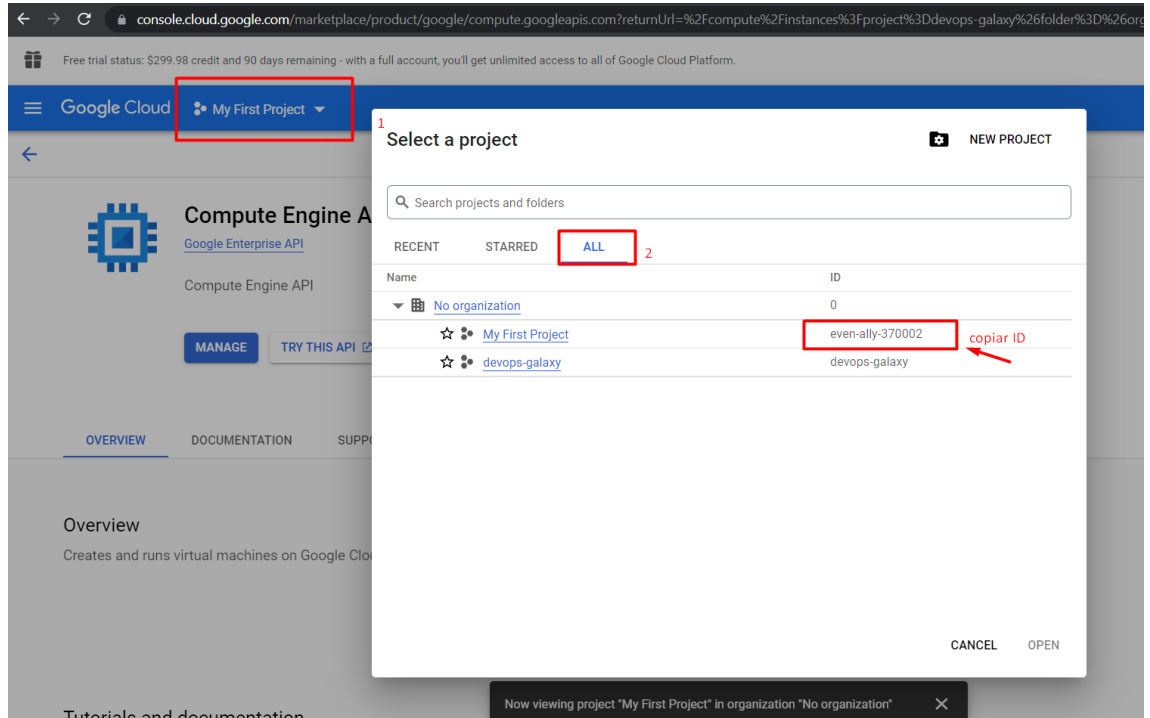
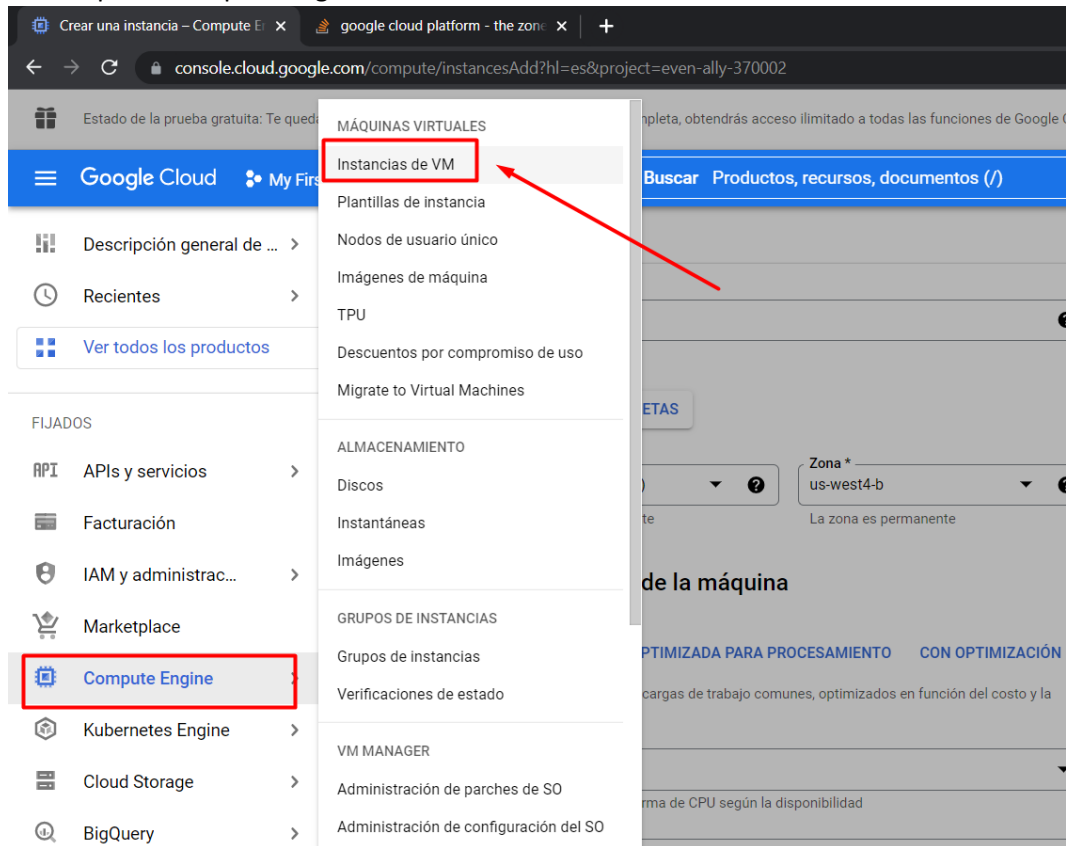


