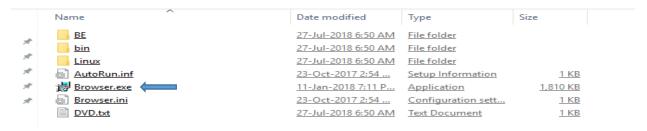
INSTALL VERITAS BACKUP EXEC v20.2.1188 ON WINDOWS SERVER 2016 DOMAIN CONTROLLER

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



 \times

🛃 Backup Exec (TM) DVD Browser

🔊 Veritas	Backup Exec™
	Installation
Home Getting Started	Select a product to install.
Pre-installation	Backup Exec
 Installation View License 	 Backup Exec Install a Backup Exec server or install the Remote Administration Console on this computer. Readme Install View Licensing Information
Microsoft Windows Certification Backup Exec Web Site	Readme Install View Licensing Information
Browse DVD	Simplified Disaster Recovery Disk Creation Wizard
Technical Support	
VERITAS	
🕑 Veri	i tas Backup Exec™
Copyright © 2018 Ver All rights reserved.	ritas Technologies, LLC.

🍇 Backup Exec (TM)	- 🗆 X
🔊 Veritas	Backup Exec™
✓ Welcome	
Installation Type	
Environment Check	This wizard will guide you through installing Backup Exec (TM), Backup Exec features, and Backup Exec agents.
Add Licenses	
Service Account	
Remote Computers	Please read the following license agreement carefully.
Installation Review	
Progress	VERITAS
Complete	VERITAS SOFTWARE LICENSE AGREEMENT
	VERITAS SOFTWARE LICENSE AGREEMENT
	×
	 I accept the terms of the license agreement. I do not accept the terms of the license agreement.
	By continuing with the Backup Exec install, you accept the <u>Privacy Statement</u> .
VERITAS	Print Next Cancel
VERITAS	Print Next Cancel
Sackup Exec (TM)	
Sackup Exec (TM)	- · ×
Sackup Exec (TM)	- · ×
Backup Exec (TM)	- ∞ × Backup Exec [™] Select the type of installation that you want to run.
 Backup Exec (TM) Veritas I Welcome Installation Type Menu 	– × Backup Exec™
 Backup Exec (TM) Veritas I Welcome Installation Type Menu Environment Check 	 – – × Backup Exec[™] Select the type of installation that you want to run. ○ Typical installation
 Backup Exec (TM) Veritas Welcome Installation Type Menu Environment Check Add Licenses 	 – – × Backup Exec[™] Select the type of installation that you want to run. ○ Typical installation
 Backup Exec (TM) Veritas I Welcome Installation Type Menu Environment Check Add Licenses Configure Features 	 – ► × Backup Exec[™] Select the type of installation that you want to run. O Typical installation Want to install a single Backup Exec server that will back up itself and a few other computers. O Custom installation
 Backup Exec (TM) Veritas Welcome Installation Type Menu Environment Check Add Licenses Configure Features Choose Languages 	- C × Backup Exec™ Select the type of installation that you want to run. Typical installation I want to install a single Backup Exec server that will back up itself and a few other computers. I want to install a single Backup Exec server that will back up itself and a few other computers. I want to make choices for my environment. I may also do some or all of the following: - Install the Remote Administration Console
 Backup Exec (TM) Veritas I Welcome Installation Type Menu Environment Check Add Licenses Configure Features Choose Languages Destination 	- C × Backup Exec™ Select the type of installation that you want to run. C Typical installation W I want to install a single Backup Exec server that will back up itself and a few other computers. I want to install a single Backup Exec server that will back up itself and a few other computers. C Custom installation W I want to make choices for my environment. I may also do some or all of the following: - Install the Remote Administration Console - Such install Backup Exec servers to remote computers - Push install Backup Exec servers to remote comput
 Backup Exec (TM) Veritas Welcome Installation Type Menu Environment Check Add Licenses Configure Features Choose Languages 	- C × Backup Exec [™] Select the type of installation that you want to run. Typical installation I want to install a single Backup Exec server that will back up itself and a few other computers. I want to install a single Backup Exec server that will back up itself and a few other computers. I want to make choices for my environment. I may also do some or all of the following: - I ustall the Remote Administration Console - Push install Backup Exec servers to remote computers
 Backup Exec (TM) Veritas I Welcome Installation Type Menu Environment Check Add Licenses Configure Features Choose Languages Destination Service Account 	- C × Backup Exec™ Select the type of installation that you want to run. Select the type of installation that you want to run. Typical installation Computer Select installation Computer Select installation Computer Select installation Computer Select Sele
 Backup Exec (TM) Veritas I Welcome Installation Type Menu Environment Check Add Licenses Configure Features Choose Languages Destination Service Account Choose SQL Server 	- C × Backup Exec™ Select the type of installation that you want to run. Select the type of installation that you want to run. Typical installation Computer Select installation Computer Select installation Computer Select installation Computer Select Sele

Back

Next

Cancel

VERITAS

🍓 Backup Exec (TM)	- □ ×
🔊 Veritas	Backup Exec™
✓ Welcome	✓ Local Installation
 Installation Type 	Install Backup Exec software and features
Menu	Install backup Exec solution and features on this computer.
Environment Check	Install Remote Administration Console only
Add Licenses	Install the Backup Exec Administration Console on this computer as a Remote
Configure Features	Administrator, which allows you to remotely administer servers from a Windows server or workstation.
Choose Languages	
Destination	Remote Installation
Service Account	Push install a Backup Exec server and features, or Agent for Windows to remote computers.
Choose SQL Server	
Installation Review	
Progress	
Complete	
VERITAS	Back Next Cancel
🍓 Backup Exec (TM)	– 🗆 X
🔊 Veritas	Backup Exec™
✓ Welcome	
	Backup Exec Environment Check 2.0 for
 Installation Type 	VERITAS DC1
 Menu 	
Environment Check	
Add Licenses	Computer Environment Checks
Configure Features	Configuration
Choose Languages	Microsoft Windows Assessment and Deployment Kit Version
	Operating System Version Check System Drive Check
Destination	Cluster Configuration
Service Account	Microsoft Internet Explorer Version Octobit Operating System Test
Choose SQL Server	Operating System Test Operating System Test Operating System Test
Installation Review	WMI Check
	Windows Imaging Component check.
Progress	Save results to:
Complete	C:\Users\ADMINI~1\AppData\Local\Temp\backup exec\43332.564743669 Change
VERITAS	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.

<u> </u>	Backup Exec (TM)		- 🗆 ×
	囪 Veritas	Backup Exec™	
	Welcome Installation Type Menu Environment Check	Add an Entitlement ID or import a License File (SLF) that licenses for Backup Exec editions or maintenance contra Entitlement ID and you can import multiple SLF files du multi-select SLF files to import at the same time. After verify the Entitlement ID. To install a trial version of Backup Exec for 60 days, click Enter an Entitlement ID.	acts. An SLF file may include more than one rring the installation process. However, you cannot you add an Entitlement ID to the list, click Next to
	Add Licenses Configure Features Choose Languages Destination Service Account Choose SQL Server	Add to list Activated Licenses: Entitlement ID Product Name	Import License File Start Date End Date
	Installation Review Progress Complete	View Online Documentation Find a Backup Exec Partner Activate, Upgrade or Renew your licenses, Purchase Backup Exec, Back	Next Cancel
	Backup Exec (TM)		- 🗆 X
ĺ	🔊 Veritas I	Backup Exec™	
* * * * *	Welcome Installation Type Menu Environment Check Add Licenses Configure Features Choose Languages Destination Service Account Choose SQL Server Installation Review Progress Complete	Select features to install: Backup Exec Bronze Y Agent for VMware and Hyper-V Deduplication Feature Online Documentation Backup Exec Silver Agent for Applications and Databases Y Agent for Linux V Virtual Tape Library Support Backup Exec Gold Y Copy Server Configurations Enterprise Server Feature Y Advanced Disk-based Backup Feature Y Central Admin Server Feature NDMP Feature NDMP Feature Remote Media Agent for Linux	Feature description: Managed Backup Exec Server Included with Gold editions. Installs the managed Backup Exec server component of the Central Admin Server Feature (CAS). Managed Backup Exec servers are centrally managed and monitored from the Central Administration Server. You can install managed Backup Exec servers after you install a Central Administration Server. Support links: Software Compatibility List Hardware Compatibility List View Licensing Guide
	VERITAS	Back	Next Cancel

🎯 Backup Exec (TM)

🍓 Backup Exec (TM)					_		\times
🔊 Veritas 🛛	Backup Exec™						
✓ Welcome							
 Installation Type 	Select the additional lang	uages to be inst	alled				
🖌 Menu	🗹 English		🗌 简体中文				
 Environment Check 	Español		─ □ 繁體中文				
 Add Licenses 	Français		🗌 日本語				
 Configure Features 	Deutsch		□ 한국어				
Choose Languages	Italiano Português (Brasil)		Русский				
Destination							
Service Account							
Choose SQL Server							
Installation Review							
Progress							
Complete							
VERITAS		Back		Next		Cancel	
🍓 Backup Exec (TM)					-		×
🔊 Veritas I	Backup Exec™						
✓ Welcome					E E	Undete	
Installation Trees	Local Drives:					Update	
 Installation Type 	Drive Available		atus				
🗸 Menu	C:\ 190 GB D:\ 362 GB			Backup Exec installa			
 Environment Check 	D:\ 362 GB E:\ 3,855 GB			Backup Exec installa Backup Exec installa			
	2,000 00	0.000 10					
 Add Licenses 							
 Configure Features 							
 Choose Languages 							
Destination	 * An additional 525 MB of disk space 	e is required if a	SOL Express in	stance is selected for	r install		>
Service Account	An additional 323 MB of disk space	e is required in a	SQL Express in	stance is selected to	r mstan.		
Choose SQL Server							
Installation Review	Use the default folder as the Click Change to browse to a			tall Backup Exec.			
Progress	C:\Program Files\Veritas\Ba	ckup Exec\				Change	
Complete							
VERITAS		Back	:	Next		Cancel	

kup Exec (TM) —	×
Veritas Backup Exec™	
come Enter the user name and password of an account that has local administrative privileges for the	the
allation Type Backup Exec services to use.	
Select or enter the Domain name in the Domain list. If this computer is not a member of a do select or enter the local computer name in the Domain list.	omain,
ironment Check Click the links below for details about required credentials when you install:	
Licenses	
figure Features The Backup Exec database to a SQL Server instance on a different computer. More informati	tion
To an existing Central Admin Server Feature environment. <u>More information</u>	
tination	
vice Account	
ose SQL Server	-
User name: Administrator	
Password:]
plete Domain RAMLAN ~	
Back Next Cano	icel
Exec (TM) X	
The account RAMLAN\Administrator has been granted the following	
rights:	
rights:	
rights: Log on using the batch logon type	
rights:	
rights: Log on using the batch logon type	
rights: Log on using the batch logon type	- ×
rights: Log on using the batch logon type OK up Exec (TM) —	- ×
rights: Log on using the batch logon type	- ×
rights: Log on using the batch logon type up Exec (TM) – Veritas Backup Exec™	
rights: Log on using the batch logon type Nup Exec (TM) — □ Veritas Backup Exec TM Some Backup Exec can install the SQL Express components on the local computer to create an install on which to store the Backup Exec database. Or, you can select an existing instance of SQL Se	ance
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rights: Log on using the batch logon type OK Unp Exec (TM)	ance erver
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rights: Log on using the batch logon type OK OK Veritas Backup Exec (TM) Come Maton Type Maton Type U u ronment Check Licenses Neuronet Check Licenses Instance of SQL Servers a later supported SQL Server version. Use an existing instance of SQL Servers, Compatible operating systems, platforms, and applications here Compatible operating systems, platforms, and applications here Destination Folder C:\Program Files\Microsoft SQL Servers Use an existing instance of SQL Servers Destination Folder C:\Program Files\Microsoft SQL Server 2008 R2 with Service Pack 2 or a later supported SQL Server 1 Destination Folder C:\Program Files\Microsoft SQL Server 2008 R2 with Service Pack 2 or a later supported SQL 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.	ance erver vse L Server
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Back

