Huawei OceanStor Pacific Scale-Out Storage and OpenText Archive Server Interoperability Test Report

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1 Environment Configuration

1.1 Networking Diagram

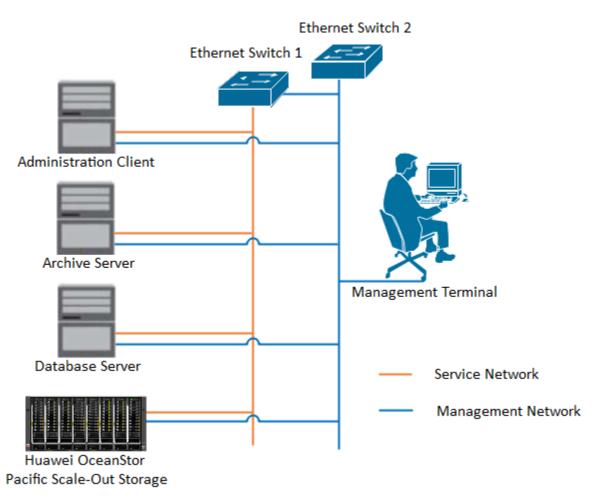


Figure 1.1 Storage and Archive Server Test Networking

Networking Description:

The management network and service network are connected to the Administration client, Archive server, Database Server, and Huawei OceanStor Pacific Scale-Out Storage through switches.

1.2 Hardware and Software Configuration

1.2.1 Storage Configuration

Table 1-1 Huawei storage configuration table

Name	Model	Version	Quantity
Storage	Huawei OceanStor Pacific Scale-Out Storage	8.1.5	1
	(Hereinafter referred to as "the storage" as well)		

1.2.2 Matching Hardware Configuration

Table 1-2 Hardware Configuration

Name	description	Quantity
Administration Client	Install the OpenText Administration Client software for management.	1
Archive Server	Install the OpenText Archive Server software.	1
Database Server	Install the SQL server and hold the configuration information for OpenText Archive Server.	1
Ethernet switch	Ethernet switches for management networking and service networking.	2

1.2.3 Test Software and Tools

Table 1-3 Test Software and Tool List

Software Name	Version	Quantity
Administration Client	20.2	1
Archive Server	20.2	1
SQL Server	SQL Server 2016	1
Operation System	Windows 2016	1

Software Version:

SQL Server:

Microsoft ODBC Driver 13 for SQL Server	Microsoft Corporation	5/9/2023	16.6 MB	13.0.1601.5
冒 Microsoft SQL Server 2008 Setup Support Files	Microsoft Corporation	5/9/2023	62.1 MB	10.3.5500.0
🚦 Microsoft SQL Server 2012 Native Client	Microsoft Corporation	5/9/2023	14.3 MB	11.3.6518.0
冒 Microsoft SQL Server 2014 Management Objects	Microsoft Corporation	5/9/2023	26.0 MB	12.0.2000.8
Microsoft SQL Server 2016	Microsoft Corporation	5/9/2023		
Microsoft SQL Server 2016 (64-bit)	Microsoft Corporation	5/9/2023		
Microsoft SQL Server 2016 Policies	Microsoft Corporation	5/9/2023	2.07 MB	13.0.1601.5
冒 Microsoft SQL Server 2016 Setup (English)	Microsoft Corporation	5/9/2023	53.6 MB	13.0.1601.5
冒 Microsoft SQL Server 2016 T-SQL Language Service	Microsoft Corporation	5/9/2023	14.5 MB	13.0.14500.10
冒 Microsoft SQL Server 2016 T-SQL ScriptDom	Microsoft Corporation	5/9/2023	14.7 MB	13.0.1601.5
Microsoft SQL Server Data-Tier Application Framewo	Microsoft Corporation	5/9/2023	23.1 MB	13.0.3485.1
🕮 Microsoft SOL Server Management Studio - 16.5	Microsoft Corporation	5/15/2023	2 05 GB	13.0.16000.28

Windows:

👱 System			– 🗆 X
$\leftarrow \ ightarrow \ \uparrow \ V$ A Control Par	nel > All Control Panel Items >	System 🗸 Ö	Search Control Panel
Control Panel Home	View basic information	about your computer	0
💎 Device Manager	Windows edition		
💡 Remote settings	Windows Server 2016 Stan	dard	
Advanced system settings	© 2016 Microsoft Corpora reserved.	tion. All rights 🛛 👯 V	Vindows Server [®] 2016
	System		
	Processor:	Intel(R) Xeon(R) Gold 6152 CPU	@ 2.10GHz 2.10 GHz (8 processors)
	Installed memory (RAM):	32.0 GB	
	System type:	64-bit Operating System, x64-b	ased processor
	Pen and Touch:	No Pen or Touch Input is availa	ble for this Display
	Computer name, domain, and	workgroup settings	
	Computer name:	otserver25	Change settings
	Full computer name:	otserver25	
	Computer description:		
	Workgroup:	WORKGROUP	
	Windows activation		
	Connect to the Internet to	activate Windows. Read the Mid	crosoft Software License Terms
See also	Product ID: 00376-30816-7	70930-AA930	Activate Windows
Security and Maintenance			

Archive Server and Administrator Client:

	····-	-,,		
🔅 OpenText Administration Client 16.2.3 (20.2)	Open Text Corporation	5/15/2023	25.2 MB	16.2.0.572
🔊 OpenText Archive Server 16.2.3 (20.2)	OpenText Corporation	5/10/2023	1.28 GB	16.2.0.945

Huawei OceanStor Pacific Scale-Out Storage:

CceanStor Pacific	Home Resources	Monitor Data Protection Cluster	Settings		루 🕫 💿 👳 🗛 admin
				Cluster Details	
Software Information		Bandwid	th IOPS		
Version 8.1.5	0			Cluster Name:	OceanStor-Distributed-Storage 🖋
	KB/s		Total	Product Name:	OceanStor Pacific
SN fa169a9c10666666 디	0	Write	Read	Version:	8.1.5
Service Type	KB/s	0	0		Node Version Details
General	KB/s	KB/s	K3/s		Export Latest Upgrade Report
			~	Hot Patch:	-
			Vamespaces	SN:	fa169a9c10666666
Usable Capacity ③		Top 5 Storage Pools by Us			
	0.0000		aye		
SATA/NL-SAS HDD 52.828 GB/62.156 TB	0.082%	Usage (%)	ec_pool		
		80			
		60			
		40			
		20			
		0 16:15:00 17:07:30 18:00:00 05-15 05-15 05-15	18:52:30 19:45:00 20:37:30 21:30:00 05-15 05-15 05-15 05-15		
					Close

Verification

2.1	Add	the	storage	to the	archive	server	as S3	target s	torage
			\mathcal{O}					ω	\mathcal{O}

Test Purpose	To verify that the storage can be added to the archive server as S3 target storage.
Test Networking	Storage and Archive Server Test Networking
Prerequisites	 The administration client, archive server, and SQL database have been deployed and configured successfully. The S3 services of the storage have been configured successfully, including accounts, namespace, access certificates, security certificates, and service networks.
Test Procedure	 On the administration client, add the archive server. Add the storage to the archive server through the S3 protocol. Test the connection between the storage and the archive server.
Expected Result	 In step 2, succeed to add the storage to the archive server successfully. In step 3, the connection test succeeded.
Test Results	 1. On the administration client, add the archive server. 1.1 Input the IP address of the archive server in the Server name filed. And input the Port and Display name. Then click OK.

