

SUREedge® DR 6.6.1

Installation Guide for AHV

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Introduction

Welcome to SUREedge DR! Data migration can be a lengthy and difficult, although a necessary, process. SUREedge®DR is a proven enterprise-class Disaster Recovery solution that simplifies DR Testing and DR, taking advantage of system virtualization features to implement an easy-to-use DR infrastructure. SUREedge DR enables enterprises to implement a Disaster Recovery solution locally, at a remote site, in the Cloud, or even all three. Customers can start with local DR and seamlessly expand to a remote site or the Cloud — simply by deploying a SUREedge instance at the target site. With SUREedge-DR's **Any-to-Any** Recovery capability, you can recover physical and virtual systems (any hypervisor) to an alternate hypervisor or your preferred Cloud. This flexibility allows you to avoid hardware, hypervisor, and Cloud lock-ins.

SUREedge DR Deployment Scenarios

SUREedge® DR supports many different deployment configurations to meet the needs of various situations:

- **Cloud-targeted DR**, where the cloud is leveraged as a failover site for on-premise workloads or workloads in another cloud;
- Site-to-site DR, where the source and target environments are non-cloud based
- Intra-cloud DR, where the goal is to protect against unavailability due to loss of resources in or connectivity to a region or zone within a public or private cloud.
- **Cloud-to-site DR**, which reverses the cloud-targeted scenario and uses a noncloud, on-premise virtualization environment to protect cloud-based workloads.

In all these scenarios an instance of SUREedge DR is deployed in each of the source and target environments. The source SUREedge DR instance is responsible for capturing images of the protected systems and efficiently transferring them to the target instance. The target SUREedge DR instance receives and manages the system images and orchestrates the transformation and instantiation process when recoveries are performed.

Installation Overview

To set up an environment for Disaster Recovery you should first determine the location(s) where SUREedge DR should be installed according to the scenarios described above. You can then:

- Obtain the required documentation and software for the environment(s) you have identified. You should have an *Install Guide* (this document) for each environment and, if required, the software packages for installing SUREedge DR in those environment(s).
- Perform the installation of SUREedge DR software as instructed using the *Installation Guide*.
- License and configure SUREedge DR as appropriate for each environment, as described in the *Installation Guide* and the *User Guide*.

This Installation Guide covers the steps necessary for installing an instance of SUREedge DR in an AHV virtualization environment. The following sections will take you through the steps to obtain installation materials and to install, license, and configure SUREedge DR to run in a Windows AHV environment. You can then use the **User Guide** to configure and start using SUREedge DR for Backup and Recovery.

Pre-requisites

In the AHV environment SUREedge DR consists of two components: A Management Console ("MC") component that runs on a Windows 2019 Datacenter or Standard VM within the AHV environment, and a Storage Engine ("Store") which runs as a virtual machine within the AHV environment. To start deployment a Windows 2019 Datacenter or Standard VM must first be deployed; the deployment process will start by installing software on that Windows VM to make it the MC, and the SUREedge DR Store VM will be created and installed automatically as part of the MC installation process. In order to deploy an instance of SUREedge DR you will need the following:

- Nutanix AHV (from 5.15 to 5.19) with enough resources to run the SUREedge DR MC and SUREedge DR Store systems as virtual machines.
- A Windows 2019 Datacenter or Standard virtual machine where the SUREedge DR MC can be installed. This should be a virtual machine running on the AHV environment where the Store will be running.
- The recommended minimum resources for the MC VM are two CPU cores and 4GB of memory.
- It is recommended that the Store VM be allocated a minimum of 4 CPU cores and 12GB of memory; be sure enough resources are set aside prior to starting the deployment process.
- You will need to identify an AHV Storage Container in the AHV environment for use by SUREedge DR. This Storage Container will be used to store the compressed and deduplicated images of systems being protected.

Obtaining SUREedge Software and

Documentation

SUREedge DR installers, tools and documentation are all available online for download. Deployment of an instance of SUREedge DR on-site (at the source where VMs being migrated currently reside) is normally preceded by deployment of DR at the target cloud site (such as in the Google Cloud Platform). Installation media for on-site deployment is normally obtained from the target-site DR instance; performing installs this way eases the deployment and avoids issues of version mismatch, simplifies configuration of the sourcesite instance, etc.

If you need to obtain site installation media without having deployed a target-side DR instance to supply it please contact your supplier or refer to Section "<u>Contacting</u> <u>Support</u>" for details on how to access DR installers.

Downloading SUREedge DR Installers

You can download the installation media from the Accelerite portal using the following URL:

https://support.accelerite.com/hc/en-us/categories/4411552394381

You will need an Accelerite account to access the SUREedge DR Installer. If you do not have a Accelerite account, please click on **Submit a request**. After the request is approved you will have access to the download area, where you will see a list of versions of SUREedge DR available for download:

Persistent			Contact 📃 Persist	ent Sys 🗸	English (US) 🗸
Support		My Support Knowle	edge Base Community I	Downloads	Submit a request
SUREedge DR			Other links >		
Q Search					1
And the second s				-	(T
Persistent Support > SUREedge DR				Expand all	
SUREedge	DR 6.6.0		Follow	Θ	
> SUREedg	± DR 6.6.0				

Select the **software version** you wish to install from the list, then click **Download** to start your download.

Obtaining Documentation

SUREedge DR documentation is available for download as PDF files from the Accelerite. To get access to SUREedge DR documentation, navigate to this URL in your browser: <u>https://support.accelerite.com/hc/en-us/categories/4410194460941-SUREedge-DR-Product-Manuals</u>

You will need an account to log in and access the SUREedge DR documentation. If you are a new user, please click on **Login/Register**. After the request is approved, you can

access the documents:



Select the **Releases** section and then click the software version; then locate document you wish to download and click the **PDF** button.

Installing SUREedge DR

Once you have obtained your installation media and documentation, you are ready to deploy your SUREedge DR instance in AHV.

A SUREedge DR instance consists of two VMs: a Linux based *Store* VM which stores and manages the images of systems being protected, and a Windows-based *Management Console* (MC) which is responsible for orchestrating all DR operations and presents the SUREedge DR user interface.

To deploy SUREedge DR you will first deploy a Windows VM to serve as the DR MC system and then install SUREedge DR software on it. During this software install process the SUREedge Store VM is automatically created and installed for you.

You will also need to prepare *Proxy VM Images* (one for Windows, one for Linux) which are used to launch *Proxy VMs;* these are virtual systems that perform transformation and other operations when captured system images are recovered in your AHV environment. Proxy Images are stored in the Prism Image Store and Proxy VMs are instantiated from them on-demand when recoveries are performed.

The following sections detail the steps to create the necessary images in the Prism Image Store, deploy the SUREedge DR MC VM in your AHV environment and install the SUREedge DR software components on it.

Installation Media

To obtain installation components needed to deploy SUREedge DR in your AHV environment please see Section <u>Downloading SUREedge DR Installers</u>. This will instruct

you on how to download a zip file containing the required installation components. You should verify that the zipfile contains the following files:



Creating Images for Deployment

In order to deploy a Windows VM on which to install the SUREedge DR software you will need several images in your Prism Image Store for use during SUREedge DR deployment. You will also need an image containing operating system driver software installers (the *virtlO drivers*) for use when systems are recovered. The following sections outline how to create the required images.

Creating a Windows 2019 ISO Image

If you have an image of a Windows 2019 (DataCenter or Enterprise) ISO installation disk already available for use in your Prism Image Store then, you can use that to deploy the DR MC VM and skip to Section 0 and create the virtIO ISO Image.

