

Atos Unify OpenScape Business S

Google Cloud Platform (GCP)
Deployment

Partner's Guide

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Disclaimer

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This document is intended for trained OpenScape Business and Google Cloud Platform technicians or trained OpenScape Business technicians with the support of Google Cloud Platform experts, such as an Administrator or System Integrator.

The configuration example within this document shows a basic network setup of the OpenScape Business S image in a Google Cloud Platform (GCP) environment with mandatory requirements, such as the need of activating Google VPN for a secure operation.

Depends on the used Google Cloud Platform version and individual customer needs, especially in regards of security aspects or advanced network settings, further configuration (Google Firewall, etc.) steps might be needed. Availability and technical specifications are subject to change without notice.

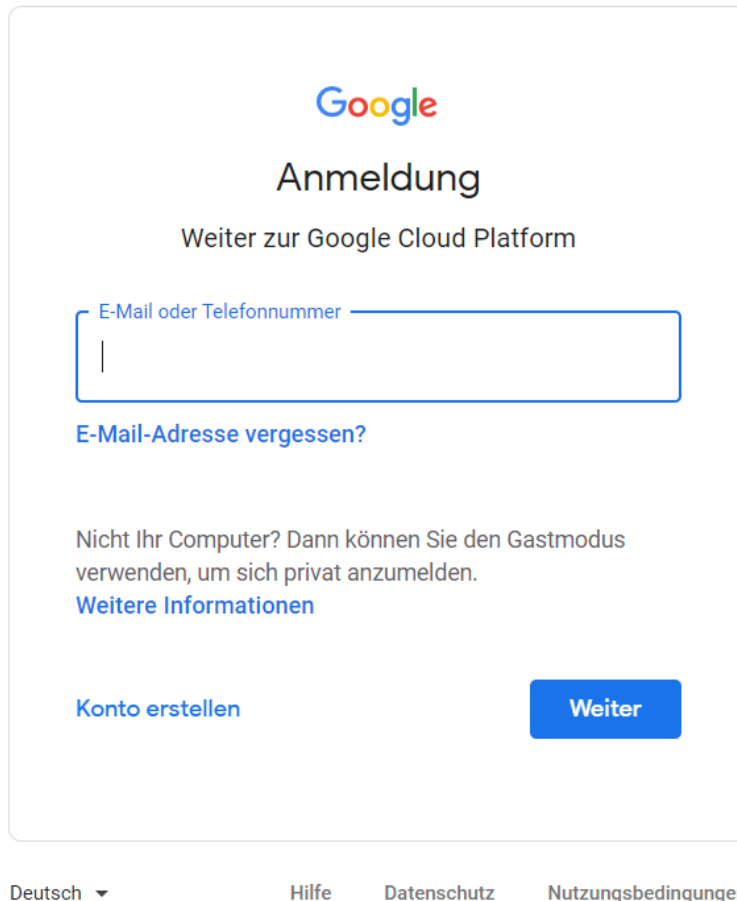
Atos Unify doesn't deliver any administration services, training or cost information (for e.g. required Google Cloud packages, modules or licenses, etc.) for the Google Cloud Platform. This is up to the responsibility of the Google Cloud Operator, the Administrator or System Integrator.

Furthermore the operator of the Google Cloud Platform is responsible for any security and/or configuration issues might lead in a malfunction or a security leak.

The following description refers to OpenScape Business V3R2 and above.

1 Import the OpenScape Business S SW image to your custom images list in GCP

1.1 **Step1:** Login to Google Cloud Platform <https://console.cloud.google.com/>



The image shows the Google login page for Google Cloud Platform. At the top is the Google logo, followed by the heading "Anmeldung" (Login) and the subheading "Weiter zur Google Cloud Platform" (Continue to Google Cloud Platform). Below this is a text input field labeled "E-Mail oder Telefonnummer" (Email or phone number). Under the input field is a link "E-Mail-Adresse vergessen?" (Forgot email address?). Further down is a paragraph: "Nicht Ihr Computer? Dann können Sie den Gastmodus verwenden, um sich privat anzumelden." (Not your computer? Then you can use guest mode to log in privately.) followed by a link "Weitere Informationen" (More information). At the bottom left is a link "Konto erstellen" (Create account) and at the bottom right is a blue button labeled "Weiter" (Continue). At the very bottom of the page are links for "Deutsch" (German), "Hilfe" (Help), "Datenschutz" (Privacy), and "Nutzungsbedingungen" (Terms of service).

Google

Anmeldung

Weiter zur Google Cloud Platform

E-Mail oder Telefonnummer

E-Mail-Adresse vergessen?

Nicht Ihr Computer? Dann können Sie den Gastmodus verwenden, um sich privat anzumelden.

