



Cloud Computing - Week 3

30 Questions

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1. Please choose the advantage of Azure that best matches the description: storage, speed or bandwidth can be increased when necessary

☐ a) Security ☐ b) Availability
☒ c) Scalability ☐ d) Development environment

2. Please choose the advantage of Azure that best matches the description: keeping uptime at the maximum possible level

☐ a) Security ☒ b) Availability
☐ c) Scalability ☐ d) Development environment

3. Which solution should you choose if you need full control over the servers, storage, OS and applications?

☐ a) IaaS ☐ b) PaaS
☐ c) SaaS ☒ d) On-premise

4. Which solution should you choose if you need a pre-built set of applications with certain business functionality?

☐ a) IaaS ☐ b) PaaS
☒ c) SaaS ☐ d) On-premise

5. Which Azure compute resource can be deployed to manage a set of identical virtual machines?

- ☒ a) Virtual machine scale sets ☐ b) Virtual machine availability sets
☐ c) Virtual machine availability zones

6. Which of the following services should be used when the primary concern is to perform work in response to an event (often via a REST command) that needs a response in a few seconds?

- ☒ a) Azure Functions ☐ b) Azure App Service
☐ c) Azure Container Instances

7. Your company has a team of remote workers that need to use Windows-based software to develop your company's applications, but your team members are using various operating systems like macOS, Linux, and Windows. Which Azure compute service would help resolve this scenario?

- ☐ a) Azure App Service ☒ b) Azure Virtual Desktop
☐ c) Azure Container Instances

8. Which component of the AWS Global Infrastructure does Amazon Cloudfront use to ensure low-latency delivery?

- ☐ a) AWS Regions ☒ b) AWS edge locations
☐ c) AWS Availability Zones ☐ d) Amazon Virtual Private Cloud (Amazon VPC)

9. You can run applications and workloads from a Region closer to the end users to _____ latency

- ☐ a) increase ☒ b) decrease

10. Networking, storage, compute, and databases are examples of service categories that AWS offers.

- ☒ a) True ☐ b) False

11. Which of the following are geographic areas that host two or more Availability Zones?

- ☐ a) AWS Origins
- ☒ b) AWS Regions
- ☐ c) Compute zones
- ☐ d) Edge locations

12. ____ means the infrastructure has built-in component redundancy and ____ means that resources dynamically adjust to increases or decreases in capacity requirements.

- ☐ a) No human intervention, fault tolerant
- ☐ b) Elastic and scalable, no human intervention
- ☒ c) Fault tolerant, elastic and scalable
- ☐ d) Fault tolerant, no human intervention

13. Availability Zones within a Region are connected through low-latency links.

- ☒ a) True
- ☐ b) False

14. Which of these statements about Availability Zones is not true?

- ☐ a) Availability Zones are designed for fault isolation.
- ☐ b) Availability Zones are made up of one or more data centers.
- ☒ c) A data center can be used for more than one Availability Zone.
- ☐ d) Availability Zones are connected to each other using high-speed private links.

15. What is true about Regions? (Choose two.)

- ☒ a) A Region is a physical location that has multiple Availability Zones.
- ☐ b) All Regions are located in one specific geographic area.
- ☐ c) They are the physical locations of your customers.
- ☒ d) Each Region is located in a separate geographic area.

16. AWS highly recommends provisioning your compute resources across ____ Availability Zones.

- ☐ a) single ☒ b) multiple
☐ c) all ☐ d) no

17. Edge locations are only located in the same general area as Regions.

- ☐ a) True ☒ b) False

18. What best describes the purpose of having many Availability Zones in each AWS region?

- ☐ a) Allow for fault tolerance but not high availability. ☐ b) Allow for cheaper prices due to competition between them.
☒ c) Allow for duplicate and redundant compute, and data backups. ☐ d) None of the above

19. When architecting cloud applications, which of the following are a key design principle?

- ☐ a) Use the largest instance possible ☐ b) Provision capacity for peak load
☐ c) Use the Scrum development process ☒ d) Implement elasticity

20. Which of the following are categories of AWS Trusted Advisor? (Choose two.)

- ☒ a) Fault Tolerance ☐ b) Instance Usage
☐ c) Infrastructure ☒ d) Performance

21. Distributing workloads across multiple Availability Zones supports which cloud architecture design principle?

- ☐ a) Implement automation. ☐ b) Design for agility.
☒ c) Design for failure. ☐ d) Implement elasticity.

22. Which services can be used across hybrid AWS Cloud architectures? (Choose two.)

- ☒ a) Amazon Route 53
- ☒ b) Virtual Private Gateway
- ☐ c) Classic Load Balancer
- ☐ d) Auto Scaling

23. Which of the following is a correct relationship between regions, Availability Zones, and edge locations?

- ☐ a) Data centers contain regions.
- ☒ b) Regions contain Availability Zones.
- ☐ c) Availability Zones contain edge locations.
- ☐ d) Edge locations contain regions.

24. A characteristic of edge locations is that they:

- ☐ a) host Amazon EC2 instances closer to users.
- ☐ b) help lower latency and improve performance for users.
- ☒ c) cache frequently changing data without reaching the origin server.
- ☐ d) refresh data changes daily.

25. Which is a recommended pattern for designing a highly available architecture on AWS?

- ☐ a) Ensure that components have low-latency network connectivity.
- ☐ b) Run enough Amazon EC2 instances to operate at peak load.
- ☒ c) Ensure that the application is designed to accommodate failure of any single component.
- ☐ d) Use a monolithic application that handles all operations.

26. According to best practices, how should an application be designed to run in the AWS Cloud?

- ☐ a) Use tightly coupled components.
- ☒ b) Use loosely coupled components.
- ☐ c) Use infrequently coupled components.
- ☐ d) Use frequently coupled components.

27. Which of the following components of the AWS Global Infrastructure consists of one or more discrete data centers interconnected through low latency links?

- ☒ a) Availability Zone
- ☐ b) Edge location
- ☐ c) Region
- ☐ d) Private networking

28. How many Availability Zones should compute resources be provisioned across to achieve high availability?

- ☐ a) A minimum of one
- ☒ b) A minimum of two
- ☐ c) A minimum of three
- ☐ d) A minimum of four or more

29. Which of the following is an important architectural design principle when designing cloud applications?

- ☒ a) Use multiple Availability Zones.
- ☐ b) Use tightly coupled components.
- ☐ c) Use open source software.
- ☐ d) Provision extra capacity.

30. What should you do if you believe your AWS account has been compromised? (Select all that apply)

- ☒ a) Delete any resources in your account that you did not create.
- ☒ b) Respond to any notifications you received from AWS through the AWS Support Center.
- ☒ c) Change all IAM user's passwords.
- ☒ d) Delete or rotate all programatic (API) access key