

Google Cloud My First Project Search (/) for resources, docs, products, and more

Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH

Virtual machines VM instances

Instance templates
Sole-tenant nodes
Machine images
TPUs
Committed use discou...
Reservations
Migrate to Virtual Mach...

Storage
Disks
Storage Pools
Snapshots
Images
Async Replication

Instance groups
Instance groups
Marketplace
Release Notes

VM instances

Filter Enter property name or value

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
	dob-instance	us-central1-f			10.128.15.200 (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

Monitor VMs
View outlier VMs across metrics like CPU and network

Explore VM logs
View, search, analyze, and download VM instance logs

Set up firewall rules
Control traffic to and from a VM instance

Patch management
Schedule patch updates and view patch compliance on VM instances

Load balance between VMs
Set up Load Balancing for your applications as your traffic and users grow

Google Cloud My First Project Search

Create an instance CREATE VM FROM...

Machine configuration e2-small, us-central1

OS and storage Debian GNU/Linux 12 (bookworm)

Networking 1 network interface

Observability

Security

Advanced

Operating system and storage

Name dem
Type Nev
Size 10 G
Snapshot schedule No
License type Fre
Image

CHANGE

Additional storage and VM ba

+ ADD NEW DISK + ATTACH E

Backup plan **NEW**
Secure your backups against deletion through Managed by Backup and DR Service, a separate [Learn more](#)

Backup plan

Container
Deploy a container image to this VM instance

DEPLOY CONTAINER

CREATE CANCEL EQUIV

Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

PUBLIC IMAGES CUSTOM IMAGES SNAPSHOTS ARCHIVE SNAPSHOTS EXISTING DISKS

Operating system
Ubuntu

Version *
Ubuntu 22.04 LTS
x86_64, amd64 jammy image built on 2025-01-12

Boot disk type *
Balanced persistent disk

COMPARE DISK TYPES

Size (GB) *
10
Provision between 10 and 3072 GB

SHOW ADVANCED CONFIGURATION

SELECT CANCEL

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My First Project

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Search

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?

← Create an instance

CREATE VM FROM...

EQUIVALENT CODE

◀

Machine configuration

e2-small, us-central1

OS and storage

Ubuntu 22.04 LTS

Networking

1 network interface

Observability

Security

Advanced

Operating system and storage

Name

demo

Type

New balanced persistent disk

Size

10 GB

Snapshot schedule

No schedule selected

License type

Free

Image

Ubuntu 22.04 LTS

CHANGE

Additional storage and VM backups

+ ADD NEW DISK

+ ATTACH EXISTING DISK

+ ADD LOCAL SSD

Backup plan

SELECT A PLAN

Container

Deploy a container image to this VM instance

DEPLOY CONTAINER

Monthly estimate

\$13.23

That's about \$0.02 hourly

Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
2 vCPU + 2 GB memory	\$12.23
10 GB balanced persistent disk	\$1.00
Total	\$13.23

Compute Engine pricing

LESS

CREATE

CANCEL

EQUIVALENT CODE

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Search

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?

Compute Engine

VM instances

CREATE INSTANCE

IMPORT VM

REFRESH

LEARN

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INSTANCES

OBSERVABILITY

INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	demo	us-central1-c			10.128.15.229 (nic0)	34.45.75.249 (nic0)	SSH