OpenText Administration Client File Action View Help			
 Shared Services 8.44.156.25:8080 			
	Please sign in.		
	OpenText Administration Client	×	
	opentext [*] Administrat	ion Client	
	Server 8.44.156.25		
	User name dsadmin		
	Password		
		Sign In Cancel	
			1
2. Add the storage t	o the archive serve	r through the S3 protocol.	
2.1 Right-click Stor	age Devices and c	hoose Add Storage Device.	
OpenText Administration Client	5	8	
File Action View Help			
🗢 🔿 🙍 🖬			
Shared Services	Storage Devices		
 ✓ 3.44.156.26:8080 ✓ 3 Archive Server 	Storage Devices Unava		
V 🗱 Infrastructure	Storage Device Name	Storage Type Connected Status	
💧 Caches			
Disk Volumes Istorage Devices			
> 👼 Archives 🛛 Add Sto	rage Device prage Manager		
> 🍂 System Stop St	orage Manager orage Manager		
S 403 Configure			
> 🦓 Configura Restart	Storage Manager		
Restart Refresh	Storage Manager		
Restart	Storage Manager		
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2.2 Input the Storage Add Storage Device General Before You Begin General Settings	e Device name, an Storage Device name: * Storage type: *	pacific Simple Storage Service (S3) Single File Qontainer File	1
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2.2 Input the Storage Add Storage Device General Before You Begin General Settings	e Device name, an Storage Device name: * Storage type: *	pacific Simple Storage Service (S3) Single File Qontainer File	1
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2 Input the Storage dd Storage Device General Before You Begin General Settings	e Device name, an Storage Device name: * Storage type: *	pacific Simple Storage Service (S3) Single File Qontainer File	1

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Service Address: Invobs.com ■ General SSL certificates: E:\CA\rewca\ca_cet_RootCA_941282841.crt Browse ■ Settings Bucket Address Style: VIRTUAL_HOST_STYLE ✓ ■ Summary Signature Version: 4 ✓ ■ I I I I I I I I I I I I I I I I I I I
Settings Summary Signature Version: • Bucket Address Style: • Summary Signature Version: • 4 WITUAL_HOST_STYLE Summary Signature Version: • 4 WITUAL_HOST_STYLE Summary Signature Version: • 4 WITUAL_HOST_STYLE Summary Signature Version: • 4 WITUAL_HOST_STYLE Summary Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE View Comments Signature Version: • 4 WITUAL_HOST_STYLE Signature Version: • 4 WITUAL_HOST_STYLE View Comments Signature Version: • 4 WITUAL_HOST_STYLE View Comments Signature Version: • 4 WITUAL_HOST_STYLE View Comments Signature Version: • 4 WITUAL_HOST_STYLE View Comments View Comments Ca_cert_RootCA_941282841.crt S/15/2023 7:46 PM Security Certificate 2 C.4 Summary Comments Comments Ca_cert_RootCA_941282841.crt Ca_cer
Summary Signature Version: • 4 Summary Signature Version: • 4 Signature V
Image: start start start Image: start
File Home Share View Image: Share View Image: Share View Image: Share New Volume (E:) > CA > newca Image: Share Image: Share Image: Quick access Image: Name Image: Date modified Type Size Image: Quick access Image: Name Image: Date modified Type Size Image: Quick access Image: Quick access Image: Quick access Image: Quick access Size Image: Quick access Image
Image: State of the
Aume Date modified Type Size Cuick access Desktop Downloads Downloads Documents 2.4 Click Finish to complete Add Storage Device. Add Storage Device Summary Download Add Storage Device
Quick access Q
Desktop Downloads Documents C.4 Click Finish to complete Add Storage Device. Add Storage Device X Summary
Downloads Documents 2.4 Click Finish to complete Add Storage Device. Add Storage Device Summary
Constraints Documents 2.4 Click Finish to complete Add Storage Device. Add Storage Device Summary
 United Xey Usels LICK imperiod to graphic a new device
Before You Begin Click Finish to create a new device.
Centeral Device Name: pacific Jestings Storage Type: Simple Storage Service (S3)
Summary Storage Strategy: Single File
The next step is to add connections for this device.
(Action: Add Connection)
Help < Back Finish Cancel

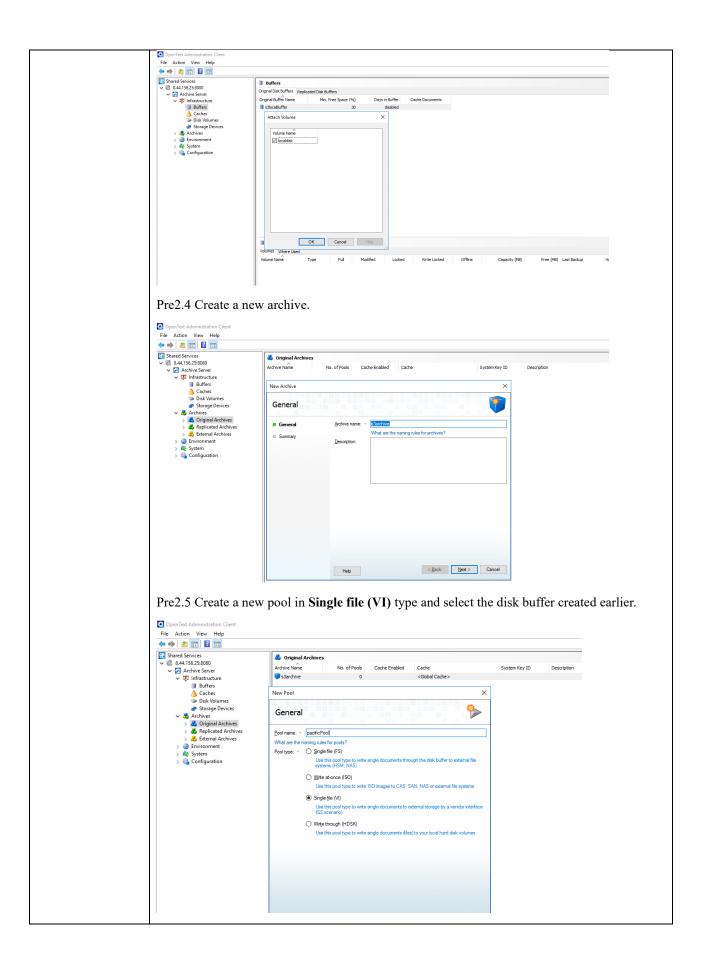
	3.2 Input a name in the Bucket field. Select defaultRegion in the Region field. Input the Access
	key and Secret key of the storage.
	Add Connection × Bucket: automatical and a statement of the statement of
	Access key: CB320C412237C94DC3C3 Set Secret Key Test Connection
	OK Cancel Help
	Set Secret Key ×
	(ME) Free (ME) Base Directory Buck
	3.3 Click Test Connection and the result is OK .
	Add Connection X
	Bucket: * otbucket Region * defaultRegion
	Access key: * CB320C412237C94DC3C3 Set Secret Key
	Test Connection V OK
	OK Cancel Help .:i
Test Conclusion	Passed

2.2 Archive files to the storage through the archive server

Test Purpose	To verify that the archive server can archive files to the storage.						
Test Networking	Storage and Archive Server Test Networking						
	1. The administration client, archive server, and SQL database have been deployed and configured successfully.						
Prerequisites	 The S3 services of the storage have been configured successfully, including accounts, namespace, access certificates, security certificates, and service networks. The storage has been added to the archive server successfully. 						

