

# SUREedge® DR 6.6.1

Manual Installation Guide for GCP

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The SUREedge products are available and support only the English language.

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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 the Cloud as a ready-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 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.

### **Deployment Scenarios**

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

- **Cloud-targeted DR**: The cloud is leveraged as a failover site for on-premise workloads or workloads in another cloud.
- Site-to-site DR: The source and target environments are non-cloud based.
- Intra-cloud DR: 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:** Reverses the cloud-targeted scenario and uses a non-cloud, onpremises 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 Backup and Disaster recovery you 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 **User Guide**.

This Installation Guide covers the steps necessary for installing an instance SUREedge DR in a GCP 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 GCP environment. You can then use the **User Guide** to configure and start using SUREedge DR for Backup and Recovery.

## **Installing SUREedge DR**

SUREedge DR installers, tools and documentation are all available online for download or deployment. The next sections will detail you to obtain the documentation and software binaries you will need to get started with SUREedge DR.

### **Downloading SUREedge DR Installer**

You can download the installation media from the Accelerite portal using the following URL: <u>https://support.accelerite.com/hc/en-us/categories/4411552394381</u>

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

| ⊖ <sup>P</sup> Persistent        | Contact 🔤 Persistent Sys 🗸 English (US) 🗸                      |
|----------------------------------|--|
| Support                          | My Support Knowledge Base Community Downloads Submit a request |
| SUREedge DR                      | Other Intigs   |
| Q Search                         |  |
|                                  |  |
| Persistent Support > SUREadge DR | Expand all   |
| SUREedge DR 6.6.0                | Follow   |
| > SUREedge 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: https://support.accelerite.com/hc/en-us/categories/4410194460941-SUREedge-DR-Product-Manuals

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:

| Persist           | ent                             |            |                     | Contact   | Login/Regi  | ster E     | nglish (US) 🗸 |   |
|-------------------|---------------------------------|------------|---------------------|-----------|-------------|------------|---------------|---|
| Support           |                                 | My Support | +<br>Knowledge Base | Community | Downloa     | ads Subr   | nit a request |   |
| SURE              | edge DR Product Manu            | als        |                     |           | Other links |            |               | 1 |
| Q Sear            | ch                              |            |                     |           |             |            | 1 Second      | 4 |
|                   |                                 |            | Q                   | Q         |             | 25         |               |   |
| Persistent Suppor | t > SUREedge DR Product Manuals |            |                     |           |             | Expand all |               |   |
|                   | Releases                        |            |                     |           | Follow      | (+)        |               |   |
|                   | Data Sheet                      |            |                     |           | Follow      | $\oplus$   | () Help       |   |

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

### **Prerequisites**

To create virtual machines in the target project(s) where recovered servers will be relocated SUREedge DR needs to perform operations using a service account with sufficient permissions and have network access to the new virtual machines. This requires that the necessary APIs be enabled for the project(s) where VMs will be recovered and the availability of a service account with the appropriate roles and permissions enabled. You must also make sure that the virtual networking for the project(s) is configured such that for the duration of the recovery operation the recovered VMs can be reached by the SUREedge DR instance that you deploy.

The following sections describe the specifics of these prerequisites and how to meet them.

#### **Accounts and Privileges**

To be able to make the cloud API calls required to create the cloud-side virtual machines and transform them to run in the cloud SUREedge DR needs the project to have the necessary APIs enabled and a service account with the appropriate permissions. Persistent provides a script that you can use to make the process of creating the roles and enabling the APIs easier. The details of required APIs, roles and permissions are outlined in Section 4, "Required APIs, Roles and Permissions".

#### **Networking Configurations**

SUREedge DR uses Google Cloud Virtual Private Cloud (VPC) networks and requires specific networking firewall rules to be configured for deployment and recovery of workloads. This section describes networking requirement and firewall rules needed for deployment.

All projects where VMs will be recovered must be reachable by the SUREedge DR instance; if multiple projects are involved, then this will require a Shared VPC. (Note: Legacy networks are not supported.) Any project can host the Shared VPC with the remaining projects attached. In the case where all recovered systems are going into a single project then the SUREedge DR instance should be deployed there and the default VPC for the project can be used.

