# **Unified Surveillance Platform (USP) 5.0**

# **User Guide**

6-069079-01 Rev B



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# **Overview**

This document outlines how to use Unified Surveillance Platform (USP) 5.0. It will guide you through deploying and configuring instances, as well as viewing the overall performance and health of the USP cluster.

# Launching the USP Management Interface

1. Navigate to the USP management interface using the Cluster IP that was configured during installation: <u>https://<cluster\_ip>/quantum/usp/dashboard/</u>

*NOTE*: Quantum recommends that you always use the latest version of Chrome to access the USP Management Application. The web application runs best at 1920\*1080 resolution.

- 2. Enter the username and password defined during installation.
- 3. Click on Login.





# **Dashboard Overview**

The following section describes the landing dashboard page. You can navigate back to this page from anywhere in the application by either clicking on the **Quantum** logo in the top-left corner or selecting



Overview from the navigational menu

#### **Instances**

This section of the dashboard lets you quickly see the instance count on the USP cluster. The section illustrates the number of instances that are powered on and how many are in an error state. You can click anywhere in this section on the dashboard to navigate to the Instances page.

Instances			
	4	4	0
	Total	On	Error

#### <u>Volumes</u>

The Volumes section of the dashboard displays the total number of volumes on the cluster. It describes the volumes used by your instances and those that are currently detached from any instance.

Volumes			
	10	8	2
Ð	Total	Attached	Detached

#### Total Storage

This dashboard section shows the available space on the system. It includes space used by your instances, any volumes attached to those instances, as well as space used to maintain the USP infrastructure.



#### **Overall Health Status**

The Overall Health Status shows an overview of the health of your system with a counter for issues reported on the system.



#### Infrastructure Monitoring

Infrastructure Monitoring shows the overall health of your vPG, broken down into sections of hardware with issues.

27	Ð	vPG	
Disks		VPG102015	093
<b>^</b> 27	<b>∀</b> 0	O LS	• PS
	•		ţ
3		12	
Nodes		NICs	
<b>^</b> 3	<b>∨</b> 0	<b>^</b> 12	<b>∨</b> 0

#### <u>Disks</u>

This section provides a count of the disks on the system. If there are any disks next to the red down arrow, those disks have failed and should be replaced.

#### <u>vPG</u>

This section shows your system's backend storage health. Both Logical (volume) and Physical (node) states are displayed, as reported by the storage system.

#### <u>Nodes</u>

This section shows the cluster health from the OpenStack perspective. If any nodes are not responding to heartbeats, they will be listed next to the red down arrow.

#### <u>Nics</u>

This section shows the health of the Nics (Network Interface Cards) across the cluster.

#### Instance Performance Overview

The top portion of this graph shows the average CPU and memory usage for all instances on the cluster. The total disk and network access values are also shown for all instances. The bottom sections show the top 5 instances in each category (CPU, memory, disk access, and network access).

CPU Usage	6.41 %	Memory Usage	6.01 %
Top Instances by CPU Usage Win_6 Win_8 Win_4 Win_3 Win_3 Win_1 Win_2 Win_5 Win_5		Top Instances by Memory Usage Win_4 Win_3 Win_1 Win_2 Win_5 Win_5 Win_6 Win_7 Win_8	
0%	100%	0%	100%

#### **Detailed Instance Performance**

This section describes how to view the detailed performance statistics for one or more instances.

• Right-click on the instance and select Add to Deck.





• After the instances have been added to the deck, they will turn red.



• In the top-right corner of the USP Management Application, click on the slider to display the advanced performance chart.





Quantul Unified Surveillance Platform	<b>15.0.0.33/3423</b>									¢		) <i>«</i>
CPU Memory	đ	*						» – Indraam	entos_1 — win_		C Refree	
	CPU Usage %	%									Day	
	٥	·*	06 PM	09 PM	Thu 06	O3 AM	06 AM	09 AM	12 PM	03 PM	Week	
WIN_1			CENTOS_1			US AM	UG AM	U9 AM				

• To remove instances from the deck, first exit the performance chart, right-click on the instance, and then remove it. You can remove a single instance or remove all instances at once.



# Infrastructure Monitoring

To view the infrastructure monitoring page, click **Infrastructure Monitoring** displayed on the dashboard side menu.



Alternatively, you can launch the Infrastructure Monitoring page by clicking anywhere in the **Infrastructure Monitoring** pane on the dashboard.