Test Procedure	 Prepare some files and write the files to the archive server's local buffer. And check the files in the archive server's local buffer. Run related PoolWrite job to write the files in the archive server's local buffer to the volumes of the storage. And check the files in the storage.
Expected Result	 In step 1, the files are written to the archive server's local buffer successfully. In step 2, the files are written to the storage successfully.
Test Results	Prerequisites Pre1 Configuration of the storage Set the trim-slash-switch to true so that the storage allows object name can contain more than two consecutive directory separators.

🔅 OpenText Administration Client File Action View Help 🗢 🄿 🞽 📰 🚺 🖬 🔠 Shared Services Disk Volumes ✓ 🐻 8.44.156.25:8080 Volume Name Capacity (MB) Mount Path Used As Where Used Replicate ✓ Archive Server
 ✓ Infrastructure Buffers New Disk Volume \times △ Caches Disk Volumes **\$** General Storage Devices
 Archives > 🌒 Environment Volume name: * localdisk > 🍓 System > 🍓 Configuration Mount path: * E:\Buffer Browse... The Tomcat service must be able to access the path. More information Voļume class: * Hard Disk ~ OK Cancel Help Pre2.3 Create a new disk buffer and attach the local disk volume created in the previous step. 🧟 OpenText Administration Client File Action View Help 🔶 🏟 🖄 📰 🚺 Shared Services
 8.44.156.25:8080 **Buffers** ₹.44.156.25:0000
 ▲ Archive Server
 ♥ Infrastructure
 ■ Buffers
 ▲ Caches
 ♥ Dik Volumes
 ♥ Storage Devices
 > ● Archives
 > ● Archives
 > ● System
 > ● Configuration Original Disk Buffers Replicated Disk Buffers Original Buffer Name Min. Free Space (%) Days in Buffer Cache Documents New Original Disk Buffer \times General Disk buffer name: * s3localBuffer General Disk Buffer Purge Configuration Information Purge job: * purge_s3localBuffer Min. free space: 30 🖨 % Purge documents older than 0 💠 days Cache documents before purging □ Verify documents by checksums if checksums are at least 0 ÷ bits long Number of threads: 3 🖨 How do I schedule a purge job? apacity (MB) < Back Next > Cancel Help



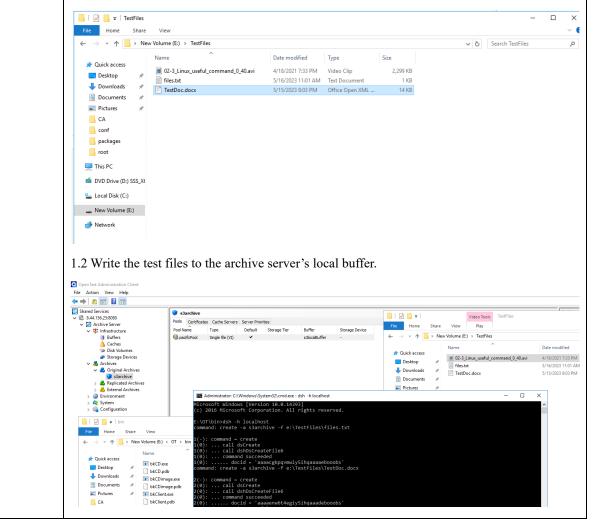
🗱 OpenText Administration Client	
File Action View Help	New Pool X
Hie Action View Help Image: Action Image: Action Image: Action Image: Action	New Pool × Single File (VI) Pool > Storage Selection > Storage Selection > Storage Selection > Borge tier: How can I create a storage tier? > Buffering
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	Volumes Volume Name Type Priority Capacity (MB) Free (MB) Linsaved (MB) Full Modified Locked Write

OpenText Administration Client												-
File Action View Help												
🔶 🔿 🔁 📰 🖬 🖬												
🛃 Shared Services	🔋 s3archive											1 Item
✓ 《 8.44.156.25:8080	Pools Certificate	es Carbe Serve	rs Server Pric	rities								
Archive Server V Infrastructure Buffers	Pool Name	Туре	Default	Storage Ti	ler Buffer	Storage	2 Device					
	pacificPool	Single file (VI)		otoroge n	s3localBuf		bence					
A Caches												
Disk Volumes												
Storage Devices												
 Archives Briginal Archives 												
i s3archive												
> 💑 Replicated Archives												
> 👶 External Archives												
> 🎲 Environment > 🏘 System												
> 🤹 System												
	Q pacificPool											1 Item
	Volumes											
	Volume Name	Typ	ne	Priority	Capacity (MB)	Free (MB)	Unsaved (MB)	Full Mod	fied Locked	Write Locked	Offine	Last Replic
	s3volume		ginal	1	8388608	8388608	0	100		The could	onine	-
	(public line		ge nue		000000	000000						

Test Result

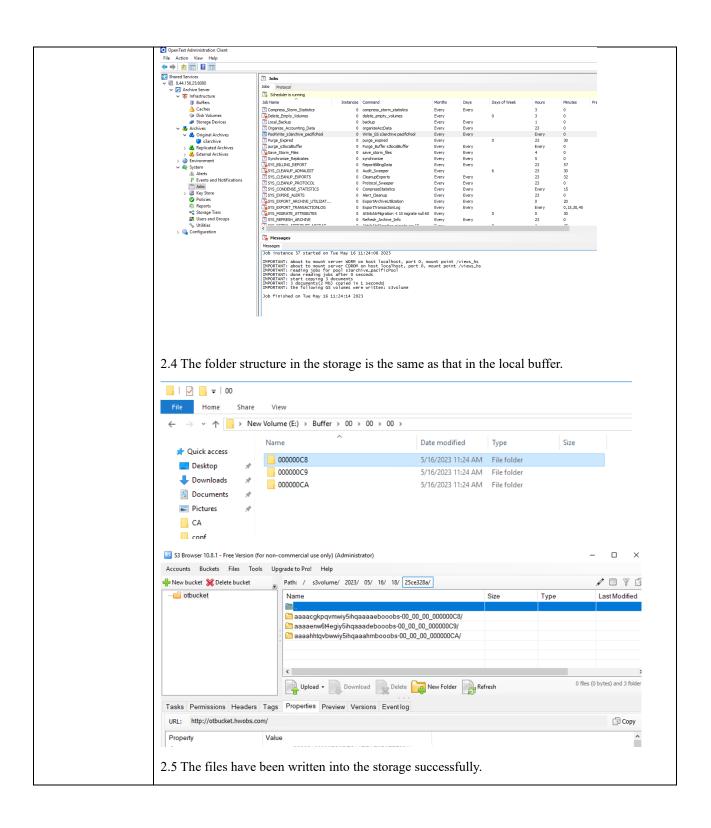
1. Prepare some files and write the files to the archive server's local buffer. And check the files in the archive server's local buffer.

