

INSTALL VERITAS BACKUP EXEC v20.3.1188 ON WINDOWS SERVER 2019 DOMAIN CONTROLLER

First download trial copy from Veritas site or from this link

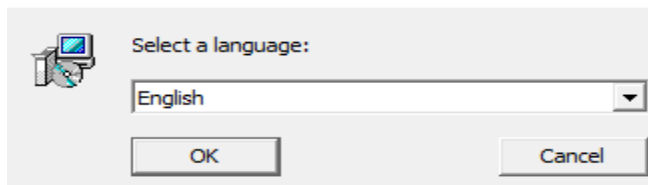
<https://www.teamos-hkrg.com/index.php?threads/symantec-veritas-backup-exec-20-2-1188-1650-x64.63870/>


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

DC > DVD Drive (I:) Veritas

Name	Date modified	Type	Size
BE	12-Oct-2018 2:13 ...	File folder	
bin	12-Oct-2018 2:13 ...	File folder	
Linux	12-Oct-2018 2:14 ...	File folder	
AutoRun.inf	23-Oct-2017 9:54 ...	Setup Information	1 KB
Browser.exe	12-Jan-2018 2:11 ...	Application	1,810 KB
Browser.ini	23-Oct-2017 9:54 ...	Configuration sett...	1 KB
DVD.txt	12-Oct-2018 2:13 ...	Text Document	1 KB

Backup Exec (TM) DVD Browser




**Veritas Backup Exec™**

[Home](#)
[Getting Started](#)
► Pre-installation
[Installation](#)
[View License](#)

[Microsoft Windows](#)
[Certification](#)
[Backup Exec Web Site](#)
[Browse DVD](#)

[Technical Support](#)

Pre-installation
Scan your environment for compatibility. Run an Environment Check on a computer prior to installing a new product or running a backup.
Run an environment check for the following product:
 **Backup Exec**

VERITAS™

Welcome
► Welcome
Choose
Remote
Progress
Results


[Technical Support](#)

Welcome


The Backup Exec Environment Check reviews a computer's configuration and then reports issues that must be resolved before you can successfully install Backup Exec or Backup Exec options.
The following are reviewed by the Environment Check:


- Minimum requirements for installation
- Compatible versions of required components
- Previous versions and options
- Operational storage devices and correct drivers
- Use of Backup Exec ports by third-party software

To continue, click Next.

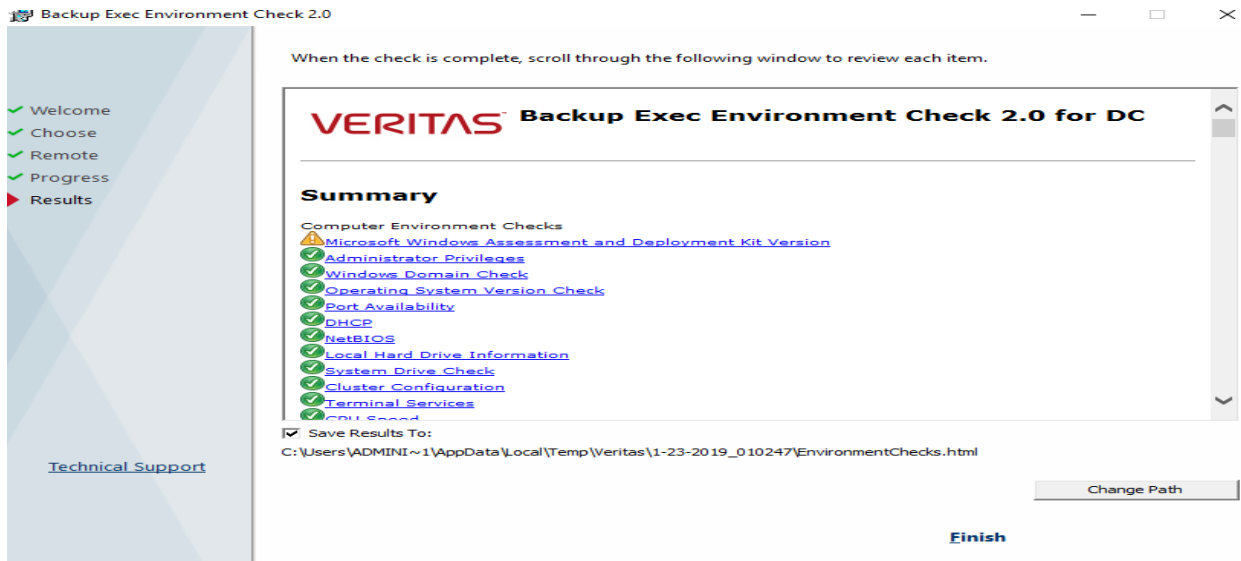
 **Cancel**

Choose Local or Remote Environment Check
You can run the Environment Check on the local computer or on remote computers.

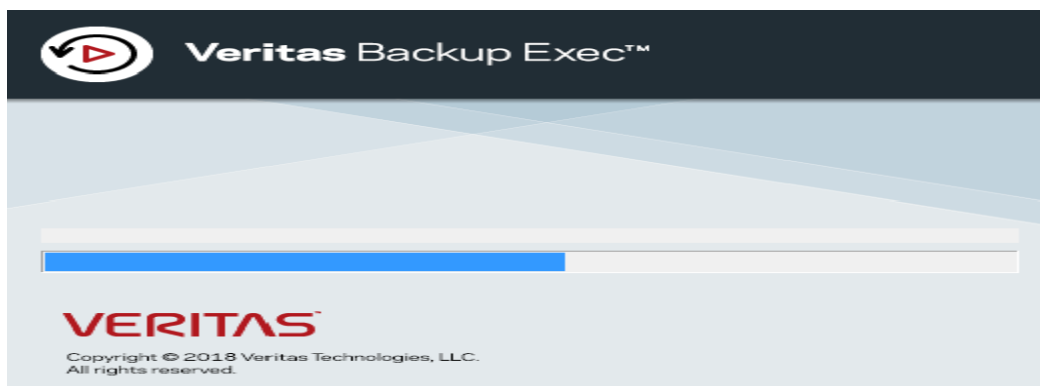
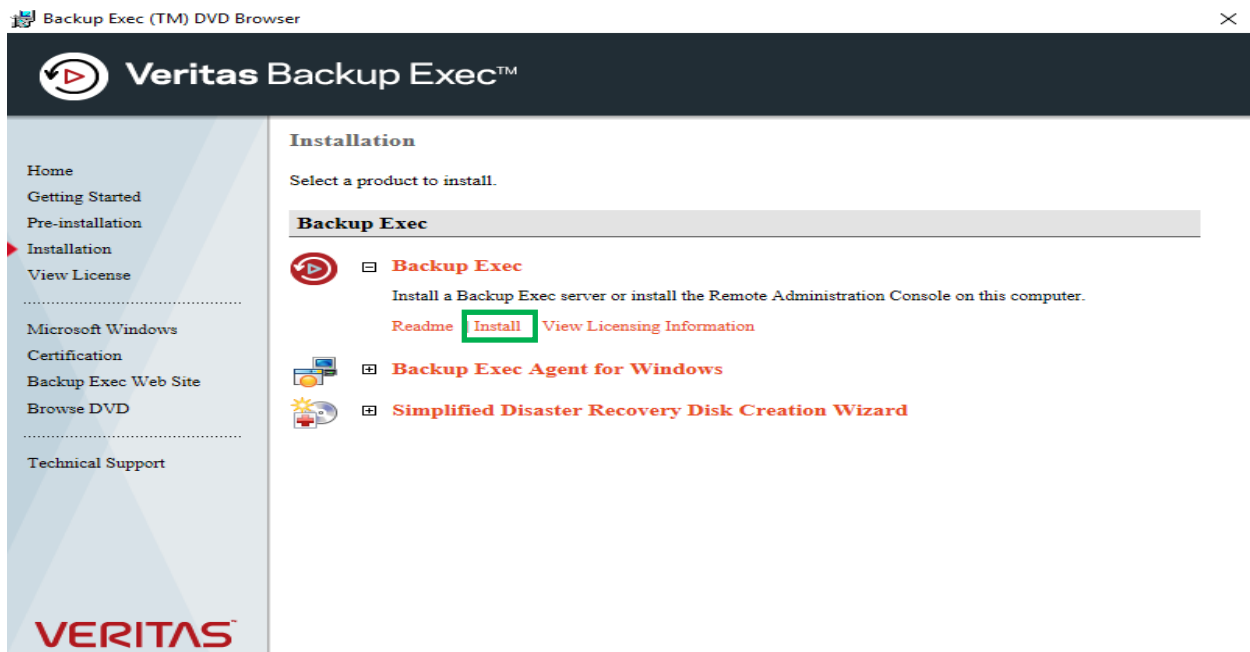
☒ **Local Environment Check**
 Review the configuration of the local computer.

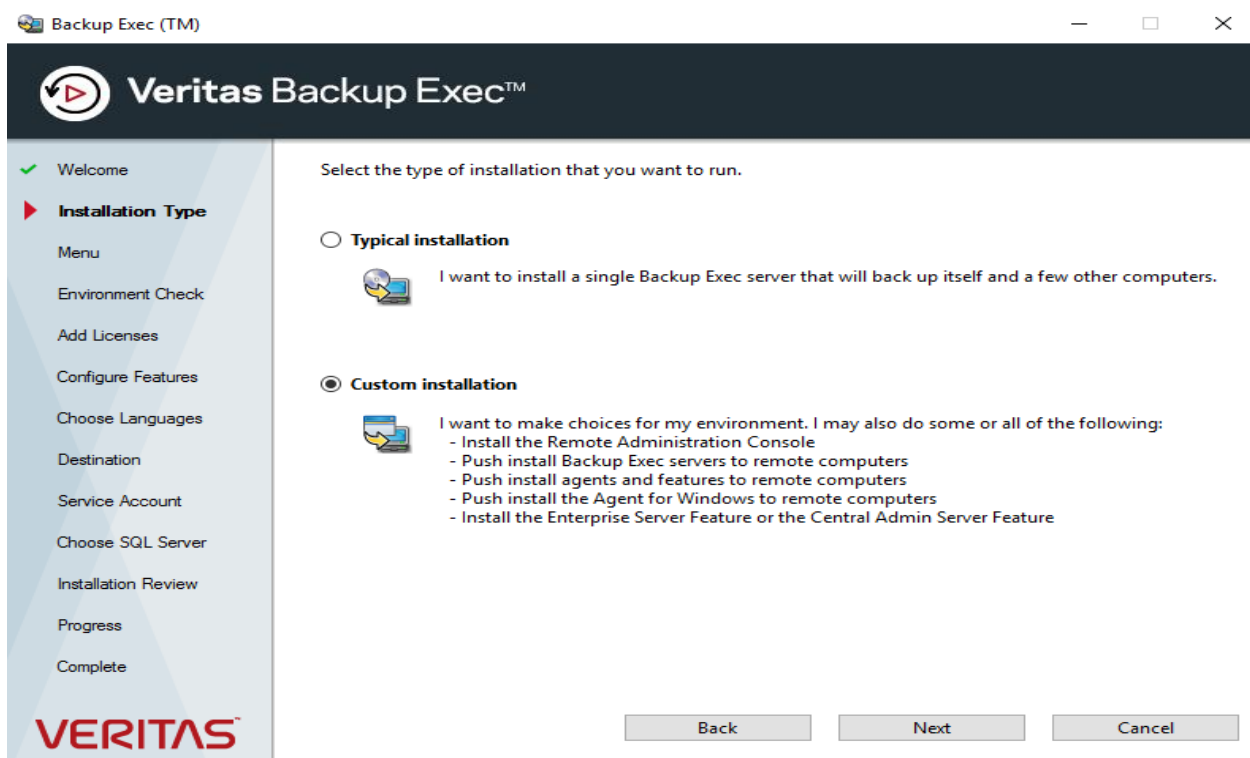
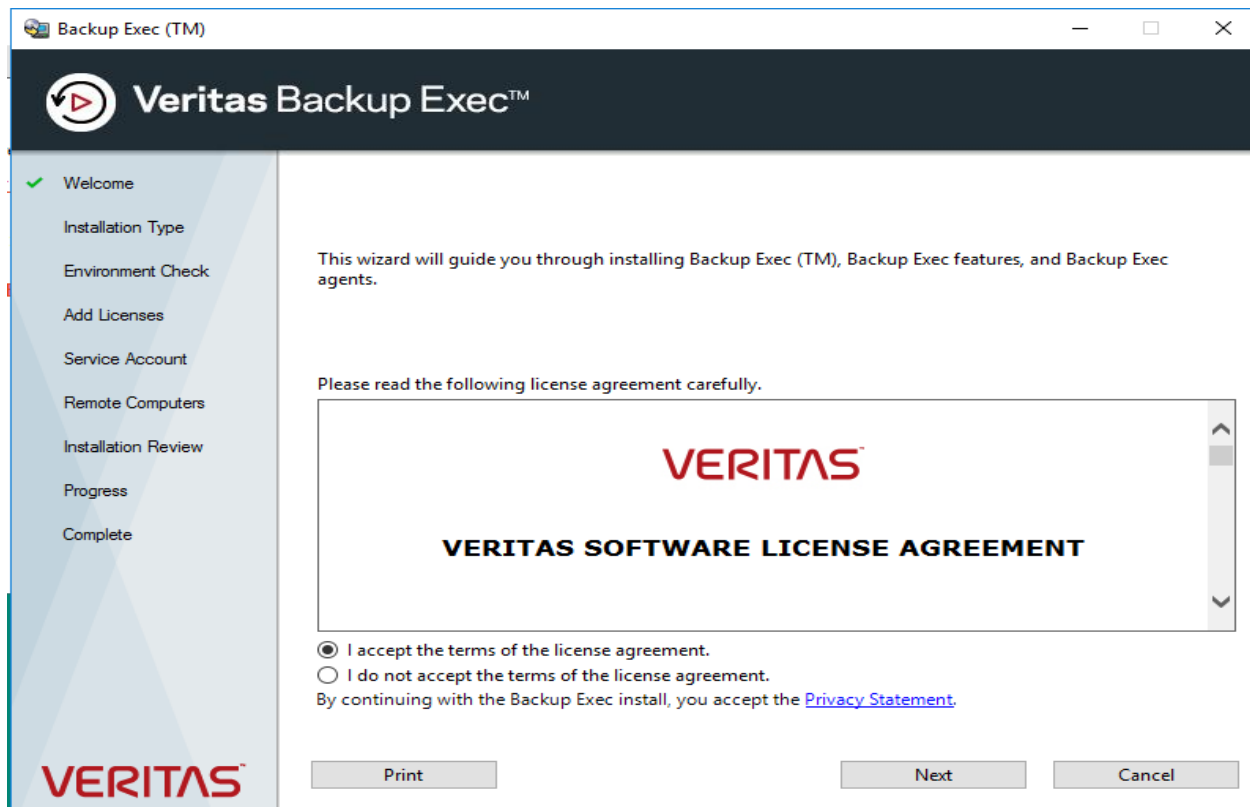
☐ **Remote Environment Check**
 Review the configuration of one or more remote computers.

