AWS CERTIFIED SOLUTIONS ARCHITECT TRAINING

COURSE HIGHLIGHTS

Gain expertise in AWS Elastic Cloud Compute (EC2)

Simple Storage Service (S3)

Virtual Private Cloud (VPC)

Relational Database Service (RDS)

Route 53 (DNS Service)

Load Balancer with Auto Scaling

AWS Identity and Access Management (IAM)

Elastic Block Store (EBS)
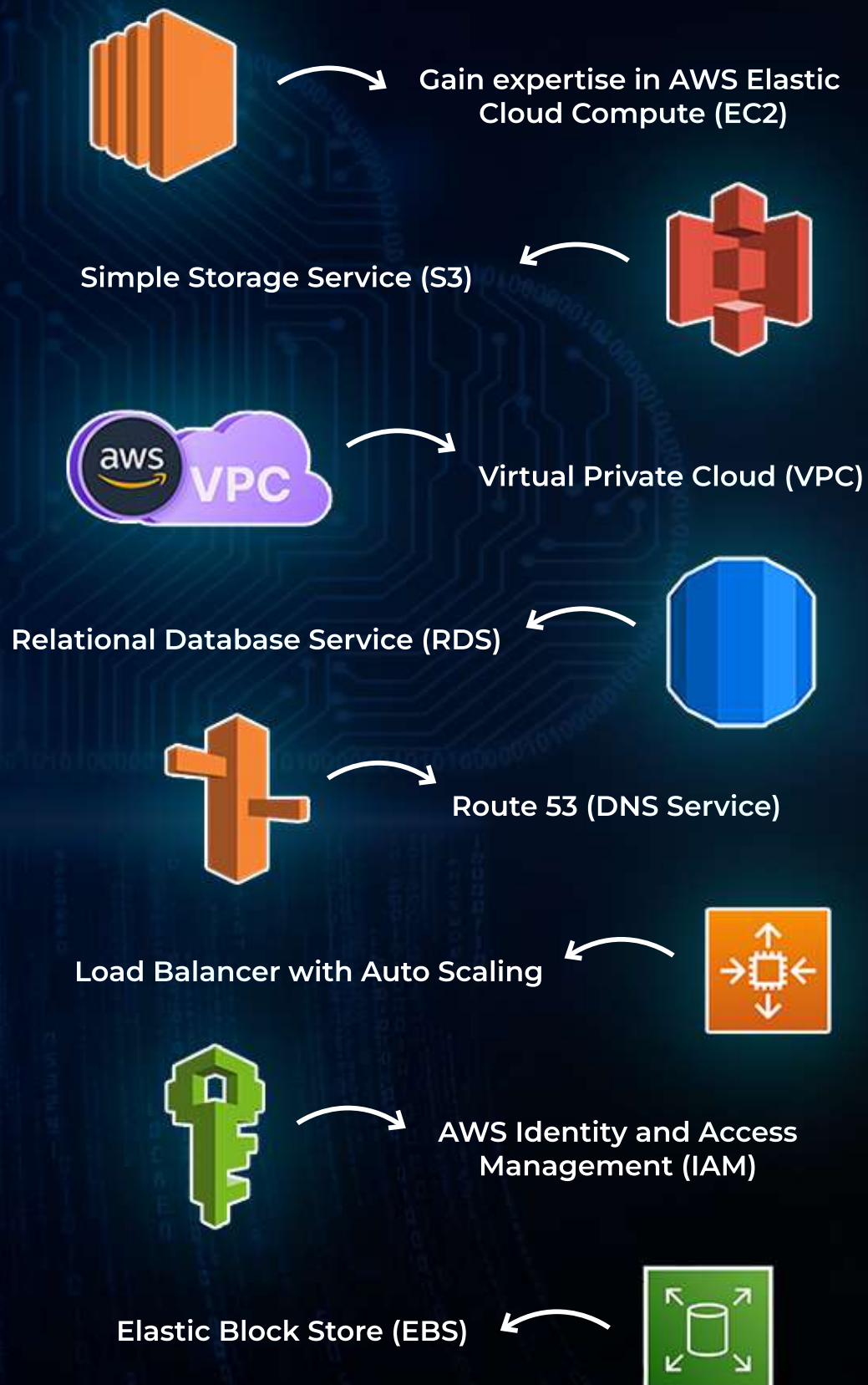
INTRODUCTION TO AWS & CLOUD COMPUTING