Next Cancel

VERITAS

Sackup Exec (TM)

🔊 Veritas	Backup Exec™	
Welcome Installation Type Menu Environment Check	VERITAS Backup Exec Install Summary for DC1	
 Add Licenses Configure Features Choose Languages Destination Service Account 	Overview Product name: Backup Exec Destination Folder: C:\Program Files\Veritas\Backup Exec\ Installation date/time: 20-Aug-2018 9:43 AM SQL Server Instance: BKUPEXEC	
Choose SQL Server Installation Review Progress Complete VERITAS	Backup Exec Online Documentation Saved summary location C:\ProgramData\Veritas\Backup Exec\Logs\InstallSummary\DC1.htm Print Back Install Cancel	
Backup Exec (TM)		<
Veritas	Backup Exec™	
 Welcome Installation Type Menu Environment Check Add Licenses 	Product Estimated Install Time Microsoft SQL Express 10 Minute(s) Microsoft VC++ Redistributables (x64) 1 Minute(s) Microsoft VC++ Redistributables (x86) 1 Minute(s) Backup Exec 10 Minute(s)	
 Configure Features 	< >	
 Choose Languages 	Extracting SQL Express installation package. Please wait	

- Destination
- Service Account
- Choose SQL Server
- Installation Review
- Progress

Complete



Cancel

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Sackup Exec (TM)



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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 Backup Exec now supports protection of SharePoint Server 2016. Granular restore is SharePoint Server 2016 Bimited 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.

				_
Veritas Backup Exec ^{ter} (Central Administration Server)			- 0	×
		A	Central dministration Server	
One Two Narrow/Wide Three Reset V Backup Status V Configuration Tasks V Licensed Capacity Usage Status V Licensed Capacity Usage Status	nical Support imentation ising Information up Exec RSS Read			
Configuration Tasks	* 🗆 ×	Licensed Capacity Usage Status	¢⊡×	
Critical settings are configured. Additional action is required to correct the that are marked with a warning.	e items	0 bytes used		
Ortical Tasks: 0 Warning Tasks: 2 Mommational Tasks: 3 Vew configuration task details.		The capacity usage calculation is based on servers backed up in the part 30 days. View Dotats		
Virtual Machine Backups	* 🗆 ×	Backup Status	* 🗆 ×	
Virtual machine backup status not available		No backups have been created. Create a factory for This Buckup Evec Server		
Storage Status	* 🗆 ×			
No Storage Configured		Never backed up		
Storage has not been configured yet. You must configure storage before you can run a backup. Configure Storage		Instant Cloud Recovery Status Azure resources are not configured or not initialized.	* 🗆 ×	
Simplified Disaster Recovery	¢⊡×			
No Simplified Disaster Recovery Disk Created Vau muit create the Simplified Disaster Recovery disk so that you can recover your backed-up computers in case of a disaster Create Disaster Recovery Date		Database Encryption Key Database Encryption Key Has Not Been Exported Yus must export the database encryption key to a secure location so that Backup Ease can be recovered in case of a disaster For more information, see TECH22830 on the Backup Ease Notestage Base Export Database Encryption Key	* □ ×	
Installation and Upgrades	¢⊡×	Backup Size	×	
View Installation Summary Report		Show last Z Days • 27 Full 27 Incremental 27 Differential		
Documentation	* 🗆 ×	B 1.		
: 레 DC1 Alents 😵 0 🛕 1 🏗 0 🏚 3 Jacks 4월 0 🛒 0 월 0 👘 0			VERI	'AS

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

Thanks

Ram Lan – 20th Aug 2018

Close

-1

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

DC1 > Downloads > Crack

Name	Date modified	Туре	Size
BE 1.reg	<u>18-Aug-2018 9:12</u>	Registration Entries	<u>9 KB</u>
be20-2022-999.reg	<u>18-Aug-2018 9:12</u>	Registration Entries	<u>9 KB</u>
💣 <u>Reg v20.0.1188 [9999 Day].reg</u>	<u>18-Aug-2018 9:12</u>	Registration Entries	<u>9 KB</u>
📄 v20.0.1188(9999 Day).reg	13-Apr-2018 11:38	Registration Entries	<u>9 KB</u>
Restart all Backup Exec services			
🤐 Backup Exec Agent Browser	Allows the Backup Exec job en	Running Automa	atic RAMLAN\Administrator
🤹 Backup Exec Deduplication Engine	Processes all data that goes thr	Disable	d Local System
🥋 Backup Exec Deduplication Manager	Manages the PureDisk Dedupli	Disable	d Local System
🌼 Backup Exec Deduplication Multi-threaded Streaming Agent	Provides a multi-threaded stre	Disable	d RAMLAN\Administrator
🥋 Backup Exec Device & Media Service	Provides several COM server in	Running Automa	atic RAMLAN\Administrator
🤹 Backup Exec Error Recording Service	Backup Exec Error Recording S	Running Automa	atic Local System
🤹 Backup Exec Job Engine	Receives job requests from the	Running Automa	atic RAMLAN\Administrator
🤹 Backup Exec Management Service	Acts as an interface between t	Running Automa	atic 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 Automa	atic Local System
🖏 Backup Exec Server	Implements job scheduling, se	Running Automa	atic RAMLAN\Administrator

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

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

iSCSI to	function co	prrectly. To start th	ning. The service is re le service now and ha er restarts, click the Ye	
			Y	/es No
iSCSI Initi	ator Proper	ties		×
Targets	Discovery	Favorite Targets	Volumes and Devices	RADIUS Configuration
The s		ok for Targets on fo		Refresh
Addr	ess	Port	Adapter	IP address
To re			Portal.	Discover Portal Remove
	ervers			
The s		istered on the follov	ving iSNS servers:	Refresh
		rver, dick Add Serv S server, select the		Add Server
	click Remove			Remove
			ОК	Cancel Apply

Discover Target Portal		\times
Enter the IP address or D want to add.	NS name and port nu	mber of the portal you
To change the default set the Advanced button.		of the target portal, dick
	Address of EMC NAS	
IP address or DNS name:	Po	rt: (Default is 3260.)
192.168.0.184	3	260
Advanced		OK Cancel

iSCSI Initiator Properties

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argets	Discovery	Favorite Targets	Volun	nes and Devices	RADIUS	Configuration
Targa	t portals					
-	-					Refresh
	-	ok for Targets on fo				
Addr		Port		pter		P address
192.	168.0.184	3260	Def	ault	C	efault
To ad	id a target p	ortal, click Discover	Portal		Disco	ver Portal
	move a targe click Remove	et portal, select the	addre	ss above and		Remove
iSNS a	ervers					
		istered on the follow	uina iS	NS converse		Refresh
Name		stered on the follow	wing io	No servers.		
	-					
To ad	ld an iSNS se	rver, dick Add Serv	/er.		Ade	d Server
	move an iSN click Remove	S server, select the	serve	r above and	ł	Remove
				ОК	Cancel	Apply

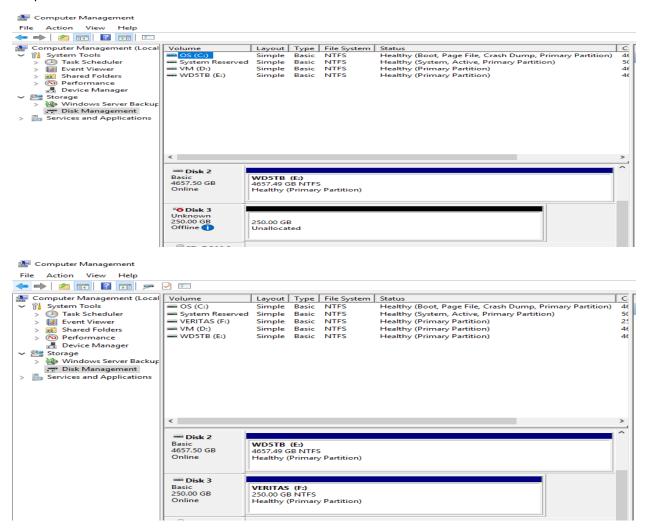
iSCSI Initiator Properties	×
Targets Discovery Favorite Targets Volumes and Devices RAI	DIUS Configuration
Ouick Connect	
To discover and log on to a target using a basic connection, type to DNS name of the target and then click Quick Connect.	he IP address or
Target:	Quick Connect
Discovered targets	
	Refresh
Name Stat	us
ign. 1992-04.com.emc:storage.EMC-NAS.BKEXEC Inac	tive
ign. 1992-04.com.emc:storage.EMC-NAS.DPMSD Inac	
To connect using advanced options, select a target and then dick Connect.	Connect
To completely disconnect a target, select the target and then click Disconnect.	Disconnect
For target properties, including configuration of sessions, select the target and click Properties.	Properties
For configuration of devices associated with a target, select the target and then dick Devices.	Devices
OK	Cancel Apply
Connect To Target	×
Target name:	
iqn. 1992-04.com.emc:storage.EMC-NAS.BKEXEC	
Add this connection to the list of Favorite Targets. This will make the system automatically attempt to restore the connection every time this computer restarts.	