Back **Next** **Cancel**



We get a warning for ADK. That is OK. We will install later.






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

Local Installation

☒ Install Backup Exec software and features


 Install a Backup Exec server and features on this computer.

☐ Install Remote Administration Console only

 Install the Backup Exec Administration Console on this computer as a Remote Administrator, which allows you to remotely administer servers from a Windows server or workstation.

Remote Installation

☐ Push install a Backup Exec server and features, or Agent for Windows to remote computers.



Back Next Cancel

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

VERITAS Backup Exec Environment Check 2.0 for DC1

Computer Environment Checks

Configuration

-  [Microsoft Windows Assessment and Deployment Kit Version](#)
-  [Operating System Version Check](#)
-  [System Drive Check](#)
-  [Cluster Configuration](#)
-  [Microsoft Internet Explorer Version](#)
-  [64-bit Operating System Test](#)
-  [Filter Manager Check](#)
-  [WMI Check](#)
-  [Windows Imaging Component check.](#)

Save results to:

C:\Users\ADMINI~1\AppData\Local\Temp\backup exec\43332.564743669

Change

Print Back Next Cancel

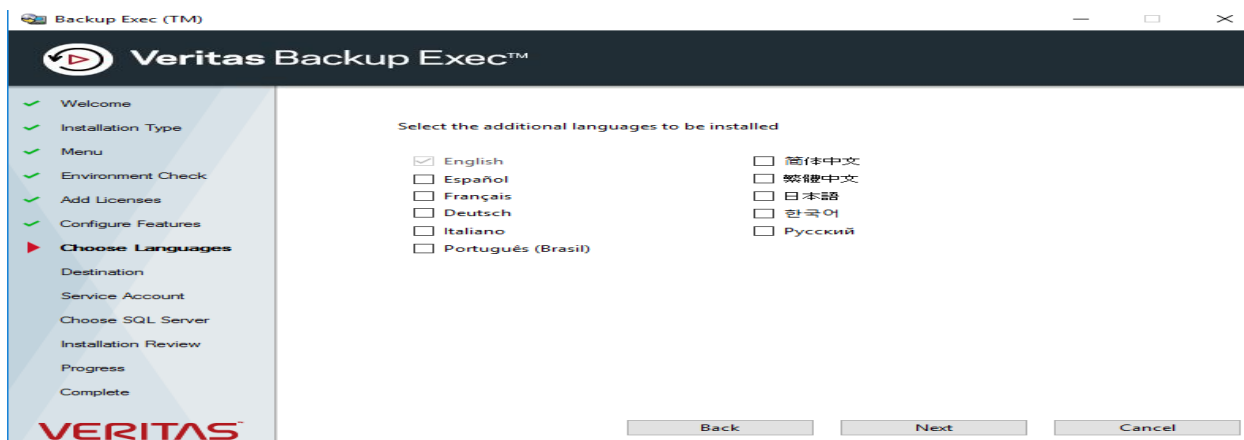
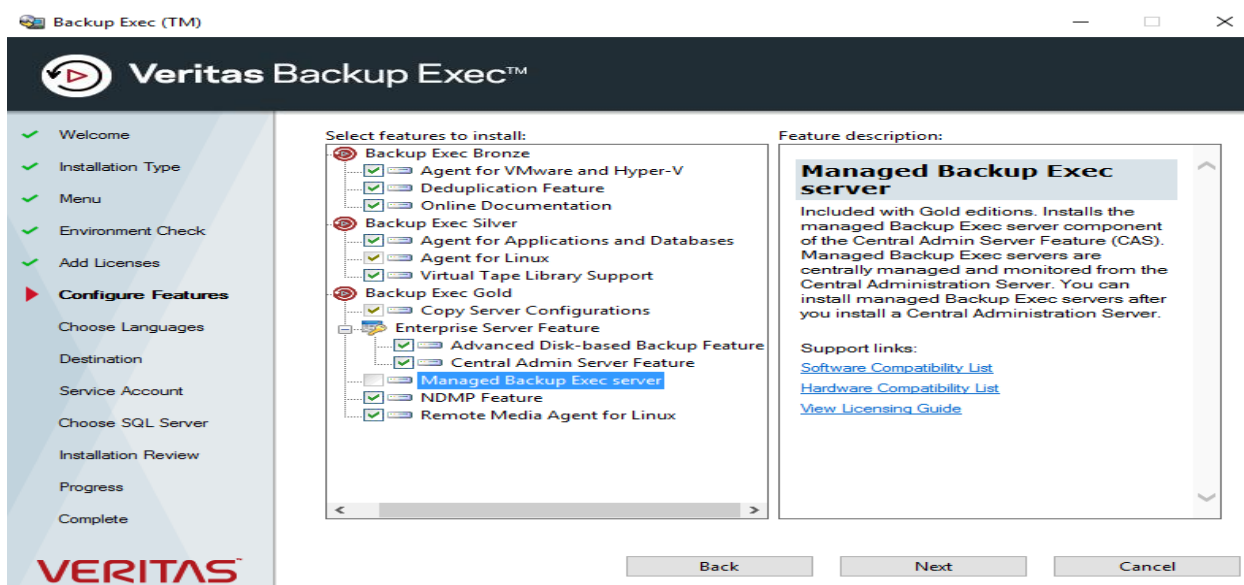
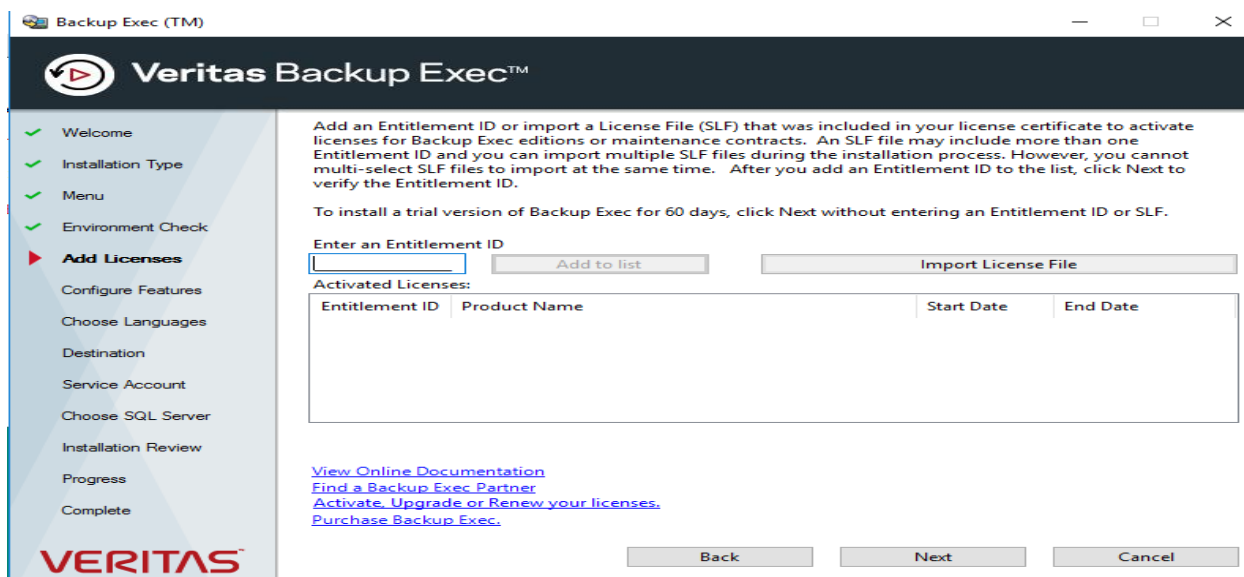
Microsoft Windows Assessment and Deployment Kit Version

[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

Local Drives: Update

Drive	Available	Required*	Status
C:\	377 GB	3,180 MB	Valid drive for the Backup Exec installation.
D:\	376 GB	0 MB	Valid drive for the Backup Exec installation.
F:\	3,742 GB	0 MB	Valid drive for the Backup Exec installation.
G:\	827 GB	0 MB	Valid drive for the Backup Exec installation.
H:\	1,234 GB	0 MB	Valid drive for the Backup Exec installation.
J:\	999 GB	0 MB	Valid drive for the Backup Exec installation.
K:\	999 GB	0 MB	Valid drive for the Backup Exec installation.
L:\	999 GB	0 MB	Valid drive for the Backup Exec installation.

* An additional 525 MB of disk space is required if a SQL Express instance is selected for install.

Use the default folder as the location where you want to install Backup Exec.
Click Change to browse to a different folder.


 C:\Program Files\Veritas\Backup Exec\ Change

Back Next Cancel

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:

Password:

Domain:

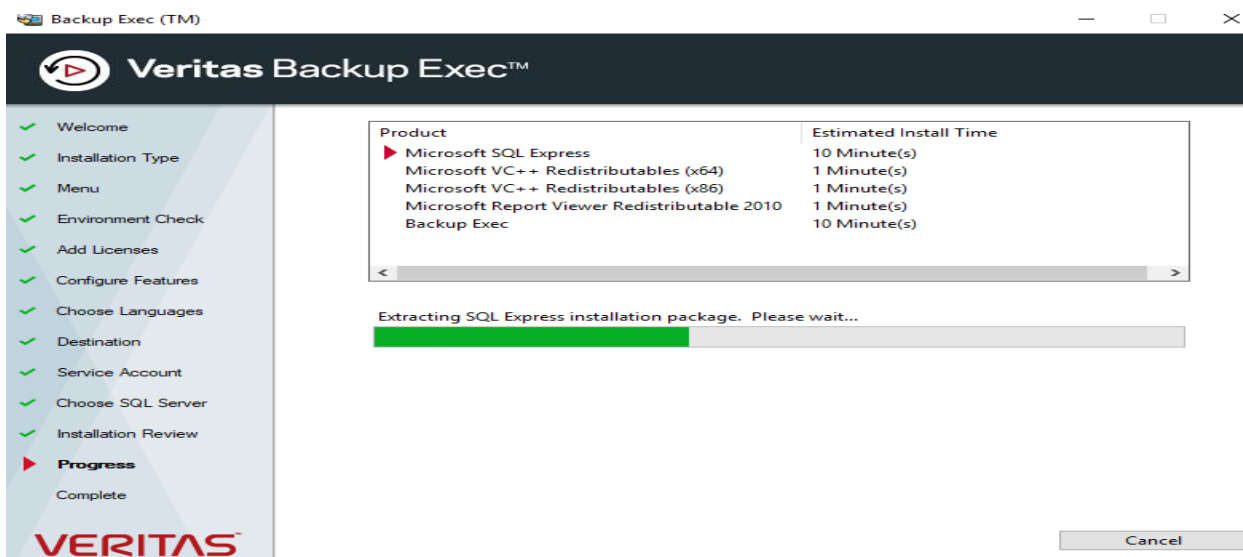
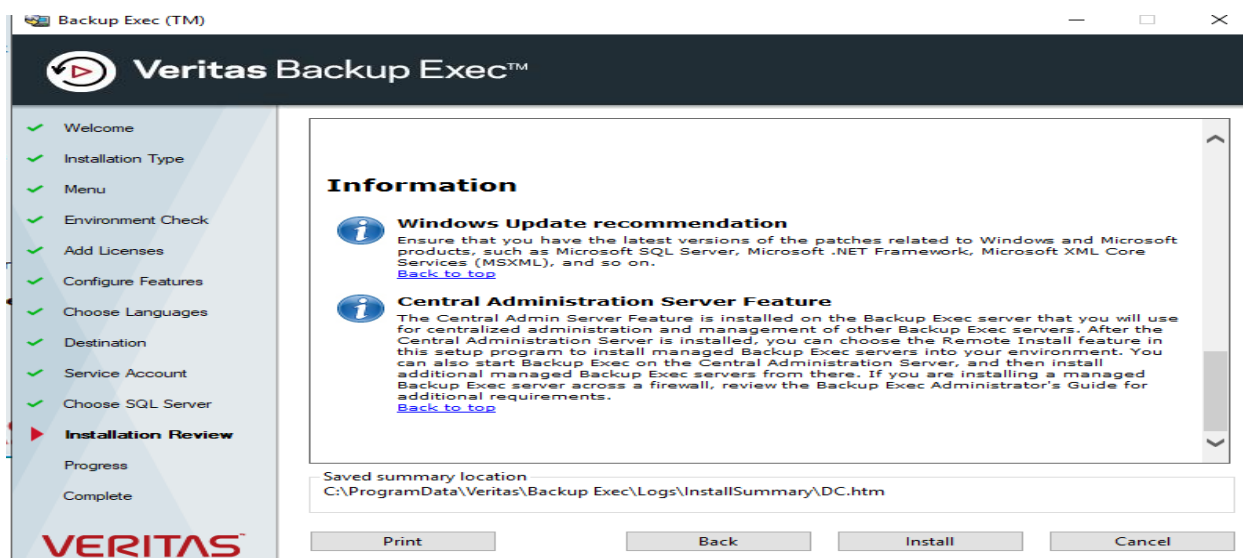
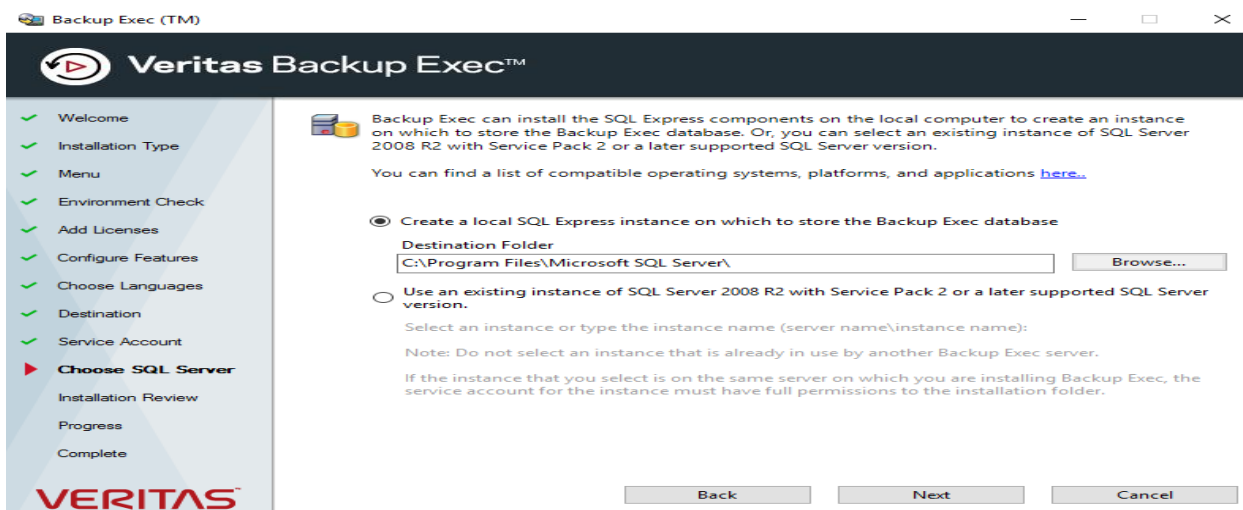
Back Next Cancel

