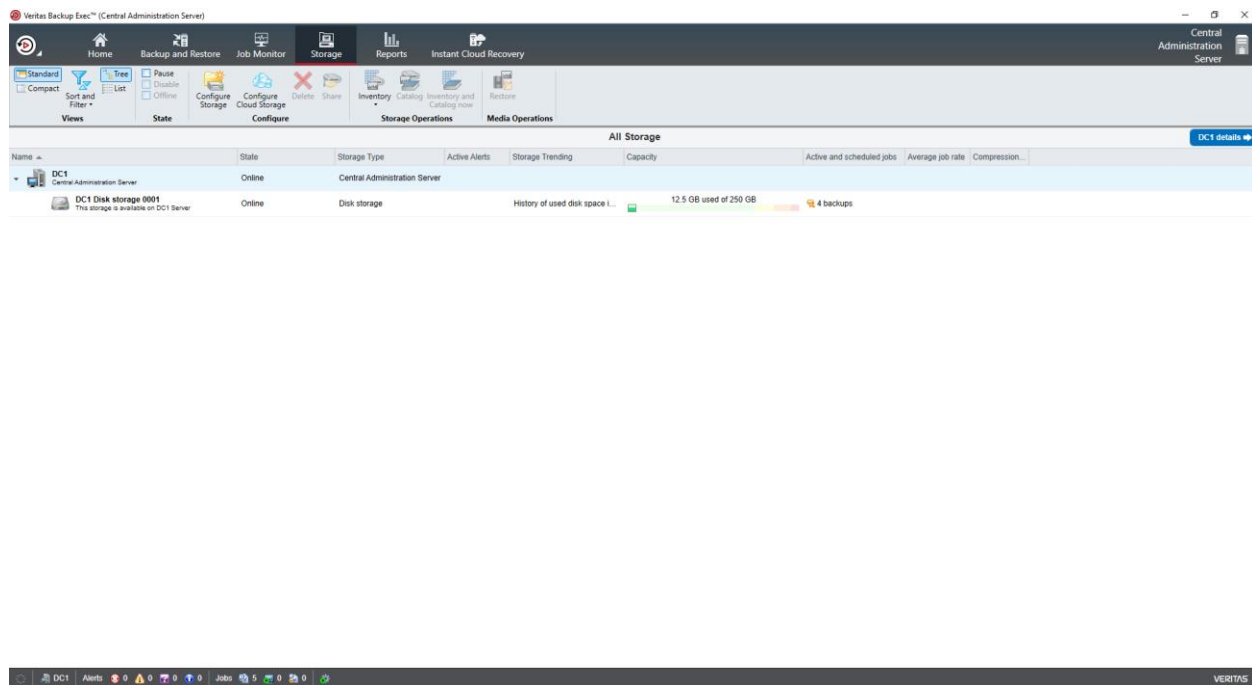
Server	Active Alerts	Status	Last 7 Days of Backup Jobs	Last Backup	Next Backup
WIN10		Connection not established			
WIN7		Never backed up	Tu W Th Fr Sa Su Mo		
WIN8		Never backed up	Tu W Th Fr Sa Su Mo		

Details for WIN10

Backup Source	Backup Selection	Backup Status	Login Account
---------------	------------------	---------------	---------------

Refresh

DC1 Alerts 0 Jobs 5 0 0 0 0 VERITAS



This concludes the whole process with Veritas Backup Exec.

Thanks

Ram Lan

20th Aug 2018