➤ Basics of Cloud Computing
➤ AWS Global Infrastructure (Regions, Availability
  Zones, Edge Locations)
➤ Shared Responsibility Model
➤ AWS Free Tier & Pricing Model

AWS IDENTITY AND ACCESS MANAGEMENT (IAM)

➤ Users, Groups, Roles, and Policies
➤ IAM Permissions and Policies (JSON format)
➤ IAM Best Practices
➤ Multi-Factor Authentication (MFA)

AWS COMPUTE SERVICES

➤ Amazon EC2 (Elastic Compute Cloud)
➤ Instance Types, Purchasing Options (On-Demand, Reserved,
➤ Spot, Savings Plans)
➤ EC2Auto Scaling & Load Balancing (ELB)
➤ EC2 Security (Key Pairs, Security Groups, IAM Roles)
➤ AWS Lambda
➤ Serverless Compute Concepts
➤ Triggers and Integrations
➤ Amazon ECS & EKS
➤ Containers on AWS
➤ Docker & Kubernetes Basics
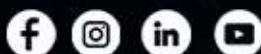
AWS STORAGE SERVICES

➤ Amazon S3 (Simple Storage Service)
➤ Storage Classes (Standard, IA, Glacier)
➤ S3 Lifecycle Policies, Versioning, Encryption
➤ S3 Security & Access Control (Bucket Policies, ACLs)
➤ Amazon EBS (Elastic Block Store)
➤ Volume Types, Snapshots, Encryption
➤ Amazon EFS (Elastic File System)
➤ File Storage for EC2
➤ AWS Storage Gateway & AWS Backup

AWS NETWORKING & CONTENT DELIVERY

➤ Amazon VPC (Virtual Private Cloud)
➤ Subnets, Route Tables, Internet/NAT Gateways VPC Peering, Transit Gateway, Private Link
➤ Amazon Route 53
➤ Domain Registration, DNS Routing Policies
➤ AWS CloudFront
➤ CDN for Content Delivery
➤ AWS Direct Connect & VPN

AWS DATABASES

➤ Amazon RDS (Relational Database Service)
➤ Supported Engines (MySQL, PostgreSQL, Aurora, etc.)
➤ Multi-AZ, Read Replicas, Backups
➤ Amazon DynamoDB (NoSQL Database)
➤ Tables, Partitioning, Global Tables
➤ Amazon Redshift (Data Warehouse)
➤ Amazon ElastiCache (Memcached & Redis)

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AWS SECURITY & COMPLIANCE

AWS Security Tools:

➤ AWS WAF (Web Application Firewall)
➤ AWS Shield (DDoS Protection)
➤ AWS Secrets Manager

AWS Audit & Compliance Tools:

➤ AWS Config, AWS CloudTrail
➤ AWS Security Hub

AWS MONITORING & OBSERVABILITY

➤ Amazon CloudWatch
➤ Metrics, Logs, Alarms
   AWS X-Ray
➤ Distributed Tracing
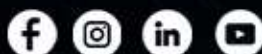➤ AWS Trusted Advisor o Cost Optimization, Performance, Security

AWS HIGH AVAILABILITY & DISASTER RECOVERY

➤ Multi-AZ & Multi-Region Architectures
➤ AWS Backup & Restore Strategies
➤ AWS Fault Tolerance & Elasticity

AWS COST MANAGEMENT & BILLING

➤ AWS Pricing Calculator
➤ AWS Cost Explorer
➤ AWS Budgets

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AWS WELL-ARCHITECTED

Framework

AWS Security Tools:

- Operational Excellence
- Security
- Reliability
- Performance Efficiency
- Cost Optimization

EXAM PREPARATION & PRACTICE TESTS

- Understanding AWS SAA Exam Format
- Practice Questions & Mock Exams
- Review AWS Whitepapers & FAQs

Become a Professional
AWS Certified Solution Architect