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Hypervisor Summary	Prism Central	Cluster-wide Controller R	OPS 13 IOPS	Health		Critical Alerts	Δ
AHV VERSION NUTANIX 20190916.276	Not registered to Prism Central Register or create new	07:30 AM	08:30 AM 09:30 AM	WARNIN	16		
Storage Summary	Logical 🗸	Cluster-wide Controller R	O B/W 111 KBps	VMs	• 0 • 1 • 11		
8.76 TIB Total Space		1.31 MBps		Hosts	• 0 • 1 • 0	No Critic	cal Alerts
	07:30 AM 08:30 AM 09:30 AM				• 0 • 0 • 3		
VM Summary		Cluster-wide Controller L	atency 💿 0.94 ms	Data Resiliency Status		Warning Alerts	
12 VM(S)	Availa Best Effort • On 9 • Off 3 • Suspend 0 • Paused 0	138 ms 0730 AM 0830 AM 0930 AM		овзо ам Орзо ам Critical		No Warning Alerts	
Hardware Summary		Cluster CPU Usage	Cluster Memory Us	Configuration supports	no Disk resiliency	Info Alerts	Events
,		j-					
1 1	CommunityEdition MODEL	7.69%	58%	Failure Domain ③	Disk	2 INFO	345 EVENTS
HOST BLOCK		OF 33.6 GHz	OF 125.6 GIB	Fault Tolerance ③	0	16 days ago	Last event few seconds ago

1. Click the **Settings** ("gear") icon in the Prism main menu:

2. Select Image Configuration in the Settings pane and click Upload Image:

Nag315 Settings	- I 🥹 🌲 🄇	00.		Q ?	• • 🔯	admin 💙
Settings	Image Configuration	1				?
—	Manage the imag	ges to be used for creating virtu	ial disks.			
General	+ Upload Ima	age				
Cluster Details						
Configure CVM	NAME	ANNOTATION	TYPE	STATE	SIZE	
Expand Cluster	No images have	ve been created.				
Image Configuration						
Reboot						
Remote Support						
Upgrade Software						

3. You will see the Create Image form:

Settings	Create Image ?	
	Name	
General	win2k19-iso	
Cluster Details	Annotation	
Configure CVM		
Expand Cluster	Image Type	
Image Configuration	ISO v	
Reboot	Storage Container	
Remote Support	default-container-64934539836045	
Upgrade Software	Image Source	
	O From URL	
Setup	Upload a file Choose File en_windows_server_2019_up2019_x64_dvd_2ae967ab.iso	
Connect to Citrix Cloud		
Prism Central Registration	Autivate Windows	

Fill in the fields as follows:

Name	A descriptive name for the ISO image being uploaded (eg, Win2k19-ISO)
Annotation	A description (optional)
Image Type	Choose ISO from the pull-down selector
Storage Container	Select the storage container where the image should be stored
Image Source	Select Upload a file option and click the Choose File button, then navigate the open file dialog to select the Windows 2019 ISO installation image to upload

5. Click the **Save** button to start the image upload process.

The Create Image window will close, and the **Image Configuration** window reappears with the new image appearing in the list.

Nag253-SET Settings - Settings - Settings	• • •					Q ? - 🌣	
			VE	GIB	×	^	^
Settings	win-proxy-740	DISK	ACTI	127	1.		
			VE	GiB	×		
General	win16	ISO	ACTI	6.49	1.		
Cluster Details			VE	GiB	×		
Configure CVM	Win2008R2	ISO	ACTI	2.95	1.		
Expand Cluster			VE	GiB	×		
Image Configuration	win2k19-iso	ISO	ACTI	4.75	1.		
Reboot			VE	GIB	×		
Remote Support	Windows-2019 Windows-2019-Image	ISO	ACTI	4.75			
Upgrade Software			VE	GIB	×		
	windows-proxy-pkd	DISK	ACTI	127			
Sature			VE	GIB	×		
Connect to Citrix Cloud						*	
Prism Central Registration					Activa	te Windows	
Pulse					Go to Se	ettings to activate W	indows. 🔻

Creating the virtIO Driver Image

You will also need to create an image that contains driver software that is used during the transformation and recovery process; these drivers are installed on recovered systems to allow the resulting VMs to properly operate in the AHV environment.

1. Click the **Settings** ("gear") icon in the Prism main menu:

Hypervisor Summary	Prism Central	Cluster-wide Controller R	OPS 13 IOPS	Health				Critical Alerts	4	
AHV VERSION NUTANIX 20190916.276	Not registered to Prism Central Register or create new	07:30 AM	08:30 AM 02:80	WAI						
Storage Summary	Logical 🗸	Cluster-wide Controller I	O B/W 111 KBps	VMs	• 0	• 1	• 11			
8.76 TIB Total Space		1.31 MBps		Hosts	• 0	• 1	• 0	No Critical Alerts		
		07:30 AM	08:30 AM 09:30 AM	Storage Containers						
VM Summary		Cluster-wide Controller L	atency ① 0.94 ms	Data Resiliency Status				Warning Alerts		
12 VM(S)	Availa Best Effort • On 9 • Off 3 • Suspend 0 • Paused 0	1.38 ms 07:30 AM	08:30 AM 09:30 AM	No Warning Al		ning Alerts				
Hardware Summary		Cluster CPU Usage	Cluster Memory Us	Configuration supp	orts no Disk r	esiliency	(Info Alerts	Events	
1 1	CommunityEdition	7.69%	58%	Failure Domain ③			Disk	2	345	
HOST BLOCK	MODEL	OF 33.6 GHz	OF 125.6 GIB	Fault Tolerance ③			0	INFO 16 days ago	EVENTS Last event few seconds age	

2. Select Image Configuration in the Settings pane and click Upload Image:



3. You will see the Create Image form:

Nag253-SET Settings - 🤝 🐥 🌔)• 0 ~	Q ? ~ 🌣 🛛 admin ~
Settings	Create Image	?
General Cluster Details	Name Nutanix-VirtIO-1.1.6.iso Annotation	
Configure CVM Expand Cluster Image Configuration	Image Type	
Reboot Remote Support Upgrade Software	Storage Container default-container-64934539836045	
opgide contrait	Image Source O From URL	
Setup Connect to Citrix Cloud Prism Central Registration	Upload a file Choose File Nutanix-VirtIO-11.6.iso Gancel Save	e Windows
Pulse		ings to activate Windows.

Fill in the fields as follows:

4.

Name	A descriptive name for the ISO image being uploaded (eg, virtIO-1.1.6)
Annotation	A description (optional)
Image Type	Choose ISO from the pull-down selector
Storage Container	Select the storage container where the image should be stored
Image Source	Select the Upload a file option.

5. Click the **Choose File** button, then navigate the open file dialog to select the virtIO ISO installation image **Nutanix-VirtIO-1.1.6.iso** that you extracted from the DR

💿 Op	ben			×	
	→ • ↑ 🖡 « Loc	al Disk (C:) > AHV_Installable v 🖸 Sear	ch AHV_Installable	Q	
Orga	anize - New folder		III • 🔲	0	
ettings 🔋	scripts ^	Name	Date modified	Тур	
	SUREedgeInstall	6.6.1.29643	8/5/2021 10:05 AM	296	
	This PC	Nutanix-VirtlO-1.1.6	8/5/2021 9:57 AM	Dis	
neral	3D Objects	SUREedge_centos_proxy_system.qcow2	8/5/2021 10:03 AM	QC	
uster Details	Deckton	SUREedge_Software_Setup	7/28/2021 6:13 AM	Ap	
-	Desktop	SUREedge_Storage_engine_system.qcow2	7/28/2021 6:13 AM	Арг	
inigure CVM	Documents	Proxy_PreRequisite_Setup	7/28/2021 6:15 AM	Ар	
and Cluster	Downloads	P SUREedgeServerUtility	7/28/2021 6:13 AM	Ар	
J	Music	surestor-installer.tar.gz	7/28/2021 6:15 AM	GZ	
age Configura	Pictures	surestor-installer-scripts.tar.gz	7/28/2021 6:15 AM	GZ	
oot 📔	Videos	surestor-prereq-installer.tar.gz	7/28/2021 6:14 AM	GZ	
note Support	Local Disk (C:)	version	7/28/2021 6:13 AM	File	
	Natwork	<		>	
grade Softwa	File nan	Nutanix-VirtIO-116	los	~	
			Open Cancel		
tup		 Upload a file @ 	Choose File No fi	le chosen	
nnect to Citrix Cloud					
om Control Dogi-tu-t					
sm Central Registrati	ion	< Back			Cancel

Installer zipfile (see Section Installation Media):

6. Click the **Save** button to start the image upload process.

The Create Image window will close, and the **Image Configuration** window reappears with the new image appearing in the list.