Related actions

Explore Backup and DR

View billing report

Monitor VMs

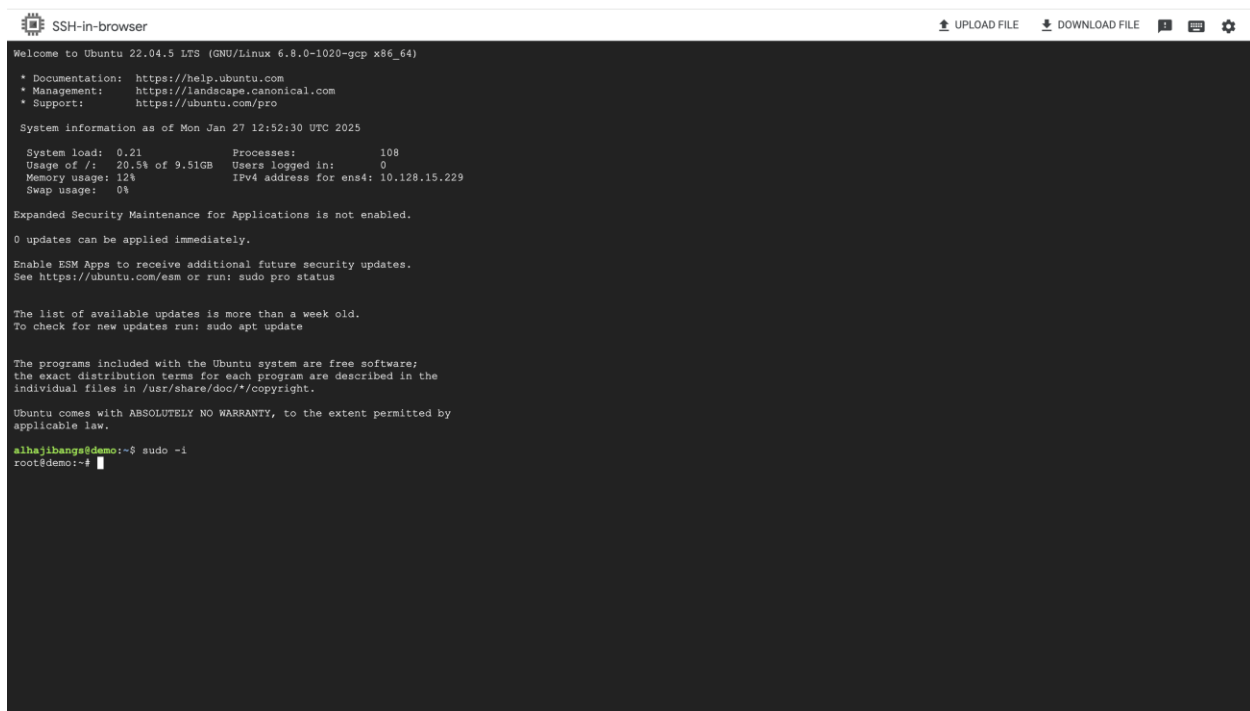
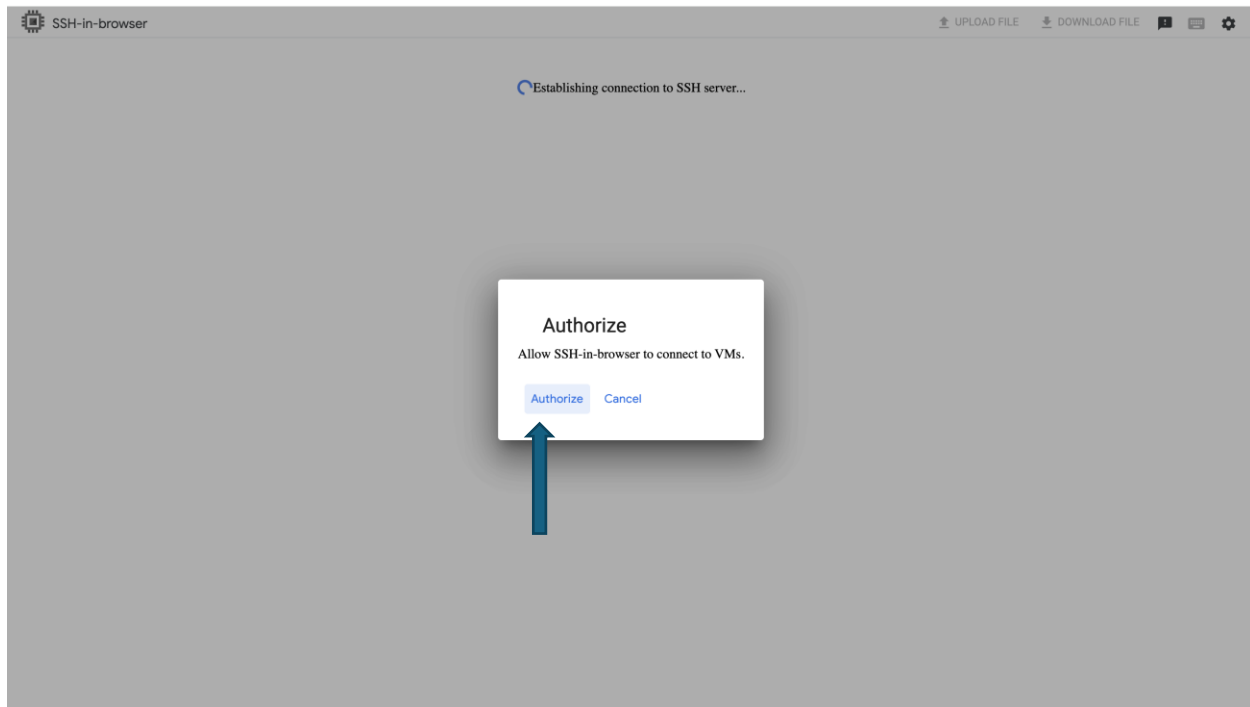
Explore VM logs