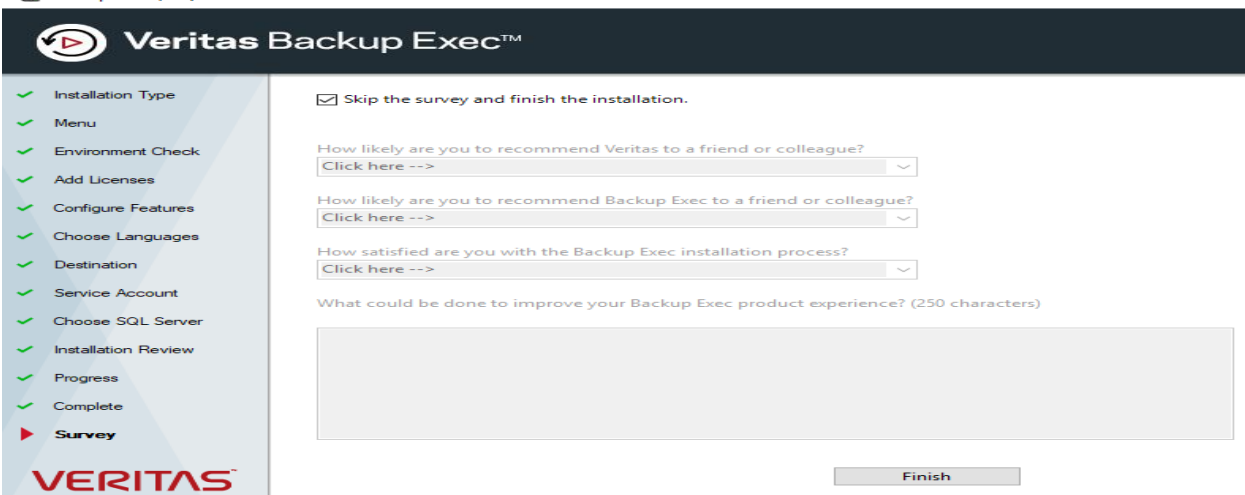
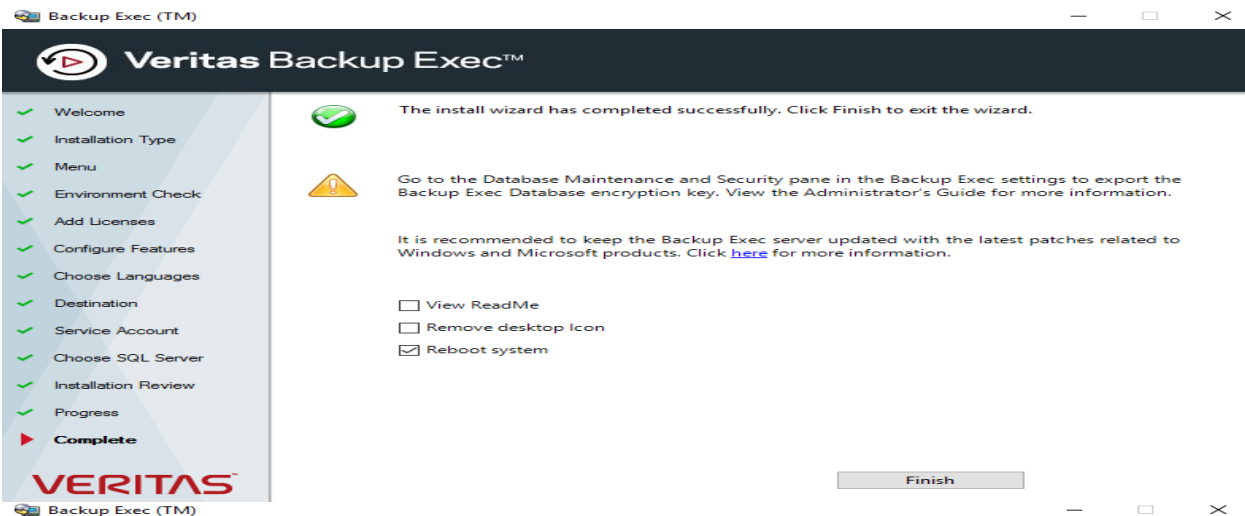
Backup Exec (TM)

 The account RAMLAN\administrator has been granted the following rights:

- Log on as a service
- Log on using the batch logon type

OK





Now open Veritas from desktop



Item	Description
GDPR Guard	Backup Exec users can now block access to certain backed up items for privacy and compliance requirements of an organization. With GDPR Guard, users can specify the list of blocked items that should no longer be viewed or restored using Backup Exec.
Support for Windows Server 2019	Backup Exec now supports backups and restores of Windows Server 2019. Backup Exec and Agent for Windows can be installed on Windows Server 2019. You can find a list of compatible operating systems, platforms, and applications in the Backup Exec Software Compatibility List (SCL).
Support for Microsoft Exchange Server 2019	Support for backups and restores of Exchange Server 2019 databases, and restore of individual items (GRT) with Exchange Server 2019 is available. You can find a list of compatible operating systems, platforms, and applications in the Backup Exec Software Compatibility List (SCL).
Retry backup for only failed resources	Backup Exec users can now retry a failed backup job for only those resources that failed during the last run.
Backup virtual machine disks selectively - VMware	You can now choose which virtual disks to include or exclude when backing up VMware virtual machines. This feature is only applicable for virtual machines hosted on VMware vSphere.

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

Close

This concludes the install process of Veritas Backup Exec v20.3

Thanks

Ram Lan
23rd Jan 2019

How to complete activation of Veritas Backup Exec v20.3

You stop all services manually from Services.msc or Open Veritas Backup Exec and do the following:

Service Name	Description	Status	Startup Type	Log On As
Backup Exec Agent Browser	Allows the Backup Exec job engine to communicate with the agent.	Running	Automatic	RAMLAN\Administrator
Backup Exec Deduplication Engine	Processes all data that goes through the deduplication engine.	Disabled	Disabled	Local System
Backup Exec Deduplication Manager	Manages the PureDisk Deduplication Engine.	Disabled	Disabled	Local System
Backup Exec Deduplication Multi-threaded Streaming Agent	Provides a multi-threaded streaming agent.	Disabled	Disabled	RAMLAN\Administrator
Backup Exec Device & Media Service	Provides several COM server interfaces for the device and media service.	Running	Automatic	RAMLAN\Administrator
Backup Exec Error Recording Service	Backup Exec Error Recording Service.	Running	Automatic	Local System
Backup Exec Job Engine	Receives job requests from the Backup Exec console.	Running	Automatic	RAMLAN\Administrator
Backup Exec Management Service	Acts as an interface between the Backup Exec console and the Backup Exec Agent.	Running	Automatic	RAMLAN\Administrator
Backup Exec PureDisk Filesystem Service	This component provides Backup Exec with access to the PureDisk Filesystem.	Running	Manual	Local System
Backup Exec Remote Agent for Windows	Provides Backup and Restore services for Windows.	Running	Automatic	Local System
Backup Exec Server	Implements job scheduling, security, and other services.	Running	Automatic	RAMLAN\Administrator

Veritas Backup Exec™ (Central Administration Server)

Home Backup and Restore Job Monitor Storage

Connect to Backup Exec server

Configuration and Settings

Installation and Licensing

Veritas Online

Technical Support

Help and Documentation

Lock Console

Close

Job Defaults

Backup Exec Settings

Logon Accounts

Alerts and Notifications

Backup Exec Services

Create Disaster Recovery Disk

Audit Log

Preferred Servers

Error-Handling Rules

Copy Settings to Other Servers

Cluster configuration wizard

Local server properties

Manage the Backup Exec services, or edit the Backup Exec service account credentials

Server name:

Add server

Remove server

Server Name	Status
DC	Services are running.

Server details

Service Name	Status	Account Name	Startup Mode
Backup Exec Remote Agent...	Running	LocalSystem	Automatic
Backup Exec Agent Browser	Running	RAMLAN...	Automatic
Backup Exec Device &...	Running	RAMLAN...	Automatic
Backup Exec Job Engine	Running	RAMLAN...	Automatic
Backup Exec Management...	Running	RAMLAN...	Automatic
Backup Exec Server	Running	RAMLAN...	Automatic
Backup Exec Error...	Running	LocalSystem	Automatic

Start all services

Stop all services

Restart all services

Edit credentials

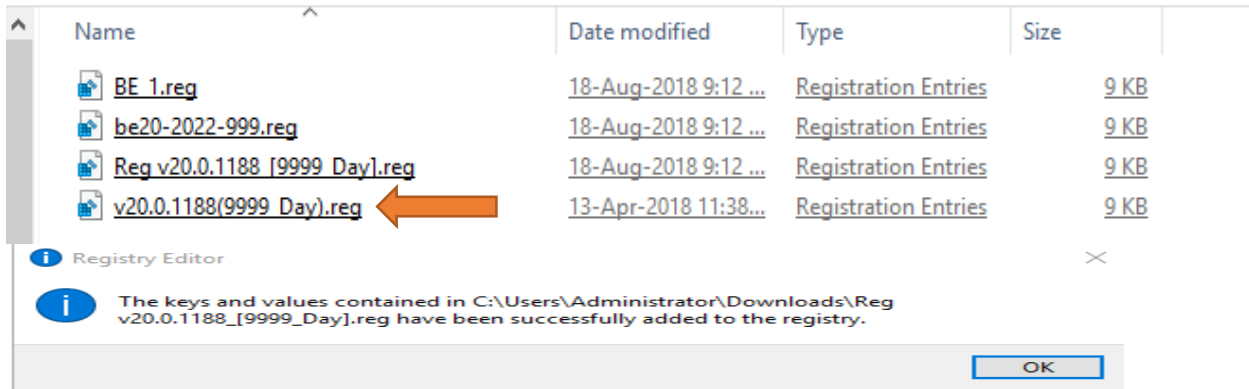
Connect

☐ Enable deduplication services to be started or stopped

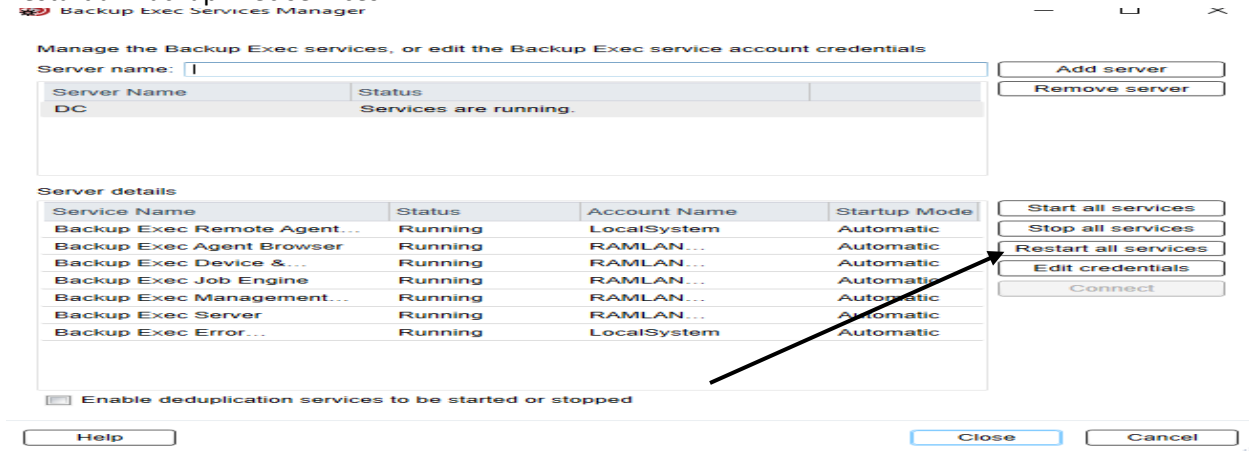
Help Close Cancel

After that run this registry.

