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**State** Finished

**Completed on** Thursday, 16 November 2023, 9:24 PM

**Time taken** 22 mins 16 secs

**Grade** 4.75 out of 5.00 (95%)

Question **1**

Correct

Mark 0.25 out of 0.25

Does service mesh optimize communication? Yes or No

- ☐ a. No
- ☒ b. Yes ✓

Your answer is correct.

The correct answer is:

Yes

Question **2**

Correct

Mark 0.25 out of 0.25

Where can we implement authentication techniques in a microservices-based architecture?

1. services
2. load balancer

- ☐ a. Both 1 and 2
- ☒ b. 1 only ✓
- ☐ c. None of the options
- ☐ d. 2 only

Your answer is correct.

1. The individual services can authenticate the user.
2. The API gateway can authenticate a request before forwarding it to the services.

The correct answers are:

Both 1 and 2,

1 only

Question **3**

Correct

Mark 0.25 out of 0.25

Which of these are the deployment strategies that can be used for deploying microservices-based architecture?

1. Multiple Service Instances per Host Pattern
2. Single Service Instance per Host Pattern
3. Service Instance per Container Pattern
4. Deployment on local machines
5. Serverless deployment

- ☐ a. 1, 2, 3, 4 and 5
- ☐ b. 1, 2, and 3 only
- ☐ c. 1, 2, 3, and 4 only
- ☒ d. 1, 2, 3, and 5 only ✓

Your answer is correct.

The correct answer is:

1, 2, 3, and 5 only

Question **4**

Correct

Mark 0.25 out of 0.25

Which of the following are the drawbacks of using serverless deployment?

- ☐ a. It's not the best scenario for executing long-running applications.
- ☐ b. Cold start
- ☐ c. Vendor lock in
- ☒ d. All of the options ✓

Your answer is correct.

The correct answer is:

All of the options

Question **5**

Correct

Mark 0.25 out of 0.25

Old pods are scaled down only after new pods are ready. If your deployment encounters problems, you can pause or cancel the Kubernetes deployment without taking the entire cluster offline. Which deployment strategy is this?

- ☐ a. A/B testing
- ☐ b. Canary
- ☒ c. Ramped ✓
- ☐ d. Blue/Green

Your answer is correct.

The correct answer is:

Ramped

Question **6**

Correct

Mark 0.25 out of 0.25

Following are the techniques that can be used to ensure reliable communication with services.

1. No Retries
2. Fallbacks, caching, and graceful degradation
3. Timeouts and deadlines
4. Circuit breakers
5. Communication breaker

- ☐ a. All of the options
- ☒ b. 2, 3 and 4 only ✓
- ☐ c. 3,4, and 5 only
- ☐ d. 1,2, and 3 only

Your answer is correct.

The correct answer is:

2, 3 and 4 only

## Question 7

Correct

Mark 0.25 out of 0.25

\_\_\_\_\_ is an emerging approach to evaluating distributed networks, running experiments against a system while it's in active use.

- ☐ a. integration tetsing
- ☐ b. CI/CD
- ☐ c. testing
- ☒ d. Chaos Engineering ✓

Your answer is correct.

The correct answer is:

Chaos Engineering

## Question 8

Correct

Mark 0.25 out of 0.25

Which of the following command can be used to make docker images?

- ☒ a. docker build ✓
- ☐ b. docker run
- ☐ c. docker pull
- ☐ d. docker make

Your answer is correct.

The correct answer is:

docker build

## Question 9

Correct

Mark 0.25 out of 0.25

A \_\_\_\_\_ is a measure of how reliable you can expect the service to be.

- ☒ a. service's availability ✓
- ☐ b. service's failure
- ☐ c. service's dependency
- ☐ d. service's code

Your answer is correct.

The correct answer is:

service's availability

Question **10**

Correct

Mark 0.25 out of 0.25

\_\_\_\_\_ approach allows you to test the new version in production while only exposing users to the old, stable version. Once tested, the new version gradually replaces the old version.

- ☐ a. ramped
- ☒ b. Blue/Green ✓
- ☐ c. A/B testing
- ☐ d. Canary

Your answer is correct.

