Huawei Storage and Veritas EV Interoperability Test Report



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1 Environment Configuration

1.1 Networking diagram

Figure 1.1 Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking



Networking description:

The management network and service network are connected to the AD controller, Archive server, Database Server and Huawei OceanStor Pacific Storage through switches.

1.2 Hardware and software configuration

1.2.1 Storage Configuration

Table 1-1 Huay	vei storage	configurat	ion table
Iuoivi illuuv	ver storage	Compara	

Name	Model	Version	Quantity
Storage	Hua wei OceanStor Pacific 9950	8.1.3	1

1.2.2 Matching Hardware Configuration

Table 1-2 Hardware Configuration

Name	description	Quantity
AD Controller	Create the Vault Service account	1
Archive Server	Install the Enterprise Vault and as Windows file server.	1
Database Server	Install the SQL server and hold the configuration information for Enterprise Vault	1
Ethernetswitch	Huawei 6855 10GE Network Switch. 10GE network switch on the Huawei OceanStor Pacific Archive service plane	2

1.2.3 Test software and tools

Table 1-3 Test Software and Tool List

Software Name	description	Quantity
Enterprise Vault 14.3	Set up Enterprise Vault File System Archiving (FSA) to archive files	1
SQL Server 2019	Setup database for Enterprise Vault	1
Windows Server 2019	Setup operation system for AD controller, Archive Server and Database Server.	3

2 Verifying OceanStor Pacific Interconnection with EV

2.1 Adding an S3 Bucket as Partition (Primary Storage) through HTTP protocol

Test Purpose	Adding an S3 Bucket as Partition (Primary Storage) through HTTP protocol		
Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking		
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The Vault Store Group has been created on the EV. 		
Test Procedure	 Right Click on Vault Store in the VAC. Select New Partition, create a new Vault Store Partition Select storage type "Generic Simple Storage Service(S3)" Enter the AK, SK, Service host name (enter IP address or hostname, e.g. http://hostname), Bucket name, Bucket region (defaultRegion), select Bucket access type(Path/Virtual), others can be default Test the connection and complete the configuration 		
Expected Result	 In step 3, the connection is tested successfully. In step 4, the Partition is created successfully. 		
Test Results	 Right Click on Vault Store in the VAC. Select New Partition, create a new Vault Store Partition Select stora ge type "Generic Simple Storage Service(S3)" New Partition Preprint Value on materia Vault Store Partition on various types of Storage too: Preprint Value on materia Vault Store Partition on various types of Storage too: Preprint Value on materia Vault Store Partition on various types of Storage too: Preprint Value on materia Vault Store Partition on various types of Storage too: Preprint Storage Service (S3) Preprint Value on materia Vault Store Partition on various types of Storage too: Preprint Storage Service (S3) Preprint Storage Service (S4) Preprint Storage Service (S4) Preprint Storage Service (S4) Preprint Storage Service (S5) Preprint Storage Storage Storage Storage Storage Storage Storage S		



2.2 Archiving the files to the Partition ((Primary Storage)	
2.2 Them wing the mes to the rarthon ((I Innary Storage)	

Test Purpose	Archiving the files to the Partition (Prima	ary Storage)		
Test Networking	Huawei OceanStor Pacific Storage and	Veritas Enterpri	ise Vault Test Ne	tworking
Prerequisites	 Storage devices, Enterprise Vault s networking have been completed. The storage devices have been co accounts, access certificates, security cer The namespace of the S3 account ha protocol has been enabled. The S3 bucket has been add as Partis The FSA archiving policies has b configured as Internet shortcuts 	server, SQL Sen nfigured success tificates, and serv s been configure ition in section 2. een configured,	ver, AD control sfully. S3 related vice networks) don the storage do .1 and the type of	ler deployment and services (including evices and the object ² shortcut has been
Test Procedure Expected Result	 Add the New Volumes and Volume Complete the Archiving Targets of Archiving Task Select the Archiving Targets and ex After the Archiving is completed, warchive set and that the archive status of archive set have changed to Internet Short After the Archiving is completed, cl In step 4, in the report, the archive set archive set have charged to Internet status 	Folders for Enter configuration an ecute "Run Now rerify that the re- each file is Arch rtcuts neck if the archiv atus of each file	erprise Vault searce ad Start the Ente " in normal mode port lists all the fi ived; check that t ve set is uploaded is Archived. Shortcuts	ch Archiving rprise Vault search les contained in the he documents in the to the S3 bucket
Test Results	 In step 5, the archive set is uploaded Add the New Volumes and Volume Enterprise Vault File Action View Favorites Tools Window Help File Action View Favorites Tools Window Help Console Root Console Root Enterprise Vault Directory on evserver Status (No problems detected) Status (No problems detected) Status (No problems detected) File Servers File Servers File Servers Status (No problems detected) Status (No	Folders for Ente	Policy Name Volume Policy Default F	Ch Archiving Archiving This folder and subfold



