**Cloud Computing Assignment Short Review of AWS Components**

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1. **Users:**
   * Represents the individuals utilizing the application.
2. **Web UI Component:**
   * The user interface of the web application.
3. **Amazon DynamoDB:**
   * A NoSQL database service provided by AWS.
4. **Settings Table:**
   * A DynamoDB table used to store application settings.
5. **Amazon Cognito:**
   * A user identity and access management service.
6. **Amplify:**
   * A platform for constructing secure, scalable mobile and web applications.
7. **Amazon CloudFront:**
   * A rapid content delivery network service.
8. **Amazon S3 bucket (WebUIBucket):**
   * A storage service for storing user interface assets.
9. **Storage Management Component:**
   * Manages the storage aspects of the application.
10. **Amazon S3 bucket (AmplifyStorageBucket):**
    * A storage bucket dedicated to Amplify.
11. **AWS Lambda:**
    * A serverless compute service enabling code execution without server management.
12. **Settings Function:**
    * A Lambda function responsible for managing application settings.
13. **Client API:**
    * The API used by the client-side of the application.
14. **Amazon API Gateway:**
    * A fully managed service for creating, publishing, maintaining, monitoring, and securing APIs.
15. **ServiceGremlin API:**
    * A specific API used within the service.
16. **AWS AppSync:**
    * A fully managed service simplifying the development of GraphQL APIs.
17. **AWS SDK:**
    * A software development kit for building applications utilizing AWS services.
18. **AWS Config:**
    * A service for assessing, auditing, and evaluating AWS resource configurations.
19. **Cost Component:**
    * Represents the cost management aspect of the application.
20. **Cost Function:**
    * A Lambda function dedicated to calculating and managing application costs.
21. **VPC:**
    * A virtual private cloud for launching AWS resources in a logically isolated virtual network.
22. **Private Subnet:**
    * A subnet within the VPC not exposed to the internet.
23. **Data Component:**
    * Represents the data management aspect of the application.
24. **Amazon Athena:**
    * An interactive query service for analyzing data in Amazon S3 using standard SQL.
25. **AWS Lambda (Gremlin Function):**
    * A Lambda function utilized for data processing.
26. **AWS Lambda (Search Function):**
    * A Lambda function dedicated to searching data.
27. **Discovery Component:**
    * Represents the data discovery aspect of the application.
28. **AWS Fargate:**
    * A serverless compute engine for containers compatible with Amazon ECS and Amazon EKS.
29. **Amazon S3 bucket (CURBucket):**
    * A storage bucket for AWS Cost and Usage Reports.
30. **Amazon Neptune:**
    * A fast, reliable, fully managed graph database service.
31. **Amazon OpenSearch Service:**
    * A fully managed service facilitating the deployment, security, and cost-effective operation of OpenSearch at scale.
32. **Amazon Elastic Container Service:**
    * A highly scalable, high-performance container management service.
33. **Amazon Elastic Container Registry:**
    * A fully managed container registry simplifying storage, management, and deployment of Docker container images.
34. **AWS Cost & Usage Report (CUR):**
    * A report containing detailed cost and usage data for the AWS account.
35. **Amazon S3 bucket (AthenaResults Bucket):**
    * A storage bucket for Athena query results.
36. **Image Deployment Component:**
    * Represents the image deployment aspect of the application.
37. **Amazon S3 bucket (DiscoveryBucket):**
    * A storage bucket for discovery data.
38. **AWS CodePipeline:**
    * A fully managed continuous delivery service automating the software release process.
39. **AWS CodeBuild:**
    * A fully managed continuous integration service compiling source code, running tests, and producing software packages.
40. **Container Image:**
    * A packaged version of an application containing all necessary code, libraries, and dependencies.

Top of Form