1.1 Test files are created.



<pre>(~ = deprecated fu command: create -a s3 4(-): command = creat 4(0): call dsCrea 4(0): call dshDsC 4(0): command suc 4(0): docid = command: _</pre>	archive -f e:\TestFiles\02 e te reateFile6	-3_Linux_useful_command	_0_40.avi	
 Quick access Desktop Downloads Documents Pictures CA CA Conf packages root This PC DVD Drive (D:) SSS_X6 Local Disk (C:) New Volume (E:) Network 	v Volume (E:) > Buffer Name .chg 00 .cds_tmp_ archive.vdf INFO Buffer Properties General Sharing Security Previous Buffer Type: File folder Location: E:\ Size: 2.25 MB (2,369,017 b) Size on disk: 2.26 MB (2,371,584 b) Contains: 13 Files, 8 Folders Created: Wednesday, May 10, Attributes: Read-only (Only ap Hidden	/tes) /tes) 2023, 8:39:19 AM	File folder _DS_TMP File VDF File	Size 0 KB 1 KB 1 KB
of the storage. And	ок Write job to write the fil check the files in the sto the job, there is no data	orage		fer to the volumes

Hew bucket 💥 Dele	lete bucket 🚽	Path: /						
otbucket		Name					Size	
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Tasks Permissions URL: http://otbuck	ket.hwobs.com/	Properties Preview Ve	ersions	Event	log			
Property	Valu	e						
Owner	oper	ntext (000001882237C6BE01	1EFAF	8B27F7	93A)			
Name	otbu	cket						
Creation date		2023 9:42:13 AM						
Location		ult Region (defaultRegion)						
Total objects	0							
Total files	0							
2.2 Start the rel version demonstration Client File Action View Help Starter Stories Starter Stories Clients Clien	Jobs Jobs Jobs Jobs Stedder a runn Sofader a runn Sofader a runn Sofader a runn Sofader Orgenze, Jobs Org	Distances Command 0 compress, thrum, statistics 0 biolup 0 biolup 0 progr.mored 0 progr.mored iert (0.4136235000) X	Months Every Every Every Every Every Every Every Every Every Every Every Every	Days Every Every Every Every Every Every Every Every Every Every	Days of Week 0 0	Hours 3 3 1 22 Every 4 5 23 23 23 23 23	Minutes 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Previous Job



					- 0 X			
	S3 Browser 10.8.1 - Free Version (for non-commercial use only) (Administrator) —							
	Accounts Buckets Files Tool							
	🖶 New bucket 💥 Delete bucket	/ I Y I						
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			361 bytes	ATR File	5/16/2023 11:34:			
		*						
		٢			>			
		Upload - Download Delete 🥁 New Fold	388 bytes) and 0 folders					
	Tasks (1) Permissions Headers Tags Properties Preview Versions Eventlog							
	URL: http://otbucket.hwobs.co	🗇 Сору						
	Property	Value		^				
	Owner	opentext (000001882237C6BE011EFAF8B27F793A)						
	Name	otbucket						
	Creation date	5/16/2023 9:42:13 AM						
Test Conclusion	Passed							

2.3 Retrieve archived files from the storage through the archive server

Test Purpose	To verify that archived files can be retrieved from the storage through the archive server.				
Test Networking	Storage and Archive Server Test Networking				
	1. The administration client, archive server, and SQL database have been deployed and configured successfully.				
Prerequisites	2. The S3 services of the storage have been configured successfully, including accounts, namespace, access certificates, security certificates, and service networks.				
-	3. The storage has been added to the archive server successfully.				
	4. Some files (original files) have been archived to the storage successfully and the docids have been recorded.				
	1. Run related Purge job to clean the archive server's local buffer. And check the files in the archive server's local buffer.				
Test Procedure	2. Prepare a destination directory for retrieving files.				
Test r rocedure	3. In the archive server, retrieve the archived files from the storage to the destination directory.				
	4. Check the consistency of the retrieved files and original files.				
	1. In step 1, the files in the archive server's local buffer are cleared successfully.				
Expected Result	2. In step 2, the files are retrieved to the destination directory successfully.				
	3. In step 3, the retrieved files and original files are consistent.				
	Prerequisites				
	The docids have been recorded while archiving the files.				
Test Results	e:\TestFiles\files.txt				
	docid = 'aaaacgkpqvmwiy5ihqaaaaebooobs'				

e:\TestFiles\TestDoc.docx

docid = 'aaaaenw6t4egiy5ihqaaadebooobs'

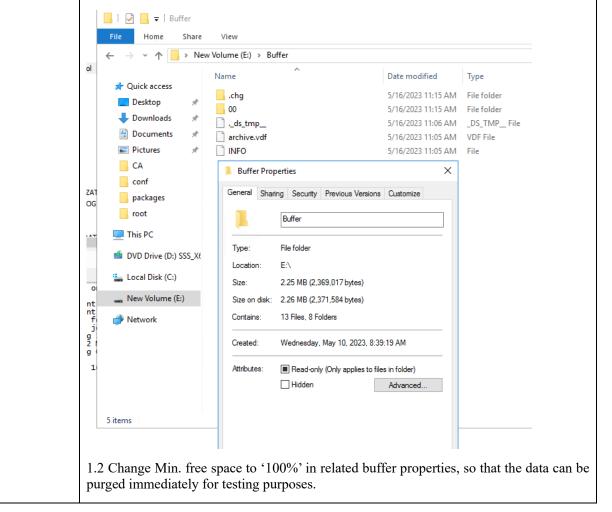
e:\TestFiles\02-3_Linux_useful_command_0_40.avi

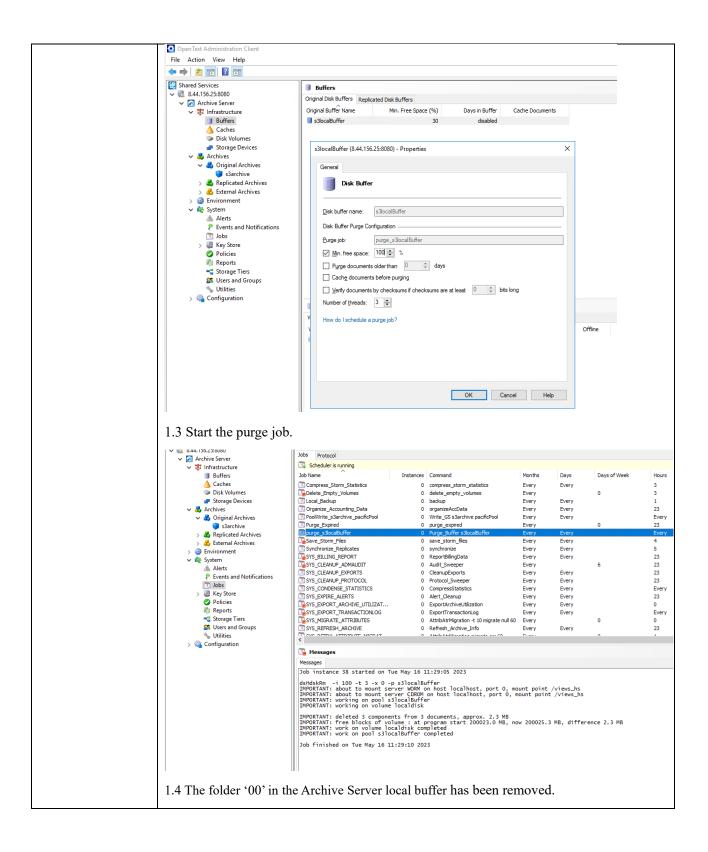
docid = 'aaaahhtqvbwwiy5ihqaaahmbooobs'