DC1 > Downloads > Crack

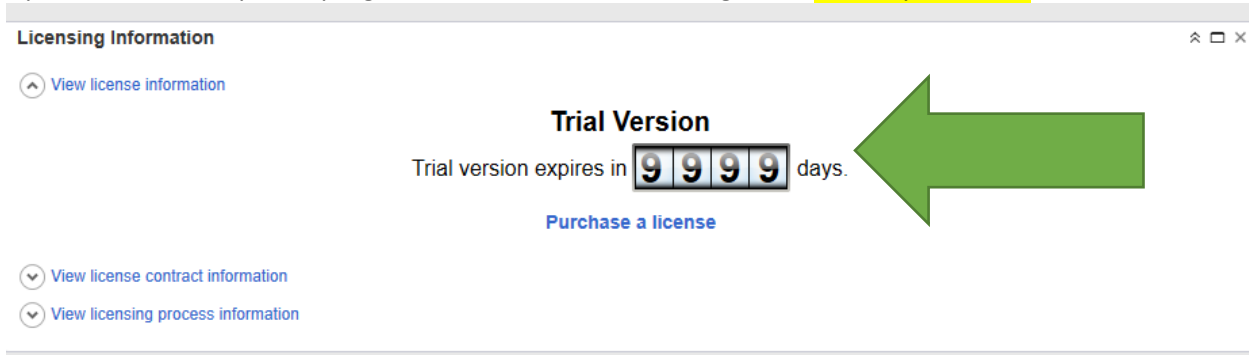


Restart all Backup Exec services



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

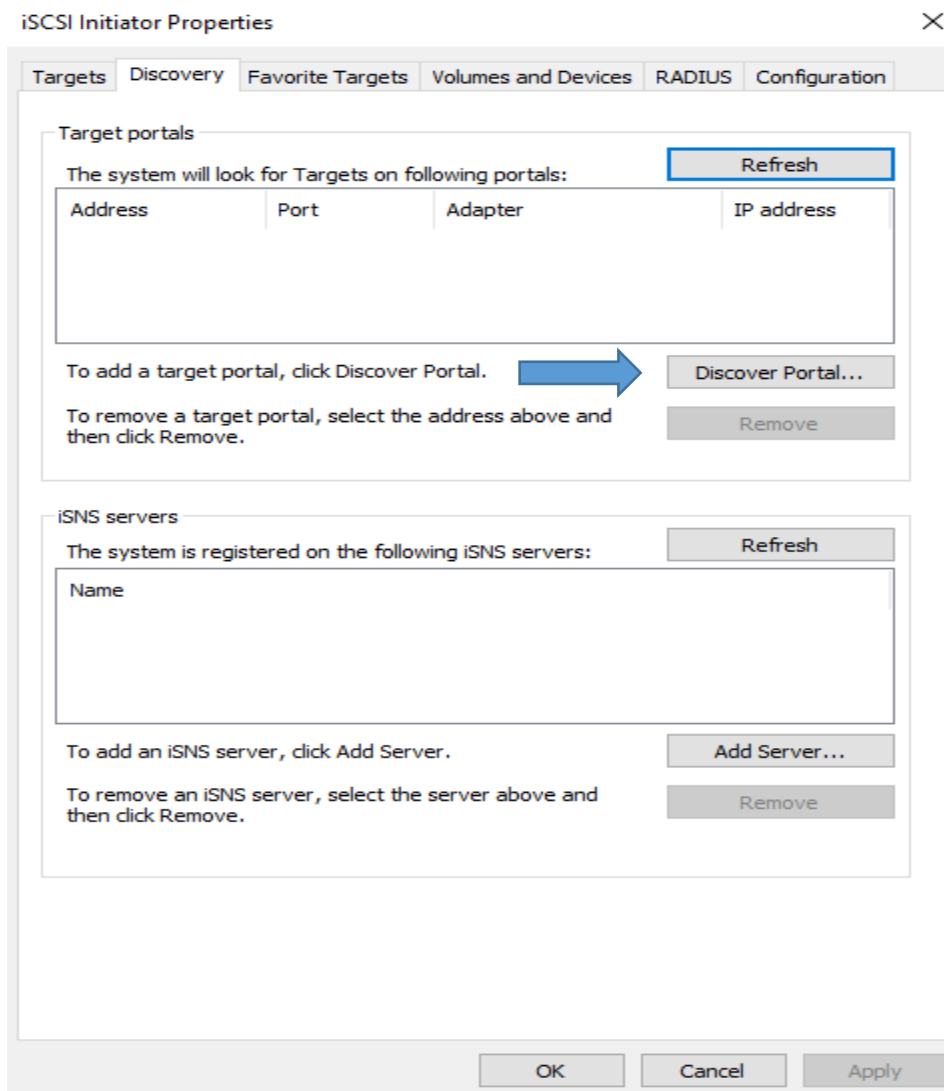
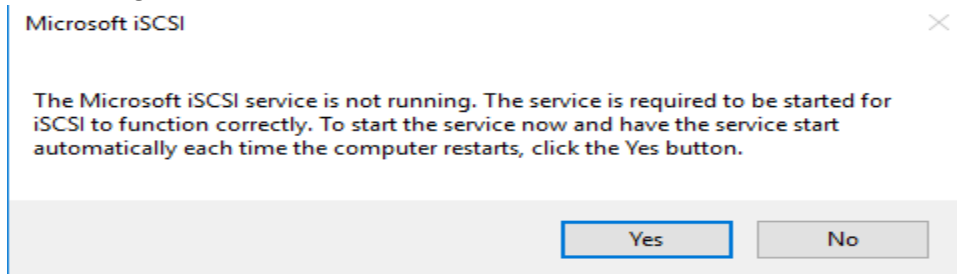
Open Veritas Backup Exec program – Scroll down to licensing info – It is fully activated



To backup Exchange mailbox using Veritas Backup Exec, I created a 1000GB iSCSI storage on EMC NAS.

Now, I will enable iSCSI initiator on DC 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

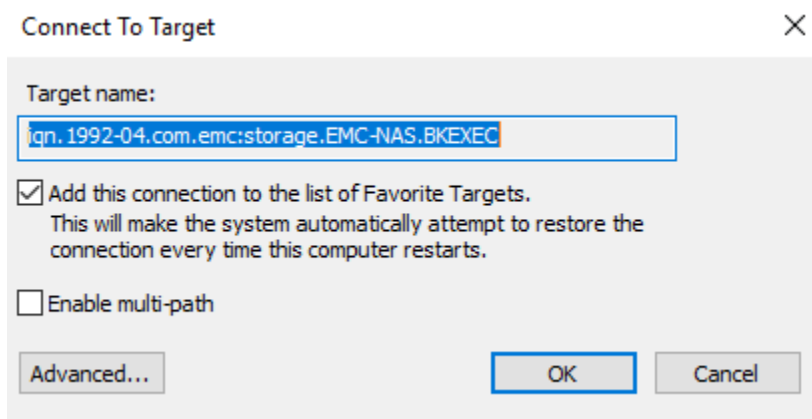
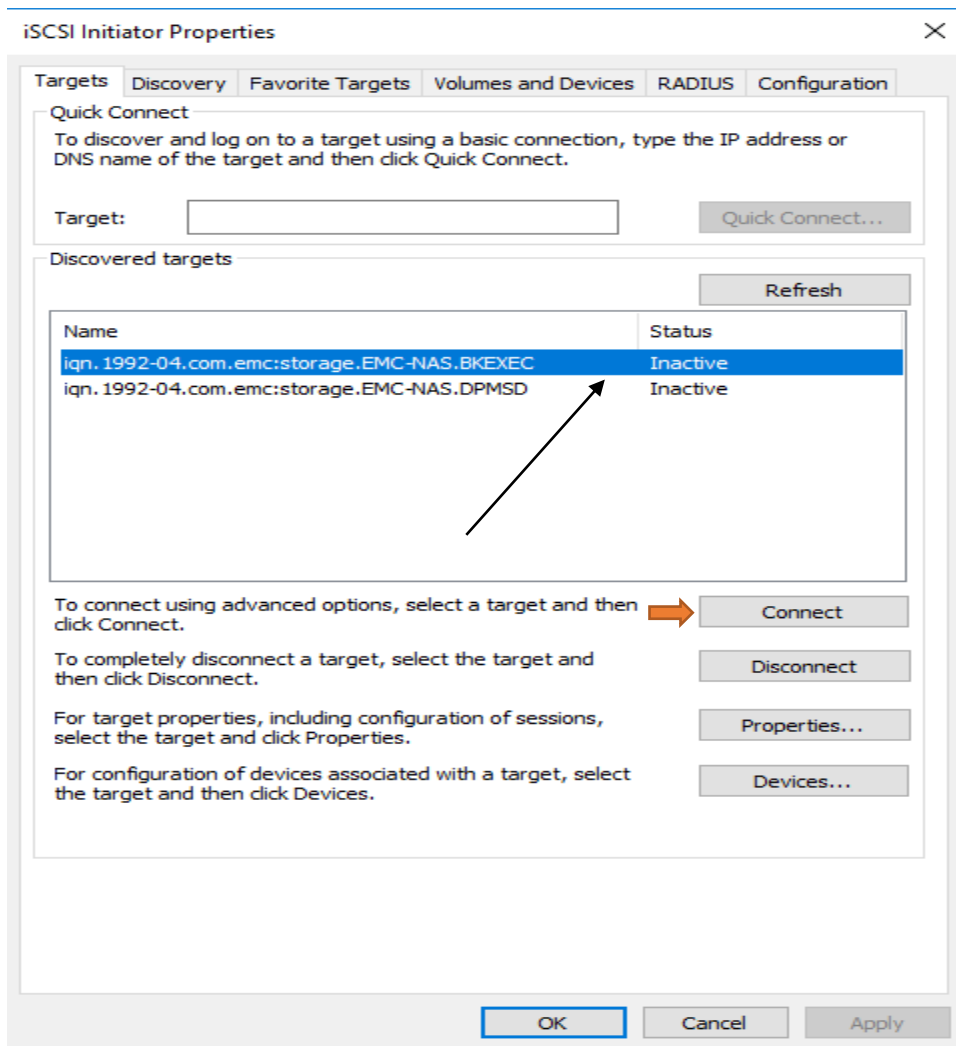
To add an iSNS server, click Add Server.

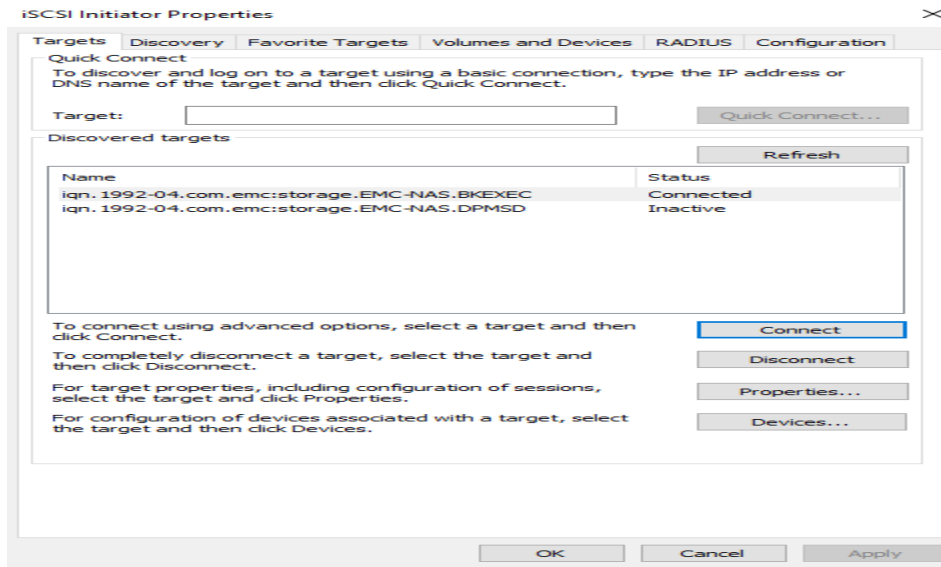
Add Server...

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

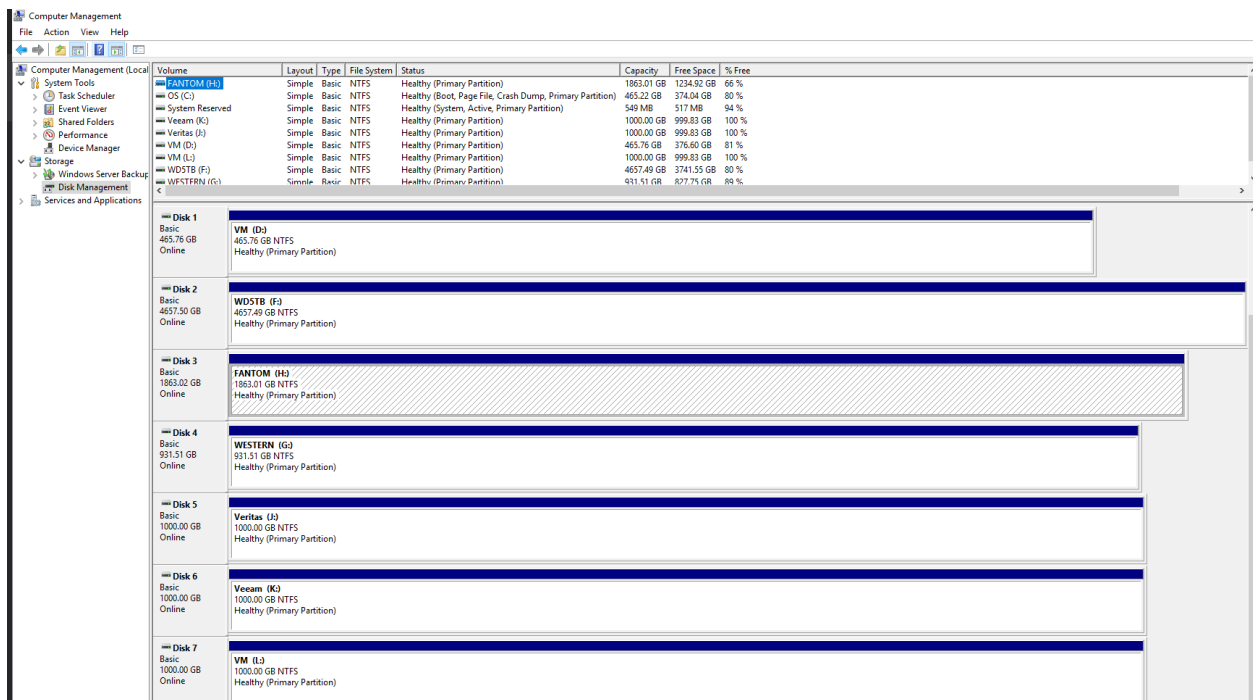
Remove

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
- ☒ 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 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

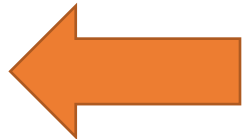
Virtual machine backup status not available

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?


 **DC**
Central Administration Server


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


Configure storage on DC


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](#)

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

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

Name: Disk storage 0001

Description:

< Back

Next >

Cancel

Where do you want to create the disk storage device?