Nag253-SET Settings - 🥮 🐥 🕧	• 0 ~					Q ? - 💠
Settings	age Configuration					?
	linuxproxy-660-4	ISO	ACTI VE	4.21 GiB	×	•
General Cluster Details	MGR_winmc_730		ACTI VE	127 GiB	×	
Configure CVM Expand Cluster	Nutanix-VirtIO-1.1.6.iso		ACTI VE	127 GiB	×	
Image Configuration Reboot	Nutanix-VirtlO-1.1	ISO	ACTI VE	133.9 5	×	
Remote Support Upgrade Software	Recovery-Host-N	ISO	ACTI	MiB	<i>.</i>	
	RHEL8.0_ISO	ISO	ACTI	6.62	× .	
Connect to Citrix Cloud	SE_DR_661_store	DISK	ACTI	127	Activat	e-Windows
Prism Central Registration Pulse					Go to Set	tings to activate Wind

Creating a SUREedge Store Engine Installation Image

During the installation of SUREedge DR software on a Windows 2019 VM the installer will deploy a DR Store VM, which requires an installation image be available in the Prism Image Store.

- Nag Tag 315 A 🛛 * Hypervisor Summary Prism Central Cluster-wide Controller IOPS 13 IOPS Health Critical Alerts 81 IOPS Not registered to Prism Central Register or create new AHV VERSION NUTANIX 20190916.276 07:30 AM 08:30 AM 09:30 AM Storage Summary Logical 🗸 Cluster-wide Controller IO B/W 111 KBps VMs • 0 • 1 • 11 1.31 MBps 8.76 TIB Total Space Hosts • 0 . . 07:30 AM 08:30 AM 09:30 AM Storage Co • 0 • 0 • 3 VM Summary Cluster-wide Controller Latency 0.94 ms Data Resiliency Status Warning Alerts 1.38 ms Best Effort 9 3 0 0 Availa • On • Off • Susp • Paus 12 No Warning Alerts VM(S) 09:30 AM 07:30 AM 08:30 AM Critical ation supports no Disk resiliency Events Hardware Summary Cluster CPU Usage Cluster Memory Us... Info Alerts CommunityEdition MODEL 58% 2 345 1 1 Disk 7.69% Failure Domain @ HOST BLOCK INFO 16 days ago EVENTS nt few seco OF 125.6 GiB OF 33.6 GHz Fault Tolerance ③ 0
- 1. Click the **Settings** ("gear") icon in the Prism main menu:

2. Select Image Configuration in the Settings pane and click Upload Image:

N _{ce} Tag315 Settings	- · · 🥹 🖡 🌔) O (] ·		Q ?		admin 🗡
Settings	Image Configuration	ı				?
General	Manage the image	ges to be used for creating virtu	al disks.			
Cluster Details	NAME		TYPE	STATE	SIZE	
Expand Cluster	No images ha	ve been created.	TIPE	STATE	SIZE	
Image Configuration						
Remote Support						
Upgrade Software						

3. You will see the Create Image form:

Nag253-SET Settings -	🗢 🛉 🛈 + O -	Q ? ~ 🌣 🛛 admin ~
Settings General Cluster Details Configure CVM Expand Cluster Image Configuration Reboot Remote Support Upgrade Software Setup Connect to Citrix Cloud	Name Store_image_DR_6.6.1 Annotation Image Type DISK Storage Container default-container-64934539836045 Image Source From URL • Upload a file Choose File_SURE_adge_Storage_engine_system.qcow2	
Prism Central Registration Pulse	< Back Cancel	Save Accoverce Windows Go to Settings to activate Windows.

Fill in the fields as follows:

Name	A descriptive name for the ISO image being uploaded (eg, sureedge-store-image)
Annotation	A description (optional)
Image Type	Choose DISK from the pull-down selector
Storage Container	Select the storage container where the image should be stored
Image Source	Select the Upload a file option.

4. Click the **Choose File** button, then navigate the open file dialog to select the SUREedge Store qcow image **SUREedge_Storage_engine_system.qcow2** that you extracted from the DR Installer zipfile (see Section Installation Media):

N Tag2E	🜍 Open			\times	
	← → × ↑ 📜 « Loc	al Disk (C:) > AHV_Installable ~ 🖸 Set	earch AHV_Installable	P	
	Organize - New folder		· ·	•	
Settings	scripts ^	Name	Date modified	Тур	
	📜 SUREedgeInstalli	6.6.1.29643	8/5/2021 10:05 AM	296	
		Nutanix-VirtIO-1.1.6	8/5/2021 9:57 AM	Dis	
General	3D Objects	SUREedge_centos_proxy_system.qcow2	8/5/2021 10:03 AM	QC	
Cluster Details	Desktop	SUREedge_Software_Setup	7/28/2021 6:13 AM	Арр	
Configure CVM	Documents	SUREedge_Storage_engine_system.qcow2	7/19/2021 12:57 PM	QC	
Configure CVM	Documents	SUREedge_Windows_Proxy_PreRequisite_Set	up 7/28/2021 6:15 AM	App	
Expand Cluster	Downloads	🖰 SUREedgeServerUtility	7/28/2021 6:13 AM	Арр	
Image Configura	Music	surestor-installer.tar.gz	7/28/2021 6:15 AM	GZ	
inage configura	Pictures	surestor-installer-scripts.tar.gz	7/28/2021 6:15 AM	GZ	•
Reboot	🚰 Videos	surestor-prereq-installer.tar.gz	7/28/2021 6:14 AM	GZ	
Remote Support	🐛 Local Disk (C:)	version	7/28/2021 6:13 AM	File	
nomoto oupport	Alatwork Y	<		>	~
Upgrade Softwa					
	File nan	ne: SUREedge_Storage_engine_system.qco ~ A	ll Files	~	
			Open Cancel		
l				.:1	
Setup		 Upload a file 	Choose File No fi	le chos	en
Connect to Citrix	Cloud				
Prism Central Re	gistration	< Back			Cancel

5. Click the **Save** button to start the image upload process.

The Create Image window will close, and the **Image Configuration** window reappears with the new image appearing in the list.