Cancel

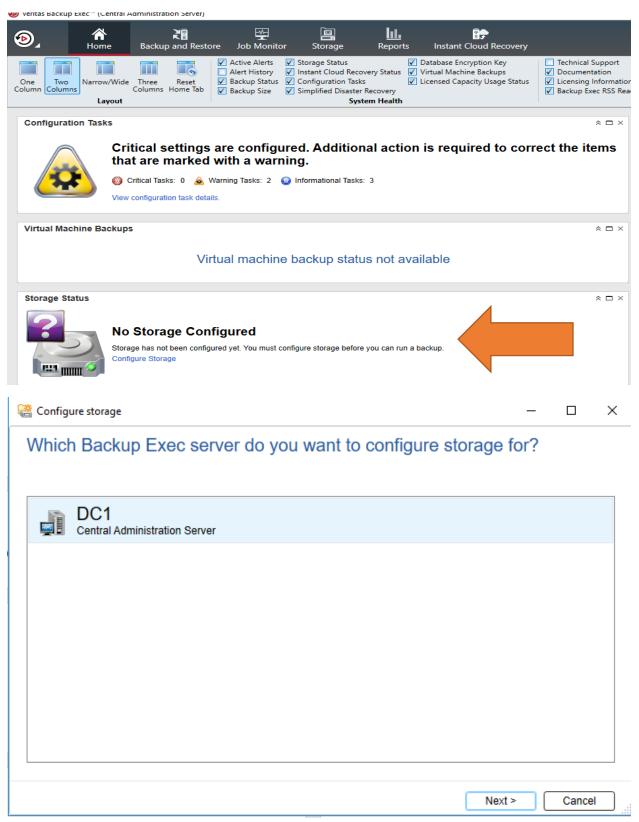
Advanced... OK

CSI Initi						
argets	Discovery	Favorite Targets	Volumes and Devices	RADIU	S Confi	iguration
Quick C						
To disc DNS na	over and log me of the ta	on to a target usin arget and then click	g a basic connection, Quick Connect.	type the	IP addres	ss or
Target:					Quick Cor	nnect
Discove	red targets					
					Refr	esh
Name				Status		
		emc:storage.EMC-N		Connec		
ign. 19	92-04.com.	emc:storage.EMC-N	NAS.DPMSD	Inactive	2	
		dvanced options, se	elect a target and the	, –	Conn	nect
click Co	nnect.		_	· [
click Co	nnect.	onnect a target, sel	_	` [Conn Discor	
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Open Computer Management – Disk Management. Bring the disk Online and then Initialize and create Simple Volume Partition.



Storage Configuration:



Which type of storage do you want to configure? Image: Disk-based storage and legacy backup-to disk tolders may be available to configure. Image: Disk-based storage disk calridge devices, deduplication disk storage, storage arrays, virtual disks, and legacy backup-to disk tolders may be available to configure. Image: Disk-based storage devices, NDMP servers, and remote media agents for Linux may be available to configure. Image: Disk-based storage devices, NDMP servers, and remote media agents for Linux may be available to configure. Image: Disk-based storage devices, NDMP servers, and remote media agents for Linux may be available to configure. Image: Disk storage devices, NDMP servers, and remote media agents for Linux may be available to configure. Image: Disk storage devices, NDMP servers, and remote media agents for Linux may be available to configure. Image: Disk storage devices pools and Backup Exec server pools may be available to configure. Image: Disk storage devices pools and Backup Exec server pools may be available to configure. Image: Disk storage on pool	🚵 Config	ure storage on DC1	-	_		\times
Local or remote disk storage_disk carridge devices, deduplication disk storage, storage arrays, virtual disks, and legacy backup-to disk folders may be available to configure. Cloud Storage Mathematical Storage Mathematical Storage devices, NDMP servers, and remote media agents for Linux may be available to configure. Tape Storage Devices, NDMP servers, and remote media agents for Linux may be available to configure. Tape Storage Devices, NDMP servers, and remote media agents for Linux may be available to configure. Tape Storage Devices, NDMP servers, and remote media agents for Linux may be available to configure. Storage devices, NDMP servers, replacing or adding het-swappable storage devices, configuring robotic library partitions, and configuring brotholds for the available to configure. What are the different types of storage? Cancel Configure storage on DC1 Cancel Which type of disk-based storage do you want to configure. Which type of disk-based storage 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 backup. Disk cartridge device. Disk cartridge device. Disk cartridge device for the disk storage? Vhat are the different types of disk storage? A set Next > Cancel Configure storage on 201 Storage on a volume on which only unique data is stored to reduce the size of backup. With a set me unconfigured disk cartridge devices on the system Storage on a device that uses created with a previous version of Backup Exec. You can import an existing backup-to-disk torage? Vena me ne unconfigured disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge media, such as an RDX device,	Whic	n type of storage do you want to configure?				
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 OpenStorage devices, NDMP servers, and remote media agents for Linux may be available to configure. Tape storage Installing tage 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 devices pools and Backup Exec server pools may be available to configure. What are the different types of storage? Cancel Configure storage on DC1 Cancel Which type of disk-based storage do you want to configure? Which type of disk-based storage Storage on a volume, a hot-swappable device, a USB device, or a FireWire device. Disk storage Storage on a volume on which only unique data is stored to reduce the size of backups. Disk cartridge device Disk cartridge device Disk cartridge device What are the different types of disk storage? Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk cartridge devices on the system Storage on a device that uses disk	-					
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Description: This storage is available on DC1 Server	Name:	DC1 Disk storage 0001				
	Descripti	on: This storage is available on DC1 Server				

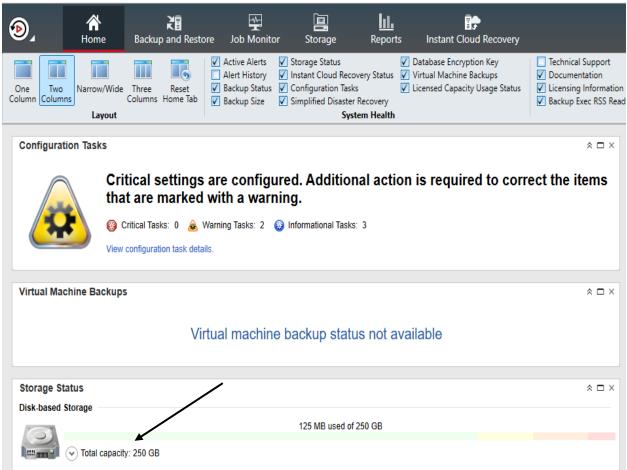
Configure storage on DC1

—	\times

Local disk:	F: (250 GB Free)								1
	Only one disk storage device can be created	l on a volume.							
Network share:									
	Enter a UNC path to the network share. For	example: \\server\share							
🕢 Backup Exe	c formats the local disk only if it is	not already forma	tted. No o	data is over	written.				
	data deduplication is currently enal								
Exec must e	e backup data in the folder \BEData								
the Backup	Exec server.								
			_				_		
				< Back		ext >		Cancel	_
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Configure storag	ge on DC1					-			
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lisk storag	e device?								
oncurrent write o	perations: 2								
	determines how many jobs can wr								
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Ø Veritas Backup Exec™ (Central Administration Server)



Pending configuration tasks:

Ø Veritas Backup Exec™ (C	entral Administration Server)				
۲ک _{Hom}			age Reports	Instant Cloud Recovery	
Column Columns	//Wide Three Reset Columns Home Tab	Backup Status 🔽 Configur	loud Recovery Status 🛛 🗸	Database Encryption Key Virtual Machine Backups Licensed Capacity Usage Status	 Technical Support Documentation Licensing Information Backup Exec RSS Readers
O					
Configuration Task	Critical settings that are marked	with a warning. /arning Tasks: 2 🚷 Information		n is required to corre	∝ □ ×

Logon Accounts:

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 securi 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.

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

lame	Logon Account	Credential Status	Date Last Attempted	Test All
- 🌆 DC1.RAMLAN.CA	System Logon Account 🔹	🛕 Unknown, Test r		Test Selected
C:	 server's logon ac 	🚯 Unknown, Test r	20-Aug-2018 10:33:36 AM	Delete Selected
🖼 D:	 server's logon ac 	🙆 Unknown, Test r	20-Aug-2018 10:33:36 AM	Cancel Test
🖼 E:	 server's logon ac + 	\land Unknown, Test r	20-Aug-2018 10:33:36 AM	
📑 Microsoft SQL Ser	 <use *<="" ac="" li="" logon="" server's=""> </use>	🕢 Test not applicat	20-Aug-2018 10:33:36 AM	
Network State State	 server's logon ac 	\land Unknown, Test r	20-Aug-2018 10:33:36 AM	
👔 Microsoft Hyper-V	<use i<="" parent="" source's="" td=""><td>🕢 Test not applicat</td><td>20-Aug-2018 10:33:36 AM</td><td></td></use>	🕢 Test not applicat	20-Aug-2018 10:33:36 AM	
	m credentials for the selected content		×	

Name	Logon Account	Credential Status	Date Last Attempted	Test All
MIDC1.RAMLAN.CA	System Logon Account 👻	Success	20-Aug-2018 11:23:59 AM	Test Selected
C:	<use ac<="" logon="" server's="" td=""><td>Success</td><td>20-Aug-2018 11:24:04 AM</td><td>Delete Selected</td></use>	Success	20-Aug-2018 11:24:04 AM	Delete Selected
🔤 D:	<use ac="" logon="" server's="" td="" 👻<=""><td>Success</td><td>20-Aug-2018 11:24:05 AM</td><td>Cancel Test</td></use>	Success	20-Aug-2018 11:24:05 AM	Cancel Test
E:	<use ac="" logon="" server's="" td="" 👻<=""><td>Success</td><td>20-Aug-2018 11:24:07 AM</td><td></td></use>	Success	20-Aug-2018 11:24:07 AM	
Microsoft SQL Ser	<use ac<="" logon="" server's="" td=""><td>🕡 Test not applicat</td><td>20-Aug-2018 11:24:10 AM</td><td></td></use>	🕡 Test not applicat	20-Aug-2018 11:24:10 AM	
Paral System State	<use ac<="" logon="" server's="" td=""><td>Success</td><td>20-Aug-2018 11:24:23 AM</td><td></td></use>	Success	20-Aug-2018 11:24:23 AM	
Microsoft Hyper-V	<use i…="" parent="" source's="" td="" ▼<=""><td>🕡 Test not applicat</td><td>20-Aug-2018 11:24:23 AM</td><td></td></use>	🕡 Test not applicat	20-Aug-2018 11:24:23 AM	
🔁 F:	 <use ac="" li="" logon="" server's="" →<=""> </use>	Success	20-Aug-2018 11:24:09 AM	
■ F:		Success		
F:	 <use ac="" li="" logon="" server's="" →<=""> </use>	Success	20-Aug-2018 11:24:09 AM	
You may need to test the	m credentials for the selected content unust test and click Test Selected	s. It is recommended th	hat you click Test All, or	

Encryption Key:

Onfiguration Tasks

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 securit settings.

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Settings	— •	\times
Preferences	Perform database maintenance daily at: 4:00:00 AM	~
Help	OK Cancel	

Export Database Encryption Key

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Export Database Encryption Key

Successfully exported Backup Exec Database encryption key 'bf9ec577.dek' to location '\\cm1\sources'.

