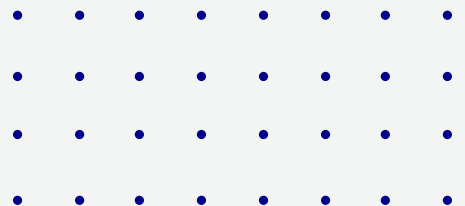
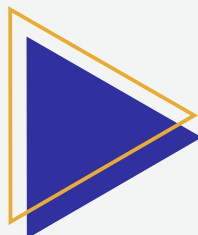


# AWS SOLUTION ARCHITECT CERTIFICATION TRAINING





## Lesson 01

### Course Introduction

- 1.01 Introduction to AWS
- 1.02 Course Components and Exam Format

## Lesson 02

### AWS Core Concepts

- 2.01 Overview of AWS
- 2.02 AWS Infrastructure: Part 1
- 2.03 AWS Infrastructure: Part 2
- 2.04 AWS Infrastructure: Part 3
- 2.05 AWS Infrastructure: Part 4
- 2.06 Overview of AWS Core Services
- 2.07 Amazon EC2
- 2.08 EKS
- 2.09 Lightsail
- 2.10 AWS Batch
- 2.11 Elastic Beanstalk
- 2.12 AWS Fargate
- 2.13 AWS Lambda
- 2.14 SAR Serverless Application Repository
- 2.15 Storage Service
- 2.16 S3 Simple Storage Service
- 2.17 EFS – Elastic File System
- 2.18 EBS – Elastic Block Storage
- 2.19 AWS Backup
- 2.20 Storage Gateway
- 2.21 Data Sync
- 2.22 AWS Transfer Family
- 2.23 AWS Snow Family
- 2.24 Database Services
- 2.25 RDS – Relational Database Services
- 2.26 Amazon Redshift
- 2.27 DynamoDB
- 2.28 ElastiCache
- 2.29 DocumentDB
- 2.30 Neptune
- 2.31 QLDB – Quantum Ledger Database
- 2.32 AWS Account Set Up
- 2.33 AWS Free Tier
- 2.34 Introduction to AWS Management Console
- 2.35 AWS Billing
- 2.36 AWS Support
- 2.37 Billing Alerts
- 2.38 Delegate Access
- 2.39 Delegate Access Using IAM Roles
- 2.40 AWS Identity and Access Management IAM

- 2.41 IAM Features
- 2.42 Accessing IAM
- 2.43 Working of IAM
- 2.44 IAM Users
- 2.45 AWS Command Line Interface AWS CLI
- 2.46 Key Takeaways

## Lesson 03

### Compute and Related Features

- 3.01 Learning Objective
- 3.03 Placement Group
- 3.04 Cluster Placement Groups
- 3.05 Spread Placement Groups
- 3.06 EC2 Instance Metadata
- 3.09 EC2
- 3.10 Spot Instance Interruptions
- 3.11 Reasons for Interruption
- 3.12 Hibernation for EC2 Instances
- 3.14 EBS
- 3.15 Amazon EBS vs. Instance Store
- 3.16 EBS Security
- 3.17 Amazon Elastic Load Balancing
- 3.18 What is AWS Lambda?
- 3.24 ELB Logs
- 3.25 Auto Scaling
- 3.28 Key Takeaways

## Lesson 04

### Storage Services

- 4.01 Learning Objective
- 4.02 Introduction to Amazon S3
- 4.03 Components of Amazon S3
- 4.04 Amazon S3 Storage Classes: Part 1
- 4.05 Amazon S3 Storage Classes: Part 2
- 4.07 Version Control in Amazon S3: Part 1
- 4.08 Version Control in Amazon S3: Part 2
- 4.10 S3 Lifecycle Management
- 4.13 Access Controls
- 4.14 Amazon S3 Replication
- 4.16 Performance Guidance for S3 File Gateway
- 4.17 Storage Gateway: Part 1
- 4.18 Storage Gateway: Part 2
- 4.19 S3 Encryption: Part 1
- 4.20 S3 Encryption: Part 2
- 4.22 Elastic File System
- 4.23 Amazon FSx
- 4.26 Unauthorized Link Access
- 4.27 AWS Glue Data
- 4.29 Amazon Athena
- 4.31 Key Takeaways

## Lesson 05

### VPC Networking and Content Delivery

- 5.01 Learning Objectives
- 5.02 Firewall Security Group
- 5.03 Firewall Network ACL (NACL)
- 5.04 IP Addresses
- 5.08 VPC Flow Sequence of Steps: Part 1
- 5.09 VPC Flow Sequence of Steps: Part 2
- 5.11 Internet Gateways
- 5.12 Interface Endpoint
- 5.13 Gateway Endpoints, Peering Connection, and Transit Gateway
- 5.15 Default VPC, Flow Log, Resource Access Manager, and NAT source.
- 5.18 Private Link and Bastion Host
- 5.19 AWS Systems Manager
- 5.20 VPN: Part 1
- 5.21 VPN: Part 2
- 5.22 Direct Connect
- 5.23 Direct Connect Costs
- 5.24 CloudFront
- 5.25 Lambda Edge
- 5.26 CloudFront Security
- 5.30 Amazon Global Accelerator
- 5.31 AWS Global Audience
- 5.33 Route 53
- 5.34 Introduction to DNS
- 5.35 Route 53 Policies
- 5.36 Route 53 Health Checks and Best Practices
- 5.37 Route 53 Limitations and Prices
- 5.38 Key Takeaways