# Crear Virtual Machine en GCP

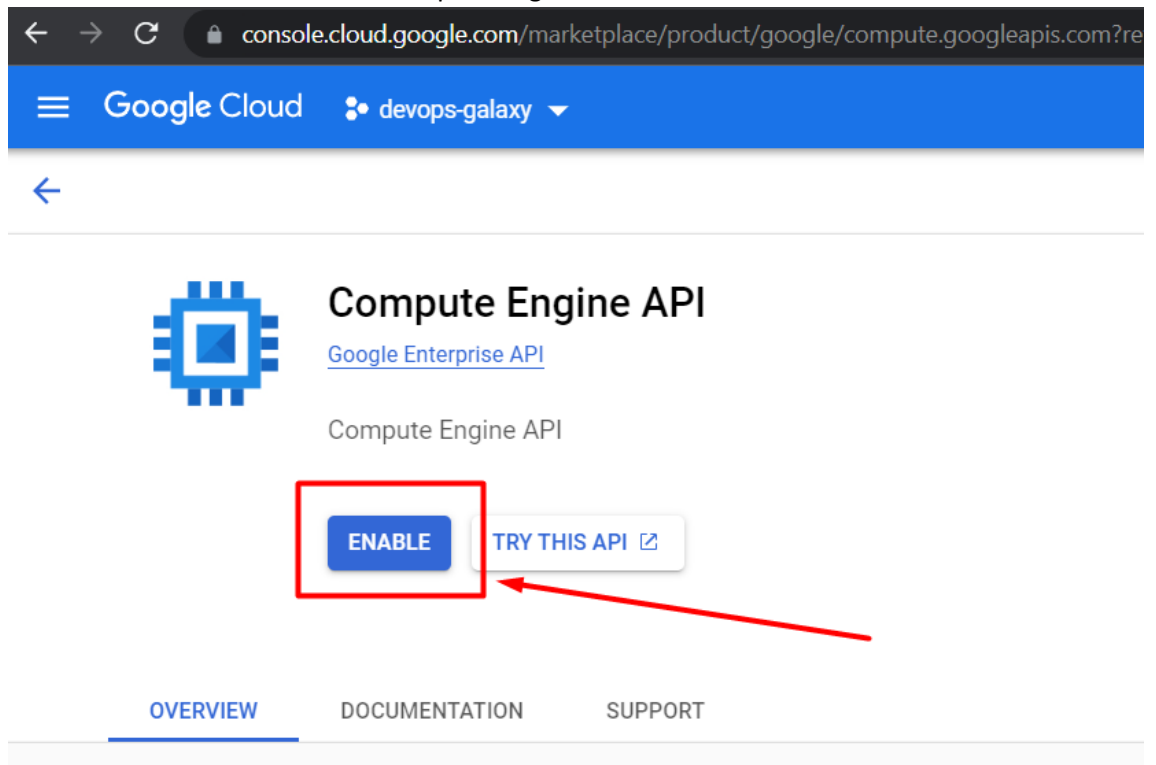
1. En la consola de GCP seleccionar “My First Project”, luego ir a la sección ALL y copiar el ID del proyecto, se usará más adelante.