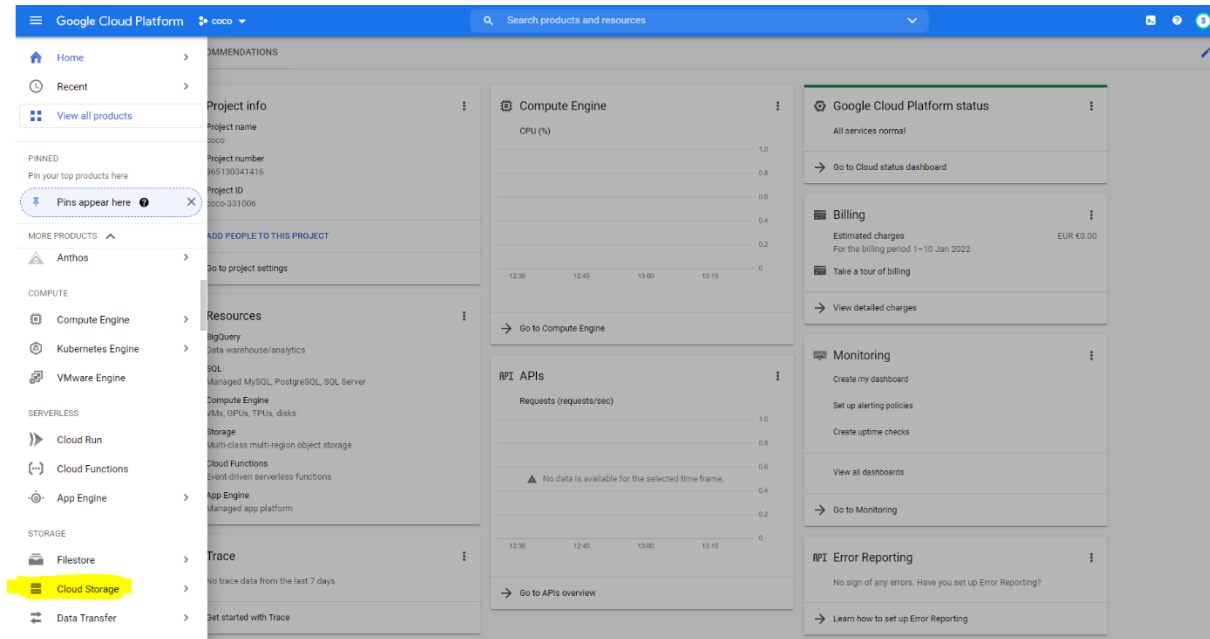
Weitere Informationen

Konto erstellen

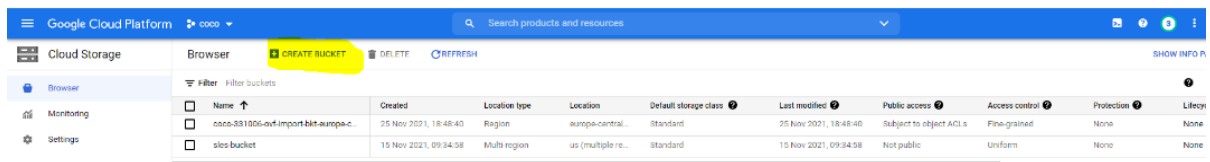
Weiter

Deutsch ▾ Hilfe Datenschutz Nutzungsbedingungen

1.2 Step2: Navigate to the Cloud Storage menu



1.3 Step3: Hit the Create Bucket button or use an existing button



1.4 Step4: Select a name and hit Create

Google Cloud Platform

Cloud Storage

Create a Bucket

- Name your bucket**
Pick a globally unique, permanent name. [Naming guidelines](#)

Tip: Don't include any sensitive information
LABELS (OPTIONAL)
[CONTINUE](#)
- Choose where to store your data**
Location: us (multiple regions in United States)
Location type: Multi-Region
- Choose a default storage class for your data**
Default storage class: Standard
- Choose how to control access to objects**
Public access prevention: Off
Access control: Uniform
- Choose how to protect object data**
Protection tools: None
Data encryption: Google-managed key

[CREATE](#) [CANCEL](#)

1.5 Step5: Navigate to the newly created bucket and hit Upload files to select the image-name.tar.gz that was generated in the previous section

Google Cloud Platform

Cloud Storage

Bucket details

sles-bucket

Location: us (multiple regions in United States) | Storage class: Standard | Public access: Not public | Protection: None

OBJECTS | CONFIGURATION | PERMISSIONS | PROTECTION | LIFECYCLE

Buckets > sles-bucket

[UPLOAD FILES](#) [UPLOAD FOLDER](#) [CREATE FOLDER](#) [MANAGE HOLDS](#) [DOWNLOAD](#) [DELETE](#)

1.6 Step6: When the upload is completed you will be able to see the new image-name.tar.gz file inside the bucket.

Google Cloud Platform

Cloud Storage

Bucket details

sles-bucket

Location: us (multiple regions in United States) | Storage class: Standard | Public access: Not public | Protection: None

OBJECTS | CONFIGURATION | PERMISSIONS | PROTECTION | LIFECYCLE

Buckets > sles-bucket

[UPLOAD FILES](#) [UPLOAD FOLDER](#) [CREATE FOLDER](#) [MANAGE HOLDS](#) [DOWNLOAD](#) [DELETE](#)

Filter by name prefix only | Filter: sles12

Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption	Retention expiry date	Hidden
sles12app.tar.gz	1.6 GB	application/x-tar	3 Dec 2021, 16:02:34	Standard	3 Dec 2021, 16:02:34	Not public	—	Google-managed key	—	None