#### **Configuring Firewall rules**

To create and transform servers being recovered in GCP the SUREedge DR instance must be able to communicate with the VMs being created in the cloud. To allow this any firewalls between the SUREedge DR instance and the projects that will contain the recovered VMs must allow the following network communications:

- **ICMP**: Firewalls must allow ICMP packets to be passed between the SUREedge DR instance and the target projects and networks.
- **TCP**: Ports 22, 25025, 25026, 25027, and 25028 must be open between the SUREedge DR instance and the target project networks.
- TCP: Ports 80 and 443 are used to access the SUREedge DR UI and must be open between the SUREedge DR MC VM and any systems where a browser will be used to access the DR UI.

### **Deploying SUREedge DR**

This section contains the instructions for deploying SUREedge DR on the Google Cloud Platform. The below steps help you to create Store and MC on GCP.

#### **Create Store VM**

- 1. Login to GCP and navigate to the **Compute Engine** (<u>https://console.cloud.google.com/</u>) and click the **VM Instances.**
- Select Create Instance on the top pane. The VM manual deployment setting page opens:

| ≡      | Google Cloud Platform | 💲 Sureedge-QA 👻       | Q Sea              | arch products and | resources   |                |         | ~              | 5.               | g <u>32</u> | : 🙆     |
|--------|-----------------------|-----------------------|--------------------|-------------------|-------------|----------------|---------|----------------|------------------|-------------|---------|
|        | Compute Engine        | VM instances          | CREATE INSTANCE    | M N               | CREFRESH    | ► START/RESUME | :       | ③ OPERATIONS ▼ | E HELP ASSISTANT | SHOW INF    | O PANEL |
| Virtua | I machines            | \Xi Filter Enter prop | erty name or value |                   |             |                |         |                |                  | 0           | III     |
| A      | VM instances          | Status                | Name 🛧 Zone        | Machine type      | Internal IP | External IP    | Network | Network tags   | Connect          |             |         |
|        | Instance templates    |                       |                    |                   |             |                |         |                |                  |             |         |
| 8      | Sole-tenant nodes     |                       |                    |                   |             |                |         |                |                  |             |         |
| 臣      | Machine images        |                       |                    |                   | •           |                |         |                |                  |             |         |
| ~      | TPUs                  |                       |                    |                   |             | AN             |         |                |                  |             |         |

 Enter Name of VM in the format as "sureedge-dr-linux-vm- followed by the string of user choice".

For Example: sureedge-dr-linux-vm-test

4. Choose **Region** and **Zone** from the drop-down list.

- In machine configuration setting Choose Machine Type as a e2-standard-4 (4 vCPU, 16 GB memory) from the drop-down list.
- In Boot Disk Section, select the Operating system as an Ubuntu, Version as an Ubuntu 20.04 LTS, Boot disk type as a Standard Persistent disk, and add disk Size according to the requirement.
- 7. In the Identity and API access section, choose Service account from the drop-down list.
- 8. In Networking Section, add the **Network tags** if required. choose **Network Service Tier** as a **Standard (us-central1)** from the selection.
- 9. In the Disks section select, ADD NEW DISK fill in the below details:
- Enter disk **Name** as per format for example: sureedge-dr-linux-(Name for your understanding).
- Select Disk source type as a Blank disk from the drop-down list.
- Select Disk setting as Standard persistent disk from the drop-down list.
- Enter the disk **Size** in GB as per requirement.
  - Note: The minimum disk size is 1024 GB.
- Click **SAVE** to make changes permanent.
- 10. Select **CREATE** to create store VM.