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2.3 Retrieving archived file via Enterprise Vault Search (Primary Storage)

Test Purpose	Retrieving archived file via Enterprise Vault Search (Primary Storage)
Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The configuration has been completed Archiving in section 2.2 has been performed.
Test Procedure	 In the VAC, Select Archives ->File System -> Right-click on file ->Search -> Enterprise Vault Search GUI. Select archived file and Right-click ->select Copy to File System -> Original Location. Perform retrieve and observe.
Expected Result	1. In step 2, the Archived file can be identified and displayed from the Enterprise Vault



2.4 Adding an S3 Bucket as Partition (Secondary Storage) through HTTP protocol

Test Purpose	Adding an S3 Bucket as Partition (Secondary Storage) through HTTP protocol
Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The Vault Store Group has been created on the EV. The Vault Store has been created on the EV. The Primary Storage has been created on the EV.
Test Procedure	 Select Primary Storage and right-click to modify the properties Configure the Collections : select Collector "Enterprise Vault", configure the value of "Max collection file size" and the time of "Age at which files will be collected" Configure the Migration : select Migrator "Huawei Object Storage(S3) API", configure the time of "Migrate files older than" and "Remove collection files from primary storage" Configure the Advanced : select No for "Use SSL for control" and "Use SSL for data r/w", Enter the Service host name (enter IP address or hostname), AK, SK, Supported regions (e.g. defaultRegion, defaultRegion, obs.huawei.com), Bucket name, Bucket region (defaultRegion) , select Bucket access type (Path/Virtual), others can be default Test the connection and complete the configuration
Expected Result	 In step 4, the connection test succeeded. In step 5, the Partition create succeeded.
Test Results	 Select Primary Storage and right-click to modify the properties Configure the Collections: select Collector "Enterprise Vault", configure the value of "Max collection file size" and the time of "Age at which files will be collected" Immediate Collection file size and the time of "Age at which files will be collected" Immediate of Vaul Server 1 Refere Very Generative Server Water Frequence - Icol Server Very Generative Server Very Collection Frequence - Icol Server Very Generative Servery Generative Server Very Generative Server Very Generative

3. Configure the Migration: select Migrator "Huawei Object Storage(S3) API", configure the
time of "Migrate files older than" and "Remove collection files from primary storage"
Name Description Status Device Type Rollover Collector Type Migrator Type Colocal Partition of Vault Store vs1 Open NTFS Volume Not Ens Enterprise Vault Huawei Object Storage Status Partition of Vault Store vs1 Ready Generic Simple Storage Service None None
4. Configure the Advanced: select No for "Use SSL for control" and "Use SSL for data
4. Configure the Advanced, select No for Use SSL for control and Use SSL for data r/w'' Enter the Service host name (enter IP address or hostname) ΔK SK Supported regions
(e.g. defaultRegion, defaultRegion, obs.huawei.com), Bucket name, Bucket region
(defaultRegion), select Bucket access type (Path/Virtual), others can be default
Vault Store Partition Properties - local
General Volume Rollover Backup Collections Migration Advanced List settings from: Huawei Object Storage
Setting Value Setting Name: Setting Name:
Service host name obs236.huawei.com Http port 80 Enter a text value for this setting:
Https port 443 Use SSL for control No
Vise SSL for data r/w No Description: Description: The fully qualified host name of the computer that hosts the S3 service.
Supported regions defaultRegion, defa
Description The fully qualified host name of the computer that hosts the S3 service. Reset OK Cancel
OK Cancel Apply Help
5. Test the connection and complete the configuration

