AWS Cloud Practitioner Exam

This guide is made in preparation for the AWS Cloud Practitioner Certification.

- Exam Information
- Appendix

Exam Information

- Time : **90 minutes**
- Format: 65 multiple choice/multiple answer questions
- Cost: $100 USD

Appendix

Technologies

- APIs
- Cost Explorer
- AWS Cost and Usage Report
- AWS Command Line Interface
- Elastic Load Balancers
- Amazon EC2 instance types (reserved, on-demand, spot)
- AWS global infrastructure
- Infrastructure as a Code
- Amazon Machine Images
- AWS Management Console
- AWS Marketplace
- AWS Professional Services
- AWS Personal Health Dashboard
- Security groups
- AWS Service Catalog
- AWS Service Health Dashboard
- Service quotas
- AWS software development kits (SDKs)
- AWS Support Center
- AWS Support Tiers
- Virtual private networks (VPNs)

AWS services and features

Analytics:

- Amazon Athena
  - serverless, interactive query service to query data and analyze big data in Amazon S3 using standard SQL
- Amazon Kinesis
  - enables you to ingest, buffer, and process streaming data in real-time, so you can derive insights in seconds or minutes
- Amazon QuickSight

Application Integration:

- Amazon SNS
- Amazon SQS

Compute and Serverless

- AWS Batch
  - eliminates the need to operate third-party commercial or open source batch processing solutions
- Amazon EC2
- AWS Elastic Beanstalk
- AWS Lambda
- Amazon Lightsail
- Amazon Workspaces

Containers:

- Amazon ECS
- Amazon EKS
- AWS Fargate
  - a serverless, pay-as-you-go compute engine that lets you focus on building applications without managing servers

Database:

- Amazon Aurora
- Amazon DynamoDB
- Amazon ElasticCache
- Amazon RDS
- Amazon RedShift

Developer Tools:

- AWS CodeBuild
- AWS CodeCommit
- AWS CodeDeploy
- AWS CodePipeline
- AWS CodeStar

Customer Engagement:

- Amazon Connect
  - provides a seamless omnichannel experience through a single unified contact center for voice, chat, and task management

Management, Monitoring and Governance:

- AWS Auto Scaling
- AWS Budgets
- AWS CloudFormation
- AWS CloudTrail
- Amazon CloudWatch
- AWS Config
- AWS Cost and Usage Report
- Amazon EventBridge (Amazon CloudWatch Events)
- AWS License Manager
- AWS Managed Services
- AWS Organizations
- AWS Secrets Manager
- AWS Systems Manager
- AWS Systems Manager Parameter Store
- AWS Trusted Advisor

Networking and Content Delivery:

- Amazon API Gateway
- Amazon CloudFront
- AWS Direct Connect
- Amazon Route 53
- Amazon VPC

Security, Identity and Compliance:

- AWS Artifact
  - go-to, central resource for compliance-related information
  - on-demand access to AWS' security and compliance reports and select online agreements
  - include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls
- AWS Certificate Manager (ACM)
- AWS CloudHSM
  - cloud-based hardware security module (HSM) that enables you to easily generate and use your own encryption keys on the AWS Cloud
- Amazon Cognito
  - allows client devices access to AWS resources for mobile applications
- Amazon Detective
- Amazon GuardDuty
  - threat detection service that continuously monitors for malicious activity and unauthorized behavior to protect your AWS accounts
- AWS Identity and Access Management (IAM)
- Amazon License Manager
- Amazon Macie
- AWS Shield
  - managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS
- AWS WAF

Storage:

- AWS Backup
- Amazon EBS
- Amazon EFS
- Amazon S3
- Amazon S3 Glacier
- AWS Snowball Edge
- AWS Storage Gateway

Others:

- AWS Polly
  - turns text into lifelike speech, allowing you to create applications that talk, and build entirely new categories of speech-enabled products
- AWS Chime
  - communications service that lets you meet, chat, and place business calls inside and outside your organization, all using a single application
- AWS Glue
  - managed ETL Service

Loose Coupling

- a coupling technique in which two or more hardware and software components are attached or linked together to provide two services that are not dependent on one another
- The development team can modify the underlying implementation without affecting other components of the application.

Simple Workflow Service

- makes it easy to build applications that coordinate work across distributed components

Amazon AppStream

- fully managed non-persistent desktop and application virtualization service that allows your users to securely access the data, applications, and resources they need, anywhere, anytime, from any supported device

AWS Serverless Application Repository

- is a managed repository for serverless applications

AWS Inspector

- an automated security assessment service that helps improve the security and compliance of applications deployed on AWS

AWS Application Discovery Service

- helps enterprise customers plan migration projects by gathering information about their on-premises data centers

AWS OpsWorks

- a configuration management service that provides managed instances of Chef and Puppet