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**Started on** Wednesday, 13 January 2021, 6:00 PM

**State** Finished

**Completed on** Wednesday, 13 January 2021, 6:20 PM

**Time taken** 20 mins

**Marks** 6.67/10.00

**Grade** 6.67 out of 10.00 (67%)

Question **1**

Correct

Mark 0.40 out of 0.40

Which of the following represent types of load balancers?

☒ HTTP



☒ DNS



☐ NAT

☒ TCP/UDP



Your answer is correct.

The correct answers are:

HTTP,

TCP/UDP,

DNS

## Question 2

Correct

Mark 0.40 out of 0.40

Which of the following is the availability formula used in cloud environments?

- ☒  $\text{availability} = \text{uptime} / (\text{downtime} + \text{uptime})$
- ☐  $\text{availability} = \text{uptime} / \text{uptime} + \text{downtime}$
- ☐  $\text{availability} = \text{uptime} / \text{downtime}$
- ☐  $\text{availability} = \text{uptime} / \text{downtime} + \text{uptime}$



Your answer is correct.

The correct answer is:

$\text{availability} = \text{uptime} / (\text{downtime} + \text{uptime})$

## Question 3

Correct

Mark 0.40 out of 0.40

Monitoring of the virtual host is useful to ensure:

- ☒ if provider respects contracts (SLA)
- ☐ knowing the size of the database
- ☒ knowing when to scale (up/down, in/out)
- ☐ knowing your current price to pay



Your answer is correct.

The correct answers are:

if provider respects contracts (SLA),

knowing when to scale (up/down, in/out)

## Question 4

Incorrect

Mark 0.00 out of 0.40

Which are some of the concerns when adopting a serverless architecture?

- ☒ You might not have enough control
- ☐ Your system might overload other dependencies
- ☒ Your system might not be able to handle big workloads
- ☐ It will likely be more expensive than IaaS



Your answer is incorrect.

The correct answers are:

You might not have enough control,

Your system might overload other dependencies

## Question 5

Correct

Mark 0.40 out of 0.40

What are CDNs good for?

- ☒ improve load times
- ☐ reduce resources
- ☒ improve security
- ☒ optimize costs



Your answer is correct.

The correct answers are:

improve load times,

optimize costs,

improve security

Question **6**

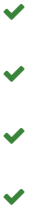
Correct

Mark 0.40 out of 0.40

Which are the main cloud deployment models?

Select one or more:

- ☒ Community
- ☒ Hybrid
- ☒ Private
- ☒ Public



Your answer is correct.

The correct answers are:

Public,

Private,

Community,

Hybrid

Question **7**

Incorrect

Mark 0.00 out of 0.40

Cloud network security can be enforced by:

- ☒ gateways
- ☐ domain name servers
- ☐ network access control lists
- ☐ firewalls



Your answer is incorrect.

The correct answers are:

firewalls,

network access control lists

## Question 8

Correct

Mark 0.40 out of 0.40

OpenID Connect is a(n):

- ☒ Authentication protocol built on top of OAuth 2.0
- ☐ Authorization protocol built on top of OAuth 2.0
- ☐ SSO protocol
- ☐ Inter-service communication protocol



Your answer is correct.

The correct answer is:

Authentication protocol built on top of OAuth 2.0

## Question 9

Correct

Mark 0.40 out of 0.40

Some of the load balancers features are:

- ☒ caching
- ☒ health checks
- ☒ routing based on path
- ☒ port mapping



Your answer is correct.

The correct answers are:

routing based on path,  
health checks,  
port mapping,  
caching

Question **10**

Partially correct

Mark 0.27 out of 0.40

What characterizes resource-oriented APIs?

Select one or more:

- ☒ Fits better for public APIs
- ☒ Usually leads to a concise set of operations
- ☐ Usually leads to strong coupling
- ☐ The behavior of the system is primarily driven by the data



Your answer is partially correct.

You have correctly selected 2.

The correct answers are:

Usually leads to a concise set of operations,

The behavior of the system is primarily driven by the data,

Fits better for public APIs

Question **11**

Correct

Mark 0.40 out of 0.40

The CAP theorem refers to:

- ☐ Credibility, Accessibility, Performance
- ☐ Credibility, Accessibility, Partition Tolerance
- ☐ Capacity, Availability, Performance
- ☒ Consistency, Availability, Partition Tolerance



Your answer is correct.

The correct answer is:

Consistency, Availability, Partition Tolerance

## Question 12

Incorrect

Mark 0.00 out of 0.40

How are messages retrieved from queues in comparison to pub/sub systems?

- ☐ The client has the pull the messages from pub/sub while queues push the messages to the client
- ☒ Both types of services push the message to the clients
- ☐ The clients pull messages from both types of services
- ☐ The client has the pull the messages from queues while pub/sub pushes the messages to the client

✗

Your answer is incorrect.