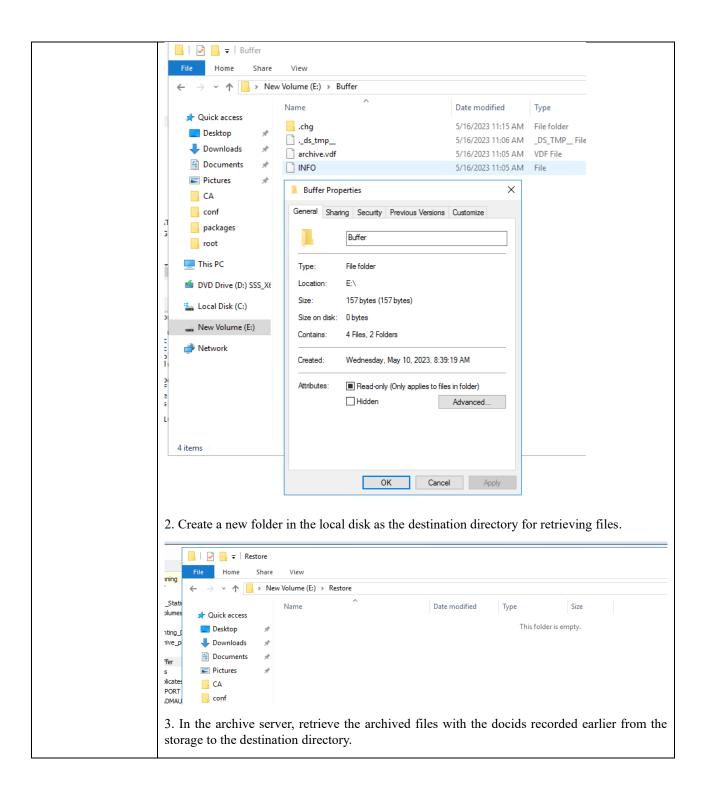
Test Result

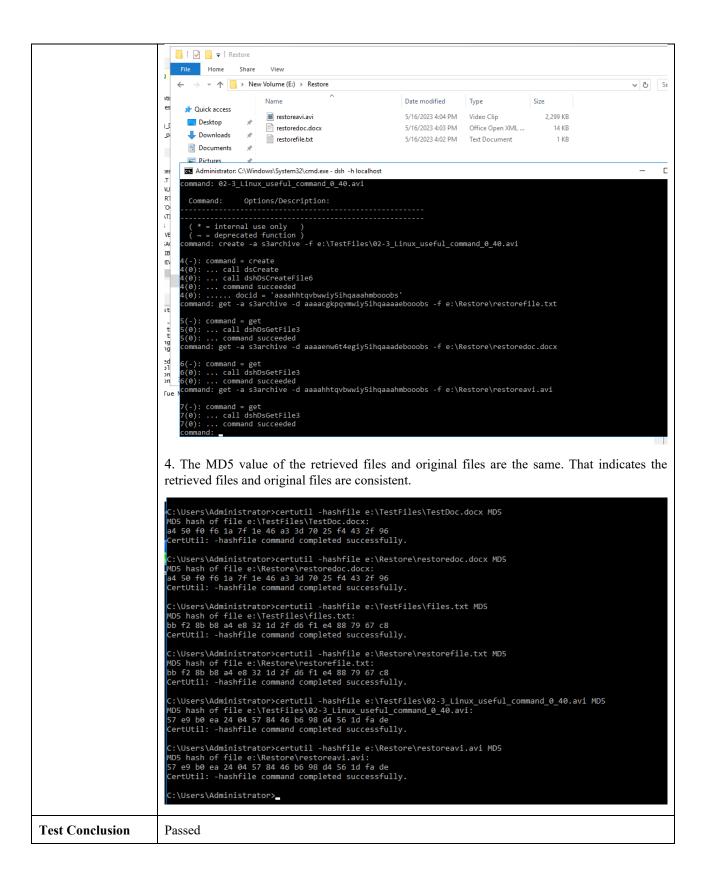
1. Run related Purge job to clean the archive server's local buffer. And check the files in the archive server's local buffer.