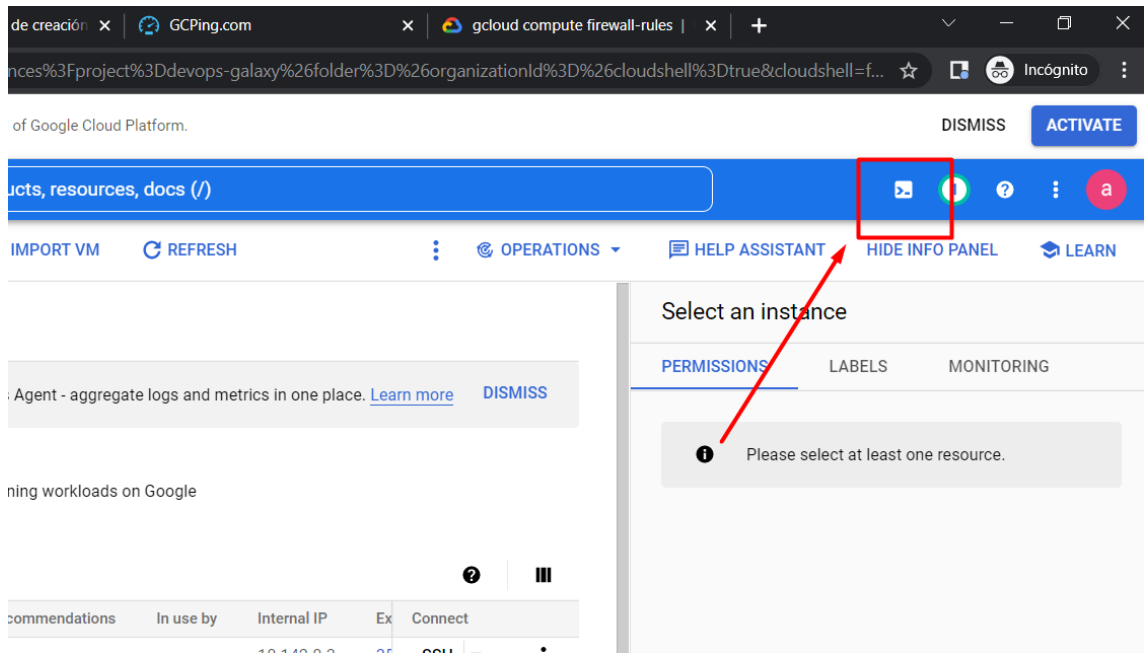
2. Ir a la opción Compute Engine > VM Instance