Nag253-SET Settings v 🦃 🐥	· · · ·					Q ? 🗸 🌣
Settings	Image Configuration					?
	SE_DR_661_store	DISK	ACTI VE	127 GiB	×	•
Cluster Details	SE_Store_730	DISK	ACTI VE	127 GiB	× -	
Expand Cluster	set216proxy	DISK	ACTI VE	130 GiB	×	
Reboot Remote Support	Store_image_DR_6.6.1	DISK	ACTI VE	127 GiB	× -	
Upgrade Software	Store_image_DR	DISK	ACTI VE	127 GiB	×	
Setup	sureedge-window	DISK	ACTI VE	127 GiB	× .	
Connect to Citrix Cloud	SUREedge_cento cent730proxy	DISK	ACTI	64 CiP	1.	Tar I

Deploying the SUREedge DR MC

The next step is to create a Windows 2019 virtual machine in the Nutanix environment. This VM will become the DR MC system when the SUREedge DR software is installed. Before deploying the Windows 2019 VM make sure the installation media image is available in the Prism Image Store. On the prism console click on the **Settings** ("gear") icon, then select **Image Configuration** in the **Settings** pane to bring up the list of available images:

Nag Tag253-SET Settings 🔹 😽 🐥	 ● ● ● ● ● 					Q ? v 🌣 🛛 admin
Settings	Image Configuration					?
			VE	GiB	×	•
General	sureedge-linux-pr	DISK	ACTI	127	1.	
Cluster Details			VE	GiB	×	
Configure CVM	sureedge-linux7	DISK	ACTI	127	1.	
Expand Cluster			VE	GiB	×	
Image Configuration	sureedge-store-i	DISK	ACTI	127	1.	
Reboot			VE	GiB	×	
Remote Support	sureedge-window		ACTI	130	1.	
Upgrade Software			VE	GiB	×	
	sureedge-window		ACTI	130	1.	
			VE	GiB	×	
Setup	SUREedge_Stora	DISK	ACTI	127	1.	
Connect to Citrix Cloud			VE	GiB	×	.
Prism Central Registration						
Pulse						
Rack Configuration						

Make sure that all the required images (the Windows 2019 Installation ISO, the virtIO drivers ISO and the DR Store Engine qcow image) are all listed and are in the **ACTIVE** state. If any images are missing, see Section Installation Media for instructions on installing them into the Prism Image Store. If an image is not in the **ACTIVE** state it may still be uploading to the Prism Image Store; you should wait until the process completes before proceeding to deploy the Windows 2019 VM.

Deploying a Windows 2019 VM

- 1. Log in to Prism console.
- 2. Select **Home > VM** and click **Create VM**.

← → C ▲ Not see	cure 172.16.36.2:	9440/consol	e/#pag	e/vms									☆ 0
Ng Tag253-SET		- 1 👳	•	○ • ○ •							Q ?	~ ¢	admin 🛩
Overview · Table											+ Create VM	Net	work Config
VM						Includ	le Controller	r VMs 🔸 🔘	1 – 10 of 26 (filte	red from 27) 🧿	· ¢ · Searc	h in table	Q
 VM Name 	Host	IP Addresse	Cores	Memory Capacity	Storage	CPU Usage	Memory Usage	Controller Read IOPS	Controller Write IOPS	Controller IO Bandwidth	Controller Avg IO Latency	Bac	Flash Mode
DR-MC-531-SET			1	66 MiB	23.04 GiB / 130.14 GiB	0%	0%					Yes	No
DR-Store-531-SET			1	66 MiB	33.48 GiB / 677 GiB	0%	0%		-		÷	Yes	No
 linux-proxy 			2	3 GiB	2.67 GiB / 127 GiB	0%	0%		-	-		Yes	No
 linux-proxy-660 			4	2 GiB	2.63 GiB / 20 GiB	0%	0%		÷			Yes	No
MC-2019-SET	NTNX- 6dc2aa3f- A/AHV	172	2	4 GiB	46.18 GiB / 131.89 GiB	29.79 %	0%	1	2	110 KBps	3.42 ms	Yes	No
 MC-DR6-6-0-vipul- new 	NTNX- 6dc2aa3f- A/AHV	172	4	4 GiB	29.21 GiB / 154.89 GiB	1.4%	52.5 2%	0	1	17 KBps	Activate Winc So to Settings to a 2.92 ms	lows activate V Yes	/indows. No

For General Configuration from Create VM,

- a. Provide NAME for MC.
- b. Provide **DESCRIPTION** for MC.
- c. Select TIMEZONE from drop down list.
- 3. For Compute Details from Create VM,
 - a. Provide vCPU(S) value as 2.
 - b. Provide NUMBER OF CORES PER vCPU as 2.
 - c. Provide **MEMORY** as 4 GB.
- 4. For Disks,
 - a. Edit existing CD-ROM type disk with OPERATION as Clone from Image Service, IMAGE as Win19ISO (Windows 2019), and click Update to update the disk.
 - b. Click Add New Disk. Select TYPE as DISK, OPERATION as Allocate on Storage Container, and provide SIZE as 130 GiB (Recommended size). Click Add to attach disk.

Note: Specify the same storage container where migration need to perform.

c. Click Add New Disk. Select TYPE as *CD-ROM*, **OPERATION** as *Clone* from Image Service, and **IMAGE** as virtio-1.1.6. Click Add to attach disk.

Tag253-SET - Prism Element	× +								-	o ×
← → C ▲ Not secu	ire 172.16.36.2:	9440/console	/#page/v	ms					z	• 0 :
N _{co} Tag253-SET	VM		A (• • • • • • • • • • • • • • • • • • •		-		Q ?	• ¢	admin 👻
Overview · Table				Add Disk	? ×			+ Create VM	Net	vork Config
VM				Type CD-ROM	•	f 26 (filte	ered from 27) 🗿	• ¢ • searci		Q
VM Name	Host	IP	Cores	Operation	Ĵ	troller	Controller IO	Controller Avg IO	Back	Flash
		Addresse				IOPS	Bandwidth	Latency		Mode
DR-MC-531-SET			1	IDE	•	-	÷	÷	Yes	No
DR-Store-531-SET			1	Image ()		4	4	÷	Yes	No
Iinux-proxy			2	Windows-2019 Size (GiB) ()	•				Yes	No
Iinux-proxy-660			4	4.75 Please note that changing the size of an image is not allowed. Index			,	•	Yes	No
• MC-2019-SET	NTNX- 6dc2aa3f- A/AHV	172	2	Next Available	·	64	39.79 MBps	8.16 ms	Yes	No
 MC-DR6-6-0-vipul- new 	NTNX- 6dc2aa3f- A/AHV	172	4	4 GIB 154.89 GIB %	Add 223	4	5.69 MBps	livate Windo Sena 8.58 ms	Yes	No
📲 🔎 📑 🦉	a	•	ø					· 투	⊒ d <mark>⊗</mark> 3:3 3/10	8 AM

5. Add NIC.

Tag253-SET - Prism Element × +			- 0 ×
← → C ▲ Not secure 172.16.36.2:9440/console	/#page/vms		☆ 😝 :
Nag Tag253-SET VM - 💝	A 0 · 0 0 ·		Q ? ~ 🌣 🛛 admin ~
Overview - Table			+ Create VM Network Config
VM	Create NIC ? ×	f 26 (filtered from 27)	search in table Q
VM Name Host IP Addresse	Cores Vian ·	troller Controller IO IOPS Bandwidth	Controller Avg IO Flash Latency Mode
DR-MC-531-SET	VLAN ID 1 0		- Yes No
DR-Store-531-SET	Network Connection State Connected		- Yes No
• linux-proxy	Disconnected Network Address / Prefix		- Yes No
• linux-proxy-660	4		- Yes No
NTNX- [®] MC-2019-SET 6dc2aa3f- 172 A/AHV	2 Cancel Add 131.89 GiB % Co. 202	87 36.03 MBps	7.96 ms Yes No
MC-DR6-6-0-vipul- new A/AHV	4 4 GiB 29.21 GiB / 4.89 55.11 49 154.89 GiB % %	2 1.91 MBps	tivate Windows to Settings to activate Windows 4.1 ms Yes No
🔳 🔎 🛱 🥭 🗮 🔽 🦻	<i>a</i> j		へ 문 d <mark>≋ ^{3:42} AM</mark> ↓

6. Click Save.

Upload Packages

- 1. Power ON the VM created above and install Windows.
- 2. RDP to windows machine created above.
- 3. Set the password for Admin user and re-login with Admin credentials.
- 4. Upload following packages to any folder on Windows machine.
- 6.6.0.29446
- Nutanix-VirtIO-1.1.6.iso
- SUREedgeServerUtility.exe
- SUREedge_Software_Setup.exe
- surestor-installer.tar.gz
- sureedge_server_utility.tar.gz
- SUREedge_centos_proxy_system.qcow2
- SUREedge_Storage_engine_system.qcow2
- SUREedge_Windows_Proxy_PreRequisite_Setup.exe
- version

Installing Software Components

1. Access the installer file name as SUREedge_Software_Setup.exe and double click the file to start installation. The First Screen you'll see is welcome screen:



Click Next to continue.