ОК

Email Setting:

Configuration Task	cs			- 0
Configuratio	n 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

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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 🔺	Туре		Add a recip	pient
			Add a gro	oup
			Edit	
			Delete	
Help		ОК	Can	icel
🚸 Configure Email and Text M	lessages			\times
Email configuration				
_				
Email server:	ex2016.ramlan.ca		Port number:	25 🕃
Sender name:	administrator			
Sender email address:	administrator@ramlan.ca			
Email authentication				
Enable email authen	tication			
Sender user name:				
Sender password:				
Text message configuration				
Text message service				
provider address:				
The address for the t recipient details.	ext message service provider can be	changed for an	individual when y	you add the
	ext message service provider can be	changed for an	individual when y	you add the
	ext message service provider can be	changed for an	individual when y	you add the

뤜 Add Individual Recipient

To Ram

mail alerts				
Send notific	ations by email			
Recipient's	email address:	ram@ramlan.ca		Send test ema
Send Send	no more than 1	emails within 1 🚔 Minute	(S) •	
ext Message al	erts			
Send notification	ations by text messa	ge		
Recipient's	cell phone number:			Send test message
Text messa address:	ge service provider			
Send I	no more than 1	text messages within 1	Minute(s) -	
Help				OK Cano
	n individual or a	group to the recipient list. Select	a recipient to edit t	he details for the
ecipient or to	delete the recipi			Add a recipient
-	delete the recipion	ent from the list.		
Name 🔺	delete the recipi	Type		Add a recipient
Name 🔺	delete the recipion	Type		Add a recipient Add a group Edit
Name 🔺	delete the recipi	Type		Add a recipient Add a group
Name 🔺	delete the recipi	Type		Add a recipient Add a group Edit
Name 🔺	delete the recipi	Type		Add a recipient Add a group Edit
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Name 🔺	delete the recipi	Type		Add a recipient Add a group Edit
Name 🔺	delete the recipi	Type		Add a recipient Add a group Edit
Name 🔺	delete the recipi	Type	OK	Add a recipient Add a group Edit
Name 🔺	delete the recipi	Type		Add a recipient Add a group Edit Delete
Name 🔺 Ram Help		Type Recipient		Add a recipient Add a group Edit Delete
Name 🔺 Ram Help	Reply All	ent from the list. Type Recipient		Add a recipient Add a group Edit Delete
Name 🔺 Ram Help	Reply All C For Mon 20-Aug-20	ent from the list. Type Recipient	ОК	Add a recipient Add a group Edit Delete

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.

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: Add Browse Server Name Logon Account Delete	Configuratio						
Intermedicinal Data Discover Diputed using a week later base defined using the base of the defined of the defined using the base of the defined using the defined us	Severity 🔺	Category	Description	Task		A	ction
Browse for servers: Servers without an Agent for Windows installed Browse for servers: Server Name & Logon Account Ex2016 Aways use IP address to connect to servers. Do not resolve IP addresses into fully qualified domain Aways use IP address to connect to servers. Do not resolve IP addresses into fully qualified domain	设 Informational	Data Discovery		then then	install the Backup Exec Age	ent for 🐰	
Server Name Servers to connect to servers. Do not resolve IP addresses into fully qualified domain	Browse				_		\times
→ ■ DC2 → ■ EX2016 → △ APPV → ■ MBAM → ■ ○ CM1 → ■ ○ CM2 Backup Exec must establish a trust with the servers and the remote computers. You must allow Backup Exec to establish the trust bedrev you can continue to add the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Allow Backup Exec to establish a trust with the servers. ✓ Properties the name of a server of the server's IP address or browse for any servers that you want to add: Server Name ▲ Logon Account<	Browse for a	servers:					
NINT WINT Winto Winto Each use stabilish a trust with the servers that you want to add to ensure secure 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. Allow Backup Exec to establish a trust with the servers. Aldow Sackup Exec to establish a trust with the servers. 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. Excode setup Exect a server's IP address or browse for any servers that you want to add. Excode setup Exect a server or the server's IP address or browse for any servers that you want to add. Excode setup Exect a server or the server's IP address or browse for any servers that you want to add. Excode setup Exect a server or the server's IP address or browse for any servers that you want to add. Add a Server Name Logon Account Add a Server Name Advays use IP address to connect to servers. Do not resolve IP addresses into fully qualified domain		DC2 EX2016 APPV MBAM OM1	out an Agent for Windows ins	alled			
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.	 Image: A transmission of the second second	₩IN7 ₩IN10 ₩IN10 ₩IMM					~
Add a Server			-				
Type the name of a server or the server's IP address or browse for any servers that you want to add: Add Browse Server Name Logon Account Delete Apply to All	Help				ОК	Car	
Add Server Name Logon Account EX2016 System Logon Account Apply to All	Add a Serve		o you want to add?		ОК	Car	
Server Name Logon Account Delete EX2016 System Logon Account Apply to All Apply to All Apply to All Image: All of the server of th	Add a Serve	ervers d	-	se for any servers		_	
Ex2016 System Logon Account Apply to All Apply to All Apply to All	Add a Serve	ervers d	-	se for any servers		_	
Always use IP address to connect to servers. Do not resolve IP addresses into fully qualified domain	Add a Serve	ervers d	-	se for any servers		_	.ti
	Add a Serve Which S Type the nam	servers d	or the server's IP address or brow	gon Account	that you want to ad	_	Add Browse Delete
	Add a Serve Which S Type the nam	servers d	or the server's IP address or brow	gon Account	that you want to ad	d:	Add Browse Delete
	Add a Serve Which S Type the nam Server Nam EX2016	ne of a server	or the server's IP address or brow	gon Account /stem Logon Acco	that you want to ad	d:	Add Browse Delete

	kec to upgrade the Backup Exec Agent for it is installed on the remote computer?	
	or Windows to the current version automatically	
Restart the remote computer autom required	natically after installing the Backup Exec Agent for Windows when a restart is	
	< Back Next > Ca	ncel
Add a Server]
Summary		
Servers to add		
Server Name	Logon Account	
EX2016	System Logon Account	
Install features		
Upgrade the Backup Exec Agent for	or Windows to the Yes	
current version automatically:		
Restart the remote computer autom the Backup Exec Agent for Window		
required:	is when a restart is thes	
		ancel
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Installing the Backup E	xec Agent for Windows.	

٩	Add a Server		—	\times
	Installing the Backup Exec	Agent for Windows.		
	Server Name	Progress		
	EX2016	🕜 Successful		

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

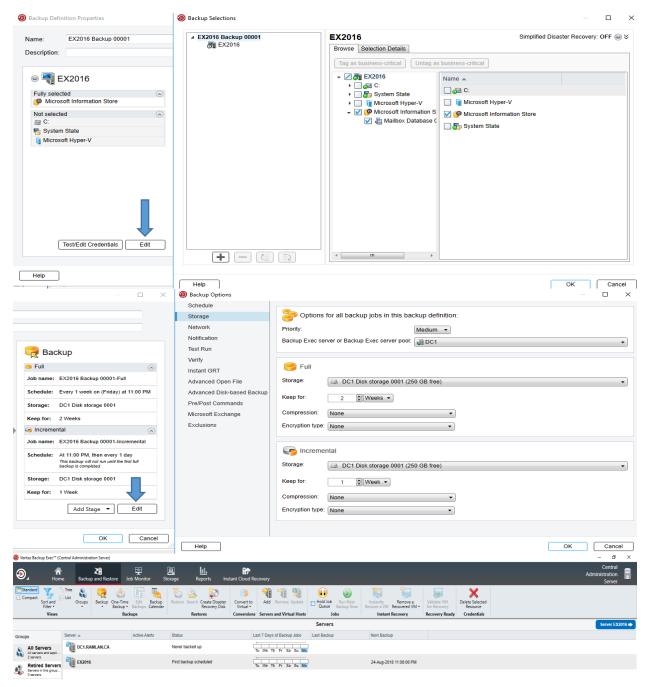
Finish

lame	Logon Account	Credential Status	Date Last Attempted		Test All
1 EX2016	System Logon Account	Success	20-Aug-2018 11:46:31		est Selecte
		•	2		
C:	<use ac="" logon="" server's="" td="" 🔻<=""><td>Success</td><td>20-Aug-2018 11:46:34</td><td></td><td>lete Selec</td></use>	Success	20-Aug-2018 11:46:34		lete Selec
Page System State	<use ac="" logon="" server's="" td="" 🔻<=""><td>Success</td><td>20-Aug-2018 11:46:40</td><td></td><td>Cancel Tes</td></use>	Success	20-Aug-2018 11:46:40		Cancel Tes
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	111			•	

Backup Job Creation:

Ø Veritas Bacl	ckup Exec** (Ce	entral Administrat	ion Server)											-	ø ×
وی	A Home	e Backup	and Restore	Job Monitor :	E LI. Storage Reports I	nstant Cloud Recov	iry							Adminis	Central tration Server
Standard		Tree List Groups			Restore Search Create Disaste Recovery Disaste Recovery Disaste	Convert to Virtual •	Idd Remove Update		Run Next Backup Now		Remove a Recovered VM • t Recovery	Validate VM for Recovery Recovery Ready			
				ouckaps	inchores .	contraining pe		Servers				necorery neady		Se	erver EX2016 🔿
Groups		Server 🔺		Active Alerts	Status	Last 7	Days of Backup Jobs	Last Backup)	Next Back	qu				
All Server	vers and appli	C1.RA	MLAN.CA		Never backed up	Tu	/e Th Fr Sa Su M	2							
	red Servers	1 EX2016			Never backed up	Tu	/e Th Fr Sa Su M	2							

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.

