Dashboard (http://kmitonline.com/student/dashboard.php) / Quiz

Started on	Tuesday, 16 September 2025, 12:27 PM
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Time taken	3 mins 28 secs
Marks	3.00/3.00
Grade	10.00 out of 10.00 (100 %)

Grade 10.00 out of 10.00 (**100**%)

Question

1

Complete

Mark 1.00 out of 1.00

A company is deploying a new application on AWS. The architecture has three different storage

requirements:

- 1. The application's relational database needs low-latency block storage that persists even if the EC2 instance is stopped.
- 2. The application servers (multiple EC2 instances in an Auto Scaling Group) must share access to the same files (images, configs) with POSIX file system semantics.
- 3. The company also needs a place to store backups, logs, and large media files that should be durable, cost-effective, and accessible from anywhere over the internet.

Which combination of AWS storage services best fits these requirements?

Select one:

- a. EFS for the database, S3 for shared files, EBS for backups/logs/media
- b. EBS for the database, EFS for shared files, S3 for backups/logs/media
- c. Use only S3 for all three use cases since it is scalable and durable
- d. S3 for the database, EBS for shared files, EFS for backups/logs/media

Question

2

Complete

Mark 1.00 out of 1.00

A company is building a cloud-native application on AWS with the following requirements:

- 1. The application will consist of 10+ microservices, each packaged as a Docker container.
- 2. Developers want to use service mesh features (like Istio) for advanced traffic routing, observability, and security.
- 3. The company plans to remain cloud-agnostic, since some workloads may later move to Azure or on-prem Kubernetes clusters.
- 4. The team prefers managed control plane services to reduce operational overhead.

Which AWS service is the best fit for orchestrating these containers?

Select one:

- a.ECS on Fargate fully managed, simple container orchestration
- b.EKS (Elastic Kubernetes Service) managed Kubernetes with AWS integration
- C.
 AWS Lambda serverless, event-driven compute
- d.ECS on EC2 managed container orchestration on self-managed EC2 cluster

Question **3**

Complete

Mark 1.00 out of 1.00

A startup is deploying their web application. The requirements are:

- 1. The frontend is a React single-page app (SPA) that must be served quickly worldwide.
- 2. The backend is a Node.js API running on port 5000.
- 3. The app must support high traffic spikes, and requests should be load balanced across multiple backend servers.
- 4. The team wants to offload SSL/TLS termination to avoid configuring certificates on each backend server.

Which Nginx configuration role best satisfies all these requirements?

Select one:

a.
 Use Nginx as a reverse proxy + load balancer + SSL terminator in front of the Node.js backend and as a static server for the React app

- b. Use Nginx only as a caching layer for the Node.js API responses
- Deploy Node.js directly with no Nginx, since Node can serve both API and frontend files
- **d.** Use Nginx only as a static file server for the React app