

Unit 7 - Week 5 : It helps to Network

Course outline

How does an NPTEL online course work?

Week 0: Welcome to the Course

Week 1: What's the cloud anyway? Start with a solid platform

Week 2: Use GCP to build your apps

Week 3 : Where do I store this Stuff?

Week 4: There's an API for that! You can't secure the Cloud right?

Week 5 : It helps to Network

● Introduction

● Intro to Networking in the Cloud

● Defining a Virtual Private Cloud

● Public and Private IP Address Basics

● Googles Network Architecture

● Routes and Firewall Rules in the Cloud [With Lab]

○ Quiz : Assignment 5 & 6

○ Google Cloud Computing Foundations Course : Week 5 Feedback Form

Week 6 : It helps to Network (continued)

Week 7 : Let Google keep an eye on things. You have the data, but what are you doing with it

Let machines do the work

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Assignment 5 & 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-08, 23:59 IST.

1) Virtual private cloud networks (VPCs) allow the deployment of infrastructure as a service resources, such as compute instances and containers. Which of these statements best describes a VPC? **1 point**

- A VPN connection
- Virtual network adapters used for virtual machines
- A software-defined network built on top of Google's network
- A dedicated link from Google Cloud Platform to a customer's network

No, the answer is incorrect.

Score: 0

Feedback:

A VPC is a software-defined network built on top of Google's global network.

Accepted Answers:

A software-defined network built on top of Google's network

2) True or False. 'Regional' is a type of virtual private cloud (VPC) **1 point**

- True
- False

No, the answer is incorrect.

Score: 0

Feedback:

The answer is False. The types of VPCs are Default, Auto, and Custom

Accepted Answers:

False

3) True or False. Virtual private clouds (VPCs) are global and subnets are zonal **1 point**

- True
- False

No, the answer is incorrect.

Score: 0

Feedback:

VPCs are global and subnets are regional

Accepted Answers:

False

4) How many IP addresses does a /24 network have? **1 point**

- 32
- 256
- 1024
- 65556

No, the answer is incorrect.

Score: 0

Feedback:

A /24 network has 256 IP addresses. The /24 in this example dictates how many IP addresses are available. Adding 1 to this number will cut the number of IP addresses available in half

Accepted Answers:

256

5) What is the purpose of a route? **1 point**

- A route will always point to a switch
- A route provides a path for traffic to flow
- A route allows or denies traffic in a network
- A route connects two virtual private clouds (VPCs) together

No, the answer is incorrect.

Score: 0

Feedback:

A route provides a path for data to flow. Every subnet in a VPC will also have a route.

Accepted Answers:

A route provides a path for traffic to flow

6) Which of the following is true concerning firewall rules? **1 point**

- By default, firewall rules don't exist
- Firewall rules block all inbound traffic by default
- Firewall rules allow all inbound and outbound traffic by default
- Firewall rules allow all inbound traffic but denies outbound traffic by default

No, the answer is incorrect.

Score: 0

Feedback:

All traffic is blocked inbound by default. If inbound traffic is configured to be permitted inbound, that traffic will also be permitted outbound

Accepted Answers:

Firewall rules block all inbound traffic by default

7) Your instance needs a public IP address that won't change if the instance is shutdown and restarted. Which of the following is the best option? **1 point**

- Update the host file on the instance.
- Set the IP address on the boot script
- Can't be done. Have users point to the server via DNS name
- Reserve a public static IP address from Google and assign it to the instance

No, the answer is incorrect.

Score: 0

Feedback:

Public IP addresses can be allocated by Google and assigned to an instance if a static IP is needed

Accepted Answers:

Reserve a public static IP address from Google and assign it to the instance

8) Which load balancing option can be used if you want to distribute web traffic to two applications in different parts of the world? **1 point**

- HTTP(S) Load Balancer
- Internal Load Balancer
- Network Load Balancer
- TCP Proxy Load Balancer

No, the answer is incorrect.

Score: 0

Feedback:

HTTP(S) load balancers can distribute web traffic to multiple regions that are geographically separated.

Accepted Answers:

HTTP(S) Load Balancer

9) What option would you choose to create a private dedicated 10 GB/s link between GCP and your data center? **1 point**

- Cloud Interconnect
- Peering
- VPC sharing
- VPN

No, the answer is incorrect.

Score: 0

Feedback:

Cloud Interconnect is used to create dedicated private physical links between GCP and a physical data center

Accepted Answers:

Cloud Interconnect

10) You want to create a single location to control traffic to all the virtual private clouds (VPCs) in your organization. What is the best option? **1 point**

- Cloud Interconnect
- Peering
- Shared VPC
- VPC peering

No, the answer is incorrect.

Score: 0

Feedback:

Shared VPC allows for a central point of control for all VPCs in an organization.

Accepted Answers:

Shared VPC