The correct answer is:  
Blue/Green

Question **11**

Correct

Mark 0.25 out of 0.25

Following are the possible sources of failure in microservices

- ☐ a. Dependencies
- ☐ b. communication
- ☒ c. All of the options ✓
- ☐ d. hardware

Your answer is correct.

The correct answer is:  
All of the options

Question **12**

Correct

Mark 0.25 out of 0.25

Suppose, there are 3 instances of a service being deployed. As per \_\_\_\_\_, deleting an instance will cause the instance group to spin up a replacement instance, ensuring that capacity is maintained.

- ☐ a. security requirement
- ☐ b. deployment
- ☒ c. self-healing ✓
- ☐ d. rule

Your answer is correct.

The correct answer is:  
self-healing

Question **13**

Correct

Mark 0.25 out of 0.25

How can we map CI to microservices? Select the best option.

- ☐ a. one single source tree with all of the code in it, with multiple CI builds mapping to parts of this source tree
- ☒ b. a single CI build per microservice ✓
- ☐ c. a single, giant repository storing all our code, and have one single build
- ☐ d. None of the options

Your answer is correct.

The correct answer is:  
a single CI build per microservice

Question **14**

Correct

Mark 0.25 out of 0.25

Write the steps to containerize the application in the correct order

1. Push your image to a shared repository or registry
2. Build an image for a service
3. Run multiple instances or containers of your image

- ☐ a. 1,2,3
- ☐ b. 1,3,2
- ☐ c. 3,1,2
- ☒ d. 2,3,1 ✓

Your answer is correct.

The correct answer is:  
2,3,1

Question **15**

Correct

Mark 0.25 out of 0.25

With \_\_\_\_\_, you have the consumers of your microservice define their expectations of how your service behaves during communication with them.

- ☒ a. Consumer Driven Contract ✓
- ☐ b. testing
- ☐ c. Consumer
- ☐ d. test cases

Your answer is correct.

The correct answer is:  
Consumer Driven Contract

Question **16**

Correct

Mark 0.25 out of 0.25

\_\_\_\_\_ is a DevOps software development practice where developers regularly merge their code changes into a central repository, after which automated builds and tests are run

- ☐ a. continuous deployment
- ☒ b. Continuous integration ✓
- ☐ c. Continuous delivery
- ☐ d. None of the options

Your answer is correct.

The correct answer is:

Continuous integration

Question **17**

Correct

Mark 0.25 out of 0.25

\_\_\_\_\_ automatically deploys all code changes to a testing and/or production environment after the build stage.

- ☐ a. Continuous delivery
- ☐ b. None of the options
- ☒ c. Continuous deployment ✓
- ☐ d. Continuous integration

Your answer is correct.

The correct answers are:

Continuous delivery ,

Continuous deployment



Question **18**

Correct

Mark 0.25 out of 0.25

In a load balancer, you can configure \_\_\_\_\_, which are used to monitor the health of the registered instances so that the load balancer only sends requests to the healthy instances.

- ☒ a. health checks ✓
- ☐ b. URL map
- ☐ c. target proxy
- ☐ d. forwarding rule

Your answer is correct.

The correct answer is:  
health checks

Question **19**

Correct

Mark 0.25 out of 0.25

What is the domino effect?

- ☒ a. failure in one service increases failure in upstream services, and in turn their upstream services. ✓
- ☐ b. failure in one service doesn't impact other services
- ☐ c. architectural failure
- ☐ d. failure in single service

Your answer is correct.

The correct answer is:  
failure in one service increases failure in upstream services, and in turn their upstream services.

Question **20**

Incorrect

Mark 0.00 out of 0.25

\_\_\_\_\_ takes this one stage further and pushes code to production on the strength of it having passed all the previous stages, with no manual intervention at all.

- ☒ a. Continuous delivery ❌
- ☐ b. All of the options
- ☐ c. Continuous integration
- ☐ d. Continuous deployment

Your answer is incorrect.

The correct answer is:

Continuous deployment

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