	Vault Store Partition Properties - local General Volume Rollover Backup Col	lections Migration Advanced	×
	List settings from: Huawei Obing' too Setting Use SSL for control Use SSL for control Use SSL for data r/w Access Key ID Secret Access Key Supported regions Bucket name Bucket region Bucket access type Reset All Test Description Virbual: In a virbual-hosted-style URL, t domain name in the URL, For example: http://buket.obs.myhwdouds.com/Buck http://buket.name is not part of the domain. http://bbs.myhwdouds.com/buck	Storage Value No No No BD180C1C1A9B1E9 defaultRegion,defa bucket3 defaultRegion Path V Modfy the bucket name is part of the th: In a path-style URL, the For example: Apply Help	Enterprise Vault X Migrator Configuration Test successful. OK
Test Conclusion	PASS		

2.5 Migrating the archived files to the Partition (Secondary Storage)

Test Purpose	Migrating the archived files to the Partition (Secondary Storage)		
Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking		
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The files have been archived to the Primary Storage The S3 bucket has been add as Secondary Storage 		
Test Procedure	 Double-click on the partition, Select the Collections tab and click Run Now to collect archived file on Primary Storage Check the event log that the collection run has completed successfully Browse to the partition and verify that all the DVS* files are present in the newly created CAB files, and all the DVF* files are present in their original location Select the Migration tab and set "Migrate files older than" to 0 day, select the Collections tab and click Run Now to migrate Archived Data to Secondary Storage Browse to the partition and verify that each original DVF* file has been renamed to ARCHDVF* on the primary storage device, and each original DVFCC* file has been renamed to ARCHDVFCC* on the primary storage device. Check that the files have been migrated to the secondary storage system 		







2.6 Retrieving archived file via Enterprise Vault search from Secondary Storage

Test Purpose	Retrieving archived file via Enterprise Vault search from Secondary Storage		
Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking		
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The configuration has been completed. Migrating in section 2.5 has been performed. 		

Test Procedure	 In the Migration tab, set "Remove collection files from primary storage" to 0 day, and select the Collections tab and click Run Now to remove Archived Data from primary storage Check the event log that the collection run has completed successfully Browse to the partition and verify that all ARCHCAB and ARCHDVF* files have been removed from primary storage In the VAC, Select Archives ->File System -> Right-click on file ->Search -> Enterprise Vault Search GUI Select files from the Enterprise Vault Search, Right-click and select Copy to File System -> Original Location. Perform retrieve and observe. 		
Expected Result	 In step 3, all ARCHCAB and ARCHDVF* files have been removed from primary storage In step 4, the Archived file can be identified and displayed from the Enterprise Vault Search In step 6, the document exists in the original location and can be opened without error In step 6, an ARCHDVS file is created on the primary storage partition 		
Test Results	<image/>		



	6. Perf	6. Perform retrieve and observe.			
	r <u> </u>	Name	Date modified	Туре	Size
	cess	5G.file	9/7/2022 7:05 PM	FILE File	5,242,88
) 🛪	冠 5G.file	9/8/2022 9:28 AM	Internet Shortcut	
)ads 🖈	10G.file	9/7/2022 7:11 PM	FILE File	10,485,76
	ents 🖈	馟 10G.file	9/8/2022 7:06 AM	Internet Shortcut	
	5 A	🕖 50G.file	9/8/2022 9:21 AM	Internet Shortcut	
Test Conclusion	PASS				

2.7 Adding an S3 Bucket as Partition (Primary Storage) through HTTPS protocol

Test Purpose	Adding an S3 Bucket as Partition (Primary Storage) through HTTPS protocol	
Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking	
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The Huawei Root CA has been imported to the EV (Required for HTTPS) The Vault Store Group has been created on the EV. The Vault Store has been created on the EV. 	
Test Procedure	 Right Click on Vault Store in the VAC. Select New Partition, create a new Vault Store Partition Select storage type "Generic Simple Storage Service(S3)" Enter the AK, SK, Service host name, Bucket name, Bucket region (defaultRegion), select Bucket access type(Path), others can be default Test the connection and complete the configuration 	
Expected Result	 In step 3, the connection test succeeded. In step 4, the Partition create succeeded. 	
Test Results	 In step 4, the Partition create succeeded. Right Click on Vault Store in the VAC. Select New Partition, create a new Vault Store Partition Select storage type "Generic Simple Storage Service(S3)" 	