Infrastructu	re Monitoring			
	42	$\bigcirc$	vPG	
	Disks		VPG102014	9113
	<b>^</b> 42		• LS	• PS
	3	<u>•</u>	12	4
	Nodes		Ports	
			^ 12	

#### Hosts View

By default, the Hosts view is shown first. It lists the CPU, disk, memory, services, and network usage for each host in the cluster. This view also shows the status of each host. On the right side of the screen, the view shows the specific hardware information for CPU, disk, memory, and status.

Quant Unified Surveillance PL	um. 📃					A 🖻 🍉
🗐 Host	s					
LOGICAL ST		Auto Heal				
DUNCICAL C		Quick Not	de Rebuild Status :			
PHYSICALS		OS Upgrad	de Status :			
	CPU	<ul> <li>DISK</li> <li>538.63 MiB/s</li> </ul>		∳ NETWORK	ft STATUS	
st1		▼ 154.63 MiB/s		▼ 11.01 MiB/s		VETER
vg1028ho st2		▲ 244.66 MiB/s ▼ 180.74 MiB/s		▲ 19.60 MiB/s ▼ 0.23 MiB/s		
vg1028ho st3		▲ 130.14 мів/s ▼ 133.55 мів/s		▲ 0.07 MiB/s ▼ 0.84 MiB/s		

On the right side of the display, select one of the hosts to see its details.

#### CPU View

Quantum =			¢ 🖻 🌒
💻 vg1028host1			
CPU DISK		ORK SERVICES	
	Live Usage		
	17 %		vg1028host1 vg1028host2 vg1028host3
×86_64	3000.000 MHz		
L2 Cache	L3 Cache	Model Name	▲ 538.63 MiB/s ▲ 50.19 MiB/s
1.0 MB	16.5 MB	Intel(R) Xeon(R) Silver 4116 CPU @ 2.10GHz	/ 17 % / 17 % v 154.63 MiB/s v 11.01 MiB/s

#### Acuity Storage Disks View

To view the Acuity Storage details, click on the **Storage** icon on the right side of the screen. This shows physical state of the disks in the server and the health of each disk that is passed through to the Acuity Storage VMs.



## Memory View



#### Network View



#### Services View



# Manage Instances

#### Upload OS Image

To create an instance, you first must upload an instance OS image.

1. To upload an image, select **OS Images** from the navigation menu.



2. Press the plus button in the top right corner.

3. Enter the Name, OS Type, OS Distro, and browse to the raw image on your local file system. Press **CONFIGURE** to upload the image.

*NOTE*: The amount of time for this operation varies and will depend on the local network configuration.

*CRITICAL:* Do not refresh the web browser during this operation. Doing so can cause the operation to fail and it will need to be restarted.

OS Type	• OS Distro	Browse No file selected.

#### Create Instance

This section describes how to create an Instance.

1. Navigate to the Instances view by selecting **Manage Instances** from the left-hand navigation menu.

Uni	Duantum. Fied Surveillance Platform
9	Overview
	Infrastructure Monitoring
	Manage Instances
	OS Images
	Advanced Storage Configuration 🛛
۵	Cloud-Based Analytics 🛛
i	Support <sup>II</sup>
r	
$\uparrow$	Upgrade
0	About
сy	Recycle Bin () Logout
	USP: QMCO_USP-5.0.0-230927

2. Click on the 'Plus' icon in the top-right corner of the **Manage Instances** pane.

	٩	۵	в	•
VS 🗟 2 @ 2G8 . ❹ 11 G8				+
TOTAL: 1 cont. 1 ACTIVE: 1 SHUTOFF: 0				

3. Enter the Instance details and press NEXT.

Instance1		vg1028host1		
8	Vm_netwo	ork_1 10.20.144.0/21	Windows2019	
	vm_netwo	ork_1 10.20.144.0/21	Windows2019	
		V		
		aos		

*CRITICAL:* This release only supports creating a single instance at a time. Do not attempt to create more than one instance at a time.

*NOTE*: Changing the QoS settings is not supported in this release.

- 4. Confirm the instance name and enter the IP information.
- 5. Check the **Auto Evacuate** checkbox if you want the instance to be migrated to a new host in case of failure.
- 6. Enter the Acuity storage details for the boot volume.

*NOTE*: It is recommended to choose EC 3p for the Instance OS boot volume to get the best protection to performance ratio.