2. Read License Agreement and click **I Agree** to continue. The select product page opens.

<i>P</i> SUREedge 6.6.1 Setup	×
License Agreement	0
Please review the license terms before installing SUREedge 6.6.1.	J
Press Page Down to see the rest of the agreement.	
END USER LICENSE AGREEMENT: TERMS AND CONDITIONS OF USE	^
IMPORTANT NOTICE. THIS LICENSE AGREEMENT (THE AGREEMENT) IS A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) AND Persistent Systems, Inc., AND ITS THIRD-PARTY LICENSORS ("Persistent Systems"). BY INSTALLING OR USING THIS SOFTWARE IN ANY WAY YOU ACKNOWLEDGE THAT YOU HAVE READ, UNDERSTOOD AND AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS, DO NOT INSTALL OR USE THIS SOFTWARE IN ANY WAY, AND PROMPTLY RETURN THE SOFTWARE WITH PROOF OF PURCHASE TO THE PARTY FROM WHOM YOU ACQUIRED IT AND OBTAIN A REFUND OF THE AMOUNT YOU PAID, IF ANY. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON	~
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install SUREedge 6.6.1.	
Persistent Systems - SUREedge	
< Back I Agree Cano	el

3. Select the **SUREedge DR** radio button. Click **Next**. Nutanix Acropolis Details page opens.



4. Specify details about nutanix acropolis. Click Next.

P SUREedge 6.6.1 Setup		
Nutanix Acropolis Details This server will be used to store capture/backup data.		ഀ
Nutanix Cluster/Prism IP address Port 9440 9440 Username 9440 Password 9440 Existing AHV Container for storing images(e.g SureContainer) 9440		
Datastore size usable by SUREedge in (GB) Persistent Systems - SUREedge < <u>Back</u>	<u>N</u> ext >	Cancel
SUREedge 6.6.1 Setup Nutanix Acropolis Details This server will be used to store capture/backup data.	_	□ ×
Nutanix Cluster/Prism IP address Port 172.16.36.2 9440 Username admin admin Password ••••••• Existing AHV Container for storing images(e.g SureContainer) default-container-64934539836045 Datastess size weekle by SUREades in (CR)		
Datastore size usable by SUREedge in (GB) 1024 Persistent Systems - SUREedge < Back	ext >	Cancel

The inputs are validated for nutanix acropolis details and SUREedge configuration screen appears.

5. Enter SUREedge Configuration details and click **Next**:

SUREedge Configuration	ρ
	\mathbf{T}
Store CPU Cores Store RAM Size(GB)	
4 16	
Instance Name (optional)	
SUREedge	
Instance Location (optional)	
SUREedge MC Password For " WIN-112M55L37TB\Administrator "	
SURFedge Store Ligux Image Name	
Persistent Systems - SUREedge	
< <u>B</u> ack <u>N</u> ext >	Cancel
SUREedge 6.6.1 Setup – SUREedge Configuration –	
SUREedge 6.6.1 Setup – SUREedge Configuration –	· ×
SUREedge 6.6.1 Setup – SUREedge Configuration – Store CPU Cores Store RAM Size(GB)	· ×
SUREedge 6.6.1 Setup – SUREedge Configuration – Store CPU Cores Store RAM Size(GB) 4 16	□ ×
SUREedge 6.6.1 Setup – SUREedge Configuration – Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) –	□ ×
SUREedge 6.6.1 Setup – SUREedge Configuration – Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) – SUREedge –	□ ×
SUREedge 6.6.1 Setup – SUREedge Configuration – Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) – SUREedge – Instance Location (optional) –	□ ×
SUREedge 6.6.1 Setup SUREedge Configuration Store CPU Cores Store RAM Size(GB) 4 I6 Instance Name (optional) SUREedge Instance Location (optional) AHV	□ ×
SUREedge 6.6.1 Setup SUREedge Configuration SUREedge Corfiguration Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) SUREedge Instance Location (optional) AHV SUREedge MC Password For "WIN-112M55L37TB\Administrator "	
SUREedge 6.6.1 Setup SUREedge Configuration Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) SUREedge Instance Location (optional) AHV SUREedge MC Password For " WIN-112M55L37TB\Administrator "	
SUREedge 6.6.1 Setup SUREedge Configuration Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) SUREedge Instance Location (optional) AHV SUREedge MC Password For " WIN-112M55L37TB\Administrator " SUREedge Store Linux Image Name Sure DD 6.6.1	□ ×
SUREedge 6.6.1 Setup SUREedge Configuration SUREedge Configuration Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) SUREedge Instance Location (optional) AHV SUREedge MC Password For "WIN-112M55L37TB\Administrator " SUREedge Store Linux Image Name Store_image_DR_6.6.1	
SUREedge 6.6.1 Setup SUREedge Configuration Store CPU Cores Store RAM Size(GB) 4 16 Instance Name (optional) SUREedge Instance Location (optional) AHV SUREedge MC Password For " WIN-112M55L37TB \Administrator " SUREedge Store Linux Image Name Store_image_DR_6.6.1 Persistent Systems - SUREedge	

Note: Type the image name created in SureStoreImage creation.

6. Enter SUREedge-Store network details and click Next:

		_	-	
SUREedge-Store network details page				ி
Unallocated store IP	1			
Subnet]			
Gateway]			
DNS]			
	1			
Persistent Systems - SUREedge				
	< <u>B</u> ack	<u>N</u> ext >		Cancel

P SUREedge 6.6.1 Setup			_		×
SUREedge-Store network details page					ീ
Unallocated store IP					
172.16.51.23					
Subnet	_				
255.255.0.0					
Gateway	_				
172.16.0.1					
DNS					
172.16.1.1					
Persistent Systems - SUREedge	< <u>B</u> ack	Next	>	Ca	ncel

7. The next screen is the final confirmation that you wish to continue with the installation process:



Click Install to proceed with the installation or Cancel to exit without installing.

The time required to complete the installation is depend on the performance, load of the system and storage size(s) involved.

Once the installation is finished, you can see the completion screen:



- 8. Select Launch SUREedge and click Finish to complete the SUREedge 6.6.1 Setup.
- 9. SUREedge DR is now installed on the system. You can now log into the DR user interface using the credentials that you specified during the installation. It displays a login screen:



Configuration

Once installation is completed, you can launch SUREedge DR

(<u>https://localhost/sureedge/index.php/</u>) and do various configurations as mentioned in the subsequent sections. Default home page after login displays like below:

Configuring Proxy

Note: This step is required only if you need to change the proxy or create new proxy.

Sign In to AHV through browser. Login through credentials such as IP, Username, and Password.



