

Unit 4 - Week 2: Use GCP to build your apps

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

- Introduction
- Compute Options in the Cloud
- Exploring IaaS with Compute Engine [With Lab]
- Configuring Elastic Apps with Autoscaling
- Exploring PaaS with App Engine [With Lab]
- Event Driven Programs with Cloud Functions [With Lab]
- Containerizing and Orchestrating Apps with GKE
- Recap Quiz
- Summary

○ Quiz : Assignment 2

○ Google Cloud Computing Foundations Course : Week 2 Feedback Form

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

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 2

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

Due on 2020-03-11, 23:59 IST.

1) None of the pre-defined instance types fit your application. What do you do?

1 point

- Set up autoscaling.
- Do nothing, the instance will size itself.
- Over allocate resources for the instance.
- Create a custom virtual machine that fits your needs

No, the answer is incorrect.
Score: 0

Feedback:

Custom instance types are useful when none of the pre-defined options meet your needs or you need to use GPUs or a specific CPU platform

Accepted Answers:

Create a custom virtual machine that fits your needs

2) Compute Engine pricing is based on a daily rate for the instance ?

1 point

- True
- False

No, the answer is incorrect.
Score: 0

Feedback:

The answer is False. You are billed for the first minute at boot-time and then per second of use

Accepted Answers:

False

3) Stackdriver metrics can be used to trigger an autoscaling event ?

1 point

- True
- False

No, the answer is incorrect.
Score: 0

Feedback:

The answer is True. Stackdriver metrics, CPU usage, and load balancer usage are all examples of triggers for an autoscaling event

Accepted Answers:

True

4) Which of the following virtual disk types is ephemeral?

1 point

- Cloud Storage
- HD Persistent Disk
- Local SSD
- SSD Persistent Disk

No, the answer is incorrect.
Score: 0

Feedback:

Local SSD disks are ephemeral. If the VM is shut down or crashes the disk gets destroyed

Accepted Answers:

Local SSD

5) You want to use App Engine, but you will need to use a custom runtime. Which of the following is the best option?

1 point

- App Engine Internal
- App Engine Flexible
- App Engine Standard
- Google Kubernetes Engine

No, the answer is incorrect.
Score: 0

Feedback:

App Engine Flexible allows for custom runtimes, use of persistent disks, and the ability to log into the infrastructure

Accepted Answers:

App Engine Flexible

6) Time-to-market is highly valuable to you and you want to be able to focus on writing code without ever having to touch a server, cluster, or infrastructure.

1 point

Which service suits your needs?

- App Engine
- Compute Engine
- BigQuery
- Google Kubernetes Engine

No, the answer is incorrect.
Score: 0

Feedback:

App Engine is a PaaS option. The only part of the infrastructure you manage is your code

Accepted Answers:

App Engine

7) Python is a runtime option for Cloud Functions. ?

1 point

- True
- False

No, the answer is incorrect.
Score: 0

Feedback:

The answer is True. Cloud Functions supports code written in Go, Python, and Node.js.

Accepted Answers:

True

8) Which of the following can trigger Cloud Functions?

1 point

- App Engine notification
- Email
- Stackdriver alert
- Webhook

No, the answer is incorrect.
Score: 0

Feedback:

Cloud Functions can be triggered by a webhook, an action to a Cloud Storage bucket, or a message in Cloud Pub/Sub

Accepted Answers:

Webhook

9) Google Kubernetes Engine is built on the open-source Kubernetes system. Which of the following statements best describes what Kubernetes is?

1 point

- A format of container
- A virtualization platform.
- An orchestration engine to manage containers.
- An execution environment for building and connecting cloud services

No, the answer is incorrect.
Score: 0

Feedback:

Kubernetes is used for container orchestration. It helps you manage your containerized application environment

Accepted Answers:

An orchestration engine to manage containers.

10) Which of the following is the container format used with Google Kubernetes Engine?

1 point

- Docker
- Glassfish
- Rocket
- Spinnaker

No, the answer is incorrect.
Score: 0

Feedback:

Docker is the container format of choice for GKE. Spinnaker, Rocket, and Glassfish are not container formats

Accepted Answers:

Docker