7. Verify the setting and then click on **CREATE** to create the instance.

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			Add Instance					×
Instance	Instance name Instance1_1					🗌 Auto Evacua		
Volume	Storage provider Acuity			EC level				
					Maxim	um Volume Size : 1	21,690.00 GiB	
GO BACK							CA	INCEL CREATE

#### View Instance Details

To view the instance details, hover your mouse over the instance icon in the Manage Instances pane.

Ouantum. =	Ú 🖬 O 🗄			م	¢	Ð	
<b>VS ⊞</b> 2 ∰ 2 GB	11 GiB						
	● 						
TOTAL: 1	cent_1						
	General Info	Meta Data					
	Name	cent_1					
	Status	ACTIVE					
	VCPUs	2					
	RAM	2048 MB					
	Host	srv01					
	Volume: cent-1-OS(Acuity)	11 GIB					
	rempiace	centos/					

#### **VNC** Console

To view the VNC console of an instance, double-click the instance icon in the **Manage Instances** page. This launches a separate browser tab where you can view the VNC console. Make sure to enable popups for the USP Management Application.

Connected to QEMU (instance-0000000a)	
Cent0S Linux 7 (Core)	
Kernel 3.10.0-1127.8.2.e17.x86_64 on an x86_64	
uidev-1 login:	

#### **Instance Power Options**

Select an instance in the **Manage Instances** section and select the **Power Settings** icon in the top of the web application to perform power options on an instance.



#### Live Migration

To move an instance to a different host, navigate to the **Management Instances** pane, click on the More Settings icon at the top, and then select **More > Migrate.** From this dialog, you can choose where to move your instance.



#### Instance Volume Update

1. Select an instance in the **Manage Instances** section and select the **Disk** icon in the top of the web application to perform Volume actions on an instance. Then Click on Attach/Detach Volumes.

Cuantum. = 😃 🖬 🕂 Atlach/Delach Volumes	٩	¢	B	
Image: WS     Image: Backup/Restore Volumes       VS     Image: Backup/Restore Volumes				+
AVAILABLE TOTAL: 6 ACTIVE: 6 SHUTOFF: 0				

2. Click on the Disk you want to edit. Enter the Details and click on "Apply Changes."

Quantum.	0 🗄		۹		0
VS ∰ 48 ∯ 96 GB ● 5	Instance Volume Configuration			l	+
AVAILABLE	win_6				
	Acuity EC-Level  Volume Size (GB) host6-vol1  Maximum Volume Size : GB  APPLY CHANCES				
		NCEL			

3. Click on "Confirm".

Quantum. = 🔮		Q	¢	B	•
VS 🔠 48 🏥 96 GB <b>⊙</b> 3					+
	Instance Volume Configuration X				
TOTAL: 6 ACTIVE: 6 SHUTOFF: 0	win_6				
	√xew/xda         34.00         ●         800.00         GB				
	CANCEL				

#### **Instance Volume Addition**

1. Select an instance in the **Manage Instances** section and select the **Disk** icon in the top of the web application to perform Volume actions on an instance. Then click on Attach/Detach Volumes.



2. Click on the + Button. Either select an already **Existing Volume** or fill in all the details to create a **New Volume.** Click on "Add Volume."

Quantum. = 🔮 🖬 💿		Q 🗘 🖹 🌑
VS 13 48 49 96 G8 ● 3		× +
AVAILABLE TOTAL: 6 ACTIVE: 6 SHUTOFF: 0	win_6           Wends           34,00           GB           Maximum Volume Size: 8,814.00 Gd	
	Select existing volume    Select existing volume	
		NICEL

3. The New Disk will appear in the list. Click on Confirm to add the volume to your VM.

VS I 48 96 GB O 3204 GIB AVAILABLE TOTAL: 6 ACTIVE: 6 SHUTOFF: 0 VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Quantum = 🕛 💼 💿	<b>:</b>		
AVAILABLE TOTAL: 6 ACTIVE: 6 SHUTOFF: 0 Win_6 Win_6 Win_6 Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda Monda M	VC III 48 10 06 CB 0 3204 CB			
AVAILABLE TOTAL: 6 ACTIVE: 6 SHUTOFF: 0				
TOTAL: 6 ACTIVE: 6 SHUTOFF: 0				
ACTIVE: 6 SHUTOFF: 0	TOTAL: 6			
Mentata         Mentata         ×           ●         34,00         ●         500,00           ●         GBB         ●         100,00           GBB         ●         GBB         ●	ACTIVE: 6 SHUTOFF: 0	win_6		
GIB GIB GIB		Mawrida: 34.00 500.00 100.00		
		GIB GIB		
UNVEL CONHON		CANCEL CONFIGM		

#### Instance CPU & RAM UPDATE

 Select an instance in the Manage Instances section and select the "Three Dots" icon in the top of the web application to perform CPU/RAM change actions on an instance. Then Click on "Configure Instances."