Set up firewall rules

Patch management

Load balance between VMs

Instance deleted



```
root@demo:~# apt-get update
Hit:1 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:5 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2278 kB]
Get:12 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [383 kB]
Get:13 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1184 kB]
Get:14 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [290 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2041 kB]
Get:16 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [26.4 kB]
Get:17 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [44.5 kB]
Get:18 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [11.5 kB]
Get:19 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [440 B]
Get:20 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.7 kB]
Get:21 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.1 kB]
Get:22 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:23 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:24 http://us-central1.gce.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.0 kB]
```

```
root@demo:~# sudo apt install -y python3-pip git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  build-essential bzip2 cpp cpp-11 dpkg-dev fakeroot fontconfig-config fonts-dejavu-core g++ g++-11
  gcc gcc-11 gcc-11-base javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl
  libalgorithm-merge-perl libasan6 libatomic1 libc-dev-bin libc-devtools libc6-dev libcc1-0
  libcrypt-dev libdeflate0 libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl
  libfontconfig1 libgcc-11-dev libgd3 libgomp1 libisl23 libitm1 libjbig0 libjpeg-turbo8 libjpeg8
  libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0 libmpc3 libnspr-dev libpython3-dev
  libpython3.10 libpython3.10-dev libpython3.10-minimal libpython3.10-stdlib libquadmath0
  libstdc++-11-dev libtiff5 libtirpc-dev libtsan0 libubsan1 libwebp7 libxpm4 linux-libc-dev
  lto-disabled-list make manpages-dev python3-dev python3-wheel python3.10 python3.10-dev
  python3.10-minimal rpcsvc-proto zlib1g-dev
Suggested packages:
  bzip2-doc cpp-doc gcc-11-locales debian-keyring g++-multilib g++-11-multilib gcc-11-doc
  gcc-multilib autoconf automake libtool flex bison gdb gcc-doc gcc-11-multilib git-daemon-run
  | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn apache2
  | lighttpd | httpd glibc-doc bzip libgd-tools libstdc++-11-doc make-doc python3.10-venv
  python3.10-doc binfmt-support
The following NEW packages will be installed:
  build-essential bzip2 cpp cpp-11 dpkg-dev fakeroot fontconfig-config fonts-dejavu-core g++ g++-11
  gcc gcc-11 gcc-11-base javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl
  libalgorithm-merge-perl libasan6 libatomic1 libc-dev-bin libc-devtools libc6-dev libcc1-0
  libcrypt-dev libdeflate0 libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl
  libfontconfig1 libgcc-11-dev libgd3 libgomp1 libisl23 libitm1 libjbig0 libjpeg-turbo8 libjpeg8
  libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0 libmpc3 libnspr-dev libpython3-dev
```

```
root@demo:~# git clone https://github.com/Devops-Bot-Official/DOB-Installation-Package.git
Cloning into 'DOB-Installation-Package'...
remote: Enumerating objects: 593, done.
remote: Counting objects: 100% (103/103), done.
remote: Compressing objects: 100% (92/92), done.
remote: Total 593 (delta 48), reused 33 (delta 11), pack-reused 490 (from 2)
Receiving objects: 100% (593/593), 94.79 MiB | 47.75 MiB/s, done.
Resolving deltas: 100% (257/257), done.
root@demo:~# ls
DOB-Installation-Package snap
root@demo:~# cd DOB-Installation-Package
root@demo:~/DOB-Installation-Package# ls
IMG_2055.png README.md devops-bot-0.1.tar.gz devops_bot-0.1-py3-none-any.whl
root@demo:~/DOB-Installation-Package#
```

```
ot@demo:~/DOB-Installation-Package# pip install devops_bot-0.1-py3-none-any.whl
Processing ./devops_bot-0.1-py3-none-any.whl
Collecting kubernetes==26.1.0
  Downloading kubernetes-26.1.0-py2.py3-none-any.whl (1.4 MB)
    1.4/1.4 MB 9.4 MB/s eta 0:00:00
Collecting google-auth-httpplib2==0.1.0
  Downloading google_auth_httplib2-0.1.0-py2.py3-none-any.whl (9.3 kB)
Collecting azure-mgmt-compute==28.0.0
  Downloading azure_mgmt_compute-28.0.0-py3-none-any.whl (6.4 MB)
    6.4/6.4 MB 16.5 MB/s eta 0:00:00
Collecting flask-bcrypt==0.7.1
  Downloading Flask-Bcrypt-0.7.1.tar.gz (5.1 kB)
  Preparing metadata (setup.py) ... done
Collecting google-auth-oauthlib==1.0.0
  Downloading google_auth_oauthlib-1.0.0-py2.py3-none-any.whl (18 kB)
Collecting Flask-Login==0.5.0
  Downloading Flask_Login-0.5.0-py2.py3-none-any.whl (16 kB)
Collecting croniter==1.0.15
  Downloading croniter-1.0.15-py2.py3-none-any.whl (16 kB)
Collecting google-cloud-iam==2.11.0
  Downloading google_cloud_iam-2.11.0-py2.py3-none-any.whl (114 kB)
    115.0/115.0 KB 23.4 MB/s eta 0:00:00
Collecting requests==2.31.0
  Downloading requests-2.31.0-py3-none-any.whl (62 kB)
    62.6/62.6 KB 14.5 MB/s eta 0:00:00
Collecting azure-identity==1.13.0
  Downloading azure_identity-1.13.0-py3-none-any.whl (151 kB)
    151.6/151.6 KB 31.4 MB/s eta 0:00:00
```

```
root@demo:~/DOB-Installation-Package# dob --help
New encryption key created and saved to /etc/devops-bot/enc_key.key
Usage: dob [OPTIONS] COMMAND [ARGS]...

Options:
  --v, --version  Show version of the devops-bot tool.
  --debug         Enable debug mode to show full error tracebacks.
  --help         Show this message and exit.

Commands:
  activation      Activate context for Kubernetes or Docker...
  ans             Execute Ansible command on a remote server
  ansible         Commands related to Ansible configuration and...
  artifactory     Execute Artifactory commands
  aws             Commands to manage AWS resources.
  aws_cli        Execute AWS CLI commands
  azure          Commands to manage Azure resources.
  brood          Manage DevOps bot files.
  check-nodes    Check if the DevOps bot can connect to the node.
  chef           Execute Chef commands
  consul         Execute Consul commands
  decrypt        Decrypt an encrypted value with salt and...
  dks            Commands related to DevOps Kubernetes Services...
  dobp           DevOps Bot Proxy configuration commands.
  doc            Execute docker command on a remote server
  docswarm       Execute Docker Swarm commands
  edit-execution Edit an entire execution state
```

```

root@demo:~/DOB-Installation-Package# dob gcp config --help
Usage: dob gcp config [OPTIONS]

Configure GCP credentials for the DevOps-bot tool by providing the JSON file
path.

Options:
  --file-path TEXT  Path to the GCP JSON credentials file. [required]
  --help            Show this message and exit.
root@demo:~/DOB-Installation-Package# cd
root@demo:~# vim gcp_credental.json
root@demo:~# dob gcp config --file-path gcp_credental.json
GCP credentials encrypted and saved locally.
GCP credentials configured successfully. You can delete the original JSON file for security.
root@demo:~# vim compute_instance.yaml
root@demo:~# cat compute_instance.yaml
resources:
  compute_instances:
    - name: test-compute-instance-1
      machine_type: n1-standard-1
      zone: us-centrall-a
      image: projects/ubuntu-os-cloud/global/images/family/ubuntu-2004-lts
      network: default
      tags:
        - web-server
      labels:
        env: test