☒ Local disk: J: (1,000 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

Configure storage on DC

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

Configure storage on DC

Storage configuration summary

Storage category		>>
Disk-based storage		
Storage type		>>
Disk storage		
Name and description for the disk storage device		>>
Name:	Disk storage 0001	
Description:	Veritas Storage for EX and CB	
Disk storage device location		>>
Path:	J:	
Concurrent Write Operations		>>
Concurrent operations:	2	

< Back Finish Cancel

Veritas Backup Exec™

To view more device properties that you can configure, double-click the device.

☐ Do not display this message again

OK

Veritas Backup Exec™

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 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 Reader

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

171 MB used of 1,000 GB

Total capacity: 1,000 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 Readiness

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 DC.RAMLAN.CA

Name	Logon Account	Credential Status	Date Last Attempted
DC.RAMLAN.CA	System Logon Account	Unknown, Test n	23-Jan-2019 7:32:24 AM
C:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
D:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
F:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
G:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
H:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
J:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
K:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
L:	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
Microsoft SQL Ser...	<use server's logon ac...	Test not applicat	23-Jan-2019 7:32:24 AM
System State	<use server's logon ac...	Unknown, Test n	23-Jan-2019 7:32:24 AM
Microsoft Hyper-V	<use parent source's I...	Test not applicat	23-Jan-2019 7:32:24 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 DC.RAMLAN.CA

Name	Logon Account	Credential Status	Date Last Attempted
DC.RAMLAN.CA	System Logon Account	Success	23-Jan-2019 4:58:50...
C:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
D:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
F:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
G:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
H:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
J:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
K:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
L:	<use server's logon ac...	Success	23-Jan-2019 4:58:50...
Microsoft SQL Ser...	<use server's logon ac...	Test not applicat	23-Jan-2019 4:58:50...
System State	<use server's logon ac...	Success	23-Jan-2019 4:58:54...
Microsoft Hyper-V	<use parent source's I...	Test not applicat	23-Jan-2019 4:58:54...

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

Preferences

Alerts

Backups

Job Status and Recovery

Job Logs

Catalog

Database Maintenance and Security

Reports

Logon Accounts

Discover Data to Back Up

Veritas Update

Network and Security

Simplified Disaster Recovery

Storage

Cloud Storage

Barcode Rules

Granular Recovery Technology

Virtual Machines

Oracle

DBA-initiated Job Settings

Veritas Information Map

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: \\lcb\sources\veritas

☒ 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

Export

Help

OK

Cancel

Export Database Encryption Key

 **Export Database Encryption Key**

Successfully exported Backup Exec Database encryption key 'ac7669b8.dek' to location '\\lcb\sources\veritas'.

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.

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.

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 Individual Recipient

Name:

Email alerts

☒ Send notifications by email

Recipient's email address:

☐ Send no more than emails within Minute(s)

Text Message alerts

☐ Send notifications by text message

Recipient's cell phone number:

Text message service provider address:

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

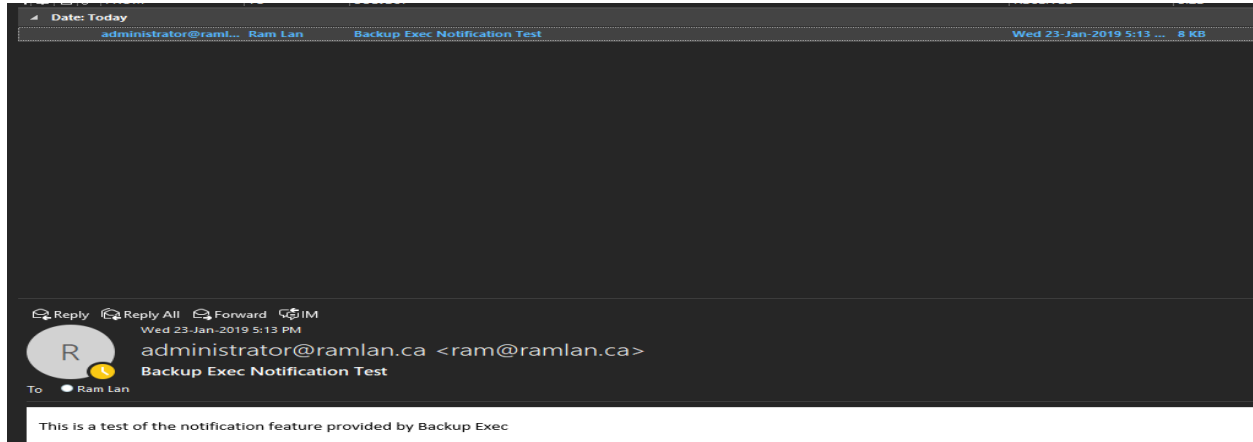
Manage Recipients

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.

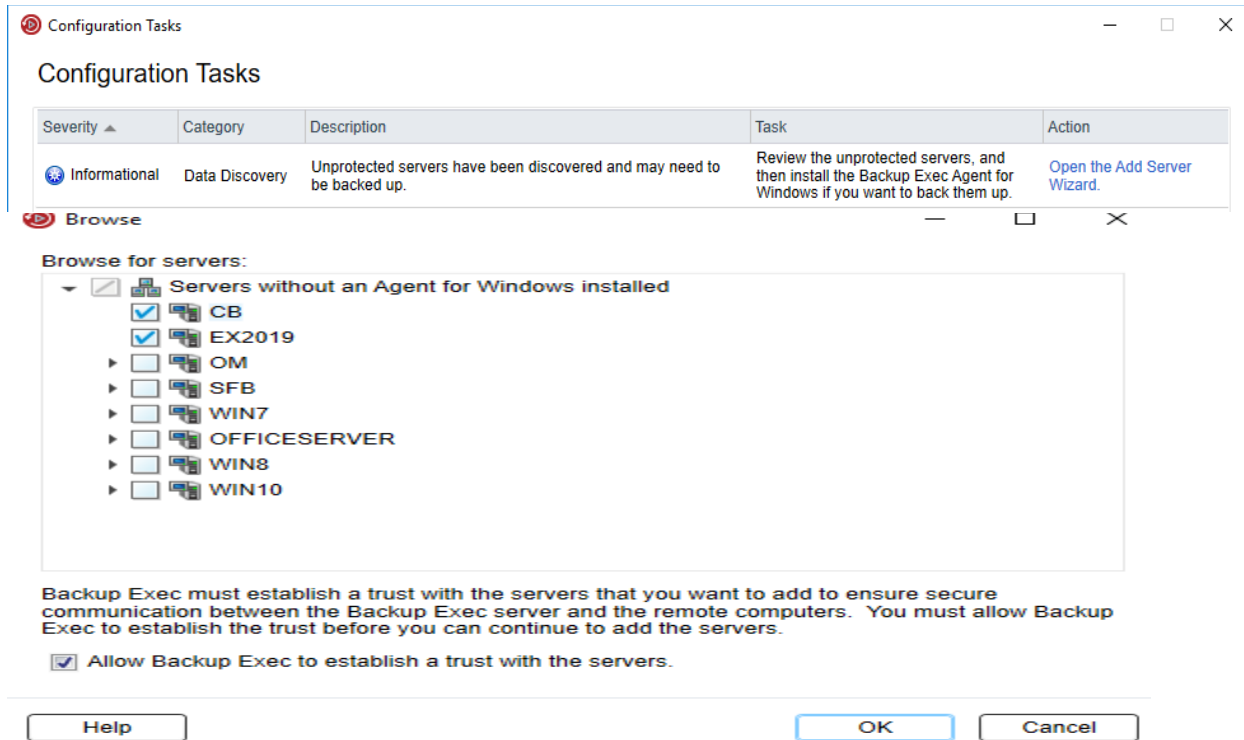
Name	Type
RamLan	Recipient

Add a recipient
Add a group
Edit
Delete

HelpOKCancel



Installing Backup Exec Agent: For this exercise, I am installing the agent on **EX2019 & CB** server only.



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	Logon Account
CB	System Logon Account
EX2019	System Logon Account

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

Add
Browse
Delete
Apply to All

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

Summary

Servers to add		
Server Name	Logon Account	
CB	System Logon Account	
EX2019	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	

Add a Server

< Back

Install

Cancel

Installing the Backup Exec Agent for Windows.

Server Name	Progress
CB	<div><div></div></div> Running
EX2019	<div><div></div></div> Running

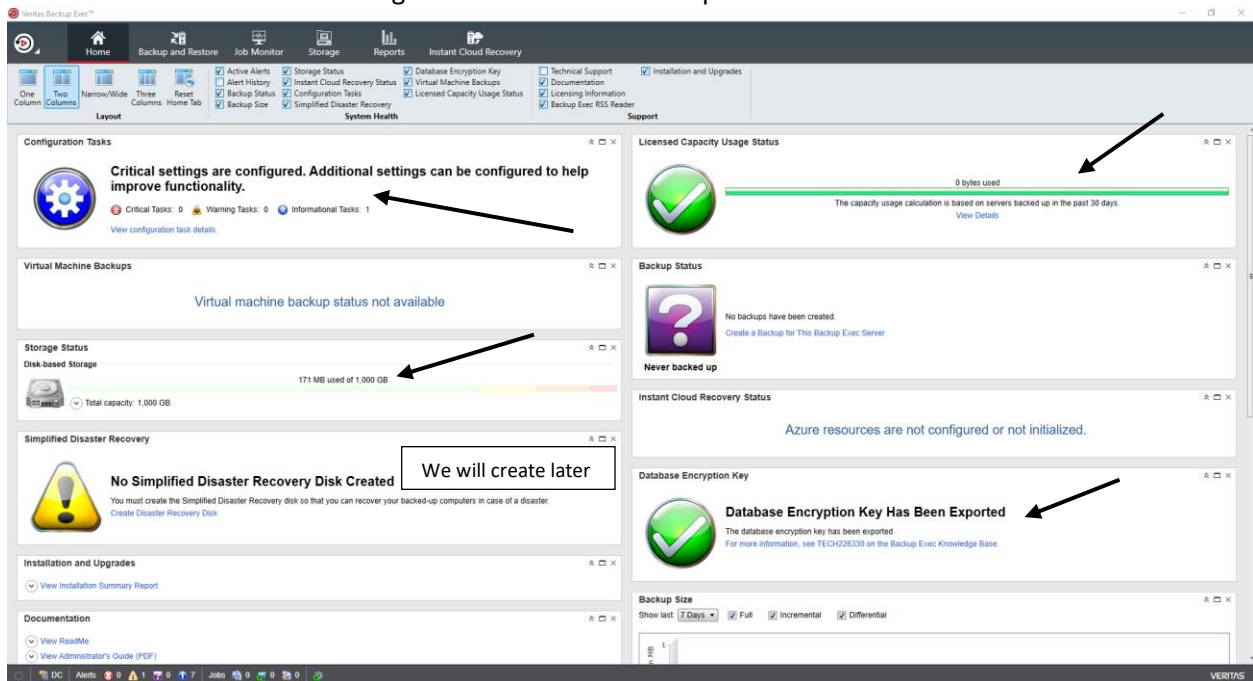
Add a Server

Installing the Backup Exec Agent for Windows.

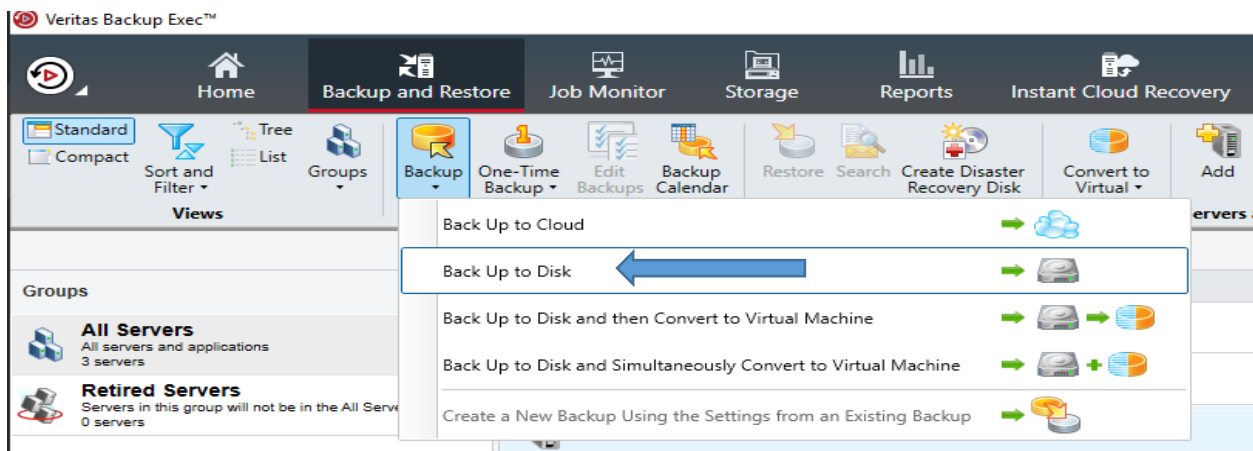
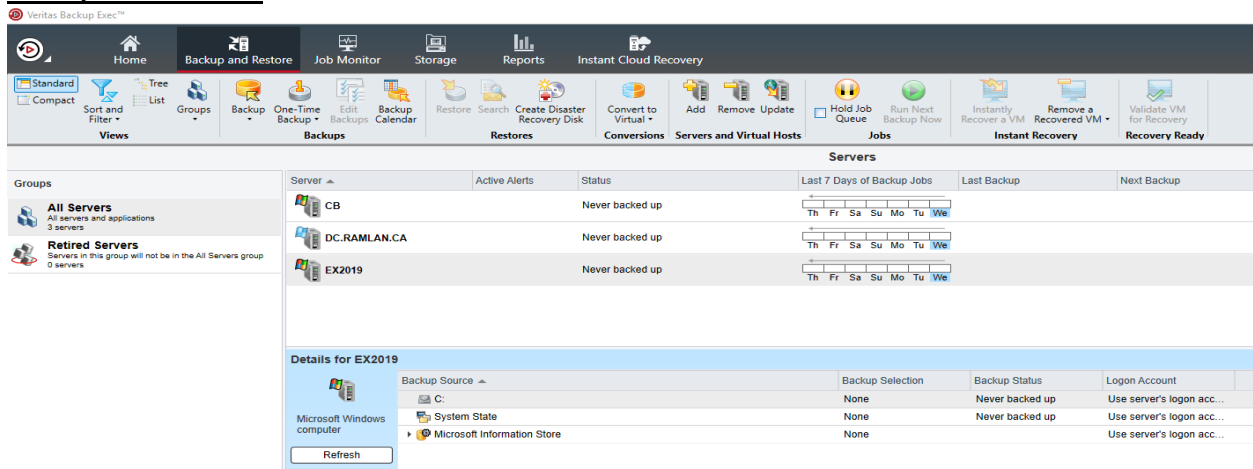
Server Name	Progress
CB	<div><div></div></div> Successful <div>Restart initiated</div>
EX2019	<div><div></div></div> Successful

Finish

We have done all the basic configuration for Veritas Backup. Here is the final screen shot.