1.1 Before running the job, folder '00' is in the local buffer.







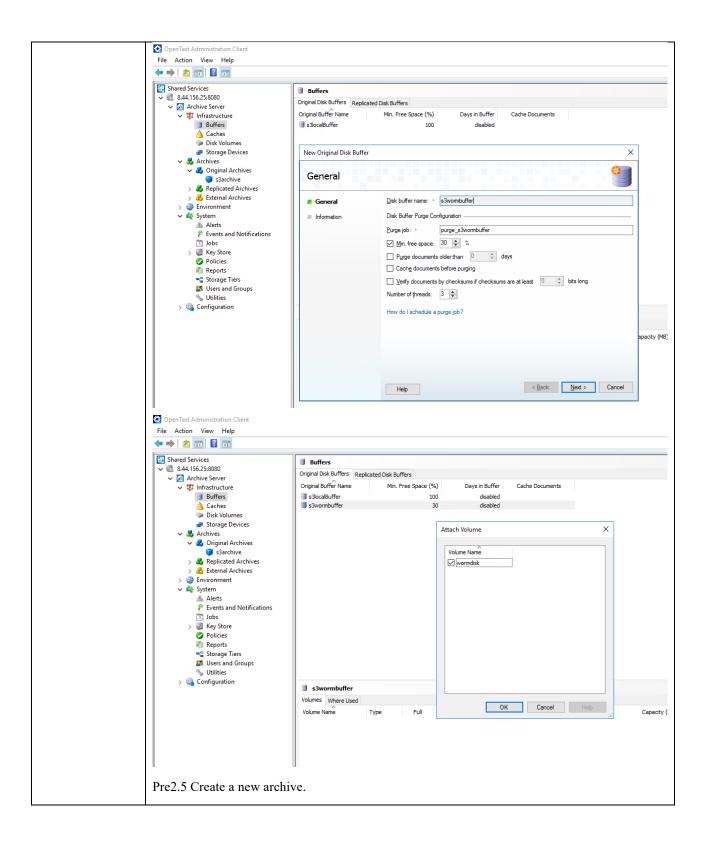


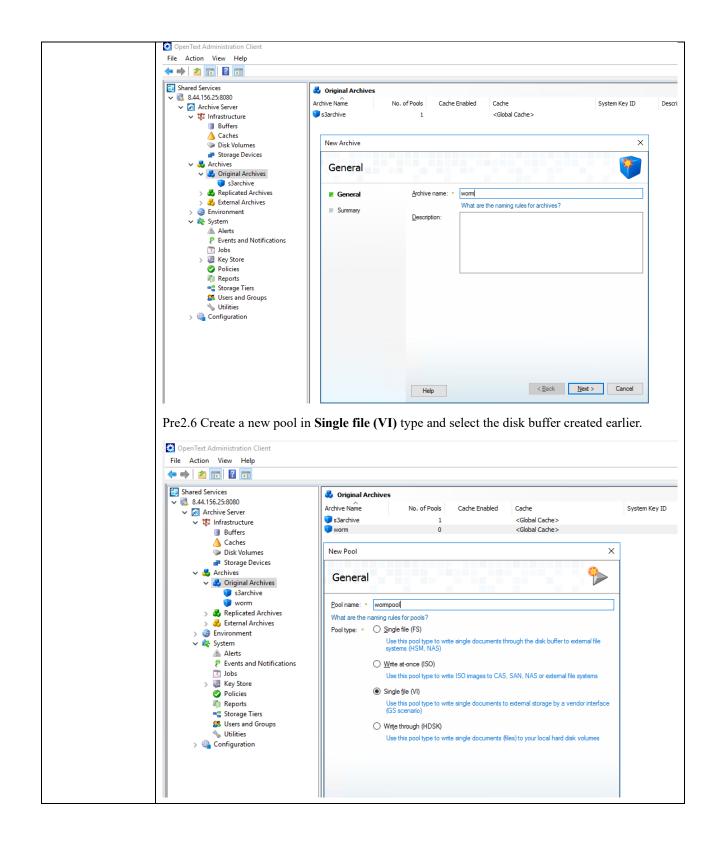
2.4 Retention Period Testing

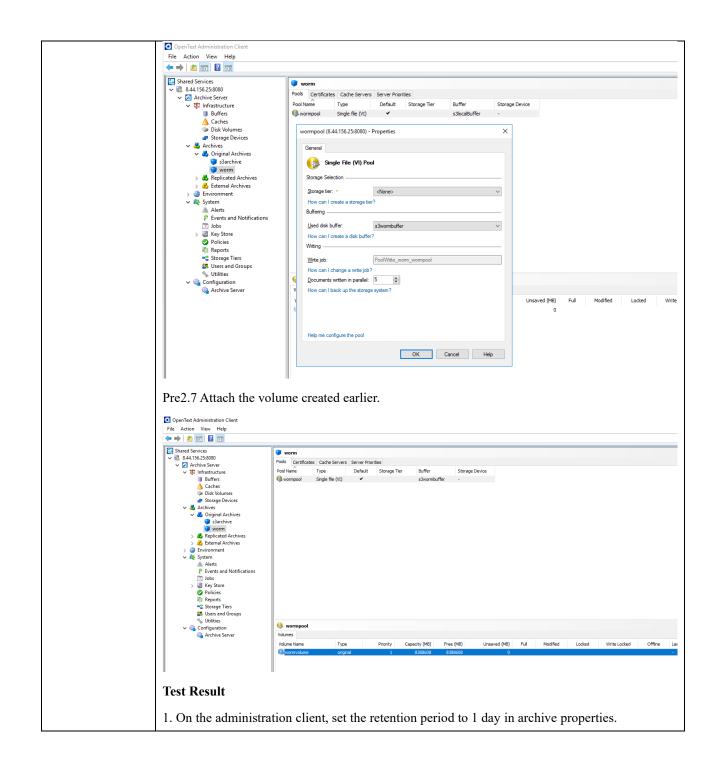
Test Purpose	To verify that the retention period is supported when the storage is used as S3 target storage of the archive server.							
Test Networking	Storage and Archive Server Test Networking							
Prerequisites	 The administration client, archive server, and SQL database have been deployed and configured successfully. The S3 services of the storage have been configured successfully, including accounts, namespace, access certificates, security certificates, and service networks. The storage has been added to the archive server successfully. 							
Test Procedure	 On the administration client, set a retention period for the archive. Archive files to the storage. Check the headers of the archived files on the storage. Delete the archived files within the retention period on the storage. Delete the archived files after the retention period expires on the storage. 							
Expected Result	 In step 1, succeeded to set the retention period for the archive. In step 3, the headers of the archived files show that the files are Read-only. In step 4, fail to delete the archived files within the retention period. In step 5, succeed to delete the archived files after the retention period expires. 							
Test Results	Pre1 Configuration of the storage Pre1.1 Create a new bucket with WORM enabled and set the worm policy mode to None, so that the storage will use the retention period set by the archive server through the S3 interface.							

53 S3 Browser 10.8.1 - Free Ve	rsion (for non-commercial use only) (Administrator)					
He Accounts Buckets Files Tools Upgrade to Pro! Help						
Find a otbucket	Name	Size Type				
🗇 Sta						
문 Eth 유 Dia	< ↓ Upload ↓ ↓ Download ↓ Delete ↓ N	New Folder				
	aders Tags Properties Preview Versions Event log					
Pro Pro Pro Property Owner Name Creation date Location Total objects Total files Pre2 Configuration of t	Value opentext (000001882237C6BE011EFAF8B27F793A) otworm 5/16/2023 5:07:07 PM Default Region (defaultRegion) loading loading he archive server ection with the S3 worm bucket created ex- storage Devices Storage Devices Unavailable Volume Storage Devices Unavailable Volume Storage Devices Inavailable Volume Storage Device Name Storage Devices Inavailable Volume Storage Devices Inavailable Volume Storage Device Name Storage Device Name Storage Devices Inavailable Volume Storage Device Name Storage D	×				
Pre2.2 Initialize a new	volume.					

