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## **Prerequisites**

In order to make use of this cmdlet the firewall on the Azure SQL Server will need to be configured to "Allow Azure services and resources to access this server". If this is not configured then GatewayTimeout errors will be experienced.

# Azure Configuration

## Setup Storage Accounts

Choose LRS for lower costs:

[Home](#) > [Storage accounts](#) >

### Create a storage account ...

**Basics**   Advanced   Networking   Data protection   Encryption   Tags   Review

Subscription \*

Resource group \*

[Create new](#)

#### Instance details

If you need to create a legacy storage account type, please click [here](#).

Storage account name ⓘ \*

Region ⓘ \*

Performance ⓘ \*  **Standard:** Recommended for most scenarios (general-purpose v2 account)

**Premium:** Recommended for scenarios that require low latency.

Redundancy ⓘ \*

**Review**

< Previous

Next : Advanced >

After creation, using the menu on the left, create a container, call it staging or similar.

Also create a storage container called “restored” or similar

# Provisioning Google

If you don't already have a Google cloud account for your organization begin at <https://console.cloud.google.com/>

After entering your billing information etc:

Create a storage bucket in cloud storage:

The screenshot shows the Google Cloud console interface for creating a storage bucket. The top navigation bar includes the Google Cloud logo, the account name 'ackdev-prod', and a search bar. The left sidebar contains navigation options: Browser, Monitoring, Settings, Marketplace, and Release Notes. The main content area is titled 'Create a bucket' and is currently on the 'Name your bucket' step. A text input field contains the name 'offsite\_db\_storage'. Below the input is a tip: 'Tip: Don't include any sensitive information'. A 'CONTINUE' button is visible. The next step, 'Choose where to store your data', is partially visible, showing three radio button options: 'Multi-region' (Highest availability across largest area), 'Dual-region' (High availability and low latency across 2 regions), and 'Region' (Lowest latency within a single region, which is selected). A dropdown menu below the radio buttons shows 'us-east1 (South Carolina)'.

Be sure to pick a region away from your current storage location. For example if your main database is on the west coast, choose the east coast for your offsite backup location.

Choose coldline storage for lower costs while maintaining availability:

- **Choose a default storage class for your data**

A storage class sets costs for storage, retrieval, and operations. Pick a default storage class based on how long you plan to store your data and how often it will be accessed. [Learn more](#)

- Standard   
Best for short-term storage and frequently accessed data
- Nearline  
Best for backups and data accessed less than once a month
- Coldline  
Best for disaster recovery and data accessed less than once a quarter
- Archive  
Best for long-term digital preservation of data accessed less than once a year

CONTINUE

## Configuring the Agent

Create a VM instance using Debian, again choose a location away from your databases in Azure:

Name \*  
offsite-vm-instance 

Labels   
[+ ADD LABELS](#)

Region \*  
us-east1 (South Carolina)   
Region is permanent

Zone \*  
us-east1-b   
Zone is permanent

### Machine configuration

Machine family

[GENERAL-PURPOSE](#) [COMPUTE-OPTIMIZED](#) [MEMORY-OPTIMIZED](#) [GPU](#)

Machine types for common workloads, optimized for cost and flexibility

Series  
E2   
CPU platform selection based on availability

Machine type  
e2-medium (2 vCPU, 4 GB memory) 



vCPU  
1 shared core

Memory  
4 GB

Disable the public IP, then start your new VM instance and SSH into it via the SSH button to the right on the instance:

INSTANCES    INSTANCE SCHEDULES

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	✓	offsite	us-central1-a	💡 Save \$17 / mo		10.128.0.4 (nic0)	34.68.28.82 (nic0)	SSH ▾

Install Docker: <https://docs.docker.com/engine/install/debian/>

Add your runtime user to the docker group:

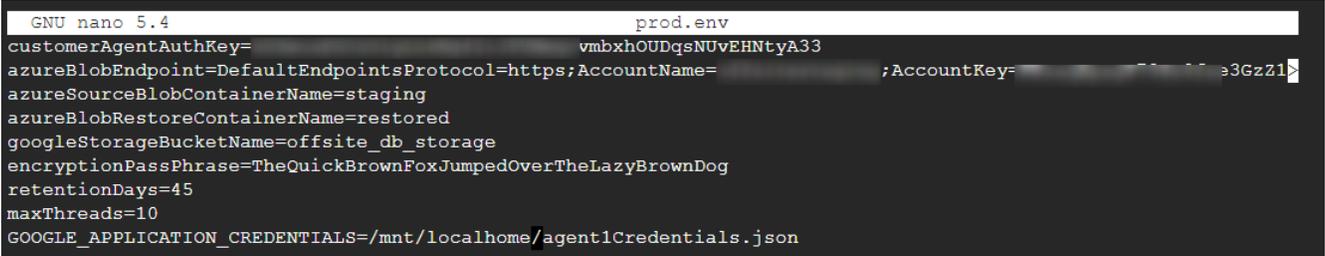
```
sudo usermod -a -G docker $USER
su -l $USER
```