Backup Job Creation:



Backup Definition Properties

Name: EX2019 Backup 00002

Description:

EX2019

Fully selected

- C:
- System State
- Microsoft Information Store

Test/Edit Credentials Edit

Backup

Full

Job name: EX2019 Backup 00002-Full

Schedule: Every 1 week on (Friday) at 11:00 PM

Storage: Any disk storage

Keep for: 2 Weeks

Incremental

Job name: EX2019 Backup 00002-Incremental

Schedule: At 11:00 PM, then every 1 day
This backup will not run until the first full backup is completed

Storage: Any disk storage

Keep for: 1 Week

Add Stage Edit

Help OK Cancel

Backup Selections

EX2019 Backup 00002

EX2019

+ -

EX2019

Browse Selection Details

Tag as business-critical Untag as business-critical

- internet explorer
- Microsoft
 - Exchange Server
 - V15
 - Bin
 - ClientAccess
 - Config
 - FIP-FS
 - FrontEnd
 - GroupMetrics
 - Logging
 - Mailbox
 - address
 - Mailbox Database 0310944151
 - Public
 - RemoteScripts
 - Scripts
 - Setup
 - TransportRoles
 - Working

- Microsoft Office

Name

- C:
- Microsoft Information Store
- System State

Help OK Cancel

Backup Definition Properties

Name: EX2019 Backup 00002

Description:

EX2019

Fully selected

- System State
- Microsoft Information Store

Partially selected

- C:

Test/Edit Credentials Edit

Backup

Full

Job name: EX2019 Backup 00002-Full

Schedule: Every 1 week on (Friday) at 11:00 PM

Storage: Disk storage 0001

Keep for: 1 Week

Incremental

Job name: EX2019 Backup 00002-Incremental

Schedule: At 1:00 PM, then every 1 day
This backup will not run until the first full backup is completed

Storage: Disk storage 0001

Keep for: 2 Days

Add Stage Edit

Help OK Cancel

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Add a Backup Job

Backup Exec uses the default backup job settings to create new backup jobs. You can change the settings as needed.

Job template name: Full

Type a name that describes this job template. The name is used to create the default job name.

Job name: EX2019 Backup 00002-Full

Schedule: ☒ Recurrence: Every 1 week on (Friday) at 11:00 PM

☐ Run now with no recurring schedule

☐ Create without a schedule

☐ Submit job on hold

Job template name: Incremental

Type a name that describes this job template. The name is used to create the default job name.

Job name: EX2019 Backup 00002-Incremental

Schedule: ☒ Recurrence: At 1:00 PM, then every 1 day

☐ Create without a schedule

☐ Submit job on hold

When two backup jobs in the same backup definition are scheduled to run at the same time, the job that is scheduled to run the least frequently runs instead of the more frequently scheduled job.

Help

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Options for all backup jobs in this backup definition:

Priority: Highest

Full

Storage: Disk storage 0001 (1,000 GB free)

Keep for: 1 Week

Compression: None

Encryption type: None

Incremental

Storage: Disk storage 0001 (1,000 GB free)

Keep for: 2 Days

Compression: None

Encryption type: None

Help

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Network options

Network interface: Use any available network interface

Protocol: Use any available protocol

☐ Allow use of any available network interface, subnet, or protocol for Backup Exec agents not bound to the above network interface, subnet, or protocol

Interface Details

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Full

Select each recipient to notify when the job completes.

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

☐ Include the job log in email notifications

Manage recipients

Properties

Incremental

Select each recipient to notify when the job completes.

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

☒ Include the job log in email notifications

Manage recipients

Properties

Help

OK

Cancel

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Full

Verify the data:

☒ At the end of the job

☐ After job finishes, as a separate job

☐ As a separate scheduled job

☐ Do not verify data for this job

Incremental

Verify the data:

☒ At the end of the job

☐ After job finishes, as a separate job

☐ As a separate scheduled job

☐ Do not verify data for this job

Help

OK

Cancel

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Advanced Open File options

Snapshot

☒ Use snapshot technology

☒ The snapshot settings apply to all backup selections, including file system and application selections.

Snapshot provider: Automatic - Allow VSS to select the snapshot provider

☒ Process logical volumes for backup one at a time

☐ Enable checkpoint restart

Help

OK

Cancel

Backup Options

Schedule

Storage

Network

Notification

Test Run

Verify

Instant GRT

Advanced Open File

Advanced Disk-based Backup

Pre/Post Commands

Files and Folders

Microsoft Exchange

Exclusions

Files and folders options

Backup method for files: By modified time

☒ Enable single instance backup for NTFS volumes

☐ Back up files and directories by following junction points and mount points

☐ Back up files and directories by following symbolic links

☐ Back up data in Remote Storage

Non-snapshot backups

Back up open files

☐ Never

☐ If closed within 30 seconds

☒ With a lock

☐ Without a lock

Full

Backup method: Full - Back up files

☐ Delete selected files and folders after successful backup

☐ Preserve tree on back up and delete

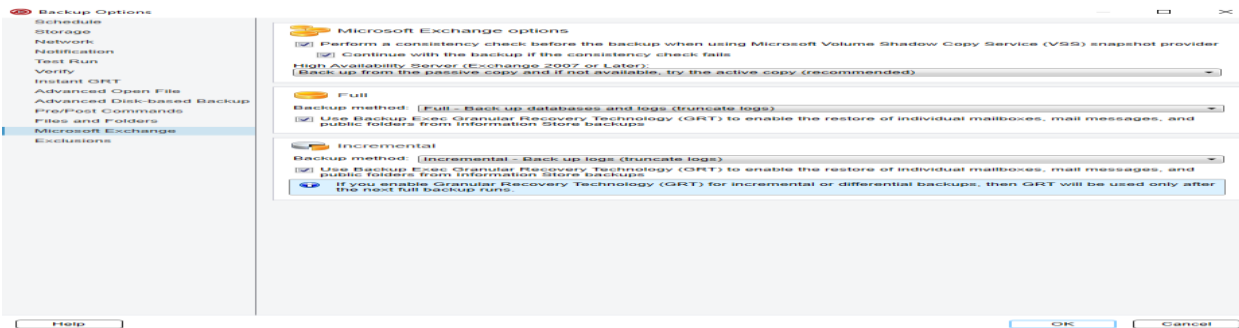
Incremental

Backup method: Incremental - Back up changed files since the last full or incremental

Help

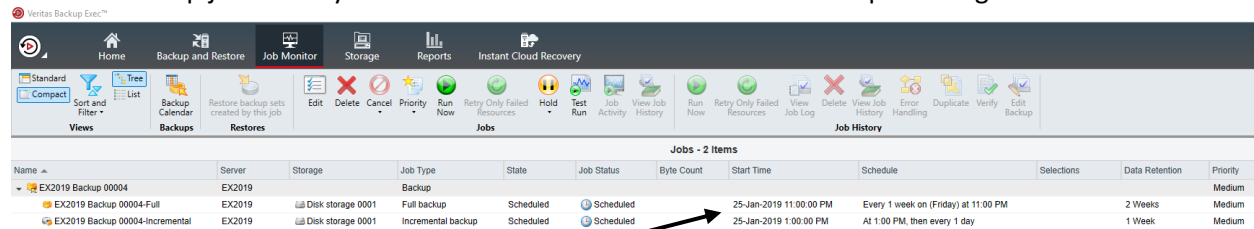
OK

Cancel



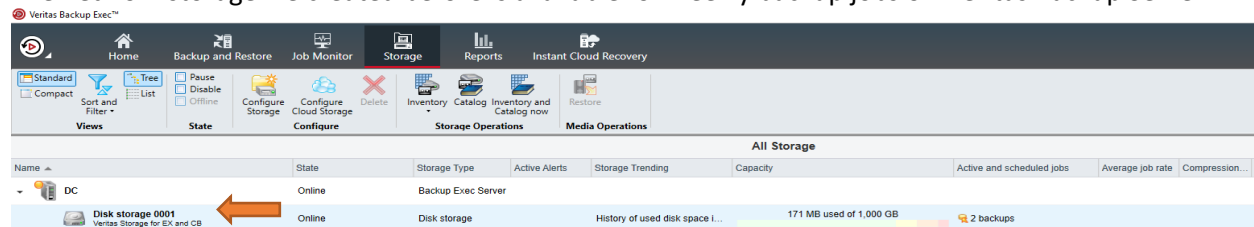
Job Monitor Status:

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



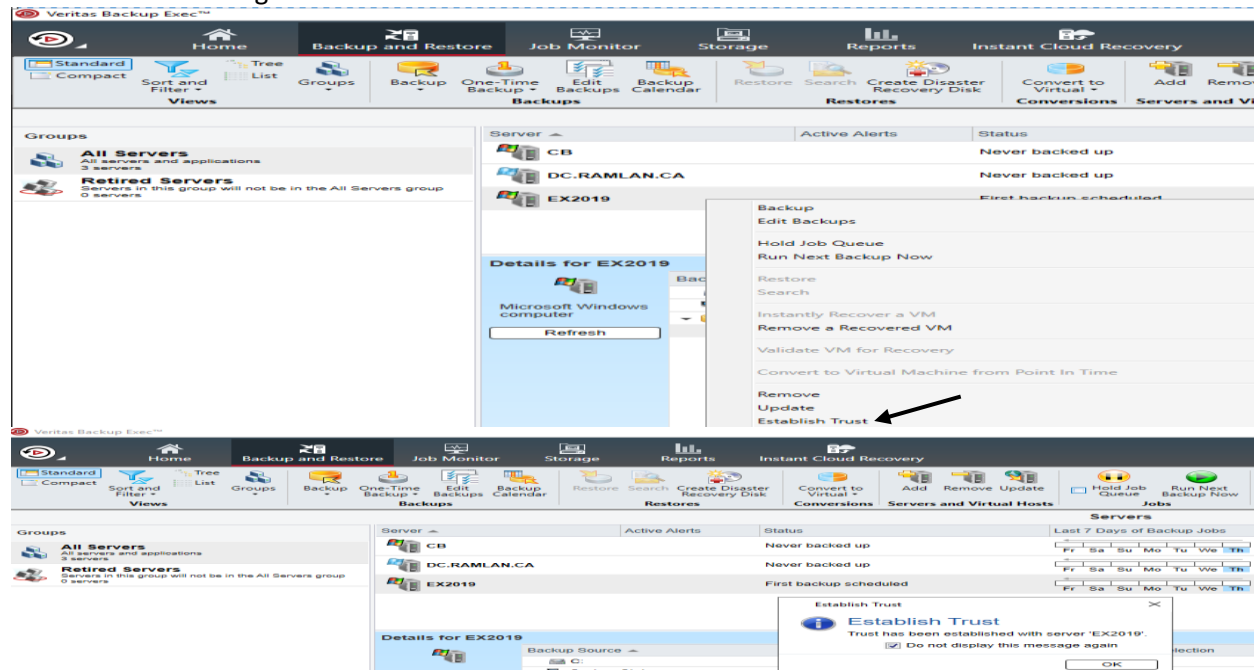
Storage Status:

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



Establish Trust:

Select the server – right click and select Establish Trust



Restore Files or Folders: From Previous Exercise – For Information only here

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

- All Servers
All servers and appli...
14 servers
- Physical
These are Physical...
4 servers

Server	Active Alerts	Status
DC1.RAMLAN.CA	Job Cancellation	Backed up
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 fails

Cancel 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

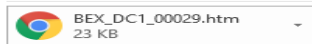


Mon 20-Aug-2018 3:41 PM

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: From Previous Exercise – For Information only here

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

Create Simplified Disaster Recovery Disk Wizard

Microsoft Assessment and Deployment Kit update is required

The Microsoft Assessment and Deployment Kit(ADK) must be updated.



i

To create a new Simplified Disaster Recovery Disk image (.iso), the Microsoft Windows Assessment and Deployment Kit (ADK10) must be installed on your computer. Click Next to launch the ADK installation program from the Microsoft web site. Approximately 3 GB of data will be downloaded from this site.

The ADK installation options are preselected for you. It is recommended that you do not change these options. The Create Simplified Disaster Recovery Disk wizard is hidden until the ADK installation completes.

While installing ADK, the system configuration may change and a restart may be required. Please save any data and close open applications before you continue with the ADK installation. After the restart, launch the Create Simplified Disaster Recovery Disk Wizard again to continue creating the recovery disk.

[Why ADK? Click here for more information...](#)

☒ I understand the ADK installation requirement

< Back

Next >

Cancel

Windows Assessment and Deployment Kit - Windows 10

Specify Location

☒ Install the Windows Assessment and Deployment Kit - Windows 10 to this computer

Install Path:

C:\Program Files (x86)\Windows Kits\10\

Browse...

☐ Download the Windows Assessment and Deployment Kit - Windows 10 for installation on a separate computer

Download Path:

C:\Users\Administrator\Downloads\Windows Kits\10\ADK

Browse...

Estimated disk space required:3.4 GB

Disk space available:185.6 GB

Next

Cancel

Windows Assessment and Deployment Kit - Windows 10

Windows Kits Privacy

Windows 10 Kits collect and send anonymous usage data to Microsoft about how our customers use Microsoft programs and about some of the problems they encounter. Microsoft uses this information to improve the products and features. Participation in the program is voluntary, and the end results are software improvements to better meet the needs of our customers. No code or software produced by you will be collected.

[Tell me more about the Windows 10 program.](#)

[Tell me more about the Customer Experience Improvement Program \(CEIP\).](#)

* Participation applies to all Windows kits installed on this computer.

☒ Yes

☐ No

[Privacy Statement](#)

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

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft

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- supplements,
- Internet-based services, and
- support services,

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If you comply with these license terms, you have the perpetual rights below.