Configuring Linux Proxy Image

Creating Linux Proxy Image

1. Login to Prism console. Click on Settings icon at the top right and navigate to Image configuration.

Na Tag253-SET Settings v Start 😵 🐥 🔞 🚥 🔿 v					Q ? - 🗢 admin
Settings	Image Configuration			?	
	Manage the images to be used for creating virtual	disks.		<u>^</u>	
General	+ Upload Image				
Cluster Details					
Configure CVM	NAME ANNOTATION	TYPE STAT	E SIZE		
Expand Cluster	ani-linux-proxy-im	DISK ACT	127	1.	
Image Configuration		VE	GIB	×	
Reboot	ani-store-image	DISK ACT	127	1.	
Remote Support		VE	GIB	×	
Upgrade Software	ani-win-image	DISK ACT	127	1.	
		VE	GiB	×	
	centos7-iso	ISO ACT	4.21	15	
Setup		VE	GiB	×	
Connect to Citrix Cloud	centos7proxy_14	DISK ACT	127	10	
Prism Central Registration		1.11-	C:0	22 1 100	
Pulse					
Rack Configuration					

2. Click **Upload image** and provide a desired name to store image as below:

No Tag253-SET Settings -	♥ ▲ ◎ · 0 · ·	Q ? 🔹 🚥 -
Settings	Create Image	7
	Name	
General	surredge-store-image	
Chuster Details	Ambitation	
Configure CVM		
Expand Cluster	(and a second s	
Image Configuration	DISK	*
Reboot	Storage Container	
Remote Support	default-container-64934539836045	
Upgrade Software	Image Source	
	O From URL	
brtu	O Upload a file	
Connect to Citrix Cloud	(Converting) we set to set	the second s
Prism Central Registration	6 Back	Carcel
Pube		and the second second
Rack Configuration		Go to Settings to activate Windows

- 3. Upload the image named SUREedge_centos_proxy_system.qcow2 from the package.
- 4. Make sure the status of the disk shows ACTIVE.

	Image Configuration					
Settings	image configuration					3
			VE	GiB	×	-
neral	sureedge-linux-pr	DISK	ACTI	127	1.	
uster Details			VE	GiB	×	
nfigure CVM	sureedge-linux7	DISK	ACTI	127	1.	
pand Cluster			VE	GiB	×	
age Configuration	sureedge-store-i	DISK	ACTI	127	1.	
boot			VE	GiB	×	
mote Support	sureedge-window		ACTI	130	1.	
grade Software			VE	GiB	×	
	sureedge-window		ACTI	130	1.	
			VE	GiB	×	
tup	SUREedge_Stora	DISK	ACTI	127	1.	
nnect to Citrix Cloud			VE	GiB	×	-
ism Central Registration						
llse						
ck Configuration						

- 5. Configure the linux Image in SUREedge. Login to SUREedge DR Management Console (MC).
- Go to Settings tab → Advanced → Proxy Image Configuration.
 Select Edit button to configure proxy image configuration.

Persist	ent							Aug 5, 2021 4:45 PM	Administrator ~
器 Dashboard	📰 Register	Protect		년 Jobs	Reports	🕸 Settings			
ණු Setti	ngs Configui	ration	Advanced						
Appliance			Remote Instance	e Settings	Cloud Transfer	Bandwidth Throttling	Proxy Image Configuration		
Licensing			OS Type : Image name : Username :	windows sureedge-win administrator	dows-proxy-661			_	
Job Concurr	rency		OS Type :	linux					
Dual Instand	ce		Username :	sureedge-iinu sureline	x-proxy-oo I				
Support			EDIT						
Advanced									
SUREedge DR, Versio	n: 6.6.1.29623						Co	pyright © 2021 Persistent Systems Lin	nited. All rights reserved.

7. Provide **Image Name**, **Username** and **Password** for Linux Proxy which was created after proxy creation.

8. Click Save to store the setting.

Persistent							Aug 5, 2021 4:47 PM	dministrator 🗸
먦 Dashboard 🛛 🚍 Register 🛛 😯	Protect	⊕ Recover	🖆 Jobs	Reports	Settings			
ණු Settings Configuratio	on	Advanced						
Appliance		Remote Instance	Settings	Cloud Transfer E	andwidth Throttling	Proxy Image Configuration		
Licensing		OS Type linux						•
Job Concurrency	4	Image name *	61					
Dual Instance		User name *						
Support		Password *						A
Advanced		Save	Cancel					
SUREedge DR, Version: 6.6.1.29623						Copyrigt	nt © 2021 Persistent Systems Limite	d. All rights reserved.

Configuring Windows Proxy Image

Note:

- 1. If Windows 2019 ISO or disk is available, then windows installation is not needed otherwise windows installation need to be done.
- 2. Nutanix-VirtIO-1.1.6.iso can be downloaded from nutanix website.

Creating Windows Proxy Image

- 1. Create a Windows 2k19 VM for proxy.
 - a. Sign in to AHV PRISM through the browser



Na Tag253-SET Settings v 😌 🐥 👩 💀 🔿 v						Q ? - 🌣 🛛 admin -
Settings	Image Configuration					?
-	Manage the images to be us	sed for creating virtual disks.				
General Cluster Details	+ Upload Image					
Configure CVM	NAME	ANNOTATION TYPE	STATE	SIZE		
Expand Cluster	ani-linux-proxy-im	DISK	ACTI	127	1.	
Image Configuration			VE	GiB	×	
Reboot	ani-store-image	DISK	ACTI	127	1.	
Remote Support			VE	GiB	×	
Upgrade Software	ani-win-image	DISK	ACTI	127 GIB	1.	
				OID	^	
Satur	centos7-iso	150	VE	4.21 GiB	×	
Connect to Citrix Cloud	centos7proxy 14	DISK	ACTI	127	1.	
Prism Central Registration		151.522	11-	CID		· ·
Pulse						
Rack Configuration						
•						

b. Go to settings, navigate to Image Configuration.

- c. Click Upload Image and select the image.
- 2. Create a Windows VM.
 - a. Go to VM
 - b. Create VM

N _{co} Tag25	53-SET VI	4 ~		<u></u>	o •							٩	?~ \$	admin 🛩
Overview · Ta	able											+ Create V	M Ne	twork Config
м								Include	e Controller VMs	• () 1 – 10 of 2	2 (filtered from 23)	⊙ · ¢ v · sear	ch in table	Q
 VM Name 		Host	IP Addresses	Cores	Memory Capacity	Storage	CPU Usage	Memory Usage	Controller Read IOPS	Controller Write IOPS	Controller IO Bandwidth	Controller Avg IO Latency	Back	Flash Mode
Akshay-Mo	c			2	4 GiB	19.25 GiB / 130 GiB	0%	0%					Yes	No
centos7pro	оху-14			4	2 GiB	2.73 GiB / 127 GiB	0%	0%	14				Yes	No
DR-MC-53	1-SET			1	410 MiB	25.23 GiB / 130.14 GiB	0%	0%		÷			Yes	No
DR-Store-5	531-SET			2	410 MiB	33.48 GiB / 677 GiB	0%	0%			20		Yes	No
DR6.6.0-M	IC-pkd	NTNX- 6dc2aa3f- A/AHV	172.1	2	8 GiB	26.42 GIB / 131.88 GIB	2.36%	40.1%	7	5	231 KBps	0.78 ms	Yes	No
MC-2019-S	SET			2	4 GiB	52.71 GiB / 131.89 GiB	0%	0%		÷	-	-	Yes	No
MC-DR6-6	-0-vipul-new	NTNX- 6dc2aa3f-	172.1	2	4 GiB	52.44 GiB / 154.89 GiB	25.54 %	85.33 %	36	4	640 KBps	0.9 ms	Yes	No

c. Fill in the details like Name.

	Create VM	?	×
General Configuration			
Name			
Name			
Description			
Optional			
Timezone			
(UTC) UTC		Cluster∨	r I
Use this VM as an age Compute Details vCPU(s)	ent VM		
Value			
Number Of Cores Per vCPU			
1			
			_

3. Into Disk option,

In case of ISO

IDE:0 – CDROM with VirtIO drivers ISO (Use edit option if cd-rom is attached to IDE0)

SCSI:0 – OS disk (create disk of 127 GB on container and attach to SCSI refer point j)

IDE:1 – CDROM with Windows server 2019 ISO.

