

# **Configuration of Hitachi Content Platform with Enterprise Vault as Primary S3 Storage**

Content Engineering

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#### **Abstract:**

This guide provides the steps on how to create HCP WORM/NON-WORM namespace and to configure HCP as a Primary S3 storage target with Veritas Enterprise Vault.

### **Revision History**

Version	Date	Description	Author	Reviewers
1.0	06 June 2024	Configuration of Hitachi Content Platform with Enterprise Vault as Primary S3 storage	Snehansh Verma - Hitachi Vantara	Rahul Patil - Veritas

#### **Tenant Settings**

(Prerequisites for WORM and NON-WORM Bucket creation)

1. Navigate to System Management console of HCP and hover over Security. Select the user and make sure it has the following roles assigned.

admin	Enabled admin	LOCAL
✓ Enable account		User ID: 39b68196-49b0-4a77-a8c1-acb6d7b6b127
Username admin	Password	Roles Description
Full Name admin	Confirm Password	Monitor     Administrator     Security     Service     Compliance     Search     Mouse over a role to view its description.
	Force change on next login	
		Update Settings Cancel

2. Hover over Security and select MAPI. Click the checkbox Enable the Management API (Perform the same at Tenant Management Console as well).

Allow Deny       Add r Delete All         Image: Interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Interface that allows applications to access and modify and delete tenants         Image: Interface that allows applications to access and modify and delete tenants         Image: Interface that allows applications to access and modify and delete tenants         Image: Interface that allows applications to access         Image: Interfa	Overview	Hardware	Storage	Tenants	Services	Security	Monitoring	Configuration	👤 User: admin   L	.og Out   Password	Q 🗐
Allow       Deny       Management API Settings         Image: Include the management API is a REST interface that allows applications to access and modify some of the HCP system settings. For example:       Image: Include the management API is a REST interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Include the management API is a REST interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Include the management API is a REST interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Include the management API is a REST interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Include the management API is a REST interface that allows applications to access and modify some of the HCP system settings. For example:         Image: Include the management API is a REST interface that allows applications to access and modify and delete tenants:         Image: Include the management API is a REST interface that allows applications to access and modify and delete tenants:         Image: Include the management API is a REST interface that allows applications to access and modify and delete tenants:         Image: Include the management API is a REST interface that allows applications to access and modify and delete namespaces         Replication:       Image:	Manage	ement API									
Add v Delete All         Image: Output of the state	Allow	Deny					Ma	nagement API Settings			
Allow request when same IP is used in both lists	田 0. 田 :::	0.0.0/0			Add	y Delete All	Thu anu Cre Cre Cre Cre Cre Cre Cre	Enable the management AP e management API is a REST if d modify some of the HCP syste mants: wate, modify, and delete tenants mants you can administer: ate, modify, and delete names plication: wate, schedule, and monitor rep	ץ interface that allows applicatio m settings. For example. s paces plication links	ins to access	
Update Settings Cancel		w request whe	n same IP is	used in both	lists				Update Settings	Cancel	

#### Create HCP Object Lock (WORM) Namespace

1. Navigate to Tenant Management console of HCP and click on the "Create Namespace" to proceed with Namespace creation.



2. Make sure to provide the Namespace owner.

v	Create Namespace	80.74 GB Used 415.26 GB Available 🗕	
	Namespace Name	Namespace Owner (Optional)	
	Test	security O Local O Active D	lirectory
	5 namespaces used 9595 namespaces available		

3. Provide the Namespace name and turn on the S3 **Object lock**, select Search as ON and enable "Allow overwrite of objects via Hitachi API for Amazon S3 if versioning is disabled".



4. Click on Policies, turn on the Retention (Enabled) and set Retention period as "1 day", change Default Retention mode to Compliance and click on Update Settings.