D A Home	Backup and	d Restore Job	Monitor St	orage	Reports Ir	nstant Cloud Re	covery								Adı	ministration Server
Standard Compact Sort and Filter - Views		Restore backup set created by this job Restores	s Edit Delet	e Cancel Prior	nity Run Hole Now Jobs	d Test Job Run Activity	View Job History Now	View Job Log	View Job History Job History	olicate Verify Edi Back	t up					
								Jobs -	2 Items							
ne 🔺	Server EX2016	Backup Exec	Storage				Job Status		Byte Count Start	Time up-2018 11:00:00 P	Schedule M Every 1 week o	Selectio		Data Retention	Priority Medium	
								Job Historie	es - 2 Items							
	Server	Backup Exec	Storage	Created On	Job Type	Job Status	Percent Complete			sed Time Byte Cou	nt Job Rate	Error Code	Deduplication Ratio	Selections	Backup Metho	d
	Server EX2016	DC1		Created On Central Admin Central Admin	Install	Job Status & Successful & Successful	100%		End Time + Elap 20-Aug-2018	sed Time Byte Cou 00.04:52 0 By 00.00:36 0 By	tes	Error Code	Deduplication Ratio	Selections	Backup Metho	d
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1015 Agent for Word. figure Dask Blonge tas Backup Exec [®] (Centra Home Home Inderd Sitter and Sitter and Sitter Sitter Sitt	EX2018	DC1 DC1 Server) d Restore Job Restore backup set created by this job Restores	DC1 Disk stor Monitor Sto Edit Delet	Central Admin Central Admin orage ie Cancel Prior	install Storage o Reports In Reports In Now Jobs	Successful Successful Successful Instant Cloud Re Instant Run Acduit	100% 100% Covery View Job Fistory Ran Now	Start Time 20-Aug-2018 28-Aug-2018 28-Aug-2018 View Job Log Delete Job Log	End Time ~ Elap 20-Aug-2018 20-Aug-2018 Ven Job Enror Job History Job History	00.04.52 0 By 00.00.36 0 By alcate Verify Edi Back	tes tes tes				Ad	– Ø Central ministration
to 16 Agent for Wood. figure Disk Storage tas Backup Exec [®] (Centra Home Indard Softer * Views	EX2018 Administration S Backup and Backup and Calendar Backups Server	DC1 DC1 Server) d Restore Pestore backup set created by this job	DC1 Disk stor Monitor Sto Edit Delet	Central Admin Central Admin orage ie Cancel Prior	Install Storage o Reports In Reports In Reports In Now Jobs Job Type	Successful Buccessful	covery View Job Run	Start Time 20-Aug-2018 20-Aug-2018 20-Aug-2018	End Time ~ Elap 20-Aug-2018 20-Aug-2018 Ven Job Enror Job History Job History	00 04:52 0 By 00 00:36 0 By Sicate Venity Ed	tes tes tes		Selections -	Data Retention	Ad	– Ø Central ministration
At a gent for Wind. Itigure Disk Storage tas Backup Exec [®] (Centra At a Backup Exec [®] (Centra Filter * Views At a Backup Monthered At a Backup Month	EX2016 I Administration S Backup ann Backup ann Backup ann Calendar Backups Server EX2016	DC1 DC1 Server) d Restore Job Restore backup set created by this job Restores	DC1 Disk stor Monitor St Edit Delet Server Storag	Central Admin. Central Admin.	install storage e Reports III Reports III Now Jobs Job Type Backup	Successful Successful Instant Cloud Re Test Run Achine State	100% 100% COVERY View Ich History Job Status	Bitart Time 20-Aug-2018 20-Aug-2018 20-Aug-2018 View Job Log Job Log Job S - 4 Byte Count	Ent Time - Elap 20-Aug-2018 20-Aug-2018 View Job Factory Job History Aub History Start Time	00.04.52 0 By 00.00.36 0 By slicate Venity Edit	646 649 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Selections Microsoft Information	Data Retention Store	Ad Priority Medium	– Ø Central ministration
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Area the Vind. Infigure Das Biorage Itas Backup Ese?" (Centra Infigure Das Biorage Infigure Das Biorage Infigure Das Biorage Views EX2016 Backup 00001 © EX2016 Backup 00001	EX2016 I Administration S Backup and Backup and Ba	DC1 DC1 Eerrel Restore Job Restore Job Restores Backup Exec	DC1 Diek stor Wonitor St Edit Delet Server Storag @DC	Central Admin. Central Admin.	Install Storage 0 Reports In Reports In Now Job Type Backup Full backup Full backup	Resourcessful Resourcessful Instant Cloud Re Instant Cloud Re Resourcessful State State	1994 1095 COVERY View Job View Job View Job Status G Schedule	Start Time 20-Aug-2018 20-Aug-2018 20-Aug-2018 View Job Log Understand Detes Detes Byte Count d	Ent Time - Elap 20-Aug-2018 20-Aug-2018 View Job Factory Job History Aub History Start Time	Schedul	646 649 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 PM	Selections Microsoft Information	Data Retention Store Store 2 Weeks	Ad Pronty Medum Medum Medum	– Ø Central ministration
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Storage Status:

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

Contras backap exec (central Hammaraaan berrei)						
		torage Reports Ins	stant Cloud Recovery			Central Administration Server
Compact Filter *	qure Configure Delete	Share Inventory Catalog Inve	alog now			
Views State	Conniquie	Storage Operation	ins media operations	All Storage		DC1 details 🔿
				All Storage		DC1 details
Name 🔺	State	Storage Type	Active Alerts Storage Trending	Capacity	Active and scheduled jobs Average job rate Compression	
DC1 Central Administration Server	Online	Central Administration Server	▲ 0 ⁴			
DC1 Disk storage 0001 This storage is available on DC1 Server	Online	Disk storage	History of used disk spa	ce i 125 MB used of 250 GB	₩ 2 backups	

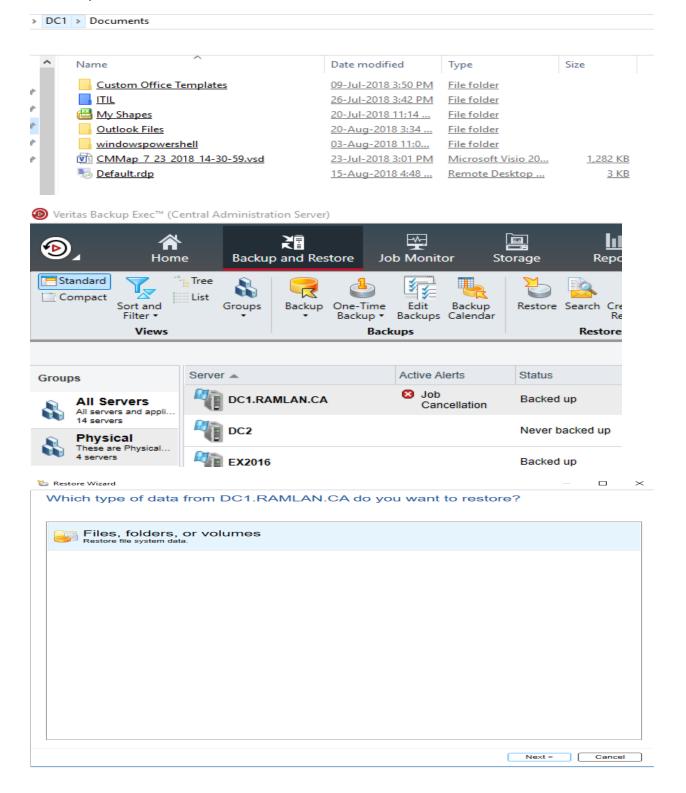
Establish Trust:

Select the server – right click and select Establish Trust

Jentos backap exec	- (Central Administra	den server,		
, ړو	fome Backu	P and Restore Job Monitor :	Storage Reports In	Instant Cloud Recovery
Compact Sort an Filter	• • •	Backup One-Time Edit Backup Backup Backups Calendar		k Virtual • Queue Backup Now Recover a VM
Vier	NS	Backups	Restores	Conversions Servers and Virtual Hosts Jobs Instant
				Servers
Groups	Server 🔺	Active Alerts	Status	Last 7 Days of Backup Jobs Last Backup Next Backup
All Servers			Never backed up	
All servers and ap	pli			Backup
Discontent			Never backed up	Edit Backups
These are Physical 4 servers	ы		Never backed up	Hold Job Queue
Virtual Serve	ers		rever backed up	Run Next Backup Now
These are Virtual 10 servers	VVI		Never backed up	
Retired Servers in this gro			blauer ha sked up	Restore
0 servers	с м 2		Never backed up	Search
	📄 МВАМ		Never backed up	Instantly Recover a VM
				Remove a Recovered VM
	мо 🇊		Never backed up	Validate VM for Recovery
	i oos		Never backed up	Validate VIV for Recovery
				Convert to Virtual Machine from Point In Time
	E SFB		Never backed up	Remove
			Never backed up	Update
				Establish Trust

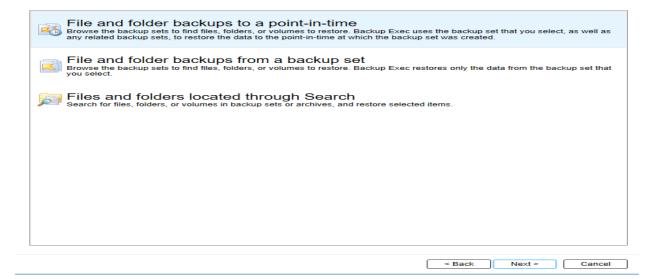
Restore Files or Folders:

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.



늘 Restore Wizard

What do you want to restore?



Ъ Restore Wizard Х What files and folders do you want to restore? Test/Edit Credentials Show backups from: 21- 07 -2018 to: 21- 08 -2018 Resource View Details View DC1.RAMLAN.CA Name 🔺 Size Туре Modified Time 🖳 C: CMMap_7_23_... 1.25 MB 23-Jul-2018 3:01:39 PM 20-Aug-2018 3:16:16 PM (Snapshot Full) Custom Office... File Folder 09-Jul-2018 3:50:38 PM 🗸 🗾 🚞 Users 🗕 🗾 🗀 Administrator Default.rdp 2.17 KB 15-Aug-2018 4:48:28 PM 🗸 🖊 🚞 Documents 🔲 🗋 desktop.ini 402 Bytes 16-Aug-2018 1:29:01 PM Custom Office Templates V Final Resume -... 27.9 KB 26-Jun-2018 9:09:39 AM Outlook Files Image: 📃 🚞 Outlook Files 786 KB File Folder 20-Aug-2018 3:08:04 PM Downloads windowspower... 4.37 KB File Folder 03-Aug-2018 11:07:14 AM 20-Aug-2018 3:01:30 PM (Snapshot Full) 111 111

 $\Box \qquad \times$

🐚 Restore Wizard	_		×
What files and folders do you want to restore?			
Show backups from: 21- 07 -2018 to: 21- 08 -2018 Resource View Details View	Test/Edit	Credenti	als
Selections for DC1.RAMLAN.CA Logon account: System Logon Account		5	
Include - C:\Users\Administrator\Documents\Final Resume - Support.docx			
🦢 Restore Wizard	_		×

Where do you want to restore the data?