#### **Create User**

1. Connect to deployed VM using SSH and run the following commands to create a user:

sudo adduser sureline

- Enter a New Password for the user.
   Note: remember or note down this password to configure into the Sureedge management console (MC).
- 3. Run the following commands to complete the setup:

```
/etc/sudoers
sureline ALL=NOPASSWD: ALL
Defaults:sureline !requiretty
```

#### Password authentication

```
$sudo vi/etc/ssh/sshd_config
Change passwordauthentication= yes"
```

#### **Restart SSH**

\$sudo /etc/init.d/ssh restart

#### **Upload Packages**

- 1. SSH to the store using public IP of VM store VM (Go to VM instances and select store VM which is created above).
- 2. Upload the following Package to /home/sureline directory of the store VM:

- surestor-prereq-installer.tar.gz
- surestor-installer-scripts.tar.gz
- surestor-installer.tar.gz

**Note**: Refer the Downloading SUREedge DR Installer section to download the installer files.

#### Installation

 Connect to deployed vm using SSH and run following commands: tar -xzvf surestor-prereq-installer.tar.gz -C/

```
sudo sudo tar -xzvf surestor-installer-scripts.tar.gz -C
/home/sureline
```

sudo tar -xzvf surestor-installer.tar.gz -C/

cd /opt/sureline/proxy-installer
sudo bash install store prereq.sh GCP

2. The installation progresses and once the installation is completed run the following commands:

```
cd ~ sudo bash store_prepare_sure.sh GCP
```

sudo bash store installer.sh

- 3. Make sure /sure and /sure/db partitions are mounted.
- 4. Verify store installation by running below command: sudo systemctl status surestor

#### **Create Management Console (MC)**

- 1. Login to GCP and navigate to the **Compute Engine** (<u>https://console.cloud.google.com/</u>) and Click the **VM Instances.**
- Select Create Instance on the top pane. The VM manual deployment setting page opens:

| =      | Google Cloud Platform | 🕽 Sureedge-QA 👻     | Q Sea              | rch products and                      | resources   |                |         | ~              | 2.               | 9 32      | :       |
|--------|-----------------------|---------------------|--------------------|---------------------------------------|-------------|----------------|---------|----------------|------------------|-----------|---------|
| ۲      | Compute Engine        | VM instances        | CREATE INSTANCE    | MARK IN THE REAL PROPERTY AND INCOME. | CREFRESH    | ► START/RESUME | ÷       | © OPERATIONS ▼ | E HELP ASSISTANT | SHOW INFO | 0 PANEL |
| Virtua | I machines            | = Filter Enter prop | erty name or value |                                       |             |                |         |                |                  | 0         | III     |
| A      | VM instances          | Status              | Name 🛧 Zone        | Machine type                          | Internal IP | External IP    | Network | Network tags   | Connect          |           |         |
|        | Instance templates    |                     |                    |                                       |             |                |         |                |                  |           |         |
| 日      | Sole-tenant nodes     |                     |                    |                                       |             |                |         |                |                  |           |         |
| Ħ      | Machine images        |                     |                    |                                       | •           |                |         |                |                  |           |         |
| 8      | TPUs                  |                     |                    |                                       |             | AN             |         |                |                  |           |         |

3. Enter **Name** of VM in the format as "sureedge-dr-windows-vm- followed by the string of user choice".

For Example: sureedge-dr-windows-vm-test

- 4. Choose **Region** and **Zone** from the drop-down list.
- 5. In the machine configuration setting choose **Machine Type** as a **e2-standard-4 (4 vCPU, 16 GB memory)** from the drop-down list.
- In the Boot Disk Section, select the Operating system as a Windows, Version as a Windows Server 2019 Datacenter, Boot disk type as a Standard Persistent disk, and add disk Size according to the requirement.
- 7. In the Identity and API access section, choose **Service account** from the drop-down list.
- 8. In the Networking Section, add the **Network tags** if required. Choose **Network Service Tier** as a **Standard (us-central1)** from the selection.
- 9. Select **CREATE** to create a management console VM.
- 10. Select **EDIT** on the top pane and find the Custom metadata option. Enter the following values and click **Save**.

| Parameter (key)                        | Value                                  |  |  |
|--|--|--|--|
| storeVMName Enter the linux store name |  |  |  |
|  | For Example: sureedge-dr-linux-vm-test |  |  |
| mcVMName                               | Enter windows mc name                  |  |  |
|  | For Example: sureedge-dr-windows-vm-   |  |  |
|  | test                                   |  |  |

#### **Create User**

1. Select the Management Console VM and click **RDP** choose **Set Windows password** from drop-down list. Set new Windows password window opens.