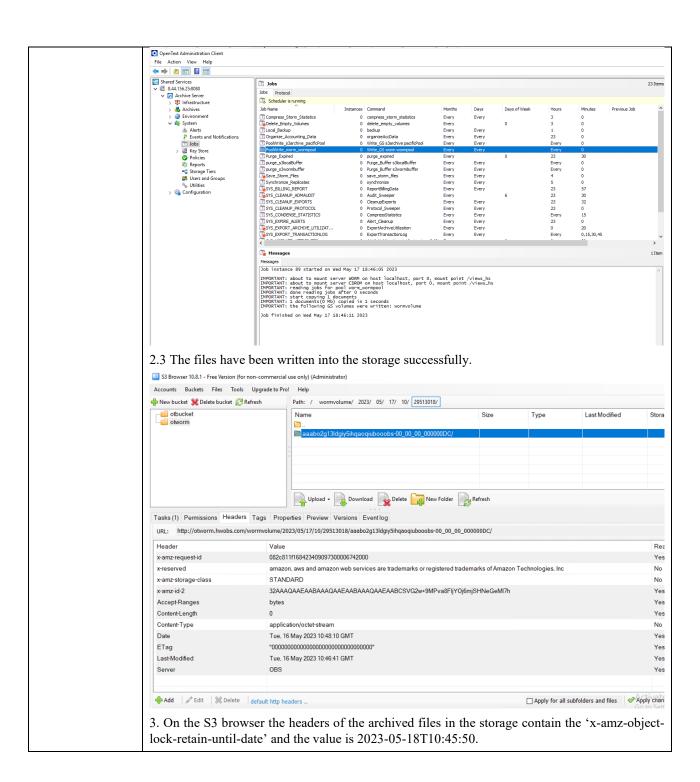
 Shared Services 8.44.156.25:8080 	Storage Devices					
 Archive Server \$\$ Infrastructure 	Storage Device Name	Storage Type	Connected Status			
Buffers	Pacific		. Generalized Enabled			
🝐 Caches ☜ Disk Volumes						
Storage Devices						
🗸 🛃 Archives						
 Griginal Archives Sarchive 						
🕡 worm						
> 🛃 Replicated Archives > 💑 External Archives						
S (a) Environment						
🗸 🎼 System	Initialize Volume		×			
▲ Alerts ₽ Events and Notifications						
🛅 Jobs	Volume name: *	womvolume				
 > Image: Wey Store Opticies 		OK Can	and Hole			
Reports		UN Cano	ai ai			
Storage Tiers						
Studies and Groups Studies Studies						
> 🍓 Configuration	🗗 pacific					
	Connections					
		En Sta Volume Name	Capacity (MB) 8388608	Free (MB) 8388608	Base Directory	Bucket Reg
		1 ♥ - s3volume 2 ♥ -	800000	-	pacific/1/s3volume	otbucket def otworm def
pacific						
Number En Sta Volum	e Name Capacit	y (MB) Free (MB)	Base Directory	Bucket	Region	Access Key
1 ✓ - s3vol			pacific/1/s3volume	otbucket		CB320C412237C94DC3C3
e2.3 Create a new dis	k volume in	the local disk E	pacific/2/wormvolume	e otworm	defaultRegion	
OpenText Administration Client File Action View Help	k volume in	the local disk E				
OpenText Administration Client le Action View Help 2 III III IIII] Shared Services		the local disk E				
OpenText Administration Client e Action View Help e 2 10 Shared Services 8.44.156.25:8080	k volume in s		:\.			ste
OpenText Administration Client le Action View Help	💝 Disk Volumes	the local disk E capacity (MB) Mourt R 204669 ErBuffe	:\. ath Used	As Where Use	ed Replice	te
OpenText Administration Client le Action View Hep le 2 To 2 To 2 Shared Services 8.44.156.25:0000 V 2 Archive Server V 1 Infrastructure Buffers	Disk Volumes Volume Name Jocaldisk	Capacity (MB) Mount P	:\. ath Used	As Where Ust ar SlocalBuff	ed Replice	ste
OpenText Administration Client File Action View Help Shared Services Shared Services Shared Server Sharchive Server Sharchive Server Shared Server S	Disk Volumes Volume Name	Capacity (MB) Mount P	:\. ath Used	As Where Use	ed Replice	ate
 Infrastructure Buffers 	Volume Name Volume Name I ocaldsk New Disk Volume	Capacity (MB) Mount P	:\. ath Used	As Where Ust ar SlocalBuff	ed Replice	ste
OpenText Administration Client File Action View Help Image: Shared Services Image: Shared Services	Disk Volumes Volume Name Jocaldisk	Capacity (MB) Mount P	:\. ath Used	As Where Ust ar SlocalBuff	ed Replice	ste
OpenText Administration Client iie Action View Help iiii Action View Help iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Disk Volumes Volume Name localdisk New Disk Volume General	Capacity (MB) Mount Pi 204669 Er/Buffe	:\. ath Used	As Where Ust ar SlocalBuff	ed Replice	ste
OpenText Administration Client ile Action View Help Image: Shared Services Image:	Volume Name Volume Name Cocaldisk New Disk Volume General Volume name:	Capacity (MB) Mount P 204669 E:/Buffe womdisk	:\. ath Used r buffe	As Where Us r slocabuf	ed Replice	ste
OpenText Administration Client ile Action View Help Image: Shared Services Image: Shared Services Image: Shared Services Image: Shared Services Image: Shared Services Image: Storage Devices Image: Storage Devices Image: Storage Devices Image: Storage Devices <td>Disk Volumes Volume Name Iocaldisk New Disk Volume General Volume name: * Mourt path: *</td> <td>Capacity (MB) Mount P 204669 Et/Buffe womdisk Et/Worm_Buffer</td> <td>:\. ath Used r buffe</td> <td>As Where Ust ar SlocalBuff</td> <td>ed Replice</td> <td>ste</td>	Disk Volumes Volume Name Iocaldisk New Disk Volume General Volume name: * Mourt path: *	Capacity (MB) Mount P 204669 Et/Buffe womdisk Et/Worm_Buffer	:\. ath Used r buffe	As Where Ust ar SlocalBuff	ed Replice	ste
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OpenText Administration Client e Action View Help	● Disk Volumes Volume Name ● localdsk New Disk Volume General Volume name: Mourt path: The Tomcat service Volume class: Image: Service Volume class: Image: Service Image: Service Volume class: Image: Service Image: Service Volume class: Image: Service	Capacity (MB) Mount P 204669 Et/Buffe 204669 Et/Buffe 204669 Et/Buffe 204669 Et/Buffe 204669 Et/Buffe 204669 Et/Buffe 204669 Et/Buffe	:\. ath Used r buffe	As Where Use r s3ocalBuff	ed Replice	te
OpenText Administration Client le Action View Hep Image: Shared Services Shared Services Shared Services Stared Services Infrastructure Image: Storage Devices Acchives Stermal Archives Stermal Archives Stermal Archives Acterts and Notifications Dabs Key Store Policies Reports Storage Tiers Sto	● Disk Volumes Volume Name ● localdsk New Disk Volume General Volume name: Mourt path: The Tomcat service Volume class: I Image: Image	Capacity (MB) Mount P. 204669 Et;Buffe womdisk Et/Wom_Buffer must be able to access the path. I Hard Disk	: \.	As Where Use r s3ocalBuff	ed Replice	ste
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OpenText Administration Client e Action View Help	♥ Disk Volumes Volume Name ♥ localdsk New Disk Volume General Volume name: Wourt path: * Mourt path: * The Torncat service Volume class: * Image: Image: <t< td=""><td>Capacity (MB) Mount P 204669 Et/Buffe 204669 Et/Buffe womdak EtWorn_Buffer mutbe able to access the path. It Hard Diak mm_Buffer Share View > New Volume (E.) > Worm_E Name</td><td>: \.</td><td>As s3ocaBuft</td><td>ed Replica fer</td><td>Size</td></t<>	Capacity (MB) Mount P 204669 Et/Buffe 204669 Et/Buffe womdak EtWorn_Buffer mutbe able to access the path. It Hard Diak mm_Buffer Share View > New Volume (E.) > Worm_E Name	: \.	As s3ocaBuft	ed Replica fer	Size
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OpenText Administration Client	
File Action View Help	
(=	
Shared Services	
√ 3. 8.44.156.25:8080	
V 🔊 Archive Server	Pools Certificates Cache Servers Server Priorities
V V Infrastructure	Pool Name Type Default Storage Tier Buffer Storage Device wormpool Single file (VI) Storage Device
Caches	
Disk Volumes	worm (8.44.156.25:8080) - Properties ×
Storage Devices	
✓ ♣ Archives ✓ ♣ Original Archives	General Security Settings Retention Timestamps
sarchive	Default Settings
💗 worm	
> 🚜 Replicated Archives	
> 👶 External Archives > 🍘 Environment	O No retention - read-only
v 🎎 System	Retention period of 1 days
Alerts	○ <u>E</u> vent retention
Events and Notifications	O Infinite retention
∑ Jobs > ₩ Key Store	Modifications made to these settings apply only to documents archived after change.
Policies	
Reports	Purge
Storage Tiers	Destroy (unrecoverable)
SUSers and Groups	
> 🍓 Configuration	Auto delete
	Auto delete after expiration
	Unsaved (MB) Full Modified
	0
	OK Cancel Help
2. Archive files to the stor	age.
2.1 Write the test files to t	he archive server's local buffer.
E:\OT\bin>dsh -h loca	
command: create -a wo	rm -f e:\TestFiles\wormfile.txt
:	
1(-): command = create	e
1(0): call dsCreat	
1(0): call dshDsC	
1(0): command succ	
	(aaaha)a12)daiyEihaaaaiybaaaha'
	'aaabo2g13ldgiy5ihqaoqiubooobs'
command:	
2.2 Start the related PoolV	Vrite job to archive the file to the storage.