1.7 Step7: Navigate to Computer Engine → Images

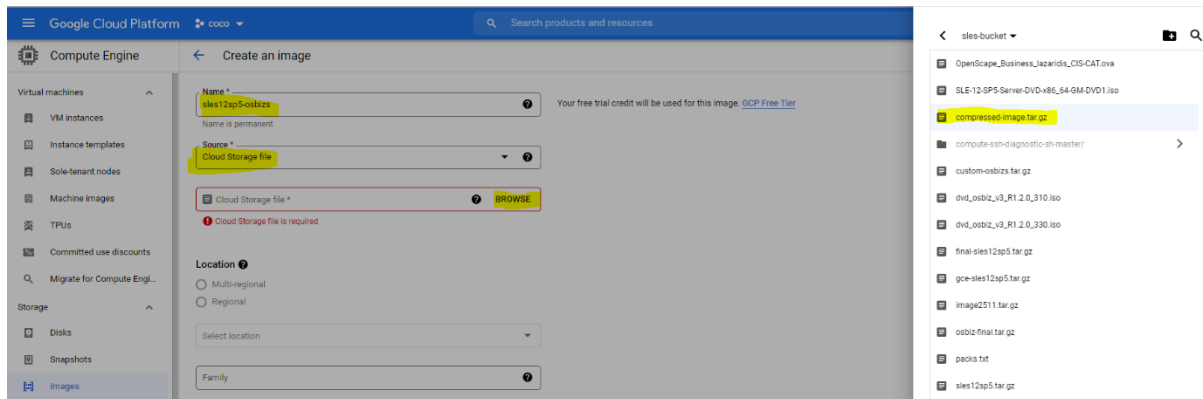
The screenshot shows the Google Cloud Platform console. On the left sidebar, the 'Compute Engine' menu item is highlighted. A dropdown menu is open, showing 'Images' as the selected option. The main content area displays the 'Images' page, which includes a table of existing images with columns for Name, Location, Archive size, Disk size, Created by, Family, Creation time, and Actions.

Name	Location	Archive size	Disk size	Created by	Family	Creation time	Actions
custom-osb2-s	us	15.47 GB	31 GB	coco-331006		Nov 16, 2021, 8:23:50 pm UTC+02:00	
final-demo	us	7.87 GB	32 GB	coco-331006		Dec 4, 2021, 11:05:49 pm UTC+02:00	
final-osb2s	us	6.43 GB	20 GB	coco-331006		Dec 5, 2021, 11:47:59 am UTC+02:00	
gce-sles12sp5	us	1.61 GB	30 GB	coco-331006		Dec 3, 2021, 6:54:51 pm UTC+02:00	
image-1	us	15.47 GB	31 GB	coco-331006		Nov 16, 2021, 8:22:30 pm UTC+02:00	
image-2	us	18.89 GB	35 GB	coco-331006		Nov 18, 2021, 7:43:02 pm UTC+02:00	
sles-2611	eu	21.88 GB	36 GB	coco-331006		Nov 26, 2021, 10:04:32 am UTC+02:00	
sles12sp5-stos	us	1.61 GB	30 GB	coco-331006		Dec 3, 2021, 4:02:56 pm UTC+02:00	
cd-deeplearning-common-cpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	common-cpu-debian-10	Dec 20, 2021, 9:26:57 pm UTC+02:00	
cd-deeplearning-common-cu113-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	common-di-gpu-debian-10	Dec 21, 2021, 12:41:43 am UTC+02:00	
ring-tf-1-15-cu110-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-1-15-gpu-debian-10	Dec 20, 2021, 11:06:45 pm UTC+02:00	
ring-tf-1-15-tpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-1-15-tpu-debian-10	Dec 20, 2021, 10:53:33 pm UTC+02:00	
ring-tf-2-1-cu110-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-1-gpu-debian-10	Dec 20, 2021, 11:41:04 pm UTC+02:00	
ring-tf-2-1-tpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-1-tpu-debian-10	Dec 20, 2021, 11:01:29 pm UTC+02:00	
ring-tf-2-3-cu110-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-3-gpu-debian-10	Dec 21, 2021, 12:02:56 am UTC+02:00	
ring-tf-2-3-tpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-3-tpu-debian-10	Dec 20, 2021, 11:46:18 pm UTC+02:00	
ring-tf-2-6-cu110-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-6-gpu-debian-10	Dec 21, 2021, 12:44:09 am UTC+02:00	
ring-tf-2-6-tpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-6-tpu-debian-10	Dec 21, 2021, 12:01:26 am UTC+02:00	
ring-tf-2-7-cu113-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-7-gpu-debian-10	Dec 21, 2021, 1:56:47 am UTC+02:00	
ring-tf-2-7-tpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	tf-2-7-tpu-debian-10	Dec 21, 2021, 12:43:02 am UTC+02:00	
ring-pytorch-1-10-cu110-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	pytorch-1-10-gpu-debian-10	Dec 20, 2021, 11:11:05 pm UTC+02:00	
ring-pytorch-1-10-tpu-v20211219-debian-10	asia, eu, us	—	50 GB	Debian	pytorch-1-10-tpu-debian-10	Dec 20, 2021, 10:10:06 pm UTC+02:00	
centos-7-v20200403	asia, eu, us	—	20 GB	CentOS	centos-7	Apr 7, 2020, 12:51:35 am UTC+03:00	