To the original location

				tion

Drive:		
Example: \\server\dri	ve:	
Path:		Browse
Example: \path		
Server logon account:	System Logon Account	Add/Edit
	files from a volume that has Windows deduplication, Backup Exec places the files on the disk as no re that you have enough disk space to restore the non-deduplicated data before you run a restore jo ECH204775	
	rected restore, you may not be able to restore some file system attributes from the original data. For now Backup Exec treats the file system attributes for different types of file systems, see: TECH20596	
Microsoft Virtual Hard	Disk (Windows Server 2008 R2 or later)	
	ard Disk for redirected data	
Create a differe	nt 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	3
VHD file name:		

What happens if I restore to a Virtual I	Hard Disk?
--	------------

< Back	Next >	Cancel

造 Restore Wizard

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	
Restore Wizard				×
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 a 	nd directories			

Ъ Restore Wizard

- \Box \times

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

	commond before and/o	r after the restore							
	command before and/o								
	command to run before command to run after th								
					4				
	n job only if pre-commar	exit codes of the commands	to determine in t	ne command	us completed st	Iccessiu	iy		
		pre-command is successful							
📝 Ru	n post-command even if	job fails							
Cancel	command if not complet	te within 30 🕀 minute:	s						
Run the	ese commands:								
0	On this Backup Exec s								
-	On each server restore	ed to							
Notificat									
Select e	each recipient to notify w	hen the job completes.							
Recipi	ent Name 👻	Recipient Type					Manag	e recipients	<u> </u>
R R	am	Recipient					Pr	operties	
Inclu	de the job log in email n	otifications							
Which opt	ions should I select for th	he additional tasks?			< Back	Ne	xt >	Cance	•
🐌 Restore	Wizard								\times
What	job name and s	schedule do you v	vant to us	e?					
Name:	DC1.RAMLAN.CA Res	store 00001							
Schedule:	Run now								
	Run on: 20- 08 -2	2018 3:31 PM							
	Create without a so	chedule							
	Options								
	Schedule Queue								
			🔋 hours after i						
			_						
	Cancel the job	if it is still running 0	hour after its s	scheduled sta	art time				
	Submit job on hold								
					< Back	Ne>	t >	Cancel	

ata to restore		\approx
Restore:	Files, folders, or volumes	
ype of data		
Туре:	File and folder backups to a point-in-time	
elections		$\hat{\sim}$
<u>C:</u>		
Include - Users\Administrator\Documents\Final Resume - Supp	ort.docx	
ocation to restore to		\approx
Restore to original location:	Yes	
ile 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	
perating 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	
dditional 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	
ob name and schedule		
Name:	DC1.RAMLAN.CA Restore 00001	
Schedule:	Run Now	
Submit job on hold:	No	

Ø Veritas Backup Exec™ (Central Administration Server) LIL Reports Â 淵 Storage Instant Cloud R 쎀 Sort and Filter • Run View Delete View Ob Error Dollarte Viety Edit Now Job Log Delete View Ob Error Dollarte Viety Edit History Handrog Deletate Viety Edit Job History Restore backup stats created by this job Ŀ Compact Backup Calendar Backups Jobs Views Restores Jobs - 5 Items Name 🔺 Backup Exec Server Storage Job Type State Job Status Byte Count Start Time Schedule Server Data Reter Priority 👻 🔫 EX2016 Backup 00001 EX2016 Backup Medium 🖾 DC1 Disk storage 0... Full backup Scheduled 🕒 Scheduled 24-Aug-2018 11:00:00 PM Every 1 week on (Friday) at 11:00 PM EX2016 Backup 0000... EX2016 2 Weeks Medium () Scheduled EX2016 Backup 0000... EX2016 BC1 Disk storage 0... Incremental backup 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 Scheduled Scheduled 2 Weeks 1 Week COLTRAMILAN.CA Bac... DC1.RAMILA... BC1 Disk storage 0... Full backup 27-Aug-2018 3:00:00 PM Every 1 week on (Monday) at 3:00 PM Scheduled Medium DC1 Disk storage 0... Incremental backup Scheduled
 Restore Active 21-Aug-2018 11:00:00 PM Every 1 week on (Tuesday) at 11:00 PM Medium C1.RAMLAN.CA Restore 0... DC1.RAMLA... DC1 Active: Running - Initializing 0 Bytes Run Now Medium

🕞 Reply 🛛 🖓 R	seply All 😋 Forward 🚓 IM
	Mon 20-Aug-2018 3:41 PM
	administrator <administrator@ramlan.ca></administrator@ramlan.ca>
	Backup Exec Alert: Job Success (Server: "DC1") (Job: "DC1.RAMLAN.CA Restore 00001")
To Ram	
BEX_DC 23 KB	1_00029.htm +

(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

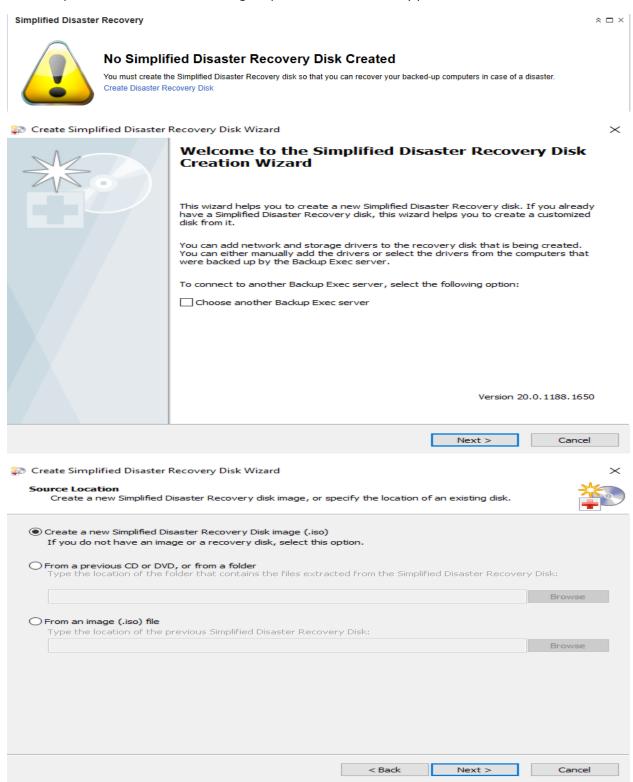
Job ended: 20-Aug-2018 at 3:41:00 PM Completed status: Successful

> DC1 > Documents

^	Name	Date modified	Туре	Size	
*	Custom Office Templates	09-Jul-2018 3:50 PM	File folder		
		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		
*	windowspowershell	03-Aug-2018 11:0	File folder		
*	CMMap 7 23 2018 14-30-59.vsd	23-Jul-2018 3:01 PM	Microsoft Visio 20	<u>1,282 KB</u>	
	befault.rdp	15-Aug-2018 4:48	Remote Desktop	<u>3 KB</u>	
	Final Resume - Support.docx	<u>26-Jun-2018 9:09</u>	Microsoft Word D	<u>28 KB</u>	

Simplified Disaster Recovery:

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



rosoft Assessment and Deployment Kit up The Microsoft Assessment and Deployment Kit(A		
Deployment Kit (ADK 10) must be installed	ery Disk image (.iso), the Microsoft Windor on your computer. Click Next to launch the ly 3 GB of data will be downloaded from th	e ADK installation prog
	ed for you. It is recommended that you do covery Disk wizard is hidden until the ADK	
Please save any data and close ope installation.	nfiguration may change and a restar n applications before you continue v Simplified Disaster Recovery Disk V	with the ADK
Why ADK? Click here for more information		
I understand the ADK installation requ	irement	
	< Back Next	> Cance
ows Assessment and Deployment Kit - Windows 10		
• Install the Windows Assessment and Deploym	ent Kit - Windows 10 to this computer	
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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
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😸 Windows Assessment and Deployment Kit - Windows 10

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Back Accept Decline

Windows Assessment and Deployment Kit - Windows 10

Select the features you want to install

Click a feature name for more information.

Application Compatibility Tools		Application Compatibility Too	s
Deployment Tools		Size: 7.2 MB	
☑ Windows Preinstallation Environmen	nt (Windows PE)	Tools to help mitigate application compatibi	lity issues.
Imaging And Configuration Designe	r (ICD)	Includes:	
Configuration Designer		includes.	
User State Migration Tool (USMT)		 Compatibility Administrator Standard User Analyzer (SUA) 	
Volume Activation Management Too	ol (VAMT)		
Windows Performance Toolkit			
Microsoft SQL Server 2012 Express			
Microsoft User Experience Virtualization	tion (UE-V) Template		
Microsoft Application Virtualization	(App-V) Sequencer		
Media eXperience Analyzer			
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<	>		
		Back Install	Cancel

- 🗆 ×

😸 Windows Assessment and Depl	pyment Kit - Windows 10		-
Welcome to the Windows 10!	e Windows Assessment a	nd Deployment Kit	: -
	the Windows Assessment and D the Windows ADK documentation on M		
			Close
💱 Create Simplified Disaster	Recovery Disk Wizard		×
Startup Options Specify startup options f	or the custom Simplified Disaster Recove	ry Disk	
Platform for which to create	the Disk Image (iso):		
64-bit Time zone:	(UTC-05:00) Eastern Time (US & Canad	(=)	~
Language:	English		~
Automatically start netwo	rk services		
		< Back Next >	Cancel
款 Create Simplified Disaster	Recovery Disk Wizard		~
Select computers to use Select computers from w	the drivers from hich to add the network drivers and stor	age drivers.	
Select the 64-bit computers f OEM drivers, dick Next.	rom which to use the network drivers and	d storage drivers. However if y	
64-bit computers backed up b			
Computer Name 🔻	Operating System		
Backup	s for which Simplified Disaster Recovery i	s enabled have not been run.	
To create a 32 bit ou	stom Simplified Disaster Recovery Disk, c	lick Back and select 32-bit so th	e platform for the
Recovery Disk Image	(iso) to be created.	and pack and pelect provides th	e placionin for the

< Back Next > Cancel

Create Simplified Disaster Recove	ny Disk Wizard	~
D create simplified Disaster Recove	y blac milling	~
Drivers to Include Select the network drivers and s Recovery Disk.	torage drivers that you want to include in the custom Simplified Disaster	×
Drivers List:		
Name Version Da	te time System Name	
Create Simplified Disast	ter Recovery Disk Wizard X	
A newer or	same version of this driver already exists in the database or	
discrepancy	/ list	
	ОК	
	OK	
To add a potwork driver or a	starsage driver, dick the Add Driver butten, and then powigate to the loca	tion of the
driver.	storage driver, click the Add Driver button, and then navigate to the loca	aon or the
	Add Drive	r
I tried to add ASUS Server network driver.		
ISO package already has the newer or sam	e version. < Back Next >	Cancel
		Curreer
Contractional Disease Deserved	- Disk Weesed	~
Create Simplified Disaster Recover	y Disk Wizard	\times
Select Location for CD Image. Specify a location to store the bo	otable image until you burn a CD/DVD.	7400
An ISO 9660 CD image file v	vill be created.	
Most CD/DVD image burning	applications require the image to be on the same computer to prevent un	nderrun
problems during the burn.		
	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 Exe		
C. Program nies (ventas (backup Exe	B	owse
	< Back Next >	Cancel
		Cancer
🐲 Create Simplified Disaster Recover	or Dick Withord	\times
Summary Review your selections before yo	ou start the image creation process.	20
Image		
Disk label	: Custom SDR Bootable CD	\sim
Platform	: AMD64	
Source Destination CD image	: Will be extracted from the Microsoft Windows : C:\Program Files\Veritas\Backup Exec\S	
Destination CD image	C. (Program Files (Ventas (Backup Exec (S	
Startup options		
Timezone Language	: (UTC-05:00) Eastern Time (US & Canada) : English	
Keyboard layout	: English (0409:00000409)	
Automatically start network services	: Yes	
Selected drivers	me Version	Date
		\sim
<		>
	< Back Create Image	Cancel

🐲 Create Simplified Disaster Recovery Disk Wizard

Creating the custom Simplified Disaster Recovery Disk image



Status: Copying necessary VC runtin	
Creating a new Simplified Dis	aster Recovery Disk image
Setting up environment Copying Windows PE files	
Mounting Windows PE image	
<	>
Mounting Windows PE image	
	Cancel
Consta Cinculified Discotory	Personal Disk Wisserd
Create Simplified Disaster I	kecovery Disk Wizard
Creating the custom Sim	plified Disaster Recovery Disk image
Status:	
Installing System Recovery E	Environment Modules
Installing language pack and Installing Simplified Disaster	Recovery Module
Unmounting Windows PE ima	ge
Staging Simplified Disaster R	ecovery Disk files
Updating Simplified Disaster I Building media and changer t	Recovery Disk files
Creating registry hives Finalizing the staging process	
Compressing the final image	
Staging process is completed Creating bootable image file	structures
Creating Simplified Disaster F 572522496 byte CD Image v	Recovery Disk bootable image
C:\Program Files\Veritas\Bac	kup Exec\SDR\CustomSDRImage0001.iso
<	>
Finished	
	Next >
🐲 Create Simplified Disaster I	Recovery Disk Wizard X
Create Simplified Disaster	
0	Simplified Disaster Recovery Disk CD image
	successfully created.
	Burn the following bootable ISO 9660 image to a CD/DVD using a third party image
	burning application.
	Image file:
	C:\Program Files\Veritas\Backup Exec\SDR\CustomSDRImage0001.iso
	Finish

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.

