

# 7 Days DevOps Deloitte Day 1 Test 1

#### Date 02-01-2025

## 1. What is the primary requirement to run an application or program?

- a) Database
- b) Container
- c) Virtual Machine
- d) Operating System

**Answer:** d) Operating System

Explanation: An operating system provides the necessary environment for

running applications.

# 2. What does 'deploying an app' mean?

- a) Writing code for the app
- b) Installing a database
- c) Testing the app
- d) Hosting the app on an operating system

**Answer:** d) Hosting the app on an operating system

**Explanation:** Deploying means making the app available on a platform for

users.

# 3. What is referred to as 'concurrent users'?

- a) Users who share the same internet connection
- b) Users who perform transactions together
- c) Users accessing an app simultaneously
- d) Users who log in with different accounts

**Answer:** c) Users accessing an app simultaneously

**Explanation:** Concurrent users are multiple users using the app at the same

time.

#### 4. What is the 'tsunami effect' in the context of server traffic?

- a) Sudden surges and drops in user traffic
- b) A steady increase in traffic
- c) Server crashes due to lack of resources
- d) Slow server response time



r: a) Sudden surges and drops in user traffic

**Explanation:** The tsunami effect refers to unpredictable spikes in user traffic.

## 5. Which deployment method provides the highest performance?

- a) Cloud
- b) Containerization
- c) Bare Metal
- d) Virtualization

Answer: c) Bare Metal

**Explanation:** Bare metal deployment maximizes performance by avoiding

virtualization overhead.

# 6. What is a key advantage of cloud computing?

- a) Fixed hardware cost
- b) Scalability and pay-as-you-go pricing
- c) No hardware dependencies
- d) Offline availability

Answer: b) Scalability and pay-as-you-go pricing

**Explanation:** Cloud computing allows flexibility with scalable resources and

cost efficiency.

### 7. What does AWS refer to its operating systems as?

- a) Nodes
- b) Pods
- c) Instances
- d) Virtual Machines

Answer: c) Instances

**Explanation:** AWS instances are virtual servers running on their cloud platform.

### 8. Which city in India has AWS Availability Zones?

- a) Chennai and Jaipur
- b) Delhi and Bangalore
- c) Pune and Kolkata
- d) Mumbai and Hyderabad

Answer: d) Mumbai and Hyderabad

**Explanation:** AWS has established availability zones in Mumbai and Hyderabad.



## t tool is used to automate cloud management?

- a) Kubernetes
- b) Jenkins
- c) Terraform
- d) Docker

Answer: c) Terraform

**Explanation:** Terraform automates cloud infrastructure provisioning and management.

## 10. Which AWS service is used to launch virtual servers?

- a) Lambda
- b) EC2
- c) RDS
- d) S3

Answer: b) EC2

**Explanation:** EC2 is AWS's service for launching and managing virtual servers.

#### 11. What is an AMI in AWS?

- a) Automated Machine Interface
- b) Advanced Memory Integration
- c) Active Machine Instance
- d) Amazon Machine Image

Answer: d) Amazon Machine Image

**Explanation:** AMI is a pre-configured image used to create virtual servers in AWS.

# 12. What does t2.micro represent in AWS?

- a) An AZ identifier
- b) A specific storage configuration
- c) A type of instance
- d) A network ID

**Answer:** c) A type of instance

**Explanation:** t2.micro is a small instance type provided by AWS for lightweight tasks.

# 13. What is the term for increasing the number of servers to handle more traffic?





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- b) Scaling out
- c) Scaling up
- d) Scaling down

Answer: b) Scaling out

**Explanation:** Scaling out adds more servers horizontally to manage increased

traffic.

## 14. What is the significance of storing sensitive data in a private cloud?

a) Compliance with security regulations

- b) Performance optimization
- c) Disaster recovery
- d) Cost efficiency

**Answer:** a) Compliance with security regulations

**Explanation:** Private clouds ensure sensitive data is stored securely and meets

regulatory standards.

## 15. What is horizontal scaling?

- a) Adding more servers to handle traffic
- b) Switching to a higher-performance server type
- c) Decreasing the number of servers
- d) Adding more RAM to existing servers

**Answer:** a) Adding more servers to handle traffic

**Explanation:** Horizontal scaling involves adding servers to spread the traffic

load.

# 16. What is 'time to market' in DevOps?

- a) Time taken to deploy an application
- b) Time taken to scale infrastructure
- c) Time taken to launch an idea in the market
- d) Time taken to develop an idea

Answer: c) Time taken to launch an idea in the market

**Explanation:** Time to market measures how quickly an idea can be turned into a deliverable product.

## 17. Which command is used to install the boto3 library?

a) pip install boto3





install boto3

- c) boto3 install
- d) python install boto3

**Answer:** a) pip install boto3

**Explanation:** The pip install boto3 command installs the Python library for AWS services.

## 18. How can you retrieve the ID of a newly created instance in Python?

- a) Accessing the return value of the function
- b) Using the print function
- c) Using the ID attribute directly
- d) Calling an API endpoint

**Answer:** a) Accessing the return value of the function

**Explanation:** The function's return value typically contains the ID of the newly created instance.

#### 19. What does EC2 stand for?

- a) Enhanced Computing Capability
- b) Elastic Cloud Compute
- c) Elastic Code Cluster
- d) Enterprise Cloud Core

Answer: b) Elastic Cloud Compute

**Explanation:** EC2 stands for Elastic Cloud Compute, providing scalable virtual

servers.

# 20. What type of programming is described as specifying 'what to do' rather than 'how to do it'?

- a) Imperative
- b) Object-oriented
- c) Declarative
- d) Functional

**Answer:** c) Declarative

**Explanation:** Declarative programming focuses on specifying the desired

outcome, not the implementation.