

AWS Certified Solutions Architect – Professional





Module 1: Overview of AWS Essentials

0	AWS Essentials
	AWS Accounts Regions, AZs, and Edge Infrastructure.
	High Availability, Fault Tolerance, and Disaster
	Recovery.
	Disaster Recovery: RPO and RTO.
	Data Persistence.
	The OSI 7-Laver Networking Model.

Accounts

O	Section Introduction
	Accounts Introduction.
O	AWS Identity Basics
	IAM Overview Identity and Resource Policies IAM Roles and Temporary Security Credentials Cross-Account Access: Resource Permissions vs. Cross-Account Roles Accessing S3 with AWS IAM Roles

0	Account Management
	AWS Accounts and AWS Organizations
	Service Control Policies
	AWS Account Limits
	AWS Support Tiers
	AWS Config
	AWS Service Catalog
0	Cost and Cost Optimization
	Resource Billing Modes: On-Demand, Reserved, and Spot
0	Advanced Identity in AWS
	Identity Federation
	IAM Permissions Boundaries
	Policy Evaluation Logic
	orking in AWS: Virtual Private ls (VPCs)
0	VPC Essentials
	VPC Basics
	AWS Resource Access Manager (RAM)
	VPC Routing
	Network Access Control Lists (NACLs)
	Security Groups (SGs)
	Public vs. Private Subnets, Internet Gateways, and
	IP Addressing
	Egress-Only Gateways
	DNS in a VPC
	VPC Flow Logs

	Advanced and Hybrid VPC Networking
	Using VPC Endpoints Peering VPCs AWS Site-to-Site VPN AWS Direct Connect Architecture AWS Transit Gateway
Sec	urity
¢	Account and Service Security
	AWS Key Management Service (KMS AWS CloudHSM AWS Certificate Manager (ACM) AWS Directory Service
C	Network Security
	AWS WAF and Shield AWS GuardDuty
Cor	npute
	Elastic Compute Cloud (EC2)
	EC2 Concepts Creating and Using AMIs Virtualization and EC2 Instance Type: Deep Dive EC2 Storage and Snapshots EC2 Instance Profiles and Roles HPC and Placement Groups Custom Logging to CloudWatch

Containers Containers ECS Architecture ECS Security Serverless Serverless and Event-Driven Architecture Lambda Architecture Lambda Layers API Gateway Scaling and Resilience Scaling Architectures

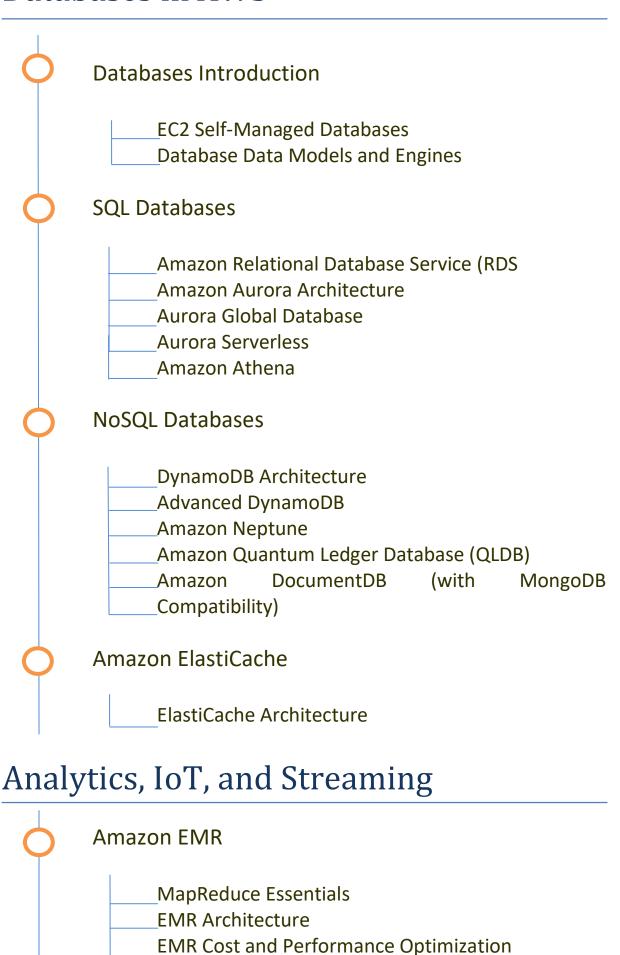
AWS Service Resilience Stateless Architectures Deciding between Spot and Reserved Instances Implementing Auto Scaling Groups (ASGs) Multi-AZ Implementations Elastic Load Balancers - Essentials Elastic Load Balancers - Classic Load Balancers Elastic Load Balancers - Application Load Balancers Elastic Load Balancers - Network Load Balancers

