Quizizz

NAME : _____

CLASS : _____

DATE : _____

Cloud Architecting - Week 9

20 Questions

1. Which of the following is not one of the four areas of the Performance Efficiency pillar of the AWS Well-Architected Framework?

- [ ] Traceability
- [ ] Tradeoffs
- [ ] Monitoring
- [ ] Selection

2. Which of the following is a principle when designing cloud-based systems?

- [ ] Make infrequent, large batch changes
- [ ] Use as many services as possible
- [ ] Build tightly-coupled components
- [ ] Assume everything will fail

3. Which of the following are pillars of the AWS Well-Architected Framework? (Choose three)

- [ ] Persistence
- [ ] Cost Optimization
- [ ] Operational Excellence
- [ ] Security

4. Which design principles are recommended when considering performance efficiency? (Choose 2)

- [ ] Analyze and attribute expenditure
- [ ] Use serverless architecture
- [ ] Match supply with demand
- [ ] Democratize advanced technologies

5. AWS Trusted Advisor provides insight regarding which five categories of an AWS account?

- [ ] Performance, cost optimization, access control, connectivity, security
- [ ] Security, access control, high availability, performance, service limits
- [ ] Performance, cost optimization, security, fault tolerance, service limits
- [ ] Security, fault tolerance, high availability, connectivity, service limits

6. The AWS Well-Architected Framework is organized into how many pillars?

- [ ] None of the above
- [ ] 4
- [ ] 3
- [ ] 5

7. After you move to the AWS Cloud, you want to ensure that the right security settings are put in place.Which online tool can assist in security compliance?

- [ ] AWS Support
- [ ] Amazon CloudWatch
- [ ] AWS Trusted Advisor
- [ ] Amazon Kinesis

8. Which of the following is a measure of your system's ability to provide functionality when desired by the user?

- [ ] Fault Tolerance
- [ ] Availability
- [ ] Performance efficiency
- [ ] Reliability

9. What is defined as the ability for a system to remain operational even if some of the components of that system fail?

- [ ] High availability
- [ ] Fault tolerance
- [ ] High durability

10. Which of the following best describes a system that can withstand some measures of degradation, experiences minimal downtime, and requires minimal human intervention?

- [ ] Elastic
- [ ] Scalable
- [ ] Fault-tolerant
- [ ] High available

11. Which statement about Amazon EC2 Auto Scaling is accurate?

- [ ] It requires the customer to purchase Reserved Instances.
- [ ] It can only launch new Amazon EC2 instances based on a schedule.
- [ ] It can launch Amazon EC2 instances in multiple Availability Zones.
- [ ] It can launch Amazon EC2 instances, but customers must terminate instances after they they are no longer needed.

12. You detected that the demand on a fleet of Amazon EC2 instances in an Auto Scaling group increases by a set amount each day. Which type of scaling is the most appropriate for this scenario?

- [ ] Manual
- [ ] Dynamic
- [ ] Scheduled
- [ ] Predictive

13. A fleet of Amazon EC2 instances are launched in an Auto Scaling group behind an Elastic Load Balancing load balancer. The EC2 instances must maintain 50 percent average CPU utilisation. Which type of scaling provides the simplest way to achieve the requirement?

- [ ] Manual scaling
- [ ] Simple scaling
- [ ] Target tracking scaling
- [ ] Step scaling

14. How do you vertically scale an Amazon RDS database?

- [ ] By changing the instance class
- [ ] By adding read replicas
- [ ] By sharding the database
- [ ] By creating dedicated read and write nodes

15. How do you horizontally scale an Amazon Aurora database?

- [ ] By increasing the size of the buffer cache configuration
- [ ] By changing the instance type
- [ ] By creating Amazon CloudWatch alarms
- [ ] By adding Aurora Replica instances

16. How does Amazon DynamoDB perform automatic scaling?

- [ ] It adds and removes database instances in response to changes in traffic.
- [ ] It changes the instance type in response to changes in processing load.
- [ ] It adjusts the provisioned throughput capacity in response to traffic patterns.
- [ ] It adds read replicas in response to increased read demand.

17. A fleet of Amazon EC2 instances launch in an Auto Scaling group. The instances run an application that uses a custom protocol on TCP port 42000. Connections from client systems on the internet must balance across the instances. Which load balancing solution ensures the highest availability?

- [ ] Round-robin dns
- [ ] Network Load Balancer
- [ ] Instance-based load balancer
- [ ] Application Load Balancer

18. Users in location A connect to an application in Region A. Users in location B connect to the same application in Region B. If the application in Region A becomes unhealthy, clients in location A must be redirected to the application in Region B. Which solution can meet this requirements?

- [ ] Use an Application Load Balancer with Amazon CloudWatch alarms.
- [ ] Use geoproximity routing and a Network Load Balancer that is attached to both Regions.
- [ ] Use latency-based routing in Amazon Route 53 with Amazon CloudWatch alarms.
- [ ] Use geolocation routing with failover records in Amazon Route 53.

19. A company must build a highly available website that uses server-side scripts to serve dynamic HTML. Which solution provides the highest availability for the least cost and complexity?

- [ ] A second web server is deployed in another Region. Amazon Route 53 uses failover routing for disaster recovery (DR).
- [ ] Amazon S3 hosts the website. DNS name resolution points to the S3 bucket.
- [ ] An Auto Scaling group launches Amazon EC2 instances, which are served by an Application Load Balancer. DNS name resolution points to the load balancer.
- [ ] An Auto Scaling group launches Amazon EC2 instances, which are served by a Network Load Balancer. Amazon Route 53 uses latency-based routing.

20. You have created an AWS account for your own personal development and testing. You want your account to stay within the AWS Free Tier and to not generate unexpected costs. Which approach will work and requires the least effort?

- [ ] Create an Amazon CloudWatch metric to monitor account billing and limit it to $0.
- [ ] Log in to the AWS Management Console each month and check your billing dashboard.
- [ ] Create an Amazon CloudWatch alarm to sent you an email message when the account billing exceeds $0.
- [ ] Create a service control policy (SCP) to restrict all service that are not included in the AWS Free Tier.