



AWS Solutions Architect – Associate

(SAA-C03)

Build Scalable, Secure & High-Availability
Cloud Architectures

Industry-Oriented Professional Training Program



DURATION

2 Months



LEVEL

Beginner to
Professional



MODE

Online Live +
Recorded Sessions



CERTIFICATE

SkillPetals Course
Completion Certificate



01

Module 1: Foundations of AWS Cloud

Learning Objectives

Understand cloud computing concepts and AWS global infrastructure. Learn to create an AWS account, navigate the AWS Management Console, and manage billing and budgets effectively.



Topics Covered

- ✓ Cloud Computing – IaaS, SaaS, PaaS
- ✓ Overview of AWS Cloud
- ✓ AWS Global Infrastructure
- ✓ AWS Account Creation
- ✓ AWS Management Console
- ✓ AWS Region & Availability Zone (AZ)
- ✓ AWS Payment Method
- ✓ Setting up Billing/Budget Alarm



02

Module 2: Identity & Access Management (IAM)

Learning Objectives

Learn how IAM helps in securely managing users, groups, roles, policies, and permissions. Explore authentication methods including MFA and best practices for secure access.



Topics Covered

- ✓ Identity and Access Management (IAM)
- ✓ Create IAM Users & Group
- ✓ Applying Policies/Permissions to User/Groups
- ✓ IAM Users Sign-in Link
- ✓ Activate Virtual Multi-Factor Authentication (MFA)
- ✓ IAM Roles
- ✓ Best Practices for Access Management
- ✓ IAM Security Tools

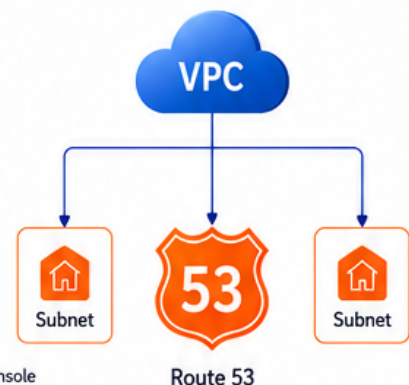


03

Module 3: AWS Networking Essentials

Learning Objectives

Understand AWS networking fundamentals. Learn to build VPCs, configure subnets, routing, gateways, and DNS using Route 53 for scalable and secure network architectures.



Topics Covered

- ✓ Basic of Networking
- ✓ CIDR/IP Range & Subnets
- ✓ Virtual Private Cloud (VPC)
- ✓ Understanding & Working on Default VPC
- ✓ Creating Custom VPC using AWS Console
- ✓ Adding CIDR in VPC
- ✓ Creating Subnet in VPC using AWS Console
- ✓ Understanding Route 53





04

Module 4: Amazon EC2 & Compute

Learning Objectives

Learn how to launch and manage Amazon EC2 instances, choose the right instance types, configure storage options, and follow best practices for performance, security, and cost optimization.



Topics Covered

- ✓ Amazon EC2 Overview
- ✓ Instance Types & Purchasing Options
- ✓ EC2 Key Pairs
- ✓ Security Groups
- ✓ Elastic IP Addresses
- ✓ EBS Volumes
- ✓ Snapshots & AMIs
- ✓ Placement Groups
- ✓ Monitoring EC2 Instances
- ✓ Best Practices for EC2



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Module 5: Storage & Data Management

Learning Objectives

Understand AWS storage services and how to store, retrieve, and protect data with durability, scalability, and cost-effective solutions for various use cases.



Topics Covered

- ✓ Amazon S3 Overview
- ✓ S3 Storage Classes
- ✓ S3 Buckets & Objects
- ✓ Versioning in S3
- ✓ Lifecycle Policies
- ✓ Amazon FSx Overview
- ✓ Elastic File System (EFS)
- ✓ S3 Security & Encryption
- ✓ Cross-Region Replication
- ✓ Best Practices for Storage



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Module 6: Cloud Security & Governance

Learning Objectives

Learn how AWS security services help you protect your cloud resources and data. Understand identity management, threat detection, compliance, and governance best practices.