CloudFront Essentials

CloudFront Architecture
Creating and Working with Distributions
Working with Custom Origins
CloudFront and Security
Optimizing Caching
Lambda@Edge
Logging, Reporting, and Monitoring

0	Amazon Route 53 (R53)
	Route 53 Architecture Advanced Route 53 Concepts
Stora	age
0	Object Storage: Amazon Simple Storage Service (S3)
	IntroductionS3 ArchitectureS3 Storage Tiers, Intelligent-Tiering, and LifecyclePoliciesVersioning and LockingControlling Access to S3 BucketsCross-Region ReplicationObject EncryptionOptimizing S3 PerformanceGlacier Architecture
0	Amazon Elastic File System (EFS)
	EFS Architecture
0	Amazon FSx
	FSx Architecture
0	AWS Storage Gateway
	File Gateways vs. Volume Gateways vs. Tape Gateway

Databases in AWS



C	Amazon Kinesis
	What Is Kinesis?
	Data Firehose
	Data Analytics in Kinesis
C	AWS Redshift
	Redshift Architecture
	Disaster Recovery in Redshift
¢	AWS IoT Platform
	AWS IoT Architecture
	Amazon QuickSight
	QuickSight Basics
C	Search and Analytics Engines
	Elasticsearch
Dei	ployment and Operations
C	Monitoring Your AWS Account
	AVVC ClaudWatah
	AWS CloudWatch CloudWatch Logs
	AWS CloudTrail
	Route 53 Logging
	S3 Logging
C	AWS Systems Manager
	Systems Management with AWS Systems Manager
	Parameter Store

	>	AWS CloudFormation
		CloudFormation Overview Stack Updates Template Portability and Reuse Stack References and Nested Stacks Stack Roles StackSets Using CloudFormation for Disaster Recovery Custom Resources
(AWS Elastic Beanstalk
		Elastic Beanstalk Architecture
(AWS OpsWorks
		OpsWorks Architecture
Mi	igra	tions and Hybrid Architectures
		AWS Data Pipeline
		Data Pipeline Essentials
		AWS Migration Services
		AWS Snow*
		Migrating Data to AWS with Snowball and Snowmobile
Ap	pli	cation Integration
	5	Simple Queue Service (SQS)
		SQS Architecture

0	Simple Notification Service (SNS)
	Using SNS within AWS Architectures
0	Amazon MQ
	Amazon MQ Essentials
	Workflow Orchestration
	Step Functions and Simple Workflow Service
Cou	rse Conclusion
0	Final Steps
	How to Prepare for the Exam
0	Final Exam
	AWS Certified Solutions Architect - Professional (SAP-C01)

DURATION: -40 HRS

Key Features

- Real TimeProjects
- ExamPreparation
- MockTest
- > Job Assistance
- TrainingMaterial
- LabVideos
- ➤ Mock test forCertification
- ResumeUpdating
- ➤ InterviewPreparation

WHO SHOULD ATTEND

Azure Stack is an extension of Azure, bringing the agility and fast-paced innovation of cloud computing to onpremises environments.

PREREQUISITES

A basic knowledge of windows administration and networking knowledge.