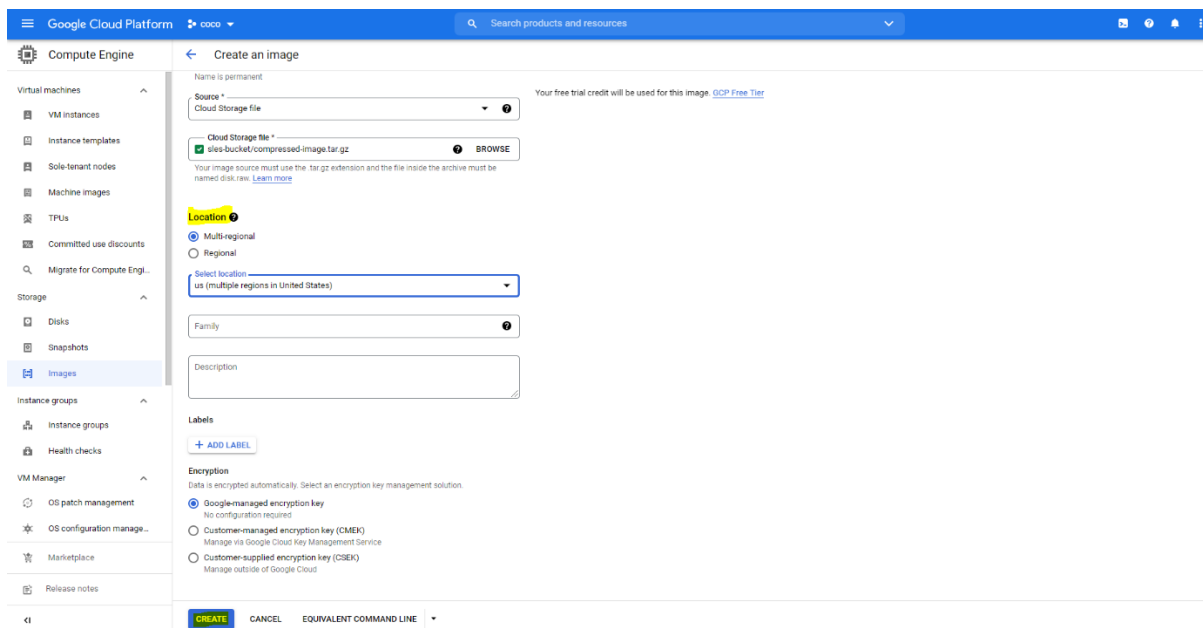
1.8 Step8: Hit Create Image

The screenshot shows the Google Cloud Platform console with the 'Images' page selected. The 'CREATE IMAGE' button is highlighted in yellow. The page includes a table of existing images, similar to the one in the previous screenshot, and a 'Filter' input field at the top of the table.

1.9 Step9: Enter the Name, as Source enter Cloud Storage file and then Hit Browse and select the recently uploaded image.



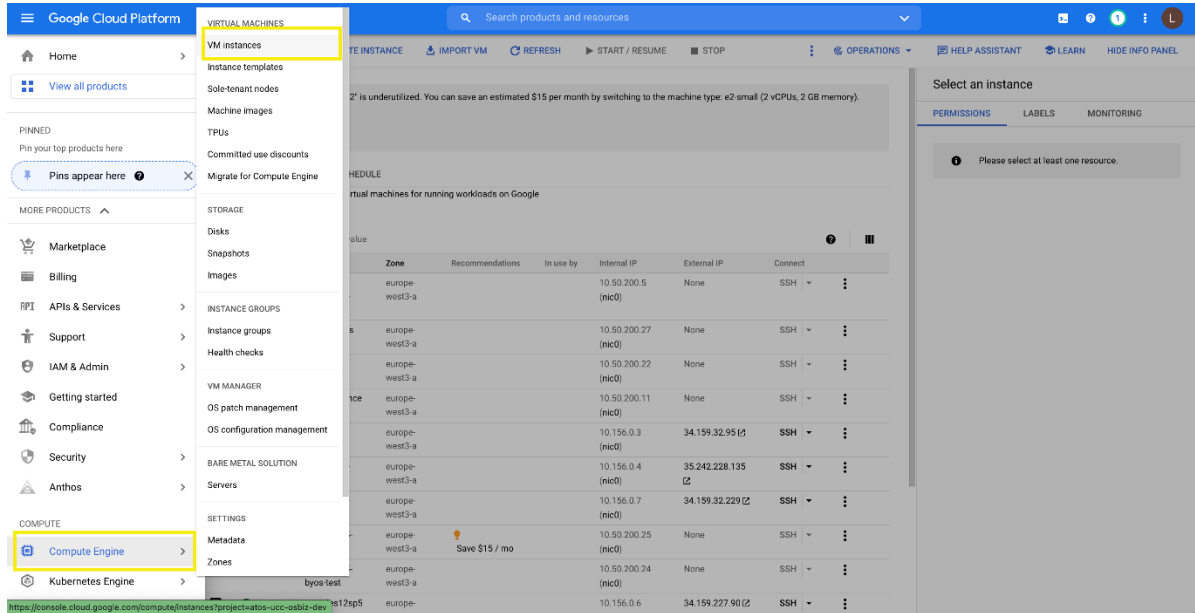
1.10 Step10: Select Location and hit Create