| =       | Google Cloud Platform    | Suree      | edge-QA 🔻            |                               | <b>Q</b> Sea      | rch products and     | resources             |                |              | ~  | <b>&gt;.</b> (?) | 34         | ÷ 🧕    |
|---------|--------------------------|------------|----------------------|-------------------------------|-------------------|----------------------|-----------------------|----------------|--------------|--|------------------|------------|--------|
| ۲       | Compute Engine           | VM ins     | tances               | CREATE                        | INSTANCE          | A IMPORT VM          | CREFRESH              | :              | © OPERATIONS | S ▼  | SHOW INFO PAN    | EL         | SLEARN |
| Virtual | machines ^               | INST       | ANCES                | INSTANCE SCHE                 | DULE              |                      |                       |                |              |  |                  |            |        |
| 8       | VM instances             | VM instar  | nces are highly      | y configurable virtu          | ual machines      | for running workload | s on Google           |                |              |  |                  |            |        |
|         | Instance templates       | infrastruc | ture. <u>Learn m</u> | ore                           |                   |                      |                       |                |              |  |                  |            |        |
| 8       | Sole-tenant nodes        | ∓ Fil      | Iter Enter pro       | perty name or valu            | ue                |                      |                       |                |              |  |                  | 0          | III    |
| 2       | Machine images           |            | Status               | Name 🛧                        | Zone              | Machine type         | Internal IP           | External IP    | Network      | Network tags   | Conne            | ect        |        |
| 88      | TPUs                     |            | 0                    | sureedge-<br>dr-linux-<br>vm- | us-<br>central1-f | e2-standard-4        | 10.128.0.22<br>(nic0) | 34.136.170.53  | sureqa-vpc   | sureedge-dr-661-30aug-vip-se-cor<br>sureedge-dr-661-30aug-vip-se-wel | nmn SSF<br>oui   | •          | :      |
| %       | Committed use discounts  |            | -                    | test661                       |                   |                      |                       |                |              |  |                  |            |        |
| ٩       | Migrate for Compute Engi |            | ⊘                    | dr-<br>windows-               | us-<br>central1-f | e2-standard-4        | 10.128.0.30<br>(nic0) | 34.136.104.164 | sureqa-vpc   | Set Windows password   | nmn RDF          | , <b>.</b> |        |
| Storag  | e v                      |            |                      | vm-<br>test661                |                   |                      |                       |                |              | View gcloud command t  | to reset passwo  | rd         |        |
| 0       | Disks                    |            |                      |                               |                   |                      |                       |                |              | Download the RDP file  |                  |            |        |
| 0       | Snapshots                |            |                      |                               |                   |                      |                       |                |              | Learn about Windows a  | uth              |            |        |
|         |                          |            |                      |                               |                   |                      |                       |                |              | · · · · · · · · · · · · · · · · · · ·                                |                  |            |        |

2. Enter **Username** for the windows VM. Select **Set**. The new windows password window shows the **Password** for the windows VM.

Note The password will appear once save and secure properly.

#### **Upload Package**

Connect to deployed VM using RDP and copy the below packages that are available with installer zip.

Note: Refer the Downloading SUREedge DR Installer section to download the installer files.

- SUREedgeServerUtility.exe
- SUREedge\_Software\_Setup.exe
- SUREedge\_Storage\_engine\_system. image
- Version
- SUREedge\_Software\_Appliance\_Generic\_Installer.zip
- SUREedge\_Software\_Appliance\_Installer\_For\_vmware.zip
- SUREedge\_Software\_Appliance\_Installer\_For\_hyper-v.zip