Install SecuritasMachina docker image:

```
docker pull securitasmachina2022/securitasmachinaoffsiteagent:latest
```

Create a prod.env text file, fill it in with your values:

```
customerAgentAuthKey
azureBlobEndpoint
azureSourceBlobContainerName
azureBlobRestoreContainerName
googleStorageBucketName
encryptionPassPhrase
retentionDays
maxThreads
GOOGLE_APPLICATION_CREDENTIALS
```



```
GNU nano 5.4 prod.env
customerAgentAuthKey=vmbxhOUDqsNUvEHNTyA33
azureBlobEndpoint=DefaultEndpointsProtocol=https;AccountName=;AccountKey=3GzZ1
azureSourceBlobContainerName=staging
azureBlobRestoreContainerName=restored
googleStorageBucketName=offsite_db_storage
encryptionPassPhrase=TheQuickBrownFoxJumpedOverTheLazyBrownDog
retentionDays=45
maxThreads=10
GOOGLE_APPLICATION_CREDENTIALS=/mnt/localhome/agent1Credentials.json
```

Add your ~/agent1Credentials.json to the Docker users home directory by first creating a service account with a private key in json format:

Google Cloud

Search service accounts

IAM & Admin

service account

DETAILS PERMISSIONS KEYS METRICS LOGS

### Keys

Service account keys contain a public key and a private key. For more information about the best way to authenticate with a service account, see [Service account keys and instances](#).

Add a new key pair or upload a public key.

Block service account key creation using organization policies. [Learn more about setting organization policies.](#)

ADD KEY ▾

Type	Status	Key
	Active	475bfa8
	Active	ffa7e49

### Create private key for "service account"

Downloads a file that contains the private key. Store the file securely because this key can't be recovered if lost.

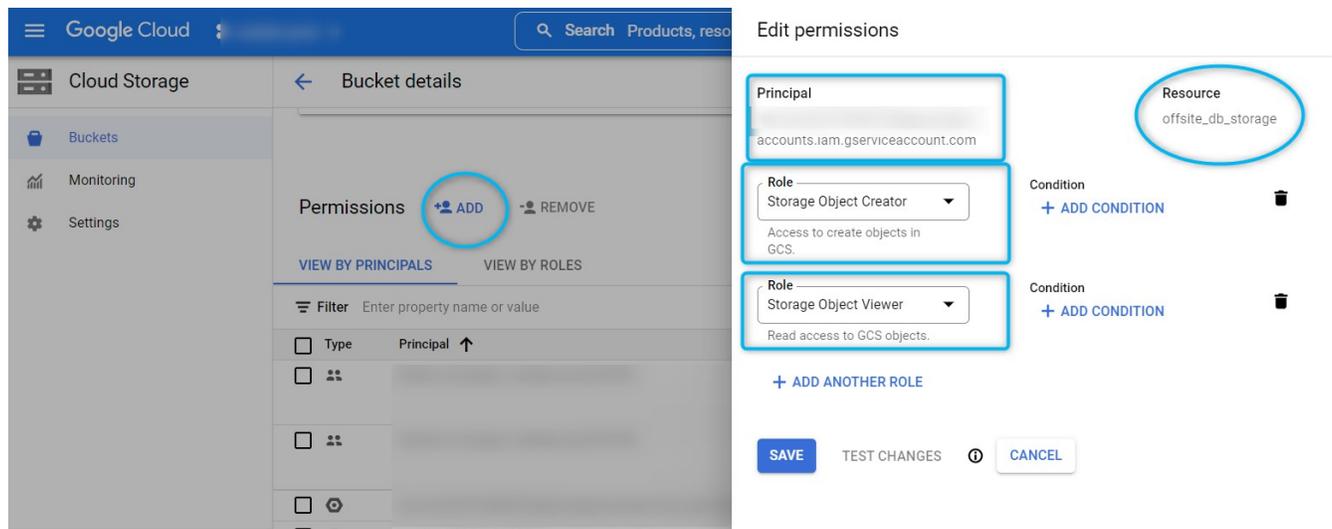
Key type

JSON  
Recommended

P12  
For backward compatibility with code using the P12 format

CANCEL CREATE

Assign the service account Creator and Viewer:



Run the container passing in your home directory (or directory containing json file):

```
docker run -it -d --env-file=./prod.env -v ~:/mnt/localhome
securitasmachina2022/securitasmachinaoffsitagent
```

Note we suggest running interactively the first time to validate your configuration:

```
docker run -it --env-file=./prod.env -v ~:/mnt/localhome
securitasmachina2022/securitasmachinaoffsitagent
```