Topics Covered

- ✓ AWS Shared Responsibility Model
- ✓ IAM Best Practices
- ✓ AWS KMS (Key Management Service)
- ✓ AWS CloudTrail
- ✓ Amazon GuardDuty
- ✓ AWS Config
- ✓ AWS Security Hub
- ✓ VPC Security Best Practices
- ✓ Data Protection Strategies
- ✓ Compliance & Governance



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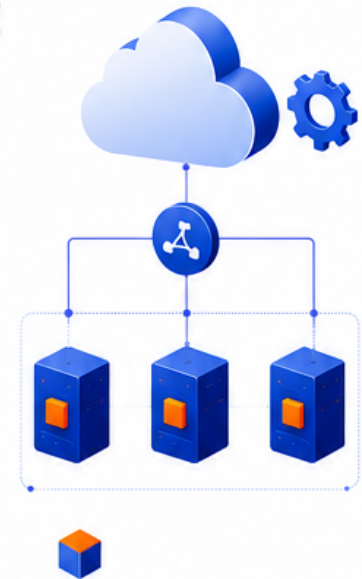
Module 7: High Availability & Auto Scaling

Learning Objectives

Learn how to design highly available, fault-tolerant, and scalable applications on AWS using Elastic Load Balancing, Auto Scaling, and other AWS services.

Topics Covered

- ✓ High Availability Concepts
- ✓ Elastic Load Balancing (ELB)
- ✓ Auto Scaling Groups
- ✓ Health Checks
- ✓ Scaling Policies
- ✓ Multi-AZ Deployments
- ✓ AWS Elastic Beanstalk Overview
- ✓ Amazon CloudWatch Alarms
- ✓ Best Practices for High Availability
- ✓ Cost Optimization Strategies



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Module 8: Serverless Architecture & Monitoring

Learning Objectives

Explore serverless computing on AWS and learn how to monitor and log your applications effectively for performance and operational excellence.

Topics Covered

- ✓ AWS Lambda Overview
- ✓ Lambda Use Cases
- ✓ Lambda Functions & Triggers
- ✓ AWS API Gateway
- ✓ Notification Services
- ✓ Amazon CloudWatch Metrics
- ✓ CloudWatch Logs
- ✓ Alarms & Dashboards
- ✓ AWS X-Ray Overview
- ✓ Best Practices for Monitoring



09

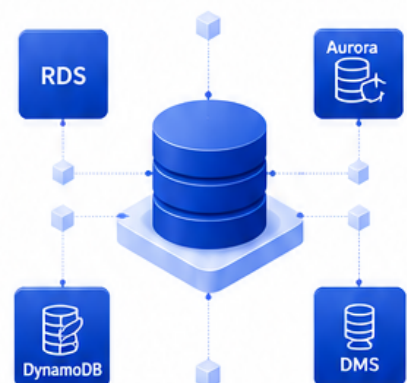
Module 9: Databases & Data Migration

Learning Objectives

Learn about AWS database services and data migration strategies to build scalable, secure, and highly available data solutions.

Topics Covered

- ✓ Amazon RDS Overview
- ✓ RDS Engine Options
- ✓ Amazon Aurora Overview
- ✓ DynamoDB Overview
- ✓ Amazon ElastiCache Overview
- ✓ Database Security Best Practices
- ✓ Backup & Restore Strategies
- ✓ AWS Database Migration Service (DMS)
- ✓ S3 Data Migration
- ✓ Best Practices for Databases





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Module 10: Storage & Backup Essentials

Learning Objectives

Understand AWS block storage and backup solutions to protect data, ensure high availability, and support disaster recovery.



Topics Covered

- ✓ Amazon EBS Overview
- ✓ EBS Volume Types
- ✓ EBS Snapshots
- ✓ Amazon Machine Images (AMI)
- ✓ Creating Custom AMIs
- ✓ Backup & Restore
- ✓ Volume Attach/Detach
- ✓ Volume Resize
- ✓ Snapshot Management
- ✓ Storage Best Practices



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Module 11: AWS Monitoring & Application Integration

Learning Objectives

Learn how to integrate, monitor, and manage applications and infrastructure using key AWS integration and monitoring services.



Topics Covered

- ✓ Amazon SNS
- ✓ Amazon SQS
- ✓ Amazon CloudFront
- ✓ CloudFront Distributions
- ✓ Amazon CloudWatch
- ✓ CloudWatch Alarms
- ✓ AWS CloudTrail
- ✓ AWS CloudFormation
- ✓ Stack Basics
- ✓ Monitoring Best Practices





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Become a Job-Ready Cloud Professional



What You'll Gain

- ✓ Hands-on Labs
- ✓ Real Projects
- ✓ AWS Console Practice
- ✓ Architecture Design
- ✓ Interview Preparation
- ✓ Certificate of Completion



Career Opportunities

- ✓ Cloud Engineer
- ✓ Solutions Architect
- ✓ DevOps Engineer
- ✓ Cloud Administrator
- ✓ AWS Consultant
- ✓ Infrastructure Engineer



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