Quantum. =	u 🖬 O 🔒	Configure Instance	٩	¢	B	•
	. /	Create Template				
VS 📑 48 👾 96 GB	• 3204 GiB					+
AVAILABLE	:	More >				
	win_1	win_2 win_3 win_4 win_5 win_6				
ACTIVE: 6 SHUTOFF: 0						

2. Under the "**Resize**" Tab, you will see the Values for vCPU and RAM. Adjust them accordingly as per your requirements. Then Click on "Apply."

Ouantum.			•
	More Settings		
VS 📰 48 🤠	96 GB 💽 3204 GiB		+
AVAILABLE	Instance Settings		
TOTAL: 6			
ACTIVE: 6 SHUTO			
	Auto Evacuate: <b>true</b> 💿 true 🚫 false		
	APPLY		

3. Click on "Apply" again. And wait for the VM to reboot.



# Events & Logs

You can view the critical events and the logs by clicking on the **Bell** and **Log** icons respectively, which are in the top-right corner of the application.



			Logs	
		Actions	NICs Storage Events	Î
Date/time (UTC)	Username	Status	Message	
Sep 28, 2023, 3:55:05 PM		COMPLETED	Instance Win2k19_5 CREATE completed with ram 18 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 3:29:42 PM		STARTED	Instance Win2k19_5 CREATE started with ram 18 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 3:27:00 PM		COMPLETED	Instance Win2k19_4 VOLUME CREATE completed with name w2k19-4-1, size 1024GiB, ec-level ec-3 and type Acuity.	
Sep 28, 2023, 3:26:02 PM		STARTED	Instance Win2k19_4 VOLUME CREATE started with name w2k19-4-1, size 1024GiB, ec-level ec-3 and type Acuity.	
Sep 28, 2023, 1:13:50 PM		COMPLETED	Instance Win2k19_4 CREATE completed with ram 16 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 12:51:51 PM		STARTED	Instance Win2k19_4 CREATE started with ram 16 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 12:49:19 PM		COMPLETED	Instance Win2k19_3 VOLUME CREATE completed with name win2k19-3-1, size 1024GiB, ec-level ec-3 and type Acuity.	
		OTADITO	Instance Win2k19_3 VOLUME CREATE started with name win2k19-3-1, size 1024GiB, ec-level ec-3 and typ	

# Health and Monitoring

## Viewing Events & Tasks

To view the events and tasks, click the **Log** icon in the top right corner of the management application to launch the **Logs** dialog.



# <u>Actions</u>

Shows the user-initiated actions like creating instances.

			Logs	×
		Actions	NICs Storage Events	Î
Date/time (UTC)	Username	Status	Message	
Sep 28, 2023, 3:55:05 PM		COMPLETED	Instance Win2k19_5 CREATE completed with ram 18 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 3:29:42 PM		STARTED	Instance Win2k19_5 CREATE started with ram 18 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 3:27:00 PM		COMPLETED	Instance Win2k19_4 VOLUME CREATE completed with name w2k19-4-1, size 1024GiB, ec-level ec-3 and type Acuity.	
Sep 28, 2023, 3:26:02 PM		STARTED	Instance Win2k19_4 VOLUME CREATE started with name w2k19-4-1, size 1024GiB, ec-level ec-3 and type Acuity.	
Sep 28, 2023, 1:13:50 PM		COMPLETED	Instance Win2k19_4 CREATE completed with ram 16 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 12:51:51 PM		STARTED	Instance Win2k19_4 CREATE started with ram 16 GB, 4 vcpus and network vm_network_1 10.20.144.0/21.	
Sep 28, 2023, 12:49:19 PM		COMPLETED	Instance Win2k19_3 VOLUME CREATE completed with name win2k19-3-1, size 1024GiB, ec-level ec-3 and type Acuity.	
		OTADTED	Instance Win2k19_3 VOLUME CREATE started with name win2k19-3-1, size 1024GiB, ec-level ec-3 and type	ose

# <u>NICs</u>

Shows the physical NIC related events.