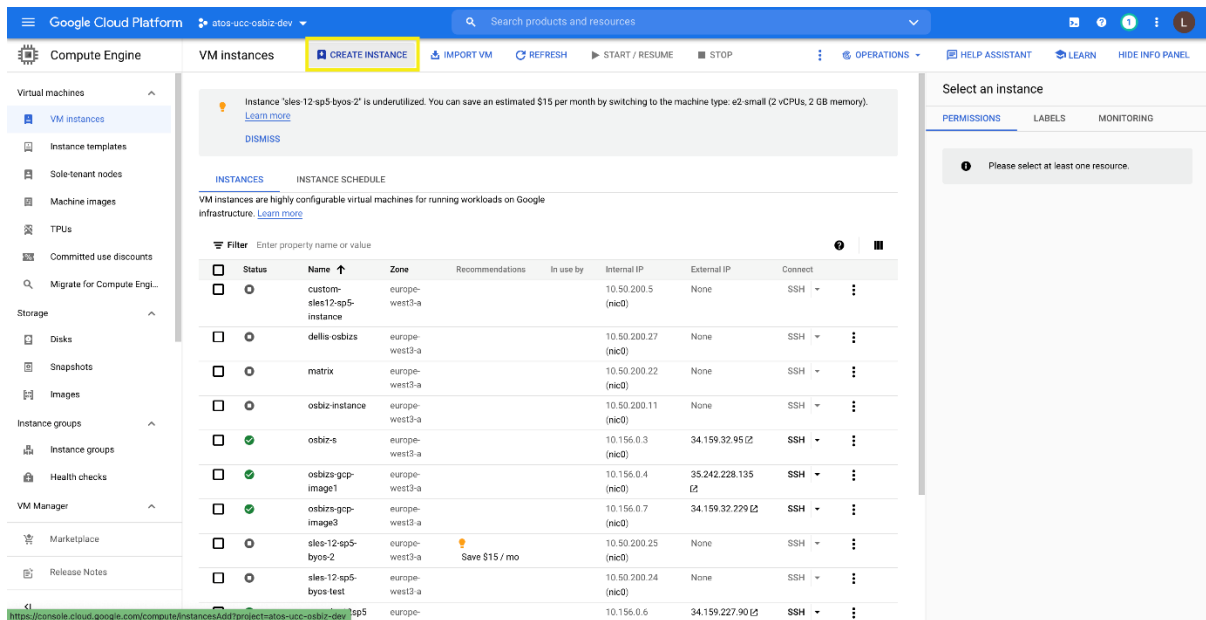
✓ image has been uploaded successfully to GCP! ✓

2 Create a VM on GCP

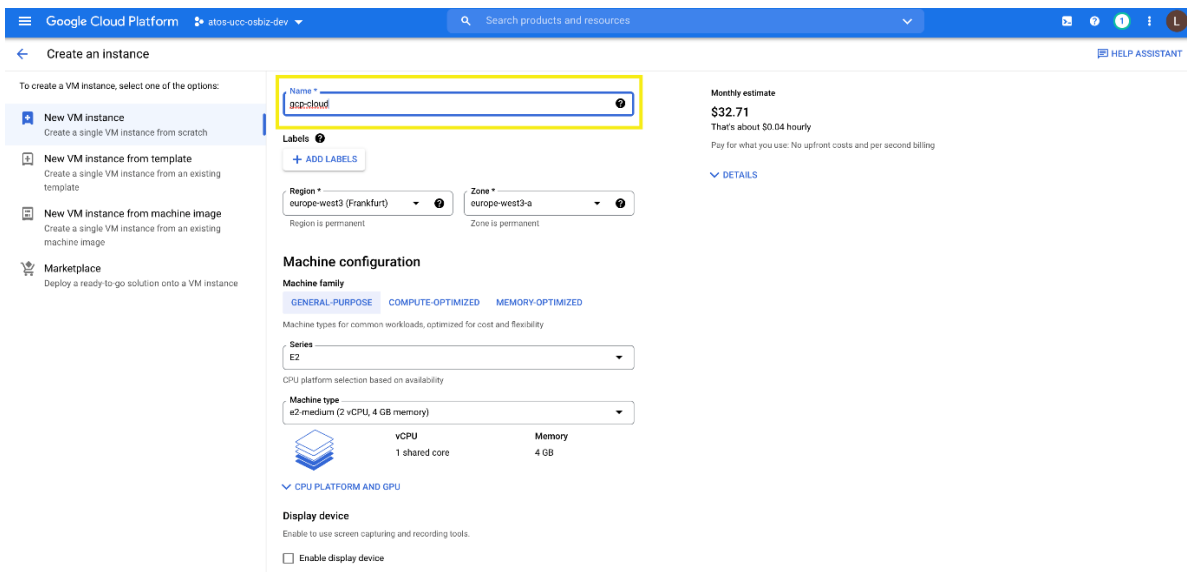
2.1 **Step1:** In the Google Cloud Console, hit the three lines on the top left corner, go to the **Compute Engine**, and hit the **VM instances** page.



