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**NPTEL** (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Google Cloud Computing Foundations**  
(course)



## 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**

# Assignment 5 & 6

The due date for submitting this assignment has passed.

**Due on 2020-10-28, 23:59 IST.**

**Assignment submitted on 2020-10-28, 09:39 IST**

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

**1 point**

- ☐ 32
- ☒ 256
- ☐ 1024
- ☐ 65556

Yes, the answer is correct.

Score: 1

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

2) Which of the following is not a type of virtual private cloud (VPC).

**1 point**

- ☐ Default
- ☐ Auto
- ☐ Custom
- ☒ Regional

**the Cloud right?****Week 5 : It helps to Network**

☐ Introduction  
(unit?unit=81&lesson=82)

☒ Intro to Networking in the Cloud  
(unit?unit=81&lesson=83)

☒ Defining a Virtual Private Cloud  
(unit?unit=81&lesson=84)

☒ Public and Private IP Address Basics  
(unit?unit=81&lesson=85)

☒ Googles Network Architecture  
(unit?unit=81&lesson=86)

☒ Routes and Firewall Rules in the Cloud [With Lab]  
(unit?unit=81&lesson=87)

☐ Google Cloud Computing Foundations Course : Week 5 Feedback Form  
(unit?unit=81&lesson=88)

☒ Quiz : Assignment 5 & 6  
(assessment?name=130)

**Week 6 : It helps**

Yes, the answer is correct.

Score: 1

Feedback:

*The types of VPCs are Default, Auto, and Custom.*

Accepted Answers:

*Regional*

3) True or False. Virtual private clouds (VPCs) are global and subnets are regional.

**1 point**

☒ True

☐ False

Yes, the answer is correct.

Score: 1

Feedback:

*The answer is True. VPCs are global and subnets are regional.*

Accepted Answers:

*True*

4) Virtual private cloud networks (VPCs) allow the deployment of infrastructure as a service resources, such as compute instances and containers.

**1 point**

Which of these statements best describes a VPC?

☐ 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.

Yes, the answer is correct.

Score: 1

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*

5) What is the purpose of a route?

**1 point**

☐ A route will always point to a switch

☐ A route allows or denies traffic in a network

☒ A route provides a path for traffic to flow

☐ A route connects two virtual private clouds (VPCs) together

Yes, the answer is correct.

Score: 1

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 allow all inbound and outbound traffic by default

**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**

**Download  
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**Text Transcripts**

- ☐ Firewall rules allow all inbound traffic but denies outbound traffic by default.
- ☒ Firewall rules block all inbound traffic by default.

Yes, the answer is correct.

Score: 1

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) 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

Yes, the answer is correct.

Score: 1

Feedback:

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

Accepted Answers:

*Shared VPC*

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**

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

Yes, the answer is correct.

Score: 1

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**

- ☐ Peering
- ☐ VPC sharing
- ☐ VPN
- ☒ Cloud Interconnect

Yes, the answer is correct.

Score: 1

Feedback:

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

Accepted Answers:

*Cloud Interconnect*

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

- ☐ 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

Yes, the answer is correct.

Score: 1

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*