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

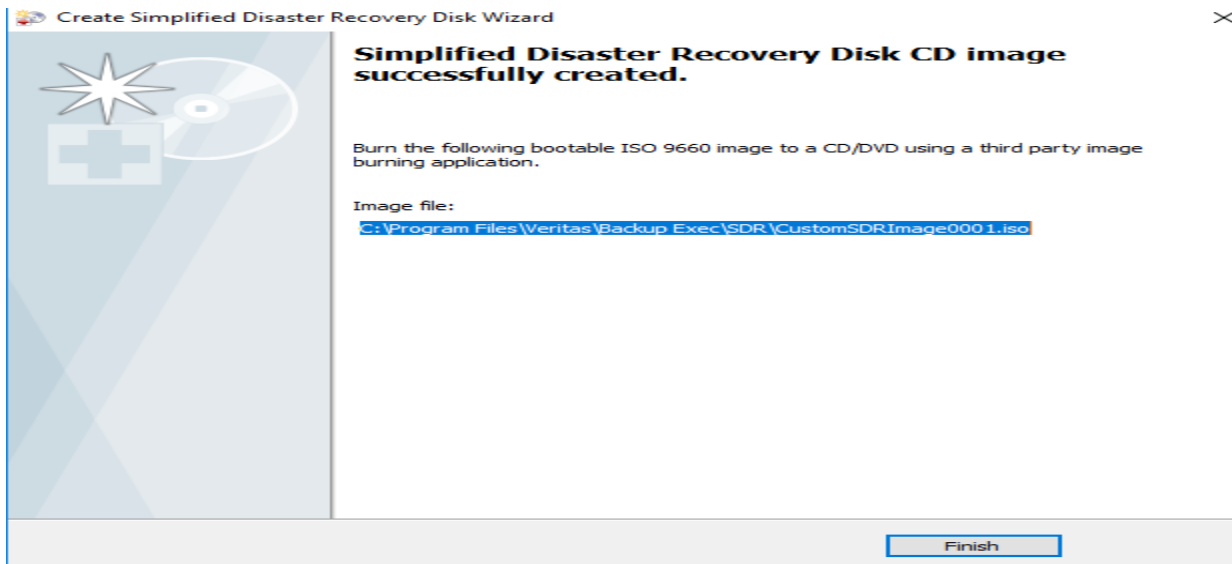
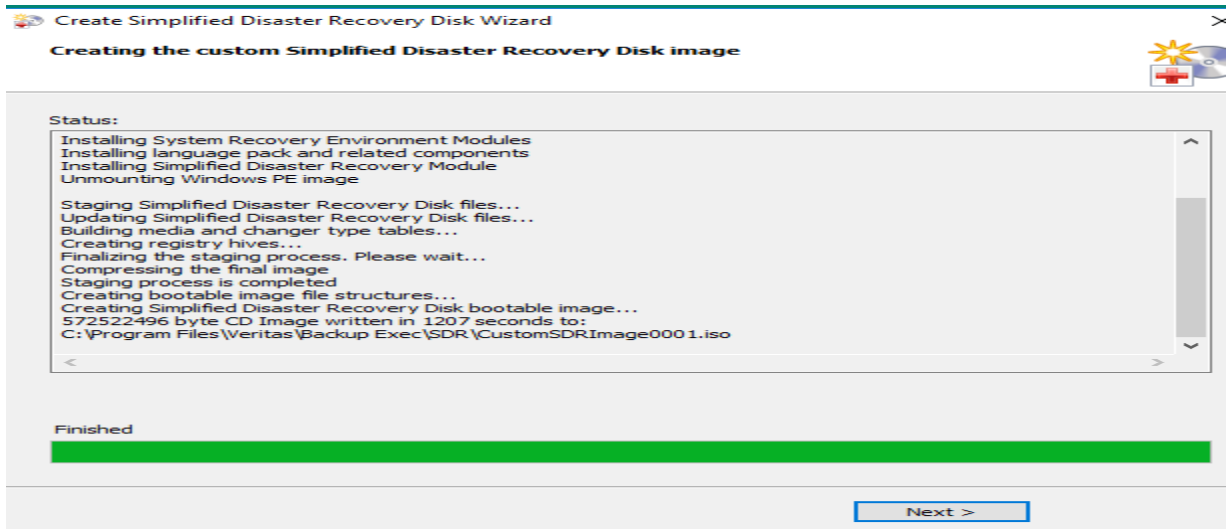
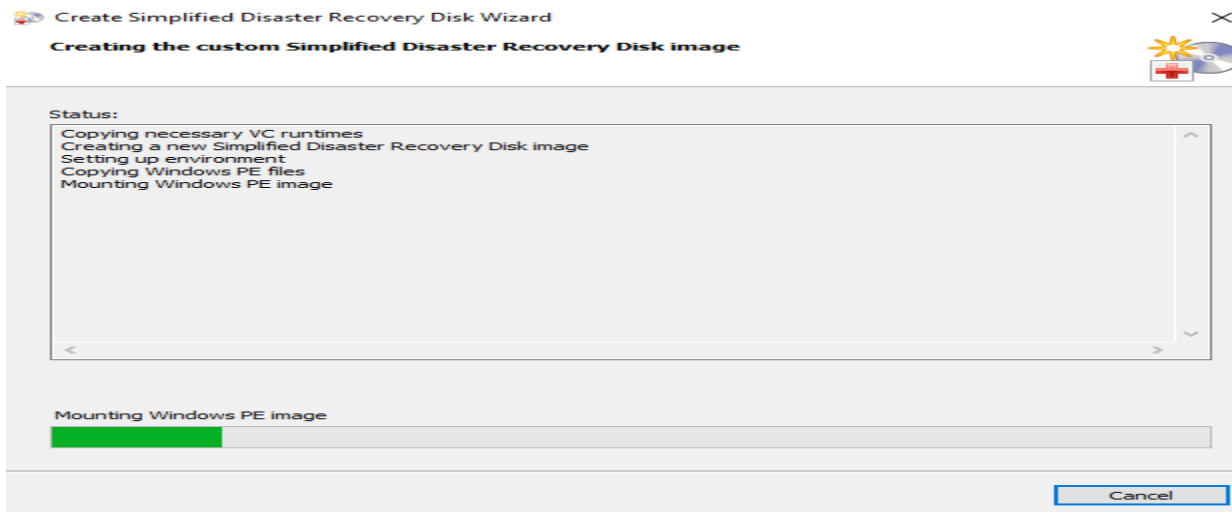
Startup options

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



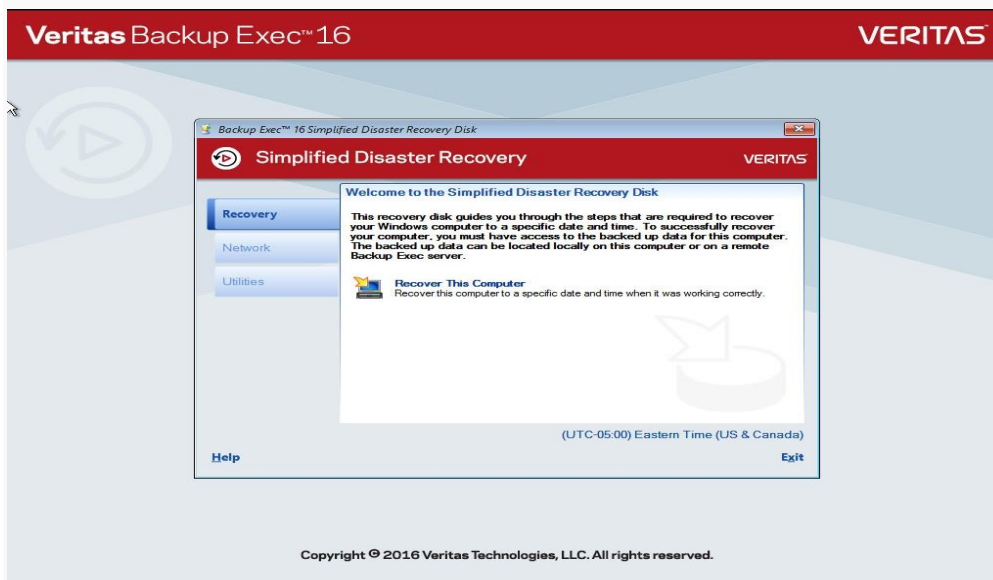
Recovering a Computer: From Veritas Site – For Information Only here

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.



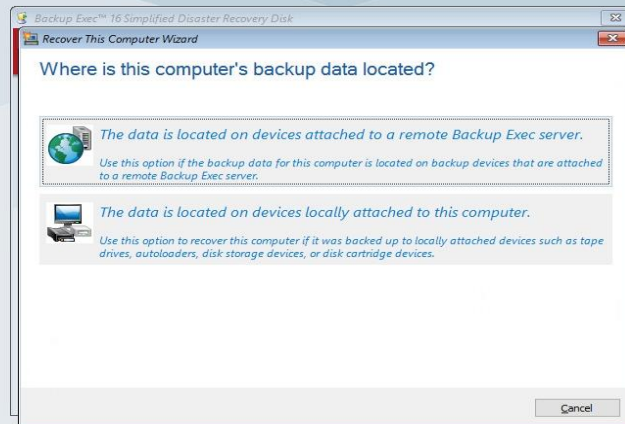
In the Recovery tab choose "Recover This Computer".



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.

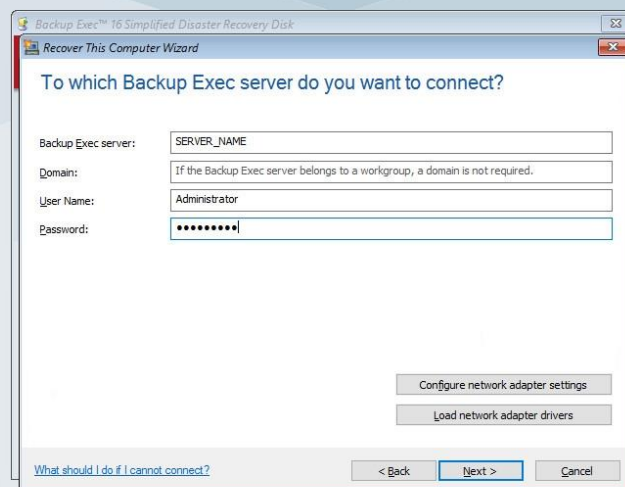


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Enter the Backup Exec server where the files are backed up to.

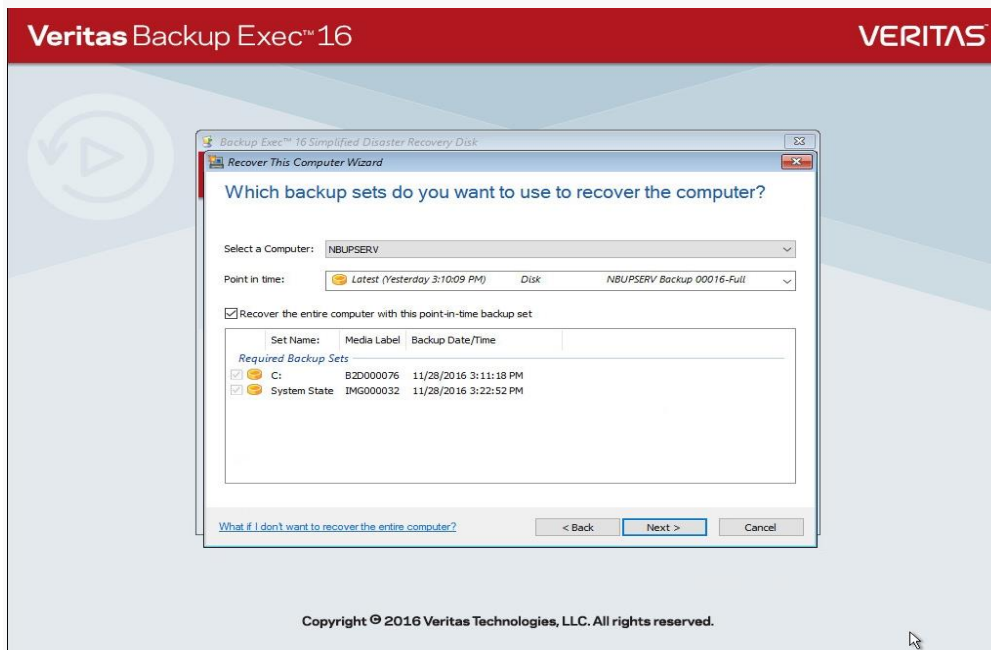
Enter the server name, domain, User name and Password.

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



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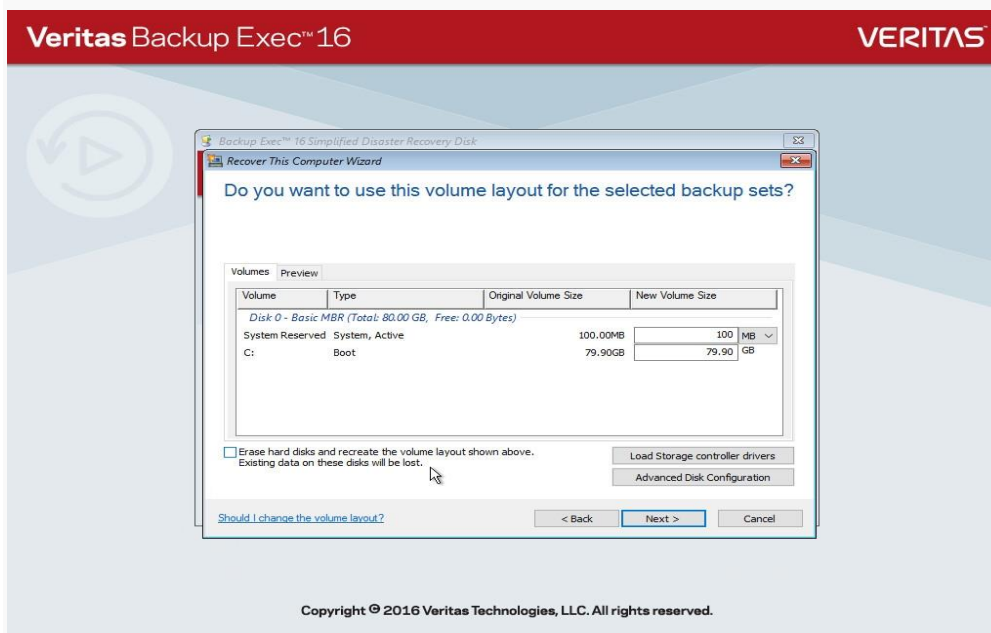
Select the server and the point-in-time to be recovered and click Next.