2.2 Step2: Hit Create Instance



2.3 Step3: Specify a Name for your VM. For more information, see Resource naming convention.



Google Cloud Platform | atos-uco-ossbiz-dev | Search products and resources

Create an instance

To create a VM instance, select one of the options:

- New VM instance** (selected) - Create a single VM instance from scratch
- New VM instance from template - Create a single VM instance from an existing template
- New VM instance from machine image - Create a single VM instance from an existing machine image
- Marketplace - Deploy a ready-to-go solution onto a VM instance

Name *
gcp-cloud

Labels
+ ADD LABELS

Region *
europe-west3 (Frankfurt)

Zone *
europe-west3-a

Machine configuration

Machine family
GENERAL-PURPOSE COMPUTE-OPTIMIZED MEMORY-OPTIMIZED

Machine types for common workloads, optimized for cost and flexibility

Series
E2

CPU platform selection based on availability

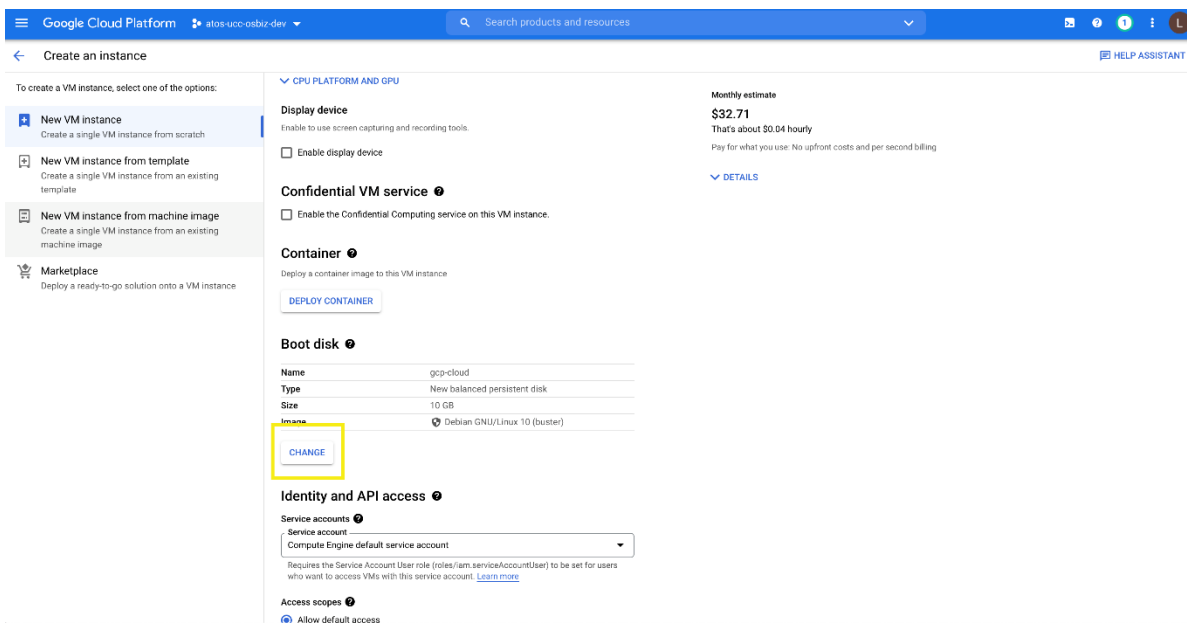
Machine type
e2-medium (2 vCPU, 4 GB memory)

Display device
Enable to use screen capturing and recording tools.
☐ Enable display device

Monthly estimate
\$32.71
That's about \$0.04 hourly
Pay for what you use: No upfront costs and per second billing

▼ DETAILS

2.4 Step4: Scroll down and in the Boot disk section, click Change, and then do the following:



Google Cloud Platform | atos-uco-ossbiz-dev | Search products and resources

Create an instance

To create a VM instance, select one of the options:

- New VM instance** (selected) - Create a single VM instance from scratch
- New VM instance from template - Create a single VM instance from an existing template
- New VM instance from machine image - Create a single VM instance from an existing machine image
- Marketplace - Deploy a ready-to-go solution onto a VM instance

CPU PLATFORM AND GPU

Display device
Enable to use screen capturing and recording tools.
☐ Enable display device

Confidential VM service
☐ Enable the Confidential Computing service on this VM instance.

Container
Deploy a container image to this VM instance
DEPLOY CONTAINER

Boot disk

Name	gcp-cloud
Type	New balanced persistent disk
Size	10 GB
Image	Debian GNU/Linux 10 (buster)

CHANGE

Identity and API access

Service accounts
Service account
Compute Engine default service account

Requires the Service Account User role (roles/iam.serviceAccountUser) to be set for users who want to access VMs with this service account. [Learn more](#)

Access scopes
☒ Allow default access

Monthly estimate
\$32.71
That's about \$0.04 hourly
Pay for what you use: No upfront costs and per second billing

▼ DETAILS

- Select the **Custom Images** tab.
- To select the image project, click **Select a project**, and then do the following:
 - Select the project that contains the image you uploaded before.
 - Click **Open**.
- In the **Image** list, click the image that you want to import.
- Select the type and size of your boot disk.
- Optional: For advanced configuration options, click **Show advanced configuration**.