## Lesson 06

### Databases

- 6.01 Learning Objectives
- 6.02 Introduction to Databases
- 6.03 Introduction to Relational Database Service (RDS)
- 6.04 RDS: Part 1
- 6.05 RDS: Part 2
- 6.06 Read Replicas and RDS Costs
- 6.07 Introduction to Amazon Aurora
- 6.08 Aurora DB Cluster Types and Aurora Serverless
- 6.09 Aurora Multi Master and Costs
- 6.10 Introduction to Amazon DynamoDB
- 6.11 Global Tables Read and Write Operations

- 6.12 Global and Local Secondary Indexes
- 6.13 Amazon DynamoDB: Benefits, Case Study, and Costs
- 6.14 Amazon DynamoDB: Features
- 6.15 Apache Cassandra and Amazon DocumentDB
- 6.16 Introduction to Amazon ElastiCache
- 6.17 Amazon ElastiCache for Redis and Memcached
- 6.18 Amazon Redshift
- 6.23 Key Takeaways

## Lesson 07

### Security and IAM

- 7.01 Learning Objectives
- 7.02 Responsibility Models in AWS
- 7.03 Federation
- 7.04 Security is Job Zero–AWS Security Process
- 7.05 AWS IAM
- 7.06 What is IAM Policy?
- 7.07 Inline Policy
- 7.08 Amazon Resource Naming (ARN)
- 7.09 AWS Service Principal
- 7.10 Principle
- 7.11 Resources
- 7.12 Conditional Access
- 7.13 Implicit Deny
- 7.14 Permission Boundary
- 7.15 IAM Roles
- 7.16 Cross Account Policy
- 7.17 The Confused Deputy
- 7.18 AWS Cognito
- 7.19 Cloud Tower
- 7.26 Cloud Security
- 7.27 WAF
- 7.29 Shield
- 7.30 Benefits of AWS Shield
- 7.31 Secrets Manager
- 7.32 Secrets Manager Administrator Permissions
- 7.33 Secrets Manager Concepts
- 7.34 Systems Manager
- 7.35 AWS Config
- 7.37 AWS Inspector Trusted Advisor
- 7.38 AWS Inspector: Access
- 7.39 Trusted Advisor
- 7.42 GuardDuty
- 7.43 GuardDuty Managing Findings from Multiple Accounts

- 7.44 Available Regions
- 7.45 Macie
- 7.46 Other Security Services
- 7.47 Setting Up Integration with AWS Security Hub
- 7.48 Detective
- 7.49 IAM Access Analyzer
- 7.50 Patch Manager
- 7.51 Key Takeaways

## Lesson 08

### Serverless and Application Services

- 8.01 Learning Objectives
- 8.02 Lambda: Part 1
- 8.03 Lambda: Part 2
- 8.06 API Gateway
- 8.08 SQS Introduction
- 8.09 SQS Security and Performance
- 8.12 SNS
- 8.13 EventBridge
- 8.15 Kinesis: Part 1
- 8.16 Kinesis: Part 2
- 8.19 Key Takeaways

## Lesson 09

### Monitoring and Automation

- 9.01 Learning Objectives
- 9.02 CloudWatch
- 9.03 CloudWatch Metrics
- 9.04 CloudWatch Alarms
- 9.05 CloudWatch Logs
- 9.08 Introduction to CloudFormation and Concepts
- 9.09 Types of Templates
- 9.10 Condition Section
- 9.16 Intrinsic Functions and Pseudo Parameters
- 9.19 CloudFormation Best practice
- 9.20 Key Takeaways

## Lesson 09

### Container Service

- 10.01 Learning Objectives
- 10.02 Containers and Container Orchestration
- 10.03 Amazon Elastic Container Registry (ECR)
- 10.04 Amazon Elastic Container Service (ECS)
- 10.05 ECS Launch Types and Use Cases
- 10.06 Dynamic Port Mapping
- 10.11 AWS Fargate
- 10.14 Key Takeaways

## Industry Project

### Project 1

#### Custom VPC Creation

Create a custom VPC with public and private subnets on two availability zones and launch instances into each subnet.

### Project 2

#### Load balancer Configuration

Launch two web servers and configure a load balancer and auto-scaling.

### Project 3

#### RD Gateway Configuration

Configure RD Gateway on a VPC with a public and private subnet.



# About Edu Eyrie India

## Mission:

Edu Eyrie India is driven by a mission to provide quality education and skill development to empower individuals for success in their professional journeys.

## Expert Faculty:

Our institution boasts a team of expert instructors who bring industry experience and knowledge to the forefront of our educational programs.

## Holistic Learning:

We believe in providing a holistic learning experience, combining technical expertise with soft skill development for well-rounded professionals.

## Cutting-edge Curriculum:

Our courses feature cutting-edge curriculum, keeping pace with industry trends and technological advancements.

## Innovative Teaching Methods:

Edu Eyrie India employs innovative teaching methods, incorporating practical exercises, projects, and real-world applications to enhance learning outcomes.