Overview Policies	Services Protocols Monitoring Settings Security								
Indexing									
Metadata	Namespace Retention Type : S3 Object Lock								
Multipart Upload									
Retention Default Retention									
Shredding	Automatically protect new objects put into this namespace from being deleted or overwritten								
Versioning									
	Default Retention Mode								
	Governance								
	Users with specific permissions can overwrite or delete protected object versions during the retention period.								
	O compliance No users can overwrite or delete protected object versions during the retention period.								
	Default Retention Period								
	1 Days 🗸								
	Update Settings Cancel								

5. Verify Search has been Enabled on all the options under Services.

	Overview	Policies	Services	Protocols	Monitoring	Settings	Security		_
	Disposition					All objects hefr	ore Thu Jun 06 2024 3:06:25 E	MEDT have been indexed	
	Replication		Search			All Objects bere	Sie 1112 0211 00 2024 5.00.251	WEDT Have been indexed.	
	Search		- Enable s	earch					
-	Service Plan			Garch					
			🖌 Enable ir	ndexing					
			🗹 Enable ir	ndexing of custor	m metadata				
			🗹 Enable fi	ull custom metad	lata indexing				
			Exclude Ann	intations from Inc	lexina				
			Comma-sepa	rated list, regular	expressions allowed				
			Content Clas	sses to Use					
						No. 00-11-1 01 5			
						vo Content Classes Fo	ouna		
							Update Settings	Cancel	
							opute settings	Galicci	

6. Make sure the Minimum Data Access Setting has all permissions enabled.

nwhcp3	1 6				14.07 M	B of 50.00	GB	
Overview Policies Services Compliance Protocols	Monito	ring	Settings	Secur	ity	_	_	
Minimum Nata Access Permissions								
	Browse	Read	Write	Read ACL	Write ACI	Delete	Pume	
Anonymous and Authenticated Access*	<b>V</b>	2		<b>Z</b>	<b>Z</b>			
Authenticated Access Only	2	<b>V</b>	2	2	2	2		
Advanced Settings » For Protocols with 'Authenticated Access Only' C Enforce anonymous permissions for authenticated users								
You are using a protocol with anonymous access to ingest data but accessing that	data with a	ne. protocol u:	sing authenti	cated access (	only.			
				11			<u></u>	

7. Make sure the following protocols have been enabled.



8. Enable Enforce ACL under Settings.

Overview	Policies	Services	Protocols	Monitoring	Settings	Secu	ity	_
ACLs								
Compatibility		V Enable ACL						
Tags		Fnforce	ACLS					
Name		Enoroon	1025					
Optimization								
Overwrite								
							Update Settings	Cancel

9. Make sure the Namespace gets created without any errors and listed under Namespaces in S3 Console.

#### **Create HCP Non-WORM Namespace**

1. Navigate to HCP Tenant Management Console and click on the "Create Namespace" to proceed with Namespace creation.



 Provide the Namespace name and storage, select Replication ON, Protocol Optimization as Cloud Protocol, Directory Usage as Balanced, Retention Type as HCP Retention, Search ON and Versioning OFF, but enable "Allow overwrite of objects via Hitachi API for Amazon S3 if versioning is disabled".

Replication	Search
◯ Off	O Off
On	On
Protocol Optimization	Service Plan
O All protocols Balanced directory usage only	Default
Cloud protocols	Versioning
Directory Usage	• Off
Balanced	O On
O Unbalanced Requires cloud protocols only	Allow overwrite of objects via Hitachi API for Amazon S3 if versioning is disabled
Retention Type	
S3 Object Lock Requires versioning, cloud protocols and delete markers enabled	
HCP Retention	
HCP Retention Mode	
O Enterprise	
Compliance	

3. Make sure to provide the Namespace owner.

۷	Create Namespace	80.74 GB U	sed 419.26 GB Available
	Namespace Name	Namespace Owner (Optional)	
	Test	security	Local Active Directory
	5 namespaces used 9595 namespaces available		

4. Click on the Create button to create Namespace with given configurations.



5. Make sure the Namespace gets created without any errors and listed under Namespace in Tenant Management console.

Hitachi ( Tenant Man	Content Platf	orm									
Overview	Namespaces	Services	Security	Monitoring	Configuration			👤 User: secu	rity   Log Out   Pa	assword	۹ 🗉
Names	paces										
> Crea	ate Namespace					80.7	4 GB Used 419.26 G	B Avallable —			
۰									1 - 5 of 5 Na	amespa	ces
Name	~			Q			20 🖌 Items	per page	Page 1	of 1	
Name					Object Count	Alerts	Usage		Quota 🕈		
⊳ evnv	vhcp							0.00 bytes	of 200.00 GB	<b>1</b>	
⊳ evnv	vhcp2						-	0.00 bytes	of 50.00 GB		
⊳ evnv	vhcp3					0		14.07 MB	of 50.00 GB	Ĺ	
⊳ evnv	vhcp4				0		-	0.00 bytes	of 50.00 GB	L	
⊳ evnv									of 150.00 GB		