			Logs			
		Actions	NICs	Storage Events		
Host	Date/Time (UTC)	NICS		Status	Interface Type	
						CLOSE

#### Acuity Storage Events

Shows the Acuity backend-storage events.

			Logs			×
		Actions	NICs	Storage Events		Â
Object	Date/Time (UTC)	System Name	Severity	Description		
vPG	Sep 28, 2023, 9:32:52 PM	VPG1020149113	WARN	vPG VPG1020149113 has logical s	state Maintenance Mode Synchronization.	
vPG	Sep 28, 2023, 9:32:52 PM	VPG1020149113	WARN	vPG VPG1020149113 has physica	l state Maintenance Mode Synchronizatio	
vPG	Sep 28, 2023, 9:25:15 PM	VPG1020149113	WARN	vPG VPG1020149113 has logical s	state Maintenance Mode.	
vPG	Sep 28, 2023, 9:25:15 PM	VPG1020149113	WARN	vPG VPG1020149113 has physica	l state Maintenance Mode.	
vPG	Sep 28, 2023, 9:22:00 PM	VPG1020149113	INFO	vPG VPG1020149113 has logical s	state Normal.	
vPG	Sep 28, 2023, 9:22:00 PM	VPG1020149113	ERROR	vPG VPG1020149113 has physica	l state Incomplete Upgrade.	
vPG	Sep 28, 2023, 9:17:59 PM	VPG1020149113	WARN	vPG VPG1020149113 has logical s	state Maintenance Mode Synchronization.	
vPG	Sep 28, 2023, 9:17:59 PM	VPG1020149113	WARN	vPG VPG1020149113 has physica	l state Maintenance Mode Synchronizatio	
vPG	Sep 28, 2023, 9:13:01 PM	VPG1020149113	WARN	vPG VPG1020149113 has logical s	state Maintenance Mode.	
vPG	Sep 28, 2023, 9:13:01 PM	VPG1020149113	WARN	vPG VPG1020149113 has physica	l state Maintenance Mode.	
						LOSE

#### Viewing Current Issues

If there is a problem with the cluster, you can launch the **Issues** dialog to see all issues in one location. Press **View Issues** on the dashboard to launch the Issues dialog.



Host Storage	
Description	
Logical state of vPG VPG1020149113 is in maintenance mode. Maintenance Mode	
Physical state of vPG VPG1020149113 is in maintenance mode. Maintenance Mode	

## Launching the Acuity Advanced Storage Configuration Utility

To launch the Acuity Advanced Storage Configuration Utility, navigate to the USP Menu and select Advances Storage Configuration.



Log on to the Advanced Storage Configuration Utility using the same credentials you used to access the Quantum USP Management Application.



Ouantum Advanced Storage Configuration					Filte	Iter by vPG / Node name		∕  <b>⊙. 0 ୯</b> [→
Dashboard	STORAGE UTILIZATION	LOGICAL DOMAIN		PHYSICAL DOMAIN		DEVICE HEALTH S	TATE	
Virtual Performance						Node / vPG Name	Q. Device Status	Q Device C Q
Storage Provisioning	98%							
Configure	AVAILABLE SPACE		Normal 1		Normal	3		
ToolBox	Utord - 0.400 Till 4 willshide - 982 072 Till	Systems	Degraded 0	Assigned 🕞		0		
A Settinger	Total Storage - 392.482 TiB	Volumes	Maintenance Mode 0	Unassigned 🔊		0		
- Octango	SATA	- 15		- ° õ		0		
	Used:9.4 TiB Available:383 TiB			0		0		
		SYSTEM UTILIZATION			VOLUME HOST CONNECTION	DN - ISCSI Connection (Active   Ine	ictive)	
		Name	Q. Total	Available	Volume Name 0	Q. Host IP/Initiator Na	vPG Name	ୟ iSCSI Connec ସ୍
		PG1020149113	392.482 TiB	383.072 TiB				
						i Click the refresh		

#### Viewing the Acuity VM Console

- 1. Log on to the USP CentOS console.
- 2. Click the **Activities** button, located in the upper left-hand corner.