Veritas Backup Ex	ec~16	VERITAS
Veritas Backup Ex	End User License Agreement UPERITAS TECHNOLOGIES LLC AND/OR ITS APPLIATES (VERITAS') IS WILLING TO LICENSE THE LICENSE SOFTWARE LICENSE AGREEMENT VERITAS TECHNOLOGIES LLC AND/OR ITS APPLIATES (VERITAS') IS WILLING TO LICENSE THE LICENSE SOFTWARE TO YOU AS THE INDIVIDUAL THE CONTON THAT YOU REFERENCED BELOW AS 'YOU' OR 'YOUR') ONLY ON THE CONTON THAT YOU ACTION ALCO'NT UTENDE OF THE METRIC FOR THAT LICENSE AND COLLECTIVELY. THE 'LICENSE AGREEMENT'S READ THE TENDS AND COLLECTIVELY THE 'LICENSE AGREEMENT'S READ THE TENDS AND LICENSE SOFTWARE THIS & ALEGAL AND DEPROGREEMED CONTINUE TERMENT AND THE 'LICENSE AGREEMENT'S READ THE TENDS AND LICENSES SOFTWARE THE'S A LEGAL AND DEPROGREEMED CONTINUE TERMENT	VERITAS
	VOL AND VERITAS. BY OPENIAG THE LICENSED SOFTWARE PACKAGE. BREAKING THE LICENSED SOFTWARE SAL, CLICANG THE 1 AGREE OF YHE'S BUTTON, OR OSTTWARE OR OTHERWISE USING THE LICENSED SOFTWARE, YOU AGREE TO SOFTWARE OR OTHERWISE USING THE LICENSED SOFTWARE, YOU AGREE TO THE TERMS AND CONDITIONS OF THIS LICENSED SOFTWARE, YOU AGREE TO WARNING: THIS SOFTWARE CONTAINS A MICROSOFT SECURITY FEATURE THAT WILL CAUSE YOUR SYSTEM TO REBOOT WITHOUT PRIOR NOTIFICITON AFTER 27 AUGUS OF CONTINUOUS USE.	
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In the Recovery tab choose "Recover This Computer".

Veritas Backup Exec™16		VERITAS
کا ایک کا ایک کا	up Exec ^{***} 16 Simplified Disaster Recovery Disk	
	Welcome to the Simplified Disaster Recover Disk Overy This recovery disk guides you through the steps that are required to recover your Windows computer to a specific date and time. To successfully recover the backed up data can be located locally on this computer or on a remote Backup Exec server. ties The Cover This Computer Recover This Computer to a specific date and time when it was working correctly.	
Help	(UTC-05:00) Eastern Time (US & Canada) Exit	
	Copyright [©] 2016 Veritas Technologies, LLC. All rights reserved.	

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 <u>https://www.veritas.com/docs/000012248</u>

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



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.

Bockup Exec [®] 16 Simplified Disaster Recovery Disk Exec [®] 16 Simplified Disaster Recovery Disk Exec Server This Computer Wizord To which Backup Exec server do you want to connect?	
Backup Exec server: SERVER_NAME Domain: If the Backup Exec server belongs to a workgroup, a domain is not required. User Name: Administrator Password: ••••••••••	
Configure network adapter settings Load network adapter drivers What should I do if I cannot connect? < Back	
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Select the server and the point-in-time to be recovered and click Next.

Veritas Backup Exec™16	VERITAS
Backup Exet** 16 Simplified Disaster Recovery Disk Image: Computer Wisard Image: Recover This Computer Wisard Image: Computer Wisard Which backup sets do you want to use to recover the computer? Select a Computer: NBUPSERV Point in time: Image: Latest (Pesterday 3:1009 PM) Disk NBUPSERV Backup 00016-Full Image: Media Label Backup Date/Time Recover the entire computer with this point-in-time backup set Image: Media Label Backup Date/Time Required Backup Sets Image: Discourse for point in type 1/28/2016 3:11:18 PM Image: Discourse for point in type 20000076 Image: Media Label Backup Date/Time Required Backup Sets Image: Discourse for point in type 2016 3:11:18 PM Image: Discourse for point in type 2016 3:22:52 PM Image: Discourse for point in the eartire computer? Vite of I dont want to recover the entire computer? Vite of I dont want to recover the entire computer?	
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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.

Veritas Backup Exec™16	VERITAS
Backup Exet** 16 Simplified Disaster Recovery Dalk Recover This Computer Wizard Do you want to use this volume layout for the selected backup sets? Volume Preview Volume Type Original Volume Size New Volume Size Disk 0 - Basic MBR (Total: 80.00 GB, Free: 0.00 Bytes) System Reserved System, Active 100.00MB 100 MB 79.90 GB Fase hard data and recreate the volume layout shown above. Load Storage controller drivers	
Existing data on these data will be lost. Existing data on these data will be lost. Should I change the volume layout? Copyright © 2016 Veritas Technologies, LLC. All rights reserved.	

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

Veritas Back	up Exec~16	VERITAS
	Backup Exec [®] 19 Simplified Dasater Recovery Disk Z2 Recover This Computer Waard Do you want to use this volume layout for the selected backup sets? Volumes Recover This Computer Waard Volume(c) C: will be deleted from the disk. Make sure that these Volume(c) ore not configured as a disk storage location for another Bockup Exec server. OK Cancel	
	Erse hard disks and recreate the volume layout shown above. Load Storage controller drivers Advanced Disk Configuration	
	Should I change the volume layout? < Back Next > Cancel	
	Copyright © 2016 Veritas Technologies, LLC. All rights reserved.	

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

Veritas Backup Exec™16		VERITAS
	Type Created On Media Label all 111/28/2016 3:11:18 PM B2D000076 all 111/28/2016 3:22:52 PM IMG000032	
	< Back Recover Cancel	lα.
Veritas Backup Exec™16		VERITAS
Volumes th Nam C: Backup set C: System Sta C: System Sta	Bary Dis Computer Wizard ECENTIAS O MB J-90 GB drue titer changes refore particular statement provide statement provide statement provide statement drue titer changes refore particular statement provide statement <th></th>	
Copyright	t © 2016 Veritas Technologies, LLC. All rights reserved.	

Veritas Backup Exec™16	VERITAS
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Recover	et ^m 16 Simplified Disaster Recovery Disk This Computer Wizard ring data			
The rest Victors Constraint Backup is Backup is Job Name Media La Setti	t created on 11/28/2016 3: 11:18 PM Restore 00004 I Media created 11/28/2016 3: 10:28 PM I . Vywnint-Kdostac-(c:	Media No.: Total Bytes:		
Directory File:	(920 920000005.bkf Copyright © 2016 Veritas Techno	ologies, LLC, All	Next Cancel	

ritas Bac	kup Exec™16	VERITAS
	Backup Exec ^m 16 Simplified Disaster Recovery Disk	
	Recover This Computer Wizard Restoring data	
	Scheduling Restore Job \WBUPSERV\C:	
	Scheduling Restine Job (VRI2)/SSEVC: The rester less been redirected to (\wwwnf-fd0st8cVC: Varing for Job to Start, SSEVER Jonacov	
	set created on 11/28/2016 3:11:18 PM	
	Job Name: Restore 00004 Media Label: Media oreated 11/28/2016 3:10:28 PM Set: [1	
	Destination Niwson-Ed0stBclyC: Total Bytes: 8973 MB Directory: (920 1920 <td></td>	
	Piext Cancel	
	Copyright © 2016 Veritas Technologies, LLC. All rights reserved.	
itas Bac	kup Exec™16	VERITAS
	Backup Exec** 10 Simplified Disaster Recovery Disk [22] Recover This Computer Waard	
	Restoring data	
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	Directory: (Program Files (x86))Common Files(VMware VMRC Plug-in/Unternet Explorer File: gvmomi.dll	
	Téxt Cancel	
	Copyright Θ 2016 Veritas Technologies, LLC. All rights reserved.	
itas Bac	kup Exec™16	VERITAS
	Backup Exec th 16 Simplified Disaster Recovery Disk	
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	Scheduling Restore Job (WBUPSERVIC: The restore has been redirected to \minint-f00st8c\C: Water of no ab cstart.	
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	Backup set created on 1/28/2016 3:11:18 PM Job Name: Factor 60004 Media Label: Media created 11/28/2016 3:10:28 PM Set: I I Media No.: I	
	Backup set created on 11/28/2016 3:11:18 PM Job Name: Restore 00004 Media Label: Media created 11/28/2016 3:10:28 PM	
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ritas Backup Exec™16	VERITAS
😼 Backup Exec ²⁴ 16 Simplified Disaster Recovery Disk	3
Recover This Computer Wizard	
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Backup set created on 11/28/2016 3:22:52 PM Job Name: Restore 00005	
Media Label: JM6000032 Set: 1 Destination: \VVBUPSERV\System?State Total Bytes: DMB	
Directory: File:	
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Rackup Exec** 16 Simplified Disaster Recovery Disk	
Restoring data	
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Diesunauouni, fyminint-rouosocysystem/state Totalisytes: M02 MD Directory I (System Files File: System Files	
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Recover This Computer Wizard	
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Status is Running Status is Successful Status is Successful	
Schedung Reatore Job (WBUPSERVlSystem/State The restore has been redirected to (minint-fd0st8c(System/State Waiting for Job to Start. Statusis Running	
A Backup set created on 11/28/2016 3:22:52 PM	
Job Name: Restore 00005 Media Label: Media created 11/28/2016 3:10:28 PM	
Set: I Media No.; I Destination: \l\minitchdot8cl\$ystem?State Total Bytes: 26337 MB Directory: System Files V V	
File: System Files	
Next Cancel	1
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When the restore is finished restoring the files and System State it will then go through a Hardware Discovery.