In case of disk (VHD or vmdk)

IDE:0 – CDROM with VirtIO drivers ISO (Use edit option if cd-rom is attached to IDE0)

SCSI:0 – OS disk (attach disk attach to SCSI)

Note: For uploading steps, refer to the section on <u>Creating Image for SUREedge Store</u> <u>Engine</u>.

4. Go to edit if already shown CD-ROM, Select CD-ROM, Clone from image Service, IDE, select your image from drop down and **Update**.

 Then Add New Disk and select as type as disk, operation as Allocate on storage container Bus Type SCSI, choose Storage Container, give size as 127 GB. Keep Index as Next available.

Tag253-SET - Prism Element	× +								-	o ×
← → C ▲ Not secu	ure 172.16.36.2:	9440/console	/#page/	/ms					r	. 0 :
N _{co} Tag253-SET		• 🗢		• 0 1 • •				Q ?		
Overview · Table				Add Disk	? X		_	+ Create VM	Net	work Config
				Туре						
VM				CD-ROM	~	f 26 (filte	ered from 27) 💿	¢ • searc		Q
			_	Operation						
▲ VM Name	Host	IP Addresse	Cores	Clone from Image Service	~	IOPS	Controller IO Bandwidth	Controller Avg IO Latency	Back	Flash Mode
DR-MC-531-SET			1	Bus Type IDE	~			÷	Yes	No
DR-Store-531-SET			1	Image ③			2	¥	Yes	No
 linux-proxy 			2	Size (GRB) ()					Yes	No
Iinux-proxy-660			4	4.75 Please note that changing the size of an image is not allowed. Index					Yes	No
• MC-2019-SET	NTNX- 6dc2aa3f- A/AHV	172	2	Next Available	•	64	39.79 MBps	8.16 ms	Yes	No
	NTNY.			Cancel	Add					
 MC-DR6-6-0-vipul- new 	6dc2aa3f- A/AHV	172	4	4 GiB 154.89 GiB 14.4% % 223	3	4	5.69 MBps	8.58 ms	Yes	No
🔳 २ 🖬 🤅	=	💷 🧿	1					~ 1	⊋ 4 <mark>⊗ 3:3</mark> 3/10	8 AM

6. Add **NIC** and set affinity to host and **save.**

Image: 253-SET - Prism Element x + − Image: X ×										
← → C ▲ Not secure 172.16.36.2:9440/console	/#page/vms	☆ ⊖ :								
N. Tag253-SET VM - 💝	▲ ③ ・ ○ ⑩ ∽	Q ? v 🌣 🛛 admin v								
Overview · Table		+ Create VM Network Config								
VM	Create NIC ? ×	f 26 (flitered from 27) 💿 · 🌣 · 🛛 search in table 🔍								
VM Name Host IP Addresse	Cores Vian ·	troller Controller IO Controller Avg IO Flash IOPS Bandwidth Latency Mode								
DR-MC-531-SET	VLAN ID 1 O	Yes No								
DR-Store-531-SET	1 Network Connection State Connected	Yes No								
Inux-proxy	2 Network Address / Prefix NONE	Yes No								
• linux-proxy-660	4	Yes No								
NTNX- MC-2019-SET 6dc2aa3f- A/AHV	2 Cancel Add 131.89 GiB % 0.0 202	87 36.03 MBps 7.96 ms Yes No								
MC-DR6-6-0-vipul- new A/AHV	4 4 GiB 29.21 GiB / 4.89 55.11 49 154.89 GiB % % 49	2 1.91 MBps 4.1 ms Yes No								
🕂 ዖ 밝 🤅 📄 🔯 💷 🧿	Ø	^ 뒫 4 <mark>%</mark> 3/16/2021 ↓								

7. Newly created vm will appear on PRISM UI.

											+ Create v	M Ne	WORK CO
VM							Include	Controller VMs	21 – 23 of 23	(filtered from 24)	ĵ · ¢ v · sea	rch in table	
VM Name	Host	IP Addresses	Cores	Memory Capacity	Storage	CPU Usage	Memory Usage	Controller Read	Controller Write IOPS	Controller IO Bandwidth	Controller Avg IO Latency	Back	Flash Mode
vm-win2k8r2-pkd21	NTNX- 6dc2aa3f- A/AHV	172.1	1	2 GiB	11.25 GiB / 30 GiB	4.71%	26.87 %	0	0	1 KBps	3.07 ms	Yes	No
win-proxy-21april	1		2	8 GiB	- / 131.89 GiB	0%	0%	0	0	0 KBps	0 ms	Yes	No
winpro660-new			1	2 GIB	10.78 GiB / 127 GiB	0%	0%		-			Yes	No

8. Start vm by right click on it, do installation, create user **administrator**.

Installation of Windows 2019

1. A screen with Loading files shows up.



Windows Server 2019 screen appears with field.

SUREedgeMC - Goo	igle Ovome	-		×
A Not secure 1)	72.16.36.2:9440/conscie/lib/noVNC/mc_auto.html?path=vnc/vm/dc8919ee-4c	28-43ee-bc65-4e2fde8d9da0/proxy8ititle=SUREedge	MCBuui	d
	Comparison of the Company of the Com			
	Nordows Setup			
	Windows Server 2019			
	Langung to initial Brighth (Unded States)	<u>-</u>		
	Tene and currency format English (United States)	<u></u>		
	Explored or input method US			
	8			
	Enter your language and other parternices and Occur	ear to continue.		
	di 2014 Marcald Company of Arth Instant	Diext		
	Sector reservation of contracts			
	L			

- 2. Enter the fields to complete installation.
- 3. Click **Next** to proceed to next screen after entering the correct information in the above-mentioned fields.

-	Windows Setup	
	Windows Server ⁻ 2019	
	Ingell now	
ż	Bitpair your computer # 200 Minuted Corporation Mingra survest.	

4. Click Install now.



5. Select the Windows Server 2019 Standard (Desktop Experience) and Click Next.

Connected (encrypted) to: SURDedgeMC					Mount IS	0 4 0 0
	😋 🔬 Windows Sets	e			-	
	Where do yo	u want to install Wi	ndows?			
	Nama		Total sue	Риезрасе Туре		
	fy Salaah 19 Laat mar	X2ster Steped	Format	- 0 New		
	A We couldn't find	i any drives. To get a stora	ge driver, click Load driver	Beit	Activate Wind	cours:

6. A screen will ask the location where you want to install the OS. Select Load driver.

onnected (encrypted) to: SUREedgeMC		Mount ISO	1 0 U
	G & Windows Sature		
	Load driver entry of the device driver for your drive, insert the installation media containing the driver files, and then click DE. Note: The installation media can be a CD, DVD, or USB flash drive.		
	Bigese Bescen (port	Activate Window	

7. Click Browse to search for installation media for your device driver.

SUREedgeMC - Google Chrome		- 0
Not secure 172.16.36.2:9440/console/lib/noVNC	/vnc_auto.html?pathovnc/vm/dc8919ee-4c28-43ee-bc55-4e2fde8	id9daQ/prony&ititle+SUEEedgeMC&uuid.
ennected (encrypted) to: SUREedgeMC		Mount ISO 🛔 👩 Ů
3 		a second s
🙄 🔬 Windows Setup		100.000
Select the drive	r to install	
	Browse for Folder	
	Browse to the driver, and then click CK.	
	✓ 2 CD Drive (D.) Nutaria 1950 1.1.6 m	
	> Hindows 10	
	3 Dirdovs 3	
	3 Birdows 8.1 Birdows 8.1	
	> mindows Server 2012	
	> mindows Server 2012 R2	
	inindows Server 2019 inindows Server 2019	
Hide drivers that		
	OK Carot	
Bigwise	Delcau	Dest

8. Select amd64.



9. Again, Click on **Load Driver**, Browse to WIn2019 directory from ISO same as scsi and select **netkvm** from list.

🚱 💒 Windows Setu	•				
Where do you	i want to install Wi	ndows?			
Name		Total size	Free space Type		
Dive D	nallocated Space	127 8 68	127.9 68		
49 Batach	XDelete	@Lormat	🔶 Ng=	_	
@ Lost door	3 Latered				
				nd?	