Nota: Dar clic en Enable API de Compute Engine



3. Abrir la Shell de GCP



4. En el siguiente script reemplazar <nombre\_proyecto> por el ID copiado en el punto 1.

```
printf 'yes' | gcloud compute --project=<nombre_proyecto> firewall-rules create all-
inbound --direction=INGRESS --priority=1000 --network=default --action=ALLOW --
rules=all --source-ranges=0.0.0.0/0
```

```
printf 'yes' | gcloud compute --project=<nombre_proyecto> firewall-rules create all-
outbound --direction=EGRESS --priority=1000 --network=default --action=ALLOW --
rules=all --destination-ranges=0.0.0.0/0
```

```
gcloud compute instances create devops-jenkins-server \
--project=<nombre_proyecto> \
--zone=us-east1-b \
--machine-type=c2-standard-4 \
--network-interface=network-tier=PREMIUM,subnet=default \
--metadata=ssh-keys=jenkins:ssh-rsa\
AAAAB3NzaC1yc2EAAAABJQAAQEAglVhWfDJ6jA7vjw8CEKB4CLZ4OKWFOqrejmh0o
XyKfJ8cF/DD2aGX9LMW72YN4IBPY5nch3N\+IDvNahEtD9/hE71TeKPyWMFTihFmiqVo
3nnvvh0Nr6\+A1wbvXU1YI5SQA8416OOx\+UoZ7MXVIIiNXMmSwoss\+8zC\+CWSwZ\+
h2uCNmqNFwecZ4uF2huuc\+eDeGY90wGPkdmaxkc8A3rgJA\+BR8TX3OjXw5nodNwAK
dEktjK30BHYmkDhQ7ZWGJnAJTWdDHUkbZGwH4QpCdHgUmiB1Oc3XURlvWS2wkaF
G8FH0WHmmMcJrhGd0NOYWSKPVj5eiax1amholbw8mhQ==\ jenkins \
--maintenance-policy=MIGRATE --provisioning-model=STANDARD \
--tags=http-server,https-server --create-disk=auto-delete=yes,boot=yes,device-
name=devops-jenkins-server,image=projects/centos-cloud/global/images/centos-
stream-8-v20221102,mode=rw,size=50,type=projects/<nombre_proyecto>/zones/us-
east1-b/diskTypes/pd-balanced \
--no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --
reservation-affinity=any
```

```
*create account.txt: Bloc de notas
Archivo Edición Formato Ver Ayuda

printf 'yes' | gcloud compute --project=even-ally-370002 firewall-rules create
all-inbound --direction=INGRESS --priority=1000 --network=default --action=ALLOW
--rules=all --source-ranges=0.0.0.0/0

gcloud compute --project=even-ally-370002 firewall-rules create all-outbound --
direction=EGRESS --priority=1000 --network=default --action=ALLOW --rules=all --
destination-ranges=0.0.0.0/0

gcloud compute instances create devops-jenkins-server \
--project=even-ally-370002 \
--zone=us-east1-b \
--machine-type=c2-standard-4 \
--network-interface=network-tier=PREMIUM,subnet=default \
--metadata=ssh-keys=jenkins:ssh-rsa\
AAAAB3NzaC1yc2EAAAABJQAAQEAglIVHwFDJ6jA7vjw8CEKB4CLZ40KWF0qrejmh0oXyKfJ8cF/DD2aGX9
LMW72YN4IBPY5nch3N\+1DvNahEtD9/hE71TeKPywMFTihFmiqVo3nnvhh0NrF6\
+A1wbvXU1Y155Qa841600x\+UoZ7MXVIiNXMmSwoss\+8zC\+CwSwZ\+h2uCNmqNFwecZ4uF2huuc\
+eDeGY90wGPKdmaxkc8A3rgJA\
+BR8TX30jXw5nodNwAKdEKtjK30BHYmkDhQ7ZWGJnAJTwdDHUkbZGwH4QpCdghgUmiB10c3XURlvWS2wkaF
G8FH0WmmMcJrhGd0NOYWSKPVj5eiax1amholbw8mhQ==\ jenkins \
--maintenance-policy=MIGRATE --provisioning-model=STANDARD \
--tags=http-server,https-server --create-disk=auto-delete=yes,boot=yes,device-
name=devops-jenkins-server,image=projects/centos-cloud/global/images/centos-
stream-8-v20221102,mode=rw,size=50,type=projects/even-ally-370002/zones/us-east1-
b/diskTypes/pd-balanced \
--no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --
reservation-affinity=any
```