- f. To confirm your boot disk options, click **Select**.

The screenshot shows the 'Create an instance' page in the Google Cloud Platform console. The 'Boot disk' section is expanded, showing the 'CUSTOM IMAGES' tab. The 'Image' dropdown is set to 'osbizz-gcp-image3'. The 'Boot disk type' is 'Balanced persistent disk' and the 'Size (GB)' is 32. The 'SELECT' button is highlighted with a yellow box.

- 2.5 **Step5:** In the **Firewall** section, to permit HTTP or HTTPS traffic to the VM, select **Allow HTTP traffic** or **Allow HTTPS traffic**.

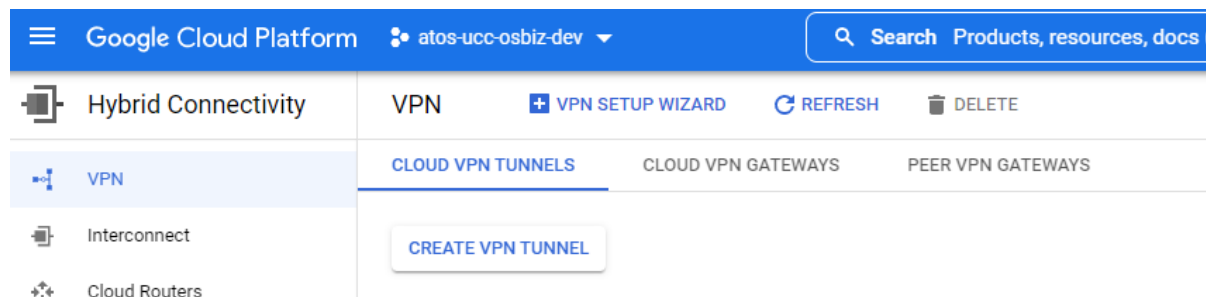
The Cloud Console adds a network tag to your VM and creates the corresponding ingress firewall rule that allows all incoming traffic on `tcp:80` (HTTP) or `tcp:443` (HTTPS). The network tag associates the firewall rule with the VM. For more information, see [Firewall rules overview](#) in the Virtual Private Cloud documentation.

The screenshot shows the 'Create an instance' page in the Google Cloud Platform console. The 'Firewall' section is expanded, showing the 'Allow HTTP traffic' and 'Allow HTTPS traffic' options selected. The 'CREATE' button is highlighted with a yellow box.

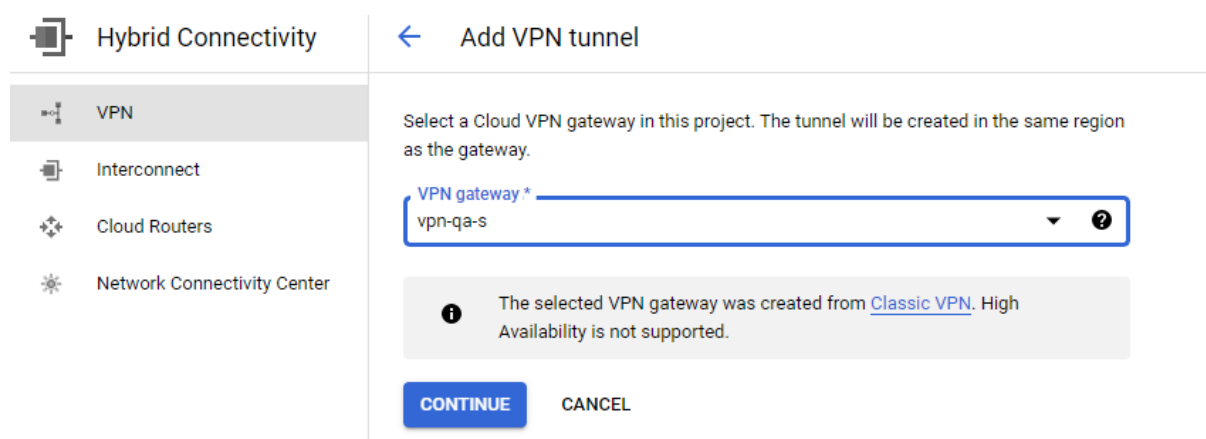
- 2.6 **Step6:** To create and start the VM, click **Create**.