Size 22 bytes 590 bytes	Туре	Last Modified	Storage Class
E00 buton	013;1 File	5/16/2023 6:46:41 PM	STANDARD
550 Dytes	ATR File	5/16/2023 6:46:41 PM	STANDARD
Refresh			1 file (590 byt
000hc-00_00_00_00000C/ATTRIB	TP		ß
00005-00_00_00_000000000000000000000000	uik .		
			Read-only
			Yes
or registered trademarks of Amazon	Technologies, Inc		No
			Yes
			Yes
			Yes
			No
sXtzgJD12iTYSGdJygNdJ/kWA6l			Yes
			Yes
		ooobe-00_00_000000C/ATTRIB.ATR	ooobe-00_00_000000C/ATTRIB.ATR or registered trademarks of Amazon Technologies, Inc

4. The archived files could not be deleted within the retention period (2023-05-18 10:45:50 UTC+0/ 2023-05-18 18:45:50 UTC+8).

4.1 The WORM clock in the storage is within the retention period.

OceanStor Pacific	Home	Resources	Monitor	Data Protection	Cluster	Settings	
Settings	WORM Settin	gs					
G Object Service Settings	WORM Clock						
Share Settings	WORM Clock	2023-05-18 16:	31:13 UTC+08:00				
Data Security							
WORM Settings							

4.2 Files could not be deleted.

	Path: / wormvolume/ 2023/ 05/ 17/ 10/ 2951	13018/ aaabo2g13ldgiy5ihqaoqiubooob	s-00_00_00_00000D	iC/		
- otbucket	Name	Size	Туре	Last Modified	Storage Class	
	🗎					
wormbucket	000x000.013;1	22 bytes	013;1 File	5/16/2023 6:46:41 PM		
	ATTRIBATR	590 bytes	ATR File	5/16/2023 6:46:41 PM	STANDARD	
	Upload + 🕞 Download 🙀 Delete 🥁	New Folder				1 file
Tasks (2) Permissions Headers Tags Properti	es Preview Versions Eventlog					
Task		Si	ze %			
	/2d9dHc1/aaaaj1nv1hagizobjqaaqymbooobu-00_00_00_000000 /17/10/29513018/aaabo2o13/dqiv5ihqaoqiubooobs-00_00_00_00_00				enied: Operation not pe	rmitted iled. Some files could not be deleter
2 mes could not be deleted, wormvolume/2023/05	11/10/25515010/aaabozg15/0gy5/inga0qiub000b5-00_00_00_0	000000jAT IND ATN. IIIEIIIa				
				Failed - System.Exception	Bulk delete failed. Some fi	iles could not be deleted. Please check lo
Tasks (2) Permissions Headers Tag	s Properties Preview Versions Event log					
	-	3/05/17/10/29513018/aaabo	2a13ldaiv5ibc	1200,000 00 00 00 00 00 00 00 00 00 00 00	0.0000000000000000000000000000000000000	(000.013:1 TaskiD: 49494
[1] [2023-05-18 16:24:53] Successfully in	received information for otworm/wormvolume/2023	3/05/17/10/29513018/aaabo	2g13ldgiy5ihc	aoqiubooobs-00_00_1	00_00000DC/000>	K000.013;1 TaskID: 49494
 [1] [2023-05-18 16:24:53] Successfully is [1] [2023-05-18 16:25:11] Bulk delete 2 	received information for otworm/wormvolume/2023 files TaskID: 49497		,			
 ♥ [1] [2023-05-18 16:24:53] Successfully i ♥ [1] [2023-05-18 16:25:11] Bulk delete 2 ▲ [W] [2023-05-18 16:25:11] 2 files could 	received information for otworm/wormvolume/2023 files TaskID: 49497 I not be deleted: wormvolume/2023/05/17/10/29513	3018/aaabo2g13ldgiy5ihqa	oqiubooobs-(0_00_00_00000DC/A	TTRIB.ATR: Intern	al Errorwormvolume/2023/0
 ℚ [1] [2023-05-18 16:24:53] Successfully i ℚ [1] [2023-05-18 16:25:11] Bulk delete 2 ℚ [1] [2023-05-18 16:25:11] Bulk delete 2 ℚ [1] [2023-05-18 16:25:11] 2 files could ℚ [1] [2023-05-18 16:25:11] System.Exc 	received information for otworm/wormvolume/2023 files TaskID: 49497 I not be deleted: wormvolume/2023/05/17/10/2951 eption: Bulk delete failed. Some files could not be	3018/aaabo2g13ldgiy5ihqa deleted. Please check logs	oqiubooobs-(for more deta	00_00_00_00000DC/A ails atte.Do() atig.c(i	TTRIB.ATR: Intern a bcw) TaskID: 494	al Errorwormvolume/2023/0 497
ℚ [I] [2023-05-18 16:24:53] Successfully i ℚ [I] [2023-05-18 16:25:11] Bulk delete 2: ▲ [W] [2023-05-18 16:25:11] 2 files could ▲ [W] [2023-05-18 16:25:11] System Exc. ℚ [I] [2023-05-18 16:25:12] 2 files could n	received information for otworm/wormvolume/2023 files TaskID: 49497 Inot be deleted wormvolume/2023/05/17/10/2951 reption: Bulk delete failed. Some files could not be ot be deleted: wormvolume/2023/05/17/10/295130	3018/aaabo2g13ldgiy5ihqad deleted. Please check logs 018/aaabo2g13ldgiy5ihqaoo	oqiubooobs-C for more deta jiubooobs-00	00_00_00_00000DC/A ails atte.Do() atig.c(i _00_00_00000DC/AT	TTRIB.ATR: Intern a bcw) TaskID: 49 TRIB.ATR: Internal	al Errorwormvolume/2023/0 497 I Errorwormvolume/2023/05/
(Q) [[] [2023-05-18 16:24:53] Successfully (Q) [[] [2023-05-18 16:25:11] Bulk delete 2 (M) [[2023-05-18 16:25:11] 2 files could (M) [[2023-05-18 16:25:11] 2 files could (M) [[2023-05-18 16:25:12] 2 files could (M) [[2023-05-18 16:25:12] 2 files could (M) [[2023-05-18 16:25:12] 2 files could	received information for otworm/wormvolume/2023 files TaskID: 49497 Inot be delated: wormvolume/2023/05/17/10/2951 eption: Bulk delate failed. Some files could not be otbe delated: wormvolume/2023/05/17/10/2551 In ot be delated: wormvolume/2023/05/17/10/2551	3018/aaabo2g13ldgiy5ihqar deleted. Please check logs 018/aaabo2g13ldgiy5ihqao 3018/aaabo2g13ldgiy5ihqao	oqiubooobs-C for more deta qiubooobs-00 oqiubooobs-C	0_00_00_00000DC/A ails atte.Do() atig.c(i _00_00_00000DC/AT 10_00_00_00000DC/A	TTRIB.ATR: Intern a bcw) TaskID: 494 TRIB.ATR: Internal TTRIB.ATR: Intern	al Errorwormvolume/2023/0 497 I Errorwormvolume/2023/05, al Errorwormvolume/2023/0
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3.1 Result Summary

Number	Test Cases	Results
1	Add the storage to the archive server as S3 target storage	Passed
2	Archive files to the storage through the archive server	Passed
3	Retrieve archived files from the storage through the archive server	Passed
4	Retention Period Testing	Passed

3.2 Conclusion

All the interoperability test cases were completed. The Huawei OceanStor Pacific Scale-Out Storage supports connecting to the OpenText Archive Server through the S3 protocol as target storage. The system works as expected for file archiving, retrieving, and retention period. With regards to the test results, the Huawei OceanStor Pacific Scale-Out Storage and the OpenText Archive Server are well interoperable.

3.3 Signature

Company Name: Acondistec GmbH
Signature:
J. Dieb
Date: May 31, 2023