Veritas Back	up Exec™16		VERITAS
	Backup Exec" 16 Simplified Disater Recovery Disk Accover This Computer Wizord Hardware Discovery Hardware discovery operation in progress	् स्व विक्र	
	Do I need drivers for inactive controllers?	Mext Cancel	
	Copyright [©] 2016 Veritas Technolo	gies, LLC. All rights reserved.	

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

Veritas Bacl	kup Exec™16	VERITAS
	Bockup Exc** 16 Simplified Dataster Recovery Data Compared This Computer Water Computer Visual Computer Computer Contains multiple hard data, ensure that the computer's BIOS is configured to start the computer from the hard data that contains the Windows operating system. On many computers, the BIOS menu can be accessed by priceing P2 of DEL on the computer's BIOS is configured to start the data data that contains the Windows operating system. On many computers, the BIOS	
	Regtart this computer View 'Becover This Computer Wizard' log	
	Enish	
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HardwareDiscovery_000.log - N		1 1 23
File Edit Format View Help	, 7240000Z Main Thread(1020)	
~ 2016-11-29118:28:12.	/2400002 Main Inread(1020)	1
Stanting Application D	aburg Log	
BEDRWIZ_000.log - Notepad		
File Edit Format View Help		
$ \begin{bmatrix} 11765 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:26:26 \\ 11776 \\ 11/29/2016 \\ 12:28:22 \\ 11776 \\ 11/29/2016 \\ 12:28:22 \\ 11776 \\ 11/29/2016 \\ 12:28:22 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20 \\ 12:38:20 \\ 12:38:20 \\ 11776 \\ 11/29/2016 \\ 12:38:20$	CBedrwizPropSheets::DoPreProcessing() - Info: SCSI Controll. CBedrwizPropSheets::ProcessKnownNetBusEnumlist() - Cannot op- SetSSLCertificatesPath() - Info: Successfully set the registi Recovery Method - Remote Recovery (0) CPageConnectToMediaServer::OhlizardNext(DLO-6, NBUPTEST\Admin Info: Successfully connected to the BE server resource: \\DD Info: Version of Backup Exec server connected: 16.0 CPageConnectToMediaServer::CHMediaServerNoPPort - Exit CPageConnectToMediaServer::CHMediaServerNoPPort - Exit CPageConnectToMediaServer::CetMediaServerNoPPort - Successfully : CPageConnectToMediaServer::CetMediaServerNoPPort - Successfully : CPageConnectToMediaServer::CetMediaServer::)LT

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:

Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery					Adr	Central ninistration Server	
One Two Namow/Wide Three Rest Ø Active Allents Ø Storage Status Ø Database Encryption Key Decknical Sup One Two Namow/Wide Three Rest Ø Active Allents Ø Database Encryption Key Decknical Sup Decknical Sup Ø Database Encryption Key Ø Database Encryption Key Decknical Sup Decknical Sup Ø Database Encryption Key Ø Database Encryting Ø Database En	port Installation and Upgrad in rmation ISS Reader Support	les					
	Alert History					8 🗆 X	
Configuration lasks ×	Severity: All	Source: All	Time: Last 12 hours	•		× L ×	
Critical settings are configured. Additional action is required to correct the iter	15	Category		Date and Time Respo	onse Response Time	e Res	
that are marked with a warning.	Seveniy A	Calegory	message	Date and Time Respo	Response Time	e Pres	4
Critical Tasks: 0 Warning Tasks: 1 Informational Tasks: 1							
View configuration task details.							
Virtual Machine Backups			No alert history it	ems exist.			
Virtual machine backup status not available							
	n ×						
Disk-based Storage							
12.5 GB used of 250 GB	Licensed Capacity Us	age Status				× 🗆 ×	
Item annalis 🤍 Total capacity: 250 GB							
Alexa Miller of Blancher Bassan				12 GB used			
Simplified Disaster Recovery	•× () •	The c		ased on servers backed up in the	past 30 days.		
				View Details			
The Simplified Disaster Recovery Disk has been created							
The Simplified Disaster Recovery Disk has been successfully created on this server. Create another Disaster Recovery Disk	Backup Status					8 🗆 X	
		You have added multiple servers to	Point and a second				
		Server Status:	o data, up. I form to site section	is of the ple graph to view the state	us of the backup jobs of the	se servers.	
		Successful:	2				
View Installation Summary Report			0				
Documentation *		First backup scheduled:	0				
✓ View ReadMe		Never backed up:	15				
View Administrator's Guide (PDF)	Instant Cloud Recover	ny Status				• — ¥	
@ Veritas Backup Exec [™] (Central Administration Server)						- 0	×
					Adm	Central	
Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery	10.2				Adm	Central inistration Server	
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Home Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery	ort 🗹 Installation and Upgradi n mation SS Reader Support					Central inistration Server	
Forme Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery Image: Column Storage Image: Column Storage Reports Image: Column Storage Image:	mation SS Reader		rces are not config	gured or not initialized		Central inistration Server	
Forme Backup and Restore Job Monitor Storage Reports Instant Cloud Recovery Image: Column Storage Image: Column Storage Reports Image: Column Storage Image:	mation SS Reader Support		rces are not confiç	gured or not initialized		Central inistration Server	
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Ø Veritas Backup Exec™ (Central Adr	ministration Server)										-	a ×
	Backup and Restore	Job Monitor	Storage Reports	Instant Cloud	Recovery						Cent Administrati Serv	on 📑
Compact Sort and Filter -	Backup Restore b	ackup sets Edit (Delete Cancel Priority Rur	Hold Test Ja	b View Job Vity History	Run View Delete View. Now Job Log	ob Error Dup ry Handling	icate Verify Edit Backup				
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						Jobs - 5 Item	5					
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		al 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.RAMLAN.CA			Backup								Medium
C1.RAMLAN.CA Bac	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	Medium
DC1.RAMLAN.CA Bac	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	Medium
WIN10 Agent for Windows In				Install	Scheduled	Ready		20-Aug-2018 3:56:24 PM	Run Now			

							m									
							Job Historie	es - 31 items								
Server	Backup Exec	Storage	Created On	Job Type	Job Status	Percent Complete	Start Time	End Time 👻	Elapsed Time	Byte Count	Job Rate	Error Code	Deduplication Ratio	Selections	Backup Method	
WIN8	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:02:37	0 Bytes						
WIN7	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:02:53	0 Bytes						
DC1.RAMLA	DC1	DC1 Disk stor	Central Admin	Restore	Successful	1005	6 20-Aug-2018	20-Aug-2018	00:00:42	28.2 KB	1.00 MB/min					
EX2016	DC1	DC1 Disk stor	Central Admin	Backup	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:02:02	406 MB	1,106.00 MB/			WEX2016/Microsoft Info	Full	
DC1.RAMLA	DC1	DC1 Disk stor	Central Admin	Backup	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:01:13	3.98 MB	79.00 MB/min			VIDC1.RAMLAN.CA\C:	Full	
DC1.RAMLA	DC1	DC1 Disk stor	Central Admin	Backup	Sanceled Canceled	N/J	A 20-Aug-2018	20-Aug-2018	00:10:23	12.0 GB	1,434.00 MB/			IDC1.RAMLAN.CA\C:	Full	
MBAM	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:00:48	0 Bytes						
VMM	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:00:10	0 Bytes						
SFB	DC1		Central Admin	Install	Successful	1005	6 20-Aug-2018	20-Aug-2018	00:00:09	0 Bytes						
OM	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:00:13	0 Bytes						
OOS	DC1		Central Admin	Install	🙋 Successful	1009	6 20-Aug-2018	20-Aug-2018	00:00:12	0 Bytes						
CM1	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:00:34	0 Bytes						
CM2	DC1		Central Admin	Install	Successful	1009	6 20-Aug-2018	20-Aug-2018	00:00:27	0 Bytes						
CM	DC1		Central Admin	Install	Successful	1005	6 20-Aug-2018	20-Aug-2018	00:00:45	0 Bytes						
	WINB WIN7 DC1.RAMLA EX2016 DC1.RAMLA DC1.RAMLA DC1.RAMLA SFB OM OOS CM1 CM2	WINB DC1 WIN7 DC1 DC1 RANULA. DC1 WINF DC1 RANULA. DC1 VMM DC1 VMM DC1 OM DC1 OM DC1 CM1 DC1 CM2 DC1	WNR DC1 WNR DC1 DC1 AWARA, DC1 DC1 Disk stor MBAM DC1 DC1 Disk stor MBAM DC1 DC1 Disk stor OOS DC1 DC1 Disk stor OOS DC1 DC1 Disk stor CM4 DC1 DC1 Disk stor OD1 DC1 Disk stor DC1 Disk stor	WINB DC1 Central Advanc. WIN7 DC1 Central Advanc. DC1 RANLLA DC1 Dict Statut Central Advanc. DC1 RANLLA DC1 DC1 Dick stor. Central Advanc. MDAM DC1 DC1 Dick stor. Central Advanc. VMM DC1 Central Advanc. Central Advanc. VMM DC1 Central Advanc. Central Advanc. VMM DC1 Central Advanc. Central Advanc. OV DC1	WINB DC1 Central Admin Install WIN7 DC1 Central Admin Install DC1 RANLLA. DC1 DC1 Dist stor Central Admin Backup EX2015 DC1 DC1 Dist stor Central Admin Backup DC1 RANLLA. DC1 DC1 Dist stor Central Admin Backup DC1 RANLLA. DC1 DC1 Dist stor Central Admin Backup DC1 RANLLA. 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VERITAS

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These are Virtual Wi 10 servers	PAR		Never backed up		Tu We Th Fr Sa Su Mo				
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Virtual Servers	СМ		Never backed up	Tu We Th Fr Sa Su M	8			
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	SFB		Never backed up	Tu We Th Fr Sa Su M	2			
	VMM		Never backed up	Tu We Th Fr Sa Su Mo	3			
	Details for AGPN	Ŭ.						¥
	52	Backup Source 🔺		Backup Selection	Backup Status	Logon Account		
	48	료 C:		None	Never backed up	Use server's logon acc		
	Windows computer (virtual machine)	G EFI System Partition		None	Never backed up	Use server's logon acc		
		System State		None	Never backed up	Use server's logon acc		
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	Server	Active Alerts	Status	Last 7 Days of Backup Jobs	Last Backup	Next Backup		
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Ø Veritas I	Backup Exec [~] (Central Administra	tion Server)											_	6 ×
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	Views Sta	le	Configure		Storage Operati	ons Me	dia Operations							
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Name +			State	Sto	rage Type	Active Alerts	Storage Trending	Capacity		Active and scheduled jobs	Average job rate Compression			
- ᆒ	DC1 Central Administration Server		Online	Ce	ntral Administration Server									
	DC1 Disk storage 0001 This storage is available on DC	1 Server	Online	Dis	sk storage		History of used disk space i.		12.5 GB used of 250 GB	💘 4 backups				

VERITAS

This concludes the whole process with Veritas Backup Exec.

Thanks

Ram Lan

20th Aug 2018