3 Access via VPN

- 3.1 GCP supports IPSEC IKEv2 for VPN access. In order to configure it needs to click in the Create VPN tunnel



choose your gateway



and fill in the details:

← Create VPN tunnel

VPC network	osbiz-s-ova
Region	europa-west3
VPN gateway name	vpn-qa-s (Classic VPN gateway)
VPN gateway IP address	35.198.126.118

Name *

vpn-qa-s-tunnel5

Lowercase letters, numbers, hyphens allowed

Description

Remote peer IP address *

62.38.100.120

IKE version

IKEv2

IKE pre-shared key *

daaOzCxibLoo4dbOWK2UuhNoe97xhq3

Generate and copy

Enter your own key or generate one automatically

⚠ Make sure you record the pre-shared key in a secure location. The key can't be retrieved after this form is closed. [Learn more](#)

Routing options

☐ Dynamic (BGP)

☒ Route-based

☐ Policy-based

Remote network IP ranges *

192.168.1.0/24 for example: 192.168.0.0/24 10.16.0.0/12

Enter multiple IP address ranges (in CIDR notation) by pressing Enter after each one

CREATE CANCEL

- your Office router's public IP. In the example it is 62.38.100.120
- IKE version, choose IKEv2, preferred
- generate a pre-shared key and key it safe, as it will not be visible.
- Routing Options choose Route-based.
- Remote network IP ranges. Type the network ranges that the office router uses. In the attached example it is 192.168.1.0/24

3.2 GCP's firewall

Forwarding rules

Name	Protocol
vpn-qa-s-rule-esp	esp
vpn-qa-s-rule-udp4500	udp:4500
vpn-qa-s-rule-udp500	udp:500

we need to create the rules for the VPN access

3.3 Office configuration

In the office depending on the router used, it has to support IKEv2. Needs to create an IPSEC IKEv2 tunnel from the router/firewall to GCP to route traffic from LAN to GCP, without public access.

3.3.1 Firewall

In order for the VPN to work it needs the following 3 ports allowed

Hybrid Connectivity

VPN

Interconnect

Cloud Routers

Network Connectivity Center

Cloud VPN gateway details

DELETE

vpn-qa-s

Classic Cloud VPN gateway

VPC network

osbiz-s-ova

Region

europa-west3

Description

vpn-qa-s

IP address

35.

High availability

No

Logs

View

Forwarding rules

Name	Protocol
vpn-qa-s-rule-esp	esp
vpn-qa-s-rule-udp4500	udp:4500
vpn-qa-s-rule-udp500	udp:500

VPN tunnels

ADD VPN TUNNEL

DELETE

Filter

Filter by VPN tunnel properties

<input type="checkbox"/>	VPN tunnel name	Peer gateway IP address	IP stack type	Routing type	Status
<input type="checkbox"/>	vpn-qa-s-tunnel4	7 .66	IPv4	Route-based	No incoming packets

3.3.2 Phones configuration:

Since the phones are in the LAN (192.168.1.0/24) network, they have as default gateway the firewall IP (192.168.1.1/24) in order to be able to communicate with the GCP OSBIZ (10.156.0.9) via VPN .

3.3.2.1 For the image update

3.3.2.2 For the registration of HFA

as it can be seen from the picture above the registration takes place in a private IP, without password. It is like being in a LAN.

3.3.2.3 for the registration of SIP

OpenScape Desk Phone CP600E

Phone number 7005
Phone IPv4 address 192.168.1.130
Phone IPv6 address
DNS name 7005.localdomain

[Administrator settings](#)
[User settings](#)
[Licences](#)
[Logout](#)

- Admin login
- Network**
 - Common settings
 - Wired settings
 - IPv4 configuration
 - IPv6 configuration
 - Update service
 - QoS
 - Port number configuration
 - PC port configuration
- System**
 - System identity
 - SIP interface
 - [Registration](#)
 - SNMP
- Features**
- Security**
- ICE**
- File transfer**
- Local functions**
 - Date and time

Registration

SIP addresses

SIP server address	10.156.0.9
SIP registrar address	10.156.0.9
SIP gateway address	10.156.0.9

SIP session

Session timer enabled	<input type="checkbox"/>
Session duration (seconds)	3600
Registration timer (seconds)	3600
Subscription timer (seconds)	3600
Refresh minimum (seconds)	0
Server type	Genesys
Realm	osbiz
User ID	7005
Password	••••••

4 Tests executed:

The current setup is a VPN connection between GCP and a local router. **No calls via Public IP.** Phones and systems attached in the LAN and register to the local IP of the GCP. The tests are:

- Connect local HFA through VPN to GCP
- Connect local SIP through VPN to GCP
- Connect local Myportal@work through VPN to GCP
- Setup system via VPN, in UC suite
- Enable ITSP
- Incoming calls from ITSP_A to local HFA/SIP/Myportal@work via VPN
- Outgoing calls from local HFA/SIP/Myportal@work via VPN to GCP ->ITSP_B -> ITSP_A -> recipient
- Conference between different phones in the LAN.
- Conference for an incoming call from ITSP with other internal members.
- Voicemail access via VPN
- Myportal for desktop manage a phone, registered to GCP, via VPN.
- AA access via VPN
- Networking setup via VPN (GCP as Master node)
- Networking setup via VPN. An embedded system (occmr) as slave node, via VPN.
- Networking calls between nodes

About Atos

Atos is a global leader in digital transformation with 110,000 employees in 73 countries and annual revenue of € 12 billion. European number one in Cloud, Cybersecurity and High-Performance Computing, the Group provides end-to-end Orchestrated Hybrid Cloud, Big Data, Business Applications and

Digital Workplace solutions. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos|Syntel, and Unify. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

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Let's start a discussion together



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