```

```

root@demo:~# vim compute_instance.yaml
root@demo:~# dob gcp screenplay compute_instance.yaml
Validating and linting variables...
All validations and linting checks passed successfully!
Reviewing Compute Instances...

```

Final Review of All Actions:

	Category	Value
+	Compute Instance	Instance 1
+	Instance Name	test-compute-instance-1
+	Machine Type	n1-standard-1
+	Zone	us-centrall-b
+	Image	projects/ubuntu-os-cloud/global/images/family/ubuntu-2004-lts
+	Tags	['web-server']
+	Network	default
+	Labels	{'env': 'test'}

Do you want to proceed with executing these actions? [Y/n]: y

Proceeding with the actions... (Execution ID: 6244c425-0a40-4d71-9908-e4d211f7ff2e)

```

Metadata for instance creation: None
Compute Instance 'test-compute-instance-1' created successfully.
SSH key injected into instance 'test-compute-instance-1'.
Instance 'test-compute-instance-1' created with internal IP 10.128.15.230
Added test-compute-instance-1 with IP 10.128.15.230 to /etc/hosts under default category.
Execution state saved to: /etc/devops-bot/state_files/f7276906-8460-4b26-8e23-812c976ba009.yml
Execution complete. State saved to: /etc/devops-bot/state_files/f7276906-8460-4b26-8e23-812c976ba009.yml (E
xecution ID: 6244c425-0a40-4d71-9908-e4d211f7ff2e)
Execution completed. (Execution ID: 6244c425-0a40-4d71-9908-e4d211f7ff2e)

```

```

root@demo:~#

```