The correct answer is:

The client has the pull the messages from queues while pub/sub pushes the messages to the client

## Question 13

Correct

Mark 0.40 out of 0.40

When can a service be considered serverless?

- ☒ When the service can scale down to 0
- ☒ When you don't have to provision capacity
- ☒ When you pay only for what you use
- ☒ When you don't have to setup any infrastructure

✓

✓

✓

✓

Your answer is correct.

The correct answers are:

When you don't have to setup any infrastructure,

When you don't have to provision capacity,

When you pay only for what you use,

When the service can scale down to 0

Question **14**

Partially correct

Mark 0.20 out of 0.40

Which are two effective measures to improve infrastructure security?

- ☐ MFA for the users
- ☒ Reduce the attack surface as much as possible
- ☐ Implement OAuth 2.0
- ☐ MFA for the development team



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

MFA for the development team,

Reduce the attack surface as much as possible

Question **15**

Correct

Mark 0.40 out of 0.40

Which of the following are protocols used by the internet?

- ☒ IP
- ☒ RIP
- ☒ OSPF
- ☒ BGP



Your answer is correct.

The correct answers are:

IP,

BGP,

RIP,

OSPF



Question **16**

Incorrect

Mark 0.00 out of 0.40

The 12 Factor App is a(n)

- ☒ Framework for building microservices
- ☐ Methodology for building scalable and maintainable software
- ☐ Authentication application



Your answer is incorrect.

The correct answer is:

Methodology for building scalable and maintainable software

Question **17**

Correct

Mark 0.40 out of 0.40

FaaS stands for:

- ☒ Functions as a service
- ☐ Frontend as a service
- ☐ Functionality as a service



Your answer is correct.

The correct answer is:

Functions as a service

Question **18**

Correct

Mark 0.40 out of 0.40

Packet mirroring in cloud network can be useful for:

- ☒ security analysis
- ☐ boosting traffic performance
- ☒ bug testing
- ☒ anomaly detection



Your answer is correct.

The correct answers are:

security analysis,

bug testing,

anomaly detection

Question **19**

Incorrect

Mark 0.00 out of 0.40

What is the shared responsibility model?

- ☐ A model describing the responsibility of the cloud provider and the customer with regards to security
- ☐ A framework for finding out the optimal security approach
- ☐ A requirement for the ISO 27001 standard
- ☒ A model describing the responsibility within a development team



Your answer is incorrect.

The correct answer is:

A model describing the responsibility of the cloud provider and the customer with regards to security

Question **20**

Correct

Mark 0.40 out of 0.40

OAuth 2.0 is a(n):

- ☒ Authorization protocol
- ☐ Multi-factor authentication service
- ☐ Authentication protocol
- ☐ User management service



Your answer is correct.

The correct answer is:

Authorization protocol

Question **21**

Partially correct

Mark 0.20 out of 0.40

What are Docker volumes good for?

- ☐ enable communication between multiple containers
- ☒ a way to persist data separate of the container's lifecycle
- ☐ allow us to control network isolation separately
- ☐ needed since containers are ephemeral and isolated



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

needed since containers are ephemeral and isolated,

a way to persist data separate of the container's lifecycle

Question **22**

Incorrect

Mark 0.00 out of 0.40

Which is the correct order for disaster recovery strategies from cheapest to the most expensive?

- ☐ warm standby, hot site, backup and restore, pilot light
- ☐ backup and restore, warm standby, hot site, pilot light
- ☐ backup and restore, pilot light, warm standby, hot site
- ☐ warm standby, hot site, pilot light, backup and restore



Your answer is incorrect.

The correct answer is:

backup and restore, pilot light, warm standby, hot site

Question **23**

Correct

Mark 0.40 out of 0.40

Which is true for a graph database model?

- ☐ relationships can't contain properties
- ☒ nodes contain properties (key-value pairs)
- ☐ relationships are not directed
- ☒ contains nodes and relationships



Your answer is correct.

The correct answers are:

contains nodes and relationships,

nodes contain properties (key-value pairs)

Question **24**

Partially correct

Mark 0.20 out of 0.40

Which are some common concerns when working with queues?

- ☐ The consumers might get overloaded
- ☒ The same message might be delivered multiple times
- ☐ Messages might be out of order
- ☐ The message is lost if there are no consumers



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Messages might be out of order,

The same message might be delivered multiple times

Question **25**

Partially correct

Mark 0.20 out of 0.40

Asymmetric encryption is suited for:

- ☒ Small payloads
- ☐ Large payloads
- ☐ Digital signatures (identity verification)
- ☐ High-performance compute



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Small payloads,

Digital signatures (identity verification)

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