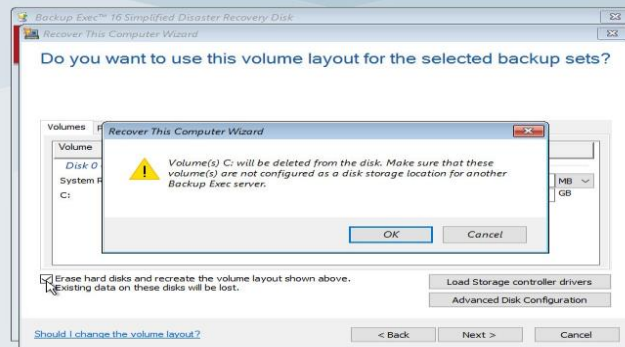
The next screen displays the original volume layout of the server that was backed up. Clicking the Preview button will show a different view.

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.

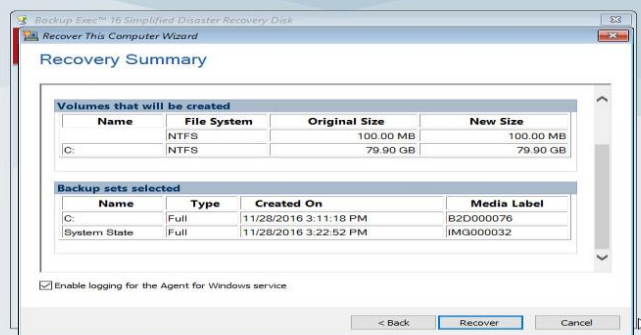


In some instances the option to "Erase hard disks..." should be chosen.

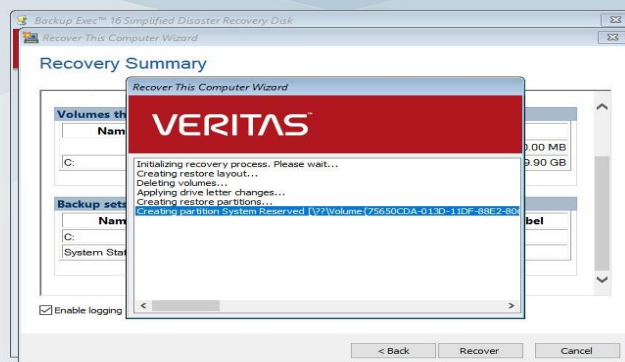


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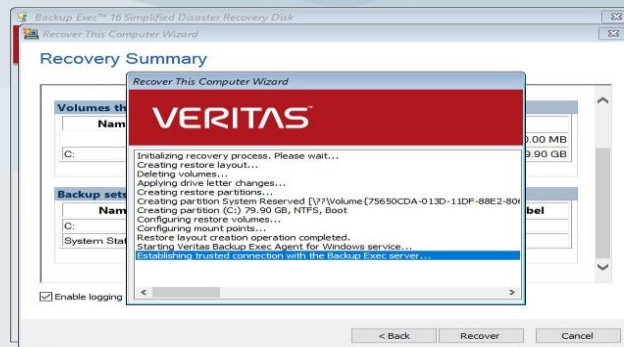
The Recovery Summary is displayed, click Recovery to start the recovery.



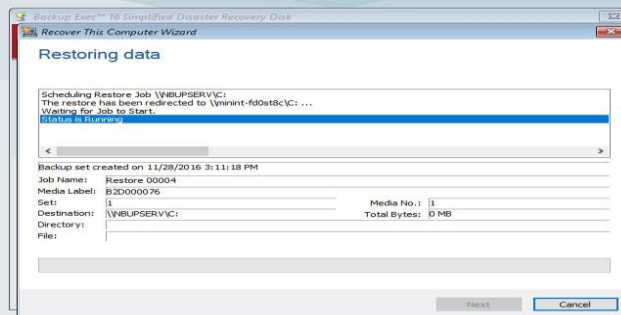
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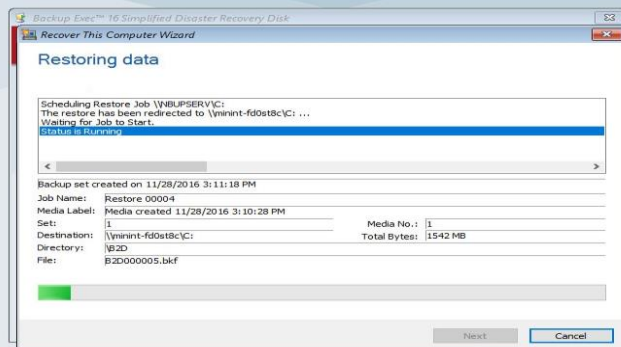
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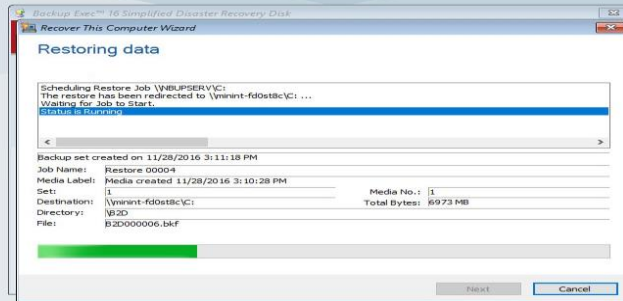
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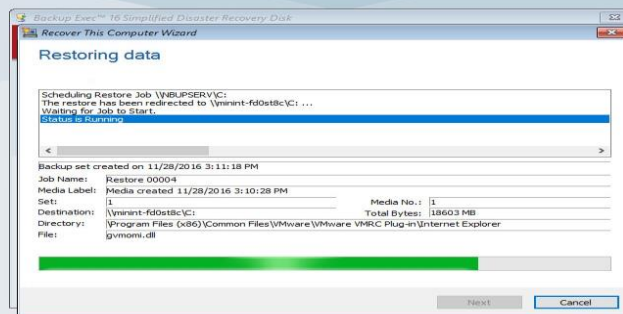
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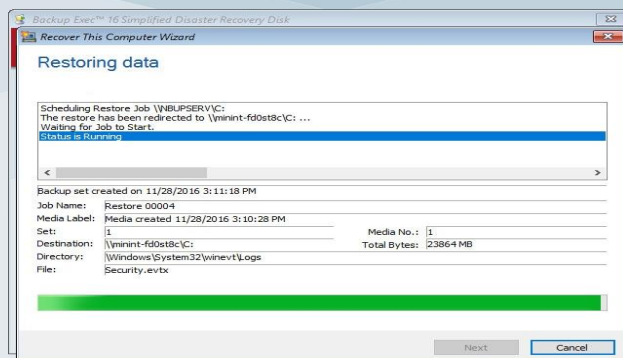
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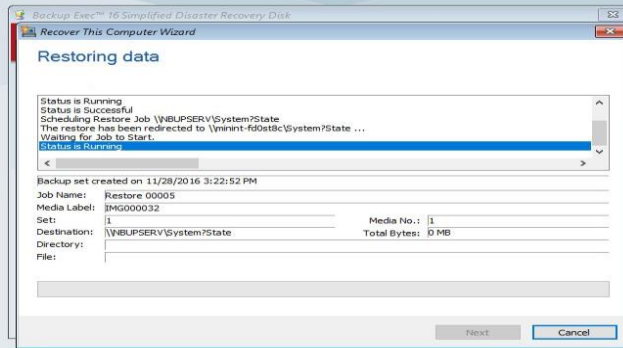
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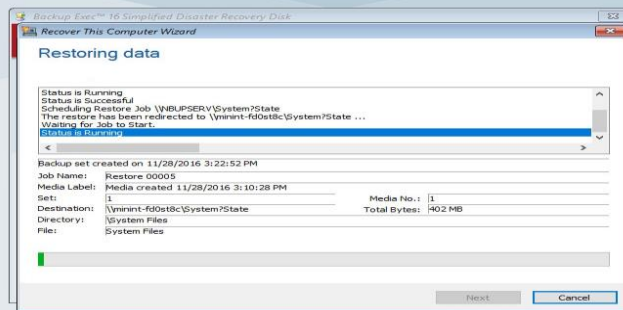
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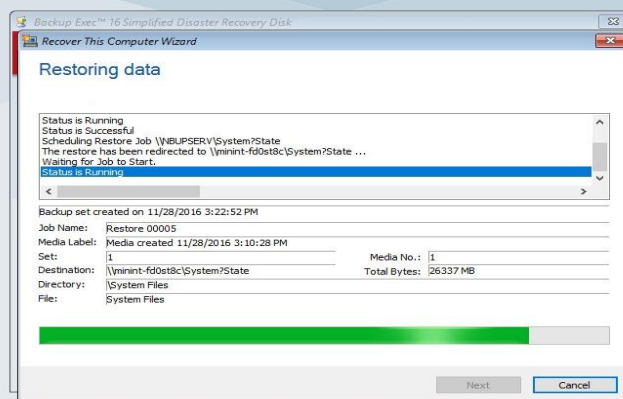
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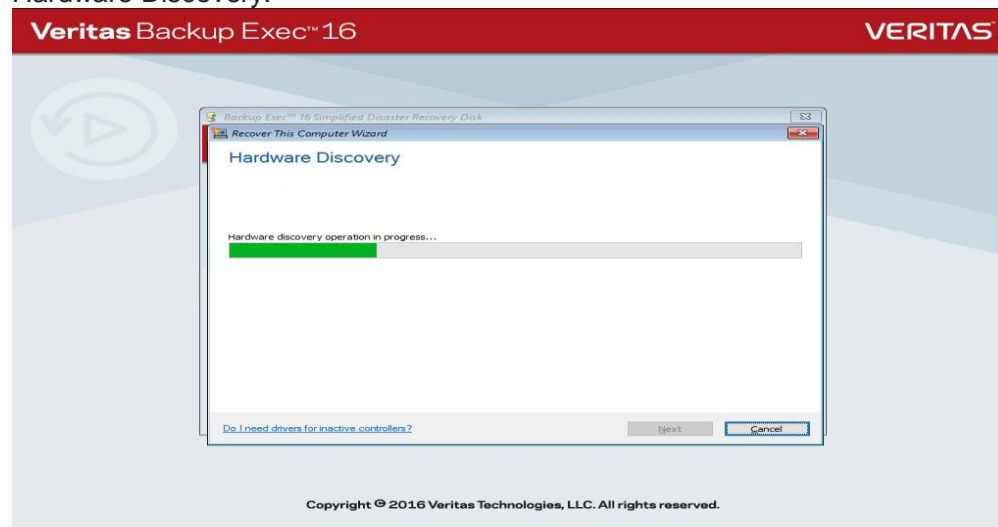


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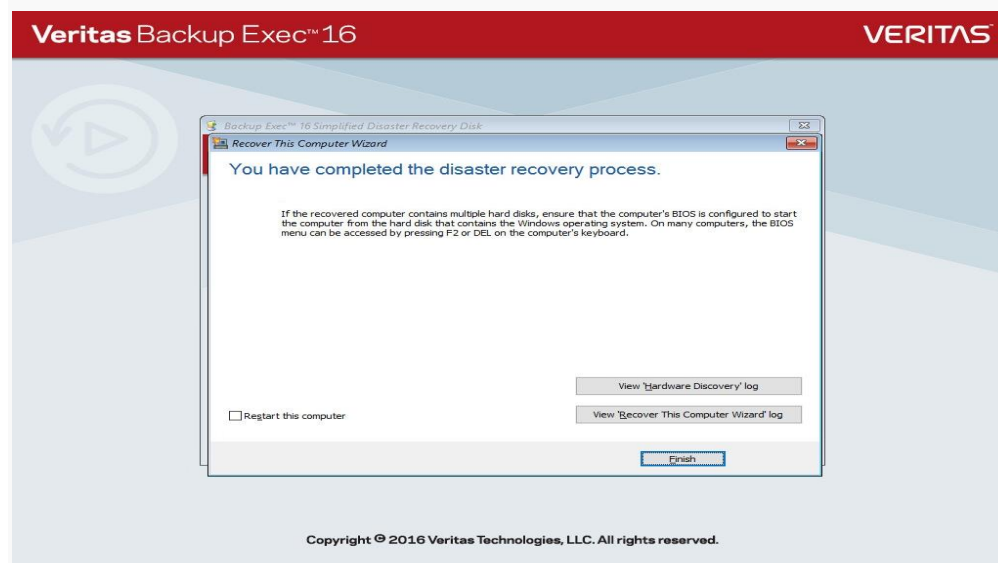


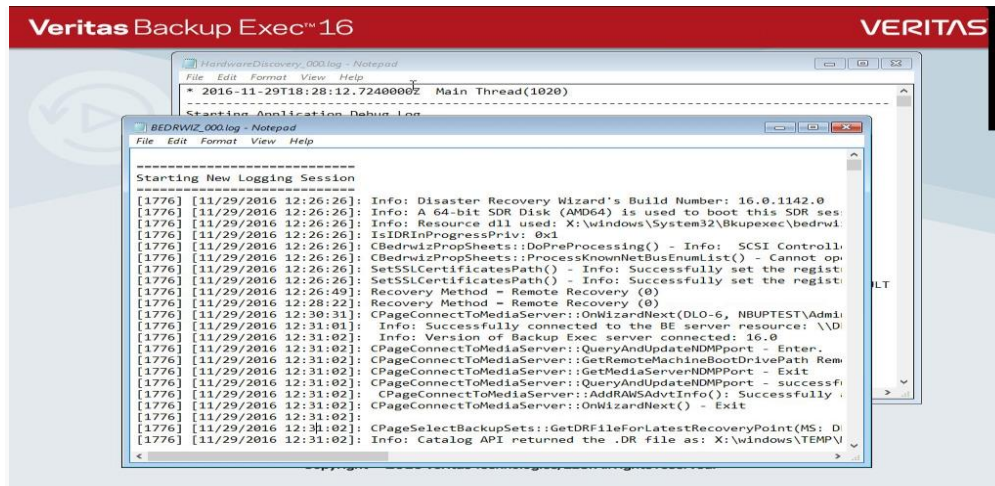
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When the restore is finished restoring the files and System State it will then go through a Hardware Discovery.



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.