### Installing SUREedgde DR

Once the GCP installer is downloaded and extracted, your GCP server is ready and has the required pre-requisites installed/allocated the SUREedge DR software can be installed. Copy or download the SUREedge DR installer package for GCP and your license key to the GCP server where it is to be installed and right click on the installer and select **Run as Administrator** for Installation:

| 📕 I 🖸 📕 🖛 I   |  | Manage  | Installer_Files   |
|---|--|---|---|
| File Home   | Share View   | Application Tools   |   |
| ← → • ↑ [   | > This PC > Loc  | al Disk (C:) → Installe   | r_Files   |
| <ul> <li>Quick access</li> <li>Desktop</li> <li>Downloads</li> <li>Documents</li> <li>Pictures</li> </ul> | Name<br>sureer<br>SURE<br>SURE<br>SURE<br>SURE<br>SURE<br>SURE | dge_server_utility.tar.g<br>edge_Software_Appliar<br>edge_Software_Appliar<br>edge_Software_Appliar | z<br>nce_Generic_Installer<br>nce_Installer_For_hyper-v<br>nce_Installer_For_vmware |
| This PC   |  | d Open  | istrator  |
| 🥩 Network   | surest   | or Troubleshoot<br>or Pin to Start<br>or B Share  | compatibility   |

1. The first screen you'll see is a welcome screen:



Click Next to continue.

2. Read the license agreement and click **I Agree** to continue.

| P 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<br>AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) AND<br>Persistent Systems, Inc., AND ITS THIRD-PARTY LICENSORS ("Persistent Systems"). BY<br>INSTALLING OR USING THIS SOFTWARE IN ANY WAY YOU ACKNOWLEDGE THAT YOU<br>HAVE READ, UNDERSTOOD AND AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU<br>DO NOT AGREE TO THESE TERMS, DO NOT INSTALL OR USE THIS SOFTWARE IN ANY<br>WAY, AND PROMPTLY RETURN THE SOFTWARE WITH PROOF OF PURCHASE TO THE<br>PARTY FROM WHOM YOU ACQUIRED IT AND OBTAIN A REFUND OF THE AMOUNT YOU<br>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. On the next screen, select the product to be installed and click **Next** to continue:

By default, the "SUREedgeDR" is selected.

| 🕈 SUREedge 6.6.1 Setup                              | _   |        |
|---|-----|--------|
| Select Product<br>Select Product for SUREedge 6.6.1 |     | ி      |
| Product to be installed :                           |     |        |
| <ul> <li>SUREedge Migrator</li> </ul>               |     |        |
| SUREedge DR   |     |        |
|   |     |        |
|   |     |        |
|   |     |        |
|   |     |        |
|   |     |        |
|   |     |        |
| Persistent Systems - SUREedge                       |     |        |
| < Back Nex  | t > | Cancel |

4. Specify details about Store Details and click Next:

| P SUREedge 6.6.1 Setup   | _   |    | ×    |
|--|-----|----|------|
| Store Details  |     |    | 0    |
| This server will be used to store capture/backup data.               |     |    | 9    |
| IP Address   |     |    |      |
|  |     |    |      |
| Username   |     |    |      |
| sureline   |     |    |      |
| Password   |     |    |      |
| [Note: password with (", ', space, =) characters are not supported ] |     |    |      |
|  |     |    |      |
|  |     |    |      |
|  |     |    |      |
|  |     |    |      |
|  |     |    |      |
| Persistent Systems - SUREedge  |     |    |      |
| < Back Next  | t > | Ca | ncel |

The fields should be filled in as follows:

**IP Address**: The IP address of the linux store VM will be filled in (10.128.0.44 in this example) and normally does not need to be changed.

Note: Enter store internal IP address.

- \ **Username and Password**: Specify the credentials for the Store account under which SUREedge DR will perform operations.
  - 5. Enter SUREedge configuration details and click Next:

| 子 SUREedge 6.6.1 Setup                    |            | _      |    | ×    |
|---|------------|--------|----|------|
| SUREedge Configuration                    |            |        |    | _0   |
|   |            |        |    | 0    |
|   |            |        |    |      |
|   |            |        |    |      |
| Instance Name (optional)                  |            |        |    |      |
| SUREedge                                  |            |        |    |      |
| Instance Location (optional)              |            |        |    |      |
|   |            |        |    |      |
| SUREedge MC Password For "SUREEDGE-DR-WIN | sureline " |        |    |      |
|   |            |        |    |      |
|   |            |        |    |      |
| Persistent Systems - SUREedge             |            |        |    |      |
|   | < Back     | Next > | Ca | ncel |