3. Search for Virtual Machine Manager and click on the icon to launch.



4. Select the **Acuity-VM** instance and click on **Open** to launch the console.

	Virtual Machine Manager	×
	File Edit View Help	
	📔 🖉 pen 🕞 💷 🗖 👻	
Show	Name the virtual machine console and details CEMU/KVM	✓ CPU usage
	Acuity-VM Running	
	Running	
	Running	

#### Cloud-Based Analytics (CBA) Portal

The USP product will automatically report to Quantum's CBA portal. Log in to the <u>Quantum CBA Portal</u> <u>UI</u> from any browser and type in your user details and credentials. If you do not have access to the portal, request access through the <u>Quantum CBA Portal UI</u> by clicking the *Request Site Access* link.

Once you log in, the CBA portal UI displays the solutions and nodes that are mapped to your account. The portal can also display your account information and association token.

The Quantum CBA portal displays the options to view **Solutions** and **Nodes**. To monitor the VS-NVR servers, click **Nodes**.



Health	Customer	Node 个	Family	Model	Version	Serial	Solution	Actions
$\mathbf{\bullet}$	Quantum Customer	dev-snc-daiquiri- n2	Quantum StorNext	StorNext Software	7.0.1	SV1535CKH00011	Denver - StorNext	📌 🛈 🦻
<b>@</b>	Quantum Customer	kvm2-esosvm1-b	Quantum F-Series	F2000	1.0.0	USWSJ00918OA	Denver F-Series	📌 🛈 🦻
$\mathbf{\bullet}$	Quantum Customer	kvm3-vm3-f1k- pr-a	Quantum F-Series	F1000	1.0.0	1.0.0-Build7	Denver F-Series	📌 🛈 🕏
$\mathbf{\bullet}$	Quantum Customer	kvm5-esosvm2-a	Quantum F-Series	F2000	1.0.0	USWSJ00918OA	Denver F-Series	📌 🛈 🦻
$\mathbf{\bullet}$	Quantum Customer	kvm5-esosvm2-b	Quantum F-Series	F2000	1.0.0	USWSJ00918OA	Denver F-Series	📌 🛈 🦻
<b></b>	Quantum Customer	kvm5-esosvm3-a	Quantum F-Series	F2000	1.0.0	USWSJ00918OA	Denver F-Series	P 🗊 🗱
$\mathbf{\bullet}$	Quantum Customer	kvm5-esosvm3-b	Quantum F-Series	F2000	1.0.0	USWSJ00918OA	Denver F-Series	📌 🛈 🕏

The list of nodes that are associated with your account along with some basic information is displayed.

You can filter the nodes by name, model, version, and so on. Select the node that you want to monitor.

Nodes 😗							©C <b>∓</b> <	٩۶
Unassigned 132						•	Only with open alert	S
$q_{essent}^{Search}$ ×	Customer 🗸	Family	▼ Mod	del 🔻	Q Ve	rsion	Class 👻	
Custom Fields 🗸								
	tomer Node 🔨	Family	Model	Version	Serial	Solution	Actions	8
	ssigned Essentials-R540	Quantum VS-Series	VS-NVR	99.0.0-10470	4P5KN23	Unassigned	<sup>59</sup> i 🗭	

Once you clicked the required node, you can see the following information about the node.

- Overview
- Alerts
- Performance:
  - System Resources
  - System Interfaces
  - Storage Disk
  - VMS
- History: Reports

#### <u>Overview</u>

This section describes the overall status and basic information about the node.

-	Nodes		0. 0.	Nodes - Quantum	VS-Series - Essentials-R540 - Overview			୯ <b>୯</b> ⊀
i	Overview			Hostname:	Essentials-R540.corp.pivot3.com	Model:	Quantum VS-NVR v99.0.0-10463	
	414-			Display Name:	Essentials-R540	VMS Application:	Milestone XProtect 20.11.56 🗮	
	Alerts			IP Address:	10.136.15.176	VMS System Uptime	: 3 months	
Ø)	Performance			Customer:	Unassigned	Serial Number:	4P5KN23	
	System Resources	Ħ		Solution:	Unassigned	Last Upload:	2022-03-14 11:23 IST	
	System Interfaces			Contract Status:	S invalid	Last Heartbeat:	2022-03-14 11:23 IST	
	Storage Disk	-				Node ID:	53479	
	Storage Diak							
	VMS	$\Theta$	~	Health				
Ð	History			<b>()</b> 100%	All checks passed.			
	Reports	L.						

The **Overview** section also lists the VMS applications that are installed in the VS-NVR system.

