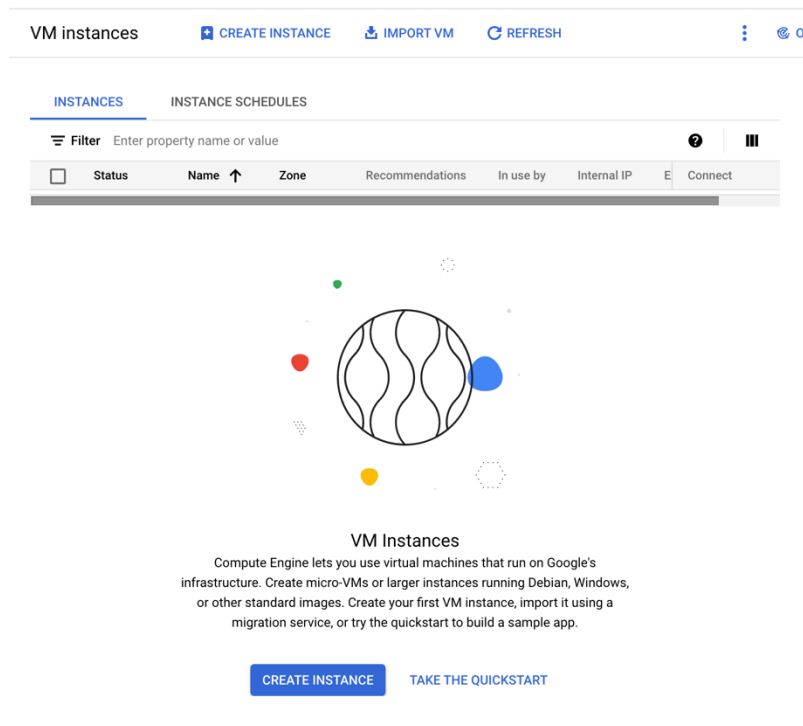


## Exercise: Create a Virtual Machine with Console

In this exercise, you will:

- Navigate to the Compute Engine landing page in the cloud console
- Select Create VM
- Specify parameters for the instance name, region, and machine configuration
- Change the boot disk size to 20 GB
- View options for networking, disk, security, management, and sole tenancy
- View the equivalent SDK command

Navigate to the Compute Engine console to see a page such as Figure 1.



**Figure 1. Compute Engine Cloud Console**

Click the Create Instance button to open a page similar to that shown in Figure 2.



Name \*  
gce-instance-1 ?

Labels ?  
type : demonstration

+ ADD LABELS

Region \*  
us-central1 (Iowa) ▼ ?  
Region is permanent

Zone \*  
us-central1-a ▼ ?  
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

SECOND GENERATION

E2  
CPU platform selection based on availability

N2  
Powered by Intel Cascade Lake and Ice Lake CPU platforms

N2D  
Powered by AMD EPYC CPU platform

T2A  
Powered by Ampere Altra ARM CPU platform

T2D  
Enable to use screen capturing and recording tools.

**Figure 3. Example drop down list showing options for machine series**

Scroll down as needed to view Boot Disk section. Click on Change to change the size of the disk from 10GB to 20GB. (See Figure 4)

## Confidential VM service ?

— Confidential Computing is disabled on this VM instance

ENABLE

## Container ?

Deploy a container image to this VM instance

DEPLOY CONTAINER

## Boot disk ?

Name	gce-instance-1
Type	New balanced persistent disk
Size	10 GB
License type ?	Free
Image	Debian GNU/Linux 11 (bullseye)

CHANGE

**Figure 4. Confidential VM, Container, and Boot Disk configuration**

View Identity and API access settings. Keep the default values. (Figure 4)

View Firewall configuration. (Figure 5)

View Advanced Options and review options in each section. Leave all defaults. (Figure 6)

Click Create to create a virtual machine.

## 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
- ☐ Allow full access to all Cloud APIs
- ☐ Set access for each API

## Firewall ?

Add tags and firewall rules to allow specific network traffic from the Internet

- ☐ Allow HTTP traffic
- ☐ Allow HTTPS traffic

**Figure 5. Identity and API access**

## Advanced options

### Networking

Hostname and network interfaces

---

### Disks

Additional disks

---

### Security

Shielded VM and SSH keys

---

### Management

Description, deletion protection, reservations, automation, and availability policies

---

### Sole-tenancy

Node affinity labels and CPU overcommit

Your free trial credit will be used for this VM instance. [Google Cloud Free Tier](#)

---

CREATE

CANCEL

EQUIVALENT COMMAND LINE



**Figure 6. Advanced Options**

After the VM is created, delete it as shown in Figure 7.

INSTANCES

INSTANCE SCHEDULES

VM instances are highly configurable virtual machines for running workloads on Google frastructure. [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"/>	✓	<a href="#">instance-1</a>	us-central1-a			10.128.0.2 ( <a href="#">nic0</a> )	35.239.5.255 ( <a href="#">nic0</a> )	SSH ▾ ⋮

elated actions

More actions

Resume

Stop

Suspend

Reset

Delete

View network details

Create new machine image

View logs

View monitoring

Select an ir

PERMISSIONS

i

Please

Figure 7. Listing of VMs including operations on the VM listed