The fields should be filled in as follows:

- Instance Name: Enter the Instance name and Its optional field (For Example: SUREedge as shown in example)
- \ Instance Location: Enter the Instance location and its option field.
- **SUREedge MC Password**: Enter the windows MC password.
  - 6. The next screen is the final confirmation that you wish to continue with the installation process:

| 🕂 SUREedge 6.6.1 Setup   | —       |           | Х    |
|--|---------|-----------|------|
| Install  |         |           | P    |
| Installing SUREedge 6.6.1  |         |           | 0    |
| Verification of inputs completed. Click 'Install' to start installation of SUR system. | Eedge 6 | .6.1 on y | /our |
|  |         |           |      |
|  |         |           |      |
|  |         |           |      |
|  |         |           |      |
|  |         |           |      |
| Persistent Systems - SUREedge  |         |           |      |
| < <u>B</u> ack <u>I</u> nst  | tall    | Car       | ncel |

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.

| P SUREedge 6.6.1 Setup                               | _   |    | $\times$ |
|--|-----|----|----------|
| Installing   |     |    | 0        |
| Please wait while SUREedge 6.6.1 is being installed. |     |    | J        |
| Installing SUREedge store                            |     |    |          |
|  |     |    |          |
| Show details   | _,  |    |          |
| Installing SUREedge store                            |     |    |          |
| O Please wait  |     |    |          |
|  |     |    |          |
|  |     |    |          |
|  |     |    |          |
|  |     |    |          |
| Persistent Systems - SUREedge                        |     |    |          |
| < Back Next  | t > | Ca | ncel     |



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

7. Click on Finish to complete the installation.

SUREedge DR is now installed on the system. To connect to the SUREedge DR user interface, open a Google Chrome web-browser window and type the name or IP address of the Windows SUREedge Management Console (MC) component have been just installed.

You can now log into the DR user interface using the credentials that you specified during the installation. It displays a login screen:



You are now all set to start backing up your servers and applications using **SUREedge DR**. Refer to the **SUREedge DR User Guide** for the next step to **Backup** and **Restore** your servers.

## **Required APIs, Roles and Permissions**

SUREedge DR requires that certain APIs can be used within the project(s) where VMs will be recovered and needs a service account with the appropriate roles and permissions enabled. The APIs, roles and required permissions are listed in the table below:

| Required Project APIs            |  |  |
|----------------------------------|--|--|
| iam.googleapis.com               | cloudresourcemanager.googleapis.com          | logging.googleapis.com                             |
| compute.googleapis.com           | storage-component.googleapis.com             | monitoring.googleapis.com                          |
| Required Roles                   |  |  |
| iam.serviceAccountUser           | logging.logWriter                            | roles/monitoring.metricWriter                      |
| roles/monitoring.viewer          |  |  |
| Required Permissions             |  |  |
| compute.addresses.create         | compute.addresses.createInternal             | compute.addresses.delete                           |
| compute.addresses.deleteInternal | compute.addresses.get                        | compute.addresses.list                             |
| compute.addresses.setLabels      | compute.addresses.use                        | compute.addresses.useInternal                      |
| compute.diskTypes.get            | compute.diskTypes.list                       | compute.disks.create                               |
| compute.disks.delete             | compute.disks.get                            | compute.disks.list                                 |
| compute.disks.setLabels          | compute.disks.update                         | compute.disks.use                                  |
| compute.disks.useReadOnly        | compute.disks.createSnapshot                 | compute.images.get                                 |
| compute.images.list              | compute.images.useReadOnly                   | compute.snapshots.create                           |
| compute.snapshots.delete         | compute.snapshots.useReadOnly                | compute.instances.attachDisk                       |
| compute.instances.create         | compute.instances.delete                     | compute.instances.detachDisk                       |
| compute.instances.get            | compute.instances.getSerialPortOutput        | compute.instances.list                             |
| compute.instances.reset          | compute.instances.setDiskAutoDelete          | compute.instances.setLabels                        |
| compute.instances.setMachineType | compute.instances.setMetadata                | compute.instances.setMinCpuPlatform                |
| compute.instances.setScheduling  | compute.instances.setServiceAccount          | compute.instances.setTags                          |
| compute.instances.start          | compute.instances.startWithEncryptionK<br>ey | compute.instances.stop                             |
| compute.instances.update         | compute.instances.updateNetworkInterf ace    | compute.instances.updateShieldedInsta<br>nceConfig |
| compute.instances.use            | compute.licenseCodes.get                     | compute.licenseCodes.list                          |
| compute.licenseCodes.update      | compute.licenseCodes.use                     | compute.licenses.get                               |
| compute.licenses.list            | compute.machineTypes.get                     | compute.machineTypes.list                          |
| compute.networks.get             | compute.networks.list                        | compute.networks.use                               |
| compute.networks.useExternalIp   | compute.nodeGroups.get                       | compute.nodeGroups.list                            |
| compute.nodeTemplates.list       | compute.projects.get                         | compute.regionOperations.get                       |
| compute.regions.get              | compute.regions.list                         | compute.subnetworks.get                            |

