

1. Cloud Native Computing Foundation (CNCf) defines 'serverless' as the concept of building and running applications that do not require \_\_\_\_\_ management.

1,

- ☒ server
- ☐ database
- ☐ backend
- ☐ network

✓ **Correct**

Correct. Serverless computing is an advancement of standard cloud computing, which abstracts both infrastructure and software environments. Hence taking away the responsibility of managing those components, while focusing purely on the business logic.

2. Cloud provider is responsible for which of the following components in the Serverless model? Select three answers.

1,

☒ Storage

✓ **Correct**

Correct. You manage only the Application layer, while the cloud provider manages the Storage layer, making it easy to store and read the data or static files.

☐ Application

☒ Network

✓ **Correct**

Correct. You manage only the Application layer, while the cloud provider manages the Networking layer, giving you the connectivity and security required.

☒ OS

✓ **Correct**

Correct. You manage only the Application layer, while the cloud provider manages the OS layer.

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4. Managing which one of the following is your responsibility in a Serverless computing model?

- ☐ Hardware
- ☒ Code
- ☐ Deployment
- ☐ Operating System

✓ **Correct**

Correct. Serverless architecture is a cloud computing model in which developers focus on writing high-quality code.

5. Which one is the key characteristic of a function in FaaS model?

- ☒ Scale automatically and independently as required
- ☐ Be stateful
- ☐ Let you define your infrastructure
- ☐ Keep running even when there are no requests

✓ **Correct**

Correct. Since the functions are stateless, small, and independent pieces of code, they can be scaled automatically, independently, and instantaneously, as required. If demand drops, they automatically scale back down.

6. Which of the following is a best practice in FaaS design?

- ☒ Make each function perform only one action
- ☐ Make a function depend on other functions
- ☐ Chain functions
- ☐ Use many third-party libraries

✓ **Correct**

Correct. FaaS functions should be designed to do a single piece of work in response to an event. So, make your code scope limited, efficient, and lightweight so that functions load and execute quickly.

7. What is the responsibility of the Front End in a Serverless Architecture?

- ☐ Host business logic
- ☐ Store data
- ☐ Provide scaling
- ☒ Host static content and scripts

✓ **Correct**

Correct. The front-end application contains all the static content generated using the Create React App, which works with the help of HTML files, CSS for styling, JavaScript to run on the client, and images.

8. Which is an example of post-processing in the Serverless Reference Architecture?

- ☐ You could provide user registration and authentication
- ☐ You could use messaging to notify multiple subscribers
- ☒ You could apply artificial intelligence or image recognition to upload images
- ☐ You enable access to backend

✓ **Correct**

Correct. Post-processing could be done asynchronously for example to detect if there are any shadows on your passport photo.

9. Which is the key characteristic of IBM Cloud Functions?

- ☒ Cost-Effective and Highly Available
- ☐ No debugging capabilities
- ☐ No disaster recovery
- ☐ Limited integration options

✓ **Correct**

Correct. With IBM Cloud Functions you only pay for what time you use down to one-tenth of a second. Cloud Functions supports high availability to avoid a single point of failure. Customer data, such as action code, is automatically synchronized different zones.

10. The Knative platform is offered by which service provider?

- ☐ Offered by Amazon AWS
- ☐ Offered by Microsoft Azure
- ☐ Offered by Google
- ☒ Open-source option for Serverless

✓ **Correct**

Correct. While other platforms are specific to those providers, you also have an option to go open source with Knative.