6. Make sure the Minimum Data Access Setting has all permissions enabled.



7. Please ensure all the following Protocols are enabled.



8. Make sure ACL settings are enforced.



#### **Configure HCP as Veritas Enterprise Vault Partition**

Before configuring the HCP (WORM/NON-WORM namespace) as primary partition, complete the following steps:

- Keep your HCP Access Key ID and Secret Access Key ready.
- Ensure that the S3 Namespace that needs to be configured with the primary partition has been created on the HCP storage, and that you know the name of your namespace.

Note: Enterprise Vault archive policies employ specific fixed retention dates of up to 100 years and do not use the forever default policy because infinite retention is not supported by HCP.

#### Add a new EV partition with HCP

- 1. Launch the Enterprise Vault Administration console.
- 2. In the left pane of the Administration console, expand the vault store in which you want to create the partition.
- 3. Right-click the Partitions container, and then click New > Partition. The New Partition wizard starts and Click Next.



4. Provide the name and description for the partition, Click Next.

	Enter a name and a description for the new Vault Store Partition	ь. -
	Name:	
	EV Ptn2	
	Description:	
	Partition of Vault Store for EV	
	A Vault Store can have only one partition open for archiving. If open this new partition, any existing open partition will be closed	you d.
VERING	Create this new partition: Open ~	

 Select "Hitachi Content Platform for Cloud Scale(S3)" from the storage type drop-down menu. Click Next.

	Enterprise Vault can create a Vault Store Partition on various types of storage. Click Help for more information.
	Storage type:
	Hitachi Content Platform for Cloud Scale (S3) $$ $$ $$
	Storage description:
	Hitachi Content Platform for Cloud Scale (S3) connects to any storage device that is compliant with the S3 protocol.
VEDITAS	
VERINS	For essential information regarding the support of these devices, see the Enterprise Vault <u>Compatibility Charts.</u>

- 6. To configure HCP Object Lock (WORM) namespace as Primary S3 storage target, Select the "Store data in the WORM mode using S3 Object Lock".
- 7. To configure HCP CS NON-WORM namespace as Primary S3 storage target, Leave the "Store data in the WORM mode using S3 Object Lock" Unchecked.
- 8. Click Next.

	How do you want Enterprise Vault to store data in the Hitachi Content Platform for Cloud Scale (S3) bucket?	
VERITAS	Click Help for more information	
	< Back Next > Cancel He	lp

- 9. On the connection settings page, provide the following information:
  - Access key ID
  - Secret access key
  - Service host name:(http://<cluster Host name>)
  - Namespace name: Name of the pre-created target HCP namespace.
  - Namespace region: Specify the Geographical region where the namespace is created (Example: us-east-1)

For more details on additional properties, please Refer:

https://www.veritas.com/content/support/en\_US/doc/143662409-1436624120/v149448814 https://www.veritas.com/content/support/en\_US/doc/143662409-143662412-0/v149448814-143662412143662412 10. To verify the connection to the HCP namespace, click Test. Verify that the connection test was successful. Click OK and then Next.

	Setting Access key ID Secret access key Service host name Bucket name Bucket access type	Value _Z664a ******* http:// ev-noi Virtual	afMWtgvm ****** /cluster105e nworm I
	Bucket region	us-eas	:t-1
	Reset All Test	:	Modify
VEDITAC	Description		
Enterprise Var	ult tachi Content Platform for Cloud Scale icceeded.	(S3) connec	x:tion test

 Select the "When Archived Files Exist on the Storage" Option and click Next (HCP does not support the S3 replication acknowledgement in the required format for EV).