2.8 Adding an S3 Bucket as Partition (Secondary Storage) through HTTPS protocol

Test Purpose	Adding an S3 Bucket as Partition (Secondary Storage) through HTTPS protocol
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Test Networking	Huawei OceanStor Pacific Storage and Veritas Enterprise Vault Test Networking			
Prerequisites	 Storage devices, Enterprise Vault server, SQL Server, AD controller deployment and networking have been completed. The storage devices have been configured successfully. S3 related services (including accounts, access certificates, security certificates, and service networks) The namespace of the S3 account has been configured on the storage devices and the object protocol has been enabled. The Huawei Root CA has been appended to the EV cacert.pem (Required for HTTPS). The Vault Store Group has been created on the EV. The Vault Store has been created on the EV. 			
Test Procedure	 Select Primary Storage and right-click to modify the properties Configure the Collections: select Collector "Enterprise Vault", configure the value of "Max collection file size" and the time of "Age at which files will be collected" Configure the Migration: select Migrator "Huawei Object Storage(S3) API", configure the time of "Migrate files older than" and "Remove collection files from primary storage" Configure the Advanced: Enter the Service host name, AK, SK, Supported regions (e.g. defaultRegion, defaultRegion, obs.huawei.com), Bucket name, Bucket region (defaultRegion), select Bucket access type (Path), others can be default 			
Expected Result	 In step 4, the connection test succeeded. In step 5, the Partition create succeeded. 			
Test Results	1. Select Primary Storage and right-click to modify the properties			



Vault Store Partition Properties - second storage test X Vault Store Partition Properties - second storage test	×
General Volume Rollover Backup Collections Migration Advanced General Volume Rollover Backup Collections Migration Advanced	t
List settings from: Huawei Object Storage (S3) API 🗸 List settings from: Huawei Object Storage (S3) API	/
Setting Value Http port 80 Https port 443 Use SSL for control Ves Access Key ID C46E0C23F7D2060DDDA9 Secret Access Key Errors, Warnings Soupported regions defaultRegion, defaultRegion, obs Reset All Test Modify Description The fully qualified host name of the computer that hosts the S3 service. Value	
	_
OK Cancel Apply Help OK Cancel Apply Help 5. Test the connection and complete the configuration Vault Store Partition Properties - second storage test X General Volume Rollover Backup Collections Migration Advanced List settings from: Huawei Object Storage (S3) API	
OK Cancel Apply Help OK Cancel Apply Help 5. Test the connection and complete the configuration Vault Store Partition Properties - second storage test X General Volume Rollover Backup Collections Migration Advanced List settings from: Huawei Object Storage (S3) API Setting Value	
OK Cancel Apply Help OK Cancel Apply Help 5. Test the connection and complete the configuration Vault Store Partition Properties - second storage test X General Volume Rollover Backup Collections Migration Advanced List settings from: Huawei Object Storage (S3) API X Setting Value X Bucket name bucket14	
OK Cancel Apply Help OK Cancel Apply Help 5. Test the connection and complete the configuration Vault Store Partition Properties - second storage test X General Volume Rollover Backup Collections Migration Advanced List settings from: Huawei Object Storage (S3) API Setting Value Setting Value Bucket name bucket14 Bucket region defaultRegion	
OK Cancel Apply Help OK Cancel Apply Help 5. Test the connection and complete the configuration Vault Store Partition Properties - second storage test General Volume Rollover Backup Collections Migration Advanced List settings from: Huawei Object Storage (S3) API Setting Value Bucket name bucket14 Bucket region defaultRegion B Enterprise Vault X Migrator Configuration Test successful.	

<u>3 Overview of Test C</u>ases

3.1 Result Summary

Number	Test Cases	Results
1	Adding an S3 Bucket as Partition (Primary Storage) through HTTP protocol	PASS
2	Archiving the files to the Partition (Primary Storage)	PASS
3	Retrieving archived file via Enterprise Vault Search (Primary Storage)	PASS
4	Adding an S3 Bucket as Partition (Secondary Storage) through HTTP protocol	PASS
5	Migrating the archived files to the Partition (Secondary Storage)	PASS
6	Retrieving archived file via Enterprise Vault search from Secondary Storage	PASS
7	Adding an S3 Bucket as Partition (Primary Storage) through HTTPS protocol	PASS
8	Adding an S3 Bucket as Partition (Secondary Storage) through HTTPS protocol	PASS

3.2 Conclusion

All the interoperability test cases were successfully completed. Huawei OceanStor Pacific Storage supports to connect to Veritas Enterprise Vault through S3 protocol as primary or secondary storage. The system works as expected for both file archiving and retrieving. With regards to the test results, Huawei OceanStor Pacific Storage and Veritas Enterprise Vault are well interoperable.

3.3 Signature

Company Name: Acondistec	ìmbH
Signature:	Fale
Date: 31.01.2023	