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AWS Admin Training Curriculum Online by Certified Consultant

Module 1: Introduction to Cloud Computing

- Cloud Computing Fundamentals
- Evolution of Cloud Computing
- Types of Cloud
- Public Cloud
- Private Cloud
- Hybrid Cloud
- Multi-Cloud
- Cloud Service Models
- IaaS
- PaaS
- SaaS
- Benefits of Cloud Computing
- Shared Responsibility Model
- AWS Global Infrastructure
- Regions
- Availability Zones
- Edge Locations
- AWS Well-Architected Framework

Module 2: AWS Account Management

- AWS Free Tier
- AWS Account Creation
- Root User
- IAM User
- AWS Organizations
- Multi-Account Strategy
- Billing Dashboard
- Cost Explorer
- Budgets
- AWS Pricing Models
- AWS Support Plans
- AWS Management Console
- AWS CLI
- AWS CloudShell



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Module 3: Identity and Access Management (IAM)

- IAM Fundamentals
- Users
- Groups
- Roles
- Policies
- Managed Policies
- Inline Policies
- MFA
- Password Policies
- Access Keys
- Temporary Credentials
- IAM Identity Center (AWS SSO)
- Cross-Account Access
- Least Privilege Principle

Module 4: Amazon EC2 (Elastic Compute Cloud)

- EC2 Fundamentals
- Instance Types
- AMIs
- Launch Templates
- Key Pairs
- Security Groups
- Elastic IP
- Placement Groups
- User Data
- Instance Metadata
- EBS Volumes
- Instance Store
- EC2 Lifecycle
- Spot Instances
- Reserved Instances
- Dedicated Hosts
- EC2 Auto Recovery

Module 5: Amazon VPC (Virtual Private Cloud)



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- VPC Architecture
- CIDR Blocks
- Subnets
- Public Subnet
- Private Subnet
- Route Tables
- Internet Gateway
- NAT Gateway
- NAT Instance
- Security Groups
- Network ACLs
- Elastic Network Interface
- VPC Peering
- Transit Gateway
- VPC Endpoints
- PrivateLink
- Flow Logs

Module 6: Load Balancing

- Elastic Load Balancer (ELB)
- Application Load Balancer (ALB)
- Network Load Balancer (NLB)
- Gateway Load Balancer (GWLB)
- Health Checks
- Target Groups
- SSL Termination
- Sticky Sessions

Module 7: Auto Scaling

- Auto Scaling Groups
- Launch Templates
- Scaling Policies
- Dynamic Scaling
- Predictive Scaling
- Scheduled Scaling
- Lifecycle Hooks

Module 8: Amazon S3



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- S3 Fundamentals
- Buckets
- Objects
- Storage Classes
- Versioning
- Lifecycle Policies
- Replication
- Encryption
- Bucket Policies
- Access Control Lists (ACLs)
- Static Website Hosting
- Event Notifications
- Object Lock

Module 9: AWS Storage Services

- Elastic Block Store (EBS)
- Elastic File System (EFS)
- FSx
- AWS Backup
- Storage Gateway
- Snow Family
- DataSync
- Transfer Family

Module 10: Amazon RDS

- RDS Fundamentals
- Database Engines
- MySQL
- PostgreSQL
- MariaDB
- SQL Server
- Oracle
- Multi-AZ
- Read Replicas
- Automated Backup
- Manual Snapshot
- Performance Insights
- Parameter Groups



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- Option Groups

Module 11: DynamoDB

- NoSQL Concepts
- Tables
- Items
- Partitions
- Primary Keys
- Secondary Indexes
- Global Tables
- DynamoDB Streams
- Backup & Restore
- Auto Scaling

Module 12: DNS and Content Delivery

- Amazon Route 53
- Hosted Zones
- DNS Records
- Routing Policies
- Health Checks
- Amazon CloudFront
- Edge Locations
- CDN Caching
- SSL Certificates (AWS Certificate Manager)

Module 13: Monitoring & Logging

- Amazon CloudWatch
- Metrics
- Alarms
- Dashboards
- Logs
- Log