10. The process of copying the files begins as you select the location for installation.

SUREedgeMC - Google Chri	onie				- 0 X
A Not secure 172.16.30	6.2:9440/console/lib/nsVNG/vnc,	auto.html?path=unc/vm/dc89	19ee-4c28-4Jee-bc65-4e2Mde6d9da0	//provy&title=SUREedgeMC&uuid=dc8919ee-4c28-43ee-bc65-4e2M	e8d9da08uhura=tt
	Customize	settings			
	Customize	securiys			
	Type a password for th	he built-in administrator acco	sunt that you can use to sign in to	this computer.	
	Liter name				
	Password				
	Reenter password		*		
		C.			
				h.	
				and the second secon	
	÷			Finish	
				Activate Window	10
				Gio to Settlage to Set	and provinces

- 11. After the installation is complete, set your **Password**, and click **Finish**.
- 12. After installation completion, Go to VM, right click on created vm, select Launch Console.
- 13. Log in to vm and enable RDP. and access it by RDP.
- 14. Copy **SUREEdge_Windows_Proxy_PreRequisite_Setup.exe** file from extracted folder and install it.





- 15. Download SUREedgeServerUtility.zip to this VM from MC register tab.
- 16. Get a token from MC from register server UIs.
- 17. Run this command in cmd from path where SUREedgeServerUtility.zip is extracted, SUREedgeServerUtility.exe /NOADD /token=<token of SUREedge MC>



- 18. Check if Nutanix-VirtIO folder present in C: if not Copy it to C:\Nutanix-VirtIO C:\SUREedgeInstallationFiles
- 19. In Shutdown Options, select Shutdown and Click OK.
- 20. Connect to Nutanix CVM, and run below command, acli vm.get <Name of Windows Proxy VM> Note down / copy SCSI 0th disk UUID



21. Run the given command, acli image.create <proxy image name to be> clone from vmdisk=<disk UUID> image type=kDiskImage



22. Created proxy image name will be used as it is with given credentials. acli image.get sureedge-windows-proxy-661

```
admin@:172.16.36.2:~$ acli image.get sureedge-windows-proxy-661
sureedge-windows-proxy-661 {
  architecture: "kX86_64"
  container_id: 4
  container_uuid: "8426ff06-10fa-4068-bfb7-f4dcb17620b1"
  create_time: "Thursday August 05 2021, 12:42:38 PM"
  file uuid: "853da1df-39ea-4c58-8da7-e5a7616eea5f"
  image source {
    source vmdisk uuid: "d1aebada-2269-4edd-bc9f-5a249e203e6c"
  image_state: "kActive"
  image type: "kDiskImage"
  logical_timestamp: 0
  name: "sureedge-windows-proxy-661"
 owner_cluster_uuid: "0005b9f2-05e6-3b95-458f-00259094f22a"
update_time: "Thursday August 05 2021, 12:42:38 PM"
  uuid: "370537f0-59cf-4153-b1cb-e77a41a0def2"
  vmdisk size: 136365211648
  vmdisk uuid: "4200caa1-063b-4242-a423-91532dad81ce"
admin@:172.16.36.2:~$
```

Delete VM from PRISM:

- 23. Delete server from PRISM UI by right clicking option
- 24. Configure the windows Image in SUREedge
- 25. Login to SUREedge DR Management Console (MC).

Configuration

- 1. Go to Settings tab \rightarrow Advanced \rightarrow Proxy Image Configuration.
 - Select Edit button to configure proxy image configuration.

P Persistent		Aug 5, 2021 4:45 PM Administrator V
먦 Dashboard 🛛 🗮 Register 😯 Pro	tect の Recover ゆ Jobs le Reports い Settings	
餃 Settings Configuration	Advanced	
Appliance	Remote Instance Settings Cloud Transfer Bandwidth Throttling Proxy Image Configuration	_
Licensing	OS Type : windows Image name : sureedge-windows-proxy-661 Username : administrator	
Job Concurrency	OS Type : linux	
Dual Instance	Image name : sureedge-linux-proxy-661 Username : sureline	
Support	EDIT	
Advanced		
SUREedge DR, Version: 6.6.1.29623	Copyright @ 20	021 Persistent Systems Limited. All rights reserved.

2. Provide **Image Name**, **Username** and **Password** for Windows Proxy which was created after proxy creation.

盟 Dashboard 다 Migration 追	Jobs 🎲 Settings	🛄 SUREedge DR
袋 Settings Configuration	Proxy Image Configuration ×	
Licensing	windows •	on Proxy Image Configuration
Global recovery settings	Image name "	Actions
Job Concurrency	User name * administrator	
Dual Instance	Password *	
Support	Save Cancel	
Auvanceu		
SUREedge Migrator, Version: 7.3.0.29258		Copyright @ 2021 Sureline Systems, Inc. All rights reserved.

3. Click $\ensuremath{\textbf{Save}}$ to save the settings.

Persist	ent							Aug 5, 2021 4:48 PM	Administrator ~
멾 Dashboard	ा Register ≣	😯 Protec		ট Jobs	Reports				
ූරි Setti	ngs Configu	ration	Advanced						
Appliance			Remote Instance	e Settings	Cloud Transfer I	Bandwidth Throttling	Proxy Image Configuration		
Licensing			OS Type windows						•
Job Concurr	rency		Image name * windows-pr	oxy-661					
Dual Instanc	ce		User name * administrat	or					
Support			Password *						A
Advanced			Save	Cancel					
SUREedge DR, Version	n: 6.6.1.29623						Coj	pyright © 2021 Persistent Systems Li	nited. All rights reserved.

Obtaining Licenses

Each instance of SUREedge DR must be licensed to perform recovery. If you have not received your license(s) you can obtain it (them) through your designated contact at Accelerite or by contacting the Accelerite Support Team at support@accelerite.com. Once you purchase the SUREedge DR, you will get a permanent GUID license. These licenses are tied to a specific SUREedge DR instance. To obtain your GUID licenses you will need to supply the Appliance Serial Number to Persistent Systems for all your SUREedge DR instances after they have been installed. Detailed instructions on getting your Appliance Serial Number(s), obtaining your permanent licenses and applying them to your SUREedge DR instance(s) can be found in your SUREedge DR User Guide(s).

Once you have license(s) for your SUREedge DR instance(s) they will need to be installed before you can perform recovery operations. Instructions for installing licenses on the SUREedge DR instances can be found in the **Settings** section of SUREedge User Guide.

Contacting Support

Accelerite Software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by being able to:

- \ Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- \ Submit enhancement requests online
- \ Download software patches
- \ Look up Accelerite support contacts
- \ Enter into discussions with other software customers
- Research and register for software training

To access the Self-serve knowledge base, visit the Accelerite Support home page at

https://support.accelerite.com/hc/en-us

Most of the support areas require that you register on the Accelerite Support Portal. Many also require a support contract.

To register an account at the Accelerite Support Portal, visit

https://support.accelerite.com/hc/en-us

To know more about registration process at Accelerite support portal, visit

https://support.accelerite.com/hc/en-us/articles/202042570-New-user-registration-process