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LATIHAN CLOUD COMPUTING

LAB 1

- Jalankan shell

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to qualified-sum-345514.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.
fandypangiawan@cloudshell:~ (qualified-sum-345514)$
```

- Jalankan perintah gcloud compute instances create vmname

```
fandypangiawan@cloudshell:~ (qualified-sum-345514)$ gcloud compute instances create vmharfandy
Did you mean zone [asia-southeast1-b] for instance: [vmharfandy] (Y/n)? y

Created [https://www.googleapis.com/compute/v1/projects/qualified-sum-345514/zones/asia-southeast1-b/instances/vmharfandy].
NAME: vmharfandy
ZONE: asia-southeast1-b
MACHINE_TYPE: n1-standard-1
PREEMPTIBLE:
INTERNAL_IP: 10.148.0.3
EXTERNAL_IP: 34.87.146.33
STATUS: RUNNING
```

- Mencek ping

```
fandypangiawan@cloudshell:~ (qualified-sum-345514)$ ping 34.87.146.33
PING 34.87.146.33 (34.87.146.33) 56(84) bytes of data.
64 bytes from 34.87.146.33: icmp_seq=1 ttl=60 time=1.46 ms
64 bytes from 34.87.146.33: icmp_seq=2 ttl=60 time=1.91 ms
64 bytes from 34.87.146.33: icmp_seq=3 ttl=60 time=1.63 ms
64 bytes from 34.87.146.33: icmp_seq=4 ttl=60 time=1.75 ms
64 bytes from 34.87.146.33: icmp_seq=5 ttl=60 time=1.55 ms
64 bytes from 34.87.146.33: icmp_seq=6 ttl=60 time=1.68 ms
64 bytes from 34.87.146.33: icmp_seq=7 ttl=60 time=2.75 ms
64 bytes from 34.87.146.33: icmp_seq=8 ttl=60 time=1.96 ms
```

- Untuk melihat daftar VM yang ada pada project

```
fandypangiawan@cloudshell:~ (qualified-sum-345514)$ gcloud compute instances list
NAME: rafli
ZONE: us-central1-a
MACHINE_TYPE: e2-medium
PREEMPTIBLE:
INTERNAL_IP: 10.128.0.2
EXTERNAL_IP: 34.71.218.135
STATUS: RUNNING

NAME: vmrafl1
ZONE: us-central1-a
MACHINE_TYPE: e2-medium
PREEMPTIBLE:
INTERNAL_IP: 10.128.0.3
EXTERNAL_IP: 34.72.41.164
STATUS: RUNNING

NAME: vmharfandy
ZONE: asia-southeast1-a
MACHINE_TYPE: n1-standard-1
PREEMPTIBLE:
INTERNAL_IP: 10.148.0.4
EXTERNAL_IP: 34.143.148.153
STATUS: RUNNING

NAME: vmrafly
ZONE: asia-southeast1-a
MACHINE_TYPE: n1-standard-1
PREEMPTIBLE:
```

Activate Windows
Go to Settings to activate Windows.

LAB 2

- Mengisi instance

Name *
vmharfandypp ?

Labels ?
[+ 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
E2 ▼

CPU platform selection based on availability

CPU platform selection based on availability

Machine type
e2-micro (2 vCPU, 1 GB memory) ▼



vCPU	Memory
1 shared core	1 GB

[✓ 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	vmharfandyp
Type	New balanced persistent disk
Size	10 GB
Image	 Ubuntu 18.04 LTS

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
- ☐ 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

Firewall ⓘ

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

- ☒ Allow HTTP traffic
- ☐ Allow HTTPS traffic

✓ NETWORKING, DISKS, SECURITY, MANAGEMENT, SOLE-TENANCY

You will be billed for this instance. [Compute Engine pricing](#)

CREATE

CANCEL

EQUIVALENT COMMAND LINE



LAB 3

- Membuka Web Server

```
Welcome to Cloud Shell! Type "help" to get started.
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Use "gcloud config set project [PROJECT_ID]" to change to a different project.
fandypangiawan@cloudshell:~ (qualified-sum-345514)$ gcloud compute ssh vmharfandy
WARNING: The private SSH key file for gcloud does not exist.
WARNING: The public SSH key file for gcloud does not exist.
WARNING: You do not have an SSH key for gcloud.
WARNING: SSH keygen will be executed to generate a key.
This tool needs to create the directory [/home/fandypangiawan/.ssh] before being
able to generate SSH keys.

Do you want to continue (Y/n)? y

Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
```

Install nginx

```
fandypangiawan@vmharfandy:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

- Web nginx



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.