



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

- Introduction (unit?unit=38& lesson=39)
- Compute Options in the Cloud (unit?unit=38&

## Assignment 2

The due date for submitting this assignment has passed.

Due on 2020-09-30, 23:59 IST.

## Assignment submitted on 2020-09-30, 15:26 IST

- 1) The predefined machine types do not fit your application requirement. What is the best *1 point* solution for this case?
  - Setup autoscaling.
  - Create a custom virtual machine that fits your requirements
  - Over allocate resources for the instance
  - O Do nothing, the instance will size itself.

Yes, the answer is correct.

Score: 1

Feedback:

Custom machine 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 requirements

- 2) True or False. Compute Engine is billed for the first minute at boot-time and then per **1 point** second of use
  - True
  - False

Yes, the answer is correct.

1 of 4 5/29/2021, 1:08 PM

lesson=40)

- Exploring laaS with Compute Engine [With Lab] (unit?unit=38& lesson=41)
- Configuring Elastic Apps with Autoscaling (unit?unit=38& lesson=42)
- Exploring PaaS with App Engine [With Lab] (unit?unit=38& lesson=43)
- Event Driven Programs with Cloud Functions [With Lab] (unit?unit=38&
- Containerizing and Orchestrating Apps with GKE (unit?unit=38& lesson=45)

lesson=44)

- Summary (unit?unit=38& lesson=47)
- Google Cloud Computing Foundations Course: Week 2 Feedback Form (unit?unit=38& lesson=48)
- Quiz :

**Assignment 2** 

Score: 1

Feedback:

The answer is True. Compute Engine bills for a minimum of 1 minute of usage, so if you use an instance for 30 seconds of uptime, you are billed for 1 minute. After 1 minute, your instance is billed on a per-second basis.

Accepted Answers:

True

True or False. Java is a runtime option for Cloud Functions.

1 point

- True
- False

Yes, the answer is correct.

Score: 1

Feedback:

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

Accepted Answers:

True

4) True or False? Local SSD disks are ephemeral

1 point

- True
- False

Yes, the answer is correct.

Score: 1

Feedback:

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

Accepted Answers:

True

- 5) Which of the following options provides the customize runtimes for App Engine by 1 point supplying a custom Docker image or Dockerfile from the open source community.
  - App Engine Standard
  - App Engine Internal
  - Google Kubernetes Engine
  - App Engine Flexible

Yes, the answer is correct.

Score: 1

Feedback:

App Engine Flexible allows for custom runtimes by supplying a custom Docker image or Dockerfile from the open source community with the use of persistent disks, and the ability to log into the infrastructure

Accepted Answers:

App Engine Flexible

6) Google Kubernetes Engine is built on the open-source Kubernetes system. Which of (assessment?name=127) the following statements best describes what Kubernetes is?

Week 3: Where

do I store this	An orchestration engine to manage containers.	
Stuff?	A virtualization platform.	
Week 4. Therele	A format of container	
Week 4: There's an API for that!	An execution environment for building and connecting cloud services.	
You can't secure	Yes, the answer is correct.	
the Cloud right?	Score: 1	
	Feedback:	
Week 5 : It helps	Kubernetes is used for container orchestration. It helps you manage your containerized	
to Network	application environment	
	Accepted Answers:	
Week 6 : It helps	An orchestration engine to manage containers.	
to Network (continued)	7) True or False. Cloud Monitoring metrics can be used to trigger an autoscaling event 1 p	ooint
	○ True	
Week 7 : Let	False	
Google keep an	No, the answer is incorrect.	
eye on things. You have the	Score: 0	
data, but what	Feedback:	
are you doing	The answer is True. Cloud Monitoring metrics, CPU usage, and load balancer usage are all	
with it	examples of triggers for an autoscaling event	
	Accepted Answers: True	
Let machines do	7740	
the work	8) Which of the following can trigger Cloud Functions?	ooint
Daniel and	O App Engine notification	
Download Videos	Webhook	
Videos	Stackdriver alert	
Text Transcripts	○ Email	
	Yes, the answer is correct. Score: 1	
	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) Time-to-market is highly valuable to you and you want to be able to focus on writing 1 p	ooint
	code without ever having to touch a server, cluster, or infrastructure. Which service suits your	
	needs?	
	Google Kubernetes Engine	
	Google Compute Engine	
	BigQuery	

3 of 4 5/29/2021, 1:08 PM

App Engine

Score: 1 Feedback:

Yes, the answer is correct.

App Engine is a PaaS option. The only part of the infrastructure you manage is your code.  Accepted Answers:  App Engine	
10) Which of the following is the container format used with Google Kubernetes Engine? 1 point	
Rocket Glassfish Docker Spinnaker	
Yes, the answer is correct. Score: 1 Feedback: Docker is the container format of choice for GKE. Spinnaker, Rocket, and Glassfish are not container formats	
Accepted Answers:  Docker	

4 of 4