New Partition	Enterprise Vault secures the archived items in the S3-compliant storage at the configured scan interval.	×
	<ul> <li>When archived files are replicated on the storage</li> <li>When archived files exist on the storage</li> <li>Configure partition scan interval to 60 minutes</li> </ul>	
VERITAS		
	< Back Next > Cancel Help	

12. Verify the information on the summary page and click Finish and ensure that created partition lists under the vault store partitions.

	You have now entered all Vault Store Partition:	the information required to create the	new
	Vault Store Partition		^
	Name: Description:	= EV Ptn2 Partition of Vault Store for EV	
	Storage: Service host name: Bucket name: Bucket region: Bucket access type: Storage class:	Hitachi Content Platform for Clou http://duster105e-2.lab.archiva ev-nonworm us-east-1 Virtual S3 Standard	id s.
VERITAS	<		>
	Click Finish to create the n	ew Partition.	

13. According to AWS knowledge base <a href="https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-envvars.html">https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-envvars.html</a> it is possible to implement the system variable AWS\_EC2\_METADATA\_DISABLED=true on EV Server.

Follow below steps:

For each Enterprise Vault Server, define a new System variable as follow:

a. From the Control Panel, search for System and then click the Edit the system environment variables option.



- b. Open Environment Variables.
- c. Within System variables, create the AWS\_EC2\_METADATA\_DISABLED to TRUE.

Variable	Value					
Path	C:\Use	ers\vsa\AppDat	a\Local\Micros	oft\WindowsApp	DS;	
TEMP	C:\Use	rs\vsa\AppDat	a\Local\Temp		-	
ТМР	C:\Use	rs\vsa\AppDat	a\Local\Temp			
			<u>N</u> ew	<u>E</u> dit	Delet	te
stem variables Variable		Value	<u>N</u> ew	<u>E</u> dit	Delet	te ^
stem variables Variable AWS EC2 METADATA DIS/	ABLED	Value	<u>N</u> ew	<u>E</u> dit	Delet	ie ^
stem variables Variable AWS_EC2_METADATA_DIS/ ComSpec	ABLED	Value TRUE C:\Windows	<u>N</u> ew	<u>E</u> dit	Delet	ie A
stem variables Variable AWS_EC2_METADATA_DIS/ ComSpec DriverData	ABLED	Value TRUE C:\Windows C:\Windows	<u>N</u> ew \system32\cmc	d.exe vers\DriverData	Delet	ie A
stem variables Variable AWS_EC2_METADATA_DIS/ ComSpec DriverData lib	ABLED	Value TRUE C:\Windows C:\Windows C:\Program	<u>N</u> ew \system32\cmc \System32\Driv Files (x86)\SQL)	d.exe vers\DriverData XML 4.0\bin\;C:\I	Delet	SQL
stem variables Variable AWS_EC2_METADATA_DIS/ ComSpec DriverData lib NUMBER_OF_PROCESSOR	ABLED	Value TRUE C:\Windows C:\Windows C:\Program 4	<u>N</u> ew \system32\cmc \System32\Driv Files (x86)\SQL)	<u>E</u> dit d.exe vers\DriverData XML 4.0\bin\;C:\I	Delet	SQL
stem variables Variable AWS_EC2_METADATA_DIS/ ComSpec DriverData lib NUMBER_OF_PROCESSOR OS	ABLED	Value TRUE C:\Windows C:\Windows C:\Program 4 Windows_N	<u>N</u> ew \system32\cmc \System32\Driv Files (x86)\SQL)	d.exe vers\DriverData XML 4.0\bin\;C:\I	Delet	sql
stem variables Variable AWS_EC2_METADATA_DIS/ ComSpec DriverData lib NUMBER_OF_PROCESSOR OS <	ABLED	Value TRUE C:\Windows C:\Windows C:\Program 4 Windows_N	<u>N</u> ew \system32\cmc \System32\Driv Files (x86)\SQL) T	<u>E</u> dit d.exe vers\DriverData XML 4.0\bin\;C:\I	Delet	sql >

- d. Click OK and restart the Enterprise Vault services by restarting the Enterprise Vault Admin Service.
- 14. HCP has now been added as Primary S3 Vault Store Partition and ready for data archival.