₩ VMS Application Services		
Name	Vendor	Version
Milestone XProtect VMS Device Pack 11.7a	Milestone Systems A/S	) 11.7.68.1
Milestone Server Configurator	Milestone	21.2.684.1
Milestone XProtect Recording Server (64-bit)	Milestone Systems A/S	21.2.1558.1
Milestone XProtect Data Collector Server	Milestone Systems A/S	21.21.819
Milestone XProtect Recording Server (64-bit)	Milestone Systems A/S	21.21.1877

#### <u>Alerts</u>

The **Alerts** section displays the events that are specific to the selected node. The Alert table lists each event with the time it occurred, message, severity of the event, and current status of the event. The status message displays whether the alert has been acknowledged.

Nodes		Nodes - Quantu	n VS-Series - Essentials-R5	540 - Alerts					0 C 😫	<b>! ±</b> ペ
i Overview		<b>Q</b> Search	Customer	Seve	erity 🗸	Status Open X	- Family		Time Occurred Last 30 days	×
ሷ Alerts										
<ul> <li>Performance</li> </ul>		Severity Cu	istomer Node	Status	Message			Family	Time Occurred $\downarrow$	Actions
System Resources	≣	🔲 🌗 🗸 Ur	assigned Essentials-R540	Open	Network interface 'Wi-F	i' is removed (#Network)		VS-Series	2022-03-12 01:54 IST	<ul> <li>Image: A second s</li></ul>
System Interfaces	<b>_</b>	🔲 🚺 🗸 Ur	assigned Essentials-R540	Open	Network interface 'SLO'	T 5 Port 1' is added (#Netv	vork)	VS-Series	2022-03-12 01:54 IST	<ul> <li>Image: A second s</li></ul>
Storage Disk	<b>R</b>	🗌 🚺 🗸 Ur	assigned Essentials-R540	Open	Network interface 'NIC	1' is added (#Network)		VS-Series	2022-03-12 01:54 IST	<ul> <li>Image: A second s</li></ul>
VMS	8	🔲 🚺 🛩 Ur	assigned Essentials-R540	Open	Network interface 'NIC2	2' is added (#Network)		VS-Series	2022-03-12 01:54 IST	<ul> <li>Image: A second s</li></ul>
Reports		🗌 🤨 🗸 Ur	assigned Essentials-R540	Open	Network interface 'SLO	T 5 Port 3' is added (#Netv	vork)	VS-Series	2022-03-12 01:54 IST	~
	ш	🗌 🌗 🗸 Ur	assigned Essentials-R540	Open	Network interface 'Loca	al Area Connection* 2' is re	moved (#Network)	VS-Series	2022-03-12 01:54 IST	<b>~</b>

#### **Performance**

The **Performance** metrics display historical data about various system resources, such as CPU, Memory, Network, and Storage Disk.

#### **System Resources**

The **System Resources** option displays the CPU (Max and Average) and Memory (Bytes and utilization) performance charts.











#### **System Interfaces**

The **System Interface Throughput** option displays charts related to network performance, such as network throughput and packets of each network interface.





#### Storage Disk

This **Storage Disk** option provides you with the historical disk performance (disk throughput and utilization) in chart view.





#### User Association Token

You use the Association token to associate servers/agents to your account. To associate a server/agent to your account, provide your account Association token during USP installation. To receive an Association token, log in to the CBA portal and click the *user* icon, as highlighted in the following image.

<	SOLUTIONS	NODES	ALERTS	cba-ui customer 2 2
	Nodes 😗			Profile/Logout

When you click the *user* icon, the following menu is displayed with the appropriate options. Click **Association Token** for the Association token for your account.



Your unique Association token is displayed in a pop-up dialog box. Click **Copy to Clipboard** to copy the Association token to your clipboard.

	MM Association Token •	
		Copy to clipboard
<b>0</b> 7	Token oeXGhPCYO2ek+2YyDNOSoOF5yoO/1PfimTkxabKoxDWyknpyOgbljx27zi480kAYFf9Y4j4WCaZb5KmOSQ6Itw==	¢Ē
		CANCEL

You can use the Association token during the USP installation.

# **Known Issues and Limitations**

#### Instance Operations During Image Upload

Instance Operations are not supported while an image is uploading. Performing virtual machine operations while uploading an image can lock the department and requires assistance from Quantum Support.

# Quantum

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter – so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.

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