

Disk backup – snapshot

VM backup – image (Snapshot + metadata)

[EC2 -> image]

VM < -- > Image <-- Snapshot -- > disc

The screenshot shows the Google Cloud Platform console interface for VPC networks. The left sidebar contains a navigation menu with options: VPC networks (selected), IP addresses, Bring your own IP, Firewall, Routes, VPC network peering, Shared VPC, Serverless VPC access, and Packet mirroring. The main content area is titled 'VPC networks' and includes a 'CREATE VPC NETWORK' button and a 'REFRESH' button. Below this, there's a section for 'NETWORKS IN CURRENT PROJECT' and 'SUBNETS IN CURRENT PROJECT'. A warning message states 'SMTP port 25 disallowed in this project'. A table titled 'VPC networks' displays a single entry named 'default' with the following properties: 38 subnets, 1460 MTU, Auto mode, no internal IP ranges, no gateways, 4 firewall rules, and global dynamic routing is off. The table has columns for Name, Subnets, MTU, Mode, Internal IP ranges, Gateways, Firewall rules, and Global dynamic routing.

Name	Subnets	MTU	Mode	Internal IP ranges	Gateways	Firewall rules	Global dynamic routing
default	38	1460	Auto			4	Off

VPC networks:

isolation and security

protocol –

web – http – 80

s web – https – 443

SSH - - 22






UI – RDP – 369

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VPC network

VPC networks

IP addresses

Bring your own IP

Firewall

Routes

VPC network peering

Shared VPC

Serverless VPC access

Packet mirroring

Create a VPC network

HELP ASSISTANT

Name *

kanishk-web

Lowercase letters, numbers, hyphens allowed

Description

VPC network ULA internal IPv6 range

Enabling this feature will assign a /48 from Google defined ULA prefix fd20::/20.

☐ Enabled

☒ Disabled

Subnets

Subnets let you create your own private cloud topology within Google Cloud. Click Automatic to create a subnet in each region, or click Custom to manually define the subnets.[Learn more](#)

Subnet creation mode

☒ Custom






☐ Automatic

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VPC network

VPC networks

IP addresses

Bring your own IP

Firewall

Routes

VPC network peering

Shared VPC

Serverless VPC access

Packet mirroring

Create a VPC network

HELP ASSISTANT

Edit subnet

Name *

kanishk-sub

Lowercase letters, numbers, hyphens allowed

Description

Region *

us-central1

IP stack type

☒ IPv4 (single-stack)

☐ IPv4 and IPv6 (dual-stack)

IPv4 range *

10.0.0.0/24






E.g. 10.0.0.0/24

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VPC network

VPC networks

IP addresses

Bring your own IP

Firewall

Routes

VPC network peering

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Serverless VPC access

Packet mirroring

Create a VPC network

HELP ASSISTANT

ADD SUBNET

Firewall rules

Select any of the firewall rules below that you would like to apply to this VPC network. Once the VPC network is created, you can manage all firewall rules on the Firewall rules page.

IPv4 FIREWALL RULES

<input checked="" type="checkbox"/>	Name	Type	Targets	Filters	Protocols/ports	Action	Priority	↑
<input checked="" type="checkbox"/>	kanishk-web-allow-custom	Ingress	Apply to all	IP ranges: 10.0.0.0/24	all	Allow	65,534	EDIT
<input checked="" type="checkbox"/>	kanishk-web-allow-icmp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	icmp	Allow	65,534	
<input checked="" type="checkbox"/>	kanishk-web-allow-rdp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:3389	Allow	65,534	
<input checked="" type="checkbox"/>	kanishk-web-allow-ssh	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:22	Allow	65,534	
	kanishk-web-deny-all-ingress	Ingress	Apply to all	IP ranges: 0.0.0.0/0	all	Deny	65,535	
	kanishk-web-allow-all-egress	Egress	Apply to all	IP ranges: 0.0.0.0/0	all	Allow	65,535	

Dynamic routing mode

☒ Regional

Cloud Router will learn routes only in the region in which this VPC network was created.

Creating network "kanishk-web" ...

Dynamic routing mode ?

☒ Regional

Cloud Routers will learn routes only in the region in which they were created

☐ Global

Global routing lets you learn routes dynamically to and from all regions with a single VPN or Interconnect and Cloud Router

1

Enable DNS API to pick a DNS policy

ENABLE

Maximum transmission unit (MTU)

1460

CREATING

CANCEL

EQUIVALENT COMMAND LINE

Creating network "kanishk-web"...

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vpc networks

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⋮

U

VPC network

Firewall

Routes

VPC network peering

Shared VPC

Serverless VPC access

Packet mirroring

Create a firewall rule

HELP ASSISTANT

Firewall rules control incoming or outgoing traffic to an instance. By default, incoming traffic from outside your network is blocked. [Learn more](#)

1

Make sure that all fields are correct to continue

Name *

kanishk-allow-http

Lowercase letters, numbers, hyphens allowed

Description

Logs

Turning on firewall logs can generate a large number of logs, which can increase costs in Logging [Learn more](#)

☐ On

☒ Off

Network *

kanishk-web

Priority *

1000

CHECK PRIORITY OF OTHER FIREWALL RULES

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VPC network

Firewall

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Packet mirroring

Create a firewall rule

HELP ASSISTANT

1000

CHECK PRIORITY OF OTHER FIREWALL RULES

Priority can be 0-65535

Direction of traffic ?

☒ Ingress

☐ Egress

Action on match ?

☒ Allow

☐ Deny

Targets

Specified target tags

Target tags *

http-kanishk

Source filter

IPv4 ranges

Source IPv4 ranges *

0.0.0.0/0

Second source filter

None

Google Cloud project3 vpc networks

VPC network

- VPC networks
- IP addresses
- Bring your own IP
- Firewall**
- Routes
- VPC network peering
- Shared VPC
- Serverless VPC access
- Packet mirroring

Create a firewall rule

Second source filter: None

Destination filter: None

Protocols and ports

☐ Allow all

☒ Specified protocols and ports

☒ TCP

Ports: 80
E.g. 20, 50-60

☐ UDP

Ports:
E.g. all

☐ Other

Protocols:
Separate multiple protocols by commas, e.g. ah, sctp

[DISABLE RULE](#)

console.cloud.google.com/compute/instances?project=project3-384713&cloudshell=true

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Compute Engine

- Virtual machines
- VM instances**
- Instance templates
- Marketplace
- Release notes

Something went wrong. [Send feedback](#) [Retry](#)

There was an error while loading /compute/instancesAdd?project=project3-384713. Please try again. It may be a browser or network issue. Go to the [loading issues help page](#) to troubleshoot the issue. Request ID: 14809032367958576567

CLOUD SHELL Terminal (project3-384713) [Open editor](#)

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to project3-384713.
Use "gcloud config set project (PROJECT ID)" to change to a different project.
user12@cloudshell:~ (project3-384713) $
```

CLOUD SHELL Terminal (project3-384713) [Open editor](#)

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to project3-384713.
Use "gcloud config set project (PROJECT ID)" to change to a different project.
user12@cloudshell:~ (project3-384713) $ gcloud compute instances create kanishk-vm --machine-type=n1-standard-1 --zone=us-central1-a --network=kanishk-web --subnet=kanishk-web
Created [https://www.googleapis.com/compute/v1/projects/project3-384713/zones/us-central1-a/instances/kanishk-vm].
NAME: kanishk-vm
ZONE: us-central1-a
MACHINE TYPE: n1-standard-1
PREEMPTIBLE:
INTERNAL_IP: 10.0.0.3
EXTERNAL_IP: 34.28.22.49
STATUS: RUNNING
user12@cloudshell:~ (project3-384713) $
```

Google Cloud

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vm

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U

Compute Engine

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Machine images

TPUs

Committed-use discounts

Reservations

Migrate to Virtual Machin...

Marketplace

Release notes

VM instances

CREATE INSTANCE

IMPORT VM

REFRESH

HELP ASSISTANT

LEARN

INSTANCES

OBSERVABILITY

INSTANCE SCHEDULES

VM instances

Filter

Enter property name or value

Sorry, the server was only able to partially fulfil your request. Some data might not be rendered.

Status	Name	Zone	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	kanishk-vm	us-central1-a	10.0.0.3 (nic0)	34.28.22.49 (nic0)	SSH
<input checked="" type="checkbox"/>	saran-vm	us-central1-a	10.0.0.2 (nic0)	34.70.67.34 (nic0)	SSH
<input checked="" type="checkbox"/>	vm-harsh	us-central1-a	23.23.23.2 (nic0)	35.239.51.178 (nic0)	SSH
<input checked="" type="checkbox"/>	vm-name	us-central1-a	10.0.0.2 (nic0)	34.72.255.11 (nic0)	SSH

Related actions

Explore Backup and DR

Monitor VMs

Explore VM logs

Set up firewall rules

Patch management

Load balance between VMs

CLOUD SHELL

Terminal

project3-384713

Open editor

Google Cloud

project3

firewall

Search

2

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VPC network

VPC networks

IP addresses

Bring your own IP

Firewall

Routes

VPC network peering

Shared VPC

Serverless VPC access

Packet mirroring

Firewall

CREATE FIREWALL POLICY

CREATE FIREWALL RULE

HIDE INFO PANEL

<input type="checkbox"/>	harsh-web-allow-icmp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	icmp	A	▼
<input type="checkbox"/>	harsh-web-allow-rdp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:3389	A	▼
<input type="checkbox"/>	harsh-web-allow-ssh	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:22	A	▼
<input type="checkbox"/>	kanishk-allow-http	Ingress	http-kanishk	IP ranges: 0.0.0.0/0	tcp:80	A	▼
<input type="checkbox"/>	kanishk-web-allow-custom	Ingress	Apply to all	IP ranges: 10.0.0.0/8	all	A	▼
<input type="checkbox"/>	kanishk-web-allow-icmp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	icmp	A	▼
<input type="checkbox"/>	kanishk-web-allow-tcp-3389	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:3389	A	▼

Select a firewall policy

Please select at least one resource.

Google Cloud project3 firewall

VPC network

- VPC networks
- IP addresses
- Bring your own IP
- Firewall**
- Routes
- VPC network peering
- Shared VPC
- Serverless VPC access
- Packet mirroring

Priority can be 0-65535

Direction
Ingress

Action on match
Allow

Targets
All instances in the network

Source filter
IPv4 ranges

Source IPv4 ranges *
0.0.0.0/0

Second source filter
None

Destination filter
None

Protocols and ports

☐ Allow all

☒ Specified protocols and ports

TCP

← → ↺ ⌂ ⚠ Not secure | 34.28.22.49

Apache2 Debian Default Page

debian

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Debian systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```

Deployment:

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App Engine

App Engine

Dashboard

Services

Versions

Release notes

Cloud Shell Terminal

Connecting... x +

Open editor

Need help?

Provisioning your Cloud Shell machine

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CREATE APPLICATION

You don't have permission to create an application.

Get started with App Engine

Set up your development environment

Setting up access control

Communicating between your services

How instances are managed

https://console.cloud.google.com/appengine/start/create?project=project3-384713

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Split traffic

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Crash jobs

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Split traffic by

Traffic allocation

+ ADD VERSION

SAVE CANCEL

Traffic split settings saved successfully.

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Release notes

Versions

REFRESH DELETE STOP START MIGRATE TRAFFIC SPLIT TRAFFIC LEARN HIDE INFO PANEL

Filter Filter versions

Version	Status	Traffic Allocation	Instances
<input type="checkbox"/> 20230426t114331	Serving	0%	0
<input type="checkbox"/> 20230426t114116	Serving	23%	1
<input type="checkbox"/> 20230426t113829	Serving	0%	1
<input type="checkbox"/> 20230426t113329	Serving	77%	1

Select a version

Please select at least one resource.

Traffic split settings saved successfully

← → ↺ ⌂ console.cloud.google.com/appengine/versions?project=project3-384713&serviceId=default&pli=1&rapt=A5jHL4N3wb93JEmYijnkE7O-dAQTbjwhsnJarsLlok4... ☆ ⚙ ⌵ U

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Versions

REFRESH DELETE STOP START MIGRATE TRAFFIC SPLIT TRAFFIC HIDE INFO PANEL LEARN

Filter Filter versions

Version	Status	Traffic Allocation	Instances
<input checked="" type="checkbox"/> 20230426t113329	Serving	100%	0

20230426t113329

Yesterday

17:05 Completed: Create App Engine ... user12@prianworld.com cr...

17:03 Create App Engine version user12@prianworld.com cr...

No older events found.

Hello World!