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| compute.subnetworks.list       | compute.subnetworks.use       | compute.subnetworks.useExternalIp |
|--------------------------------|-------------------------------|-----------------------------------|
| compute.zoneOperations.get     | compute.zones.get             | compute.zones.list                |
| iam.serviceAccounts.get        | iam.serviceAccounts.list      | resourcemanager.projects.get      |
| storage.buckets.create         | storage.buckets.delete        | storage.buckets.get               |
| storage.buckets.list           | storage.buckets.update        | storage.objects.create            |
| storage.objects.delete         | storage.objects.get           | storage.objects.list              |
| storage.objects.update         | compute.disks.resize          | runtimeconfig.variables.create    |
| runtimeconfig.variables.delete | runtimeconfig.variables.get   | runtimeconfig.variables.list      |
| runtimeconfig.variables.update | runtimeconfig.variables.watch |                                   |

To ease the process of setting up these permissions, Persistent provides a script that can be run in a cloud shell in your account. Create a service account and grant it the required roles and permissions. Run the script under a user account with the following roles:

- **Owner:** Privileges for the project(s) into which systems can be recovered
- **Organization Role Administrator:** Privileges for the account
- **Organization Administrator**: Privileges for the cloud account

**Note:** If the systems being recovered is brought up within a single project, then the recovery can be achieved with permissions strictly enabled for that project. In this case, the script can be run with only the project's **Owner** role.

### **Running the Setup Script**

To run the permissions setup script, click **Activate Cloud Shell** at the top of the <u>Google Cloud</u> <u>Platform Console</u>:



A Cloud Shell session opens inside a new frame at the bottom of the console and displays a command-line prompt. It may take a few seconds for the session to be initialized.

At the prompt, run the command below to download a configuration script to create Google Cloud roles and service accounts:

```
gsutil cp gs://sureline-release/DR/6.6.1/SUREedgePreDeployment/* .
```

This command copies the following files into the Cloud Shell environment:

```
SUREedgeDRPreDeployment.py sureedge deployment.json
```

Run the script SUREedgePreDeployment.py to create the required role and service account for SUREedge DR. The script's usage is as follows:

```
python3 SUREedgePreDeployment.py [-h] -d <DEPLOYMENT_NAME> -p <PROJECT_ID>
[-o <ORG_ID>]
```

| Argument  | Description  | Required |
|---|--|----------|
| -h,help   | Show this help message and exit  | No       |
| -d<br>< <i>DEPLOYMENT_NAME&gt;</i><br>deployment-name<br>< <i>DEPLOYMENT_NAME&gt;</i> | A suffix that is appended to the Service<br>Account and Role names created by the script.<br>Must be less than 8 characters and contains<br>lowercase letters and numbers. | Yes      |
| -p < <i>PROJECT_ID&gt;</i><br>project-id<br>< <i>PROJECT_ID</i> >                     | The ID of the GCP project that hosts your DR instance.   | Yes      |
| -o <org_id><br/>org-id <org_id></org_id></org_id>                                     | The numeric GCP organization ID in which the role is created, and that administers the project(s) where recovered systems exist.   | No       |

where the arguments are:

For example, run the following command to create roles and permissions using the suffix sureorg2 for deployment of a SUREedge DR instance into the project **sureline-demo** within the organization whose ID is *012345678910*:

python3 SUREedgePreDeployment.py -d sureorg6 -p sureline-demo -o 012345678910

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|---|---|---|--|
| DASHBOARD ACTIVITY RECOMMENDATIONS  |   | CUSTOMIZE   |  |
| Project info :<br>Project name<br>gcp-target-project<br>Project ID<br>sureline-demo   | Compute Engine     CPU (%)     100%     00%         | Google Cloud Platform status<br>All services normal<br>→ Go to Cloud status dashboard |  |
| CLOUD SHELL<br>Terminal (sureline-demo) x + -   |   | ✓ Open Editor   |  |
| dhiraj@cloudshell:~ (sureline-demo) \$ python3 SUREedgePreDeployment.py -d sureorg6 -p sureline-demo -o 012345678910<br>Service Account with name sureedge-manager-sureorg6@sureline-demo.lam.gserviceaccount.com created successfully. Provide this service account as input in<br>SUREedge Migrator deployment.<br>dhiraj@cloudshell:~ (sureline-demo) \$ |   |   |  |

This creates the role **SUREedge Manager sureorg6** within the organization with ID 012345678910, within the project **sureline-demo**, and creates the service account: sureedge-manager-sureorg6@sureline-demo.iam.gserviceaccount.com.

If all recovery operations occur within a single project then run the script without the organization ID option ( $-\circ$  <ORG ID>):

python3 SUREedgePreDeployment.py -d sureproj -p sureline-demo

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|---|------------------------------|--|-----------------------------|---|---------------|---|
| DASHBOARD ACTIVITY RECOMMEN   | IDATIONS                     |  |                             |   | CUSTOMIZE     |   |
| Project info<br>Project name<br>gcp-target-project<br>Project ID<br>sureline-demo   | I                            | Compute Engine<br>CPU (%)  | 100%                        | <ul> <li>Google Cloud Platform status</li> <li>All services normal</li> <li>→ Go to Cloud status dashboard</li> </ul> | :             | • |
| Project number  |                              |  | 60%                         |   |               | - |
| dhiraj@cloudshell:~ (sureline-demo) x + v<br>dhiraj@cloudshell:~ (sureline-demo) \$ py<br>Service Account with name sureedge-man<br>SUREedge Migrator deployment.<br>dhiraj@cloudshell:~ (sureline-demo) \$ | thon3 SUREed<br>ager-surepro | igePreDeployment.py -d sureproj -p sur<br>jĝsureline-demo.iam.gserviceaccount.co | eline-demo<br>om created su | uccessfully. Provide this service account   | L as input in | n |

This command creates SUREedge Manager sureproj role and the service account:

sureedge-manager-sureproj@sureline-demo.iam.gserviceaccount.com in the surelinedemo project.

## **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 Systems or by contacting the Accelerite Support Team at <a href="mailto:support@accelerite.com">support@accelerite.com</a>.

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 the SUREedge DR 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 <u>https://support.accelerite.com/hc/en-us</u>

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 <u>https://support.accelerite.com/hc/en-us</u>

To know more about registration process at Accelerite support portal, visit <a href="https://support.accelerite.com/hc/en-us/articles/202042570-New-user-registration-process">https://support.accelerite.com/hc/en-us/articles/202042570-New-user-registration-process</a>

#### **About Persistent**

With over 13,500 employees around the world, Persistent Systems (BSE & NSE: PERSISTENT) is a global services and solutions company delivering Digital Engineering and Enterprise Modernization.

#### www.persistent.com

#### India

Persistent Systems Limited Bhageerath, 402, Senapati Bapat Road Pune 411016. Tel: +91 (20) 6703 0000 Fax: +91 (20) 6703 0008

#### USA

Persistent Systems, Inc. 2055 Laurelwood Road, Suite 210 Santa Clara, CA 95054 Tel: +1 (408) 216 7010 Fax: +1 (408) 451 9177 Email: info@persistent.com