## 5. Pegar el script reemplazado en la Shell de GCP:

```
Cloud Shell
Terminal (even-ally-370002) x +
Open Editor

--network-interface=network-tier=PREMIUM,subnet=default \
--metadata=ssh-keys=jenkins:ssh-rsa\ AAAAB3NzaC1yc2EAAAABJQAAQEAglIVHwFDJ6jA7vjw8CEKB4CLZ40KWF0qrejmh0oXyKfJ8cF/DD2aGX9LMW72YN4IBPY5nch3N\+1DvNahEtD9/hE71TeKPywMFTihFmiqVo3nnvhh0NrF6\+A
UY155Qa841600x\+UoZ7MXVIiNXMmSwoss\+8zC\+CwSwZ\+h2uCNmqNFwecZ4uF2huuc\+eDeGY90wGPKdmaxkc8A3rgJA\+BR8TX30jXw5nodNwAKdEKtjK30BHYmkDhQ7ZWGJnAJTwdDHUkbZGwH4QpCdghgUmiB10c3XURlvWS2wkaF
G8FH0WmmMcJrhGd0NOYWSKPVj5eiax1amholbw8mhQ==\ jenkins \
--no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --reservation-affinity=anyver,image=projects/centos-cloud/global/images/centos-stream-8-v20221102,mode=rw,size=50
Creating firewall...
..Created [https://www.googleapis.com/compute/v1/projects/even-ally-370002/global/firewalls/all-inbound].
done.
NAME: all-inbound
NETWORK: default
DIRECTION: INGRESS
PRIORITY: 1000
ALLOW: all
DENY:
DISABLED: False
Creating firewall...working..Created [https://www.googleapis.com/compute/v1/projects/even-ally-370002/global/firewalls/all-outbound].
Creating firewall...done.
NAME: all-outbound
NETWORK: default
DIRECTION: EGRESS
PRIORITY: 1000
ALLOW: all
DENY:
DISABLED: False
Created [https://www.googleapis.com/compute/v1/projects/even-ally-370002/zones/us-east1-b/instances/devops-jenkins-server].
WARNING: Some requests generated warnings:
  - Disk size: '50 GB' is larger than image size: '20 GB'. You might need to resize the root repartition manually if the operating system does not support automatic resizing. See https://c
google.com/compute/docs/disks/add-persistent-disk#resize_pd for details.
NAME: devops-jenkins-server
ZONE: us-east1-b
MACHINE_TYPE: c2-standard-4
PREEMPTIBLE:
INTERNAL_IP: 10.142.0.4
EXTERNAL_IP: 34.73.123.41
STATUS: RUNNING
galaxydevops17112022@cloudshell:~ (even-ally-370002)$
```

## 6. Evidenciamos que se creó la VM correctamente:

console.cloud.google.com/compute/instances?cloudshell=true&project=even-ally-370002

Free trial status: \$299.98 credit and 90 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

Google Cloud My First Project

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Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
devops-jenkins-server	us-east1-b			10.142.0.4 (nic0)	34.73.123.41 (nic0)	SSH

Related actions

- Explore Backup and DR NEW Back up your VMs and set up disaster recovery
- View billing report View and manage your Compute Engine billing

7. Para optimizar el ahorro de la VM, se recomienda apagarla.

VM instances

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INSTANCES INSTANCE SCHEDULES

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Filter Enter property name or value

Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
devops-jenkins-server	us-east1-b			10.142.0.4 (nic0)	34.73.123.41 (nic0)	SSH

Related actions

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Stop

Suspend

Reset

Delete

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Create new machine image

View logs

View monitoring