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Google Cloud Computing Foundations: Networking & Security in Google Cloud

## Lab: Multiple VPC Network

The screenshot shows the Google Cloud console interface. The left sidebar contains navigation links for Cloud Hub, Cloud overview, Solutions, and various products like Billing, IAM & Admin, Marketplace, APIs & Services, Vertex AI, Compute Engine, Kubernetes Engine, Cloud Storage, Security, BigQuery, Monitoring, Cloud Run, and VPC Network. The main content area displays the 'Dashboard' for the project 'qwiklabs-gcp-04-44397758556c'. It includes sections for Project info, Compute Engine CPU usage, Google Cloud Platform status, and Billing. A terminal window is open at the bottom, showing the output of 'gcloud compute instances list' and 'gcloud compute ssh' commands, listing instances like mynet-vm-1, privatenet-vm-1, and vm-appliance.

The screenshot shows the Google Skills Lab interface for the 'Multiple VPC Networks' lab. The lab is titled 'Google Cloud Computing Foundations Certificate > Google Cloud Computing Foundations: Networking & Security in Google Cloud > Multiple VPC Networks'. It includes a 'Lab setup instructions and requirements' section, a 'Lab instructions and requirements' section, and a 'Lab progress' section showing 100% completion. The lab steps include: 1. Create custom mode VPC networks with firewall rules, 2. Create VM instances, 3. Explore the connectivity between VM instances, 4. Create a VM instance with multiple network interfaces, and 5. Create a VM instance with multiple network interfaces.

# Lab: VPC Networks - Controlling Access

Google Skills

What do you want to learn today?

1223 1

Apply your skills in Google Cloud console

Get started

Google Cloud Computing Foundations Certificate > Google Cloud Computing Foundations: Networking & Security in Google Cloud > VPC Networks - Controlling Access

VPC Networks - Controlling Access

Send feedback

Lab setup instructions and requirements

Protect your account and progress. Always use a private browser window and lab credentials to run this lab.

View instructions

End Lab 00:52:09

Duration: When you are in the terminal, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more

Open Google Cloud console

Username student-83-7ee98308527f

Password Ks8Ued2w10vo

Project ID qwiklabs-gcp-02-cda23ad22c10

7. Click Close.

A JSON key file download to your local computer. Find this key file, you will upload it into the VM in a later step.

8. Rename the JSON key file on your local machine to `credentials.json`

Test Completed Task

Click **Check my progress** to verify your performed task. If you have completed the task successfully you will be granted an assessment score.

Create a Network-admin service account.

Check my progress

Assessment Completed!

Authorize test-vm and verify permissions

Authorize **test-vm** to use the **Network-admin** service account.

The Network Admin role provides permissions to:

☐ Modify the available firewall rules

☐ Neither list, create, modify, or delete the available firewall

Create the blue server

Check my progress

15 / 15

Create the green server

Check my progress

15 / 15

Install Nginx and customize the welcome page

Check my progress

30 / 30

Create the tagged firewall rule

Check my progress

15 / 15

Create a test-vm

Check my progress

10 / 10

Create a Network-admin service account

Check my progress

15 / 15

Congratulations!

Google Cloud

Search (/) for resources, docs, products, and more

Cloud Hub > Cloud overview > Solutions > Recently visited > Pinned products > Products

Deployments > Health & troubleshooting > Optimization > Quotas & reservations > Maintenance > Support

Google Cloud Platform status > All services normal > Go to Cloud status dashboard > Billing > Open Editor

Don't show again > Dismiss

Is this a production environment?

You can now update your settings to add a production indicator, reminding you that making changes could affect your production apps. Learn more

Cloud Shell

Terminal (quiklabs-gcp-02-cda23ad22c10)

Gemini CLI is available in Cloud Shell terminal! Type `gemini` to try it. Learn more

After this operation, 1,692 KB of additional disk space will be used.

Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [43.4 kB]

Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]

Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 libnginx-mod-http-echo amd64 1:0.63-6build2 [20.4 kB]

Get:4 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 nginx-light all 1.24.0-2ubuntu7.5 [4,446 B]

Fetched 588 kB in 2s (305 kB/s)

debconf: delaying package configuration, since apt-utils is not installed

Selecting previously unselected package nginx-common.

(Reading database ... 12938 files and directories currently installed.)

Preparing to unpack .../nginx-common\_1.24.0-2ubuntu7.5\_all.deb ...

Unpacking nginx-common (1.24.0-2ubuntu7.5) ...

Selecting previously unselected package nginx.

Preparing to unpack .../nginx\_1.24.0-2ubuntu7.5\_amd64.deb ...

Unpacking nginx (1.24.0-2ubuntu7.5) ...

Selecting previously unselected package libnginx-mod-http-echo.

Preparing to unpack .../libnginx-mod-http-echo\_1:0.63-6build2\_amd64.deb ...

Unpacking libnginx-mod-http-echo (1:0.63-6build2) ...

Selecting previously unselected package nginx-light.

Preparing to unpack .../nginx-light\_1.24.0-2ubuntu7.5\_all.deb ...

Unpacking nginx-light (1.24.0-2ubuntu7.5) ...

Setting up nginx-common (1.24.0-2ubuntu7.5) ...

debconf: unable to initialize frontend: Dialog

debconf: (The usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 79.)

debconf: falling back to frontend: Readline

Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service - /usr/lib/systemd/system/nginx.service.

Setting up nginx (1.24.0-2ubuntu7.5) ...

invoke-rc.d: could not determine current runlevel

invoke-rc.d: policy-rc.d denied execution of start.

Setting up libnginx-mod-http-echo (1:0.63-6build2) ...

Setting up nginx-light (1.24.0-2ubuntu7.5) ...

Processing triggers for man-db (2.12.0-4build2) ...

Processing triggers for nginx (1.24.0-2ubuntu7.5) ...

student\_03\_7ee98308527f@cloudshell:~ (quiklabs-gcp-02-cda23ad22c10) \$

Snipping Tool

Screenshot copied to clipboard

Automatically saved to screenshots folder.

Mark-up and share

## Application Load Balancer with Cloud Armor

Contents

Application Load Balancer with Cloud Armor

Send feedback

Lab setup instructions and requirements

End Lab

00:25:31

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username

student-03-9983568e56e1f

Password

970Cv5yLPRD

Project ID

quicklabs-gcp-01-ccf872d

1. In the console, navigate to **Navigation menu** > **Compute Engine** > **VM instances**.
2. Click **Create instance**.
3. In the **Machine configuration**:

Select the following values:

| Property | Value (type value or select option as specified) |
|----------|--|
| Name     | siege-vm   |
| Region   | europa-west4                                     |
| Zone     | europa-west4-c                                   |
| Series   | E2   |

Given that **europa-west4** is closer to **us-west1** than to **us-east1**, traffic should be forwarded only to **us-west1-mig** (unless the load is too high).

4. Click **Create**.
5. Wait for the **siege-vm** instance to be created.
6. For **siege-vm**, click **SSH** to launch a terminal and connect.
7. Run the following command, to install siege:

```
sudo apt-get -y install siege
```

Checkpoints

Configure HTTP and health check firewall rules

Check my progress

25 / 25

Configure instance templates and instance group

Check my progress

25 / 25

Configure the HTTP Load Balancer

Check my progress

25 / 25

Blacklist the siege-vm

Check my progress

25 / 25

Templates and create instance groups

Task 3. Configure the Application Load Balancer

Snipping Tool

Screenshot copied to clipboard

Automatically saved to screenshots folder.

Mark-up and share

## Quiz

Contents

Quiz

Send feedback

## Quiz

Your score: 100%   Passing score: 80%

Retake

Congratulations! You passed this assessment.

- ✓ 1. What is used to forward traffic from one instance to another within the same network, across subnetworks, or even between Google Cloud zones, and doesn't require an external IP address?

- ☐ Subnet
- ☒ Routing table
- ☐ Load balancer
- ☐ Firewall

Good job! That's the correct answer.

- ✓ 2. Select the true statement.

- ☒ VPCs are global and subnets are regional.
- ☐ VPCs are regional and subnets are zonal.
- ☐ Both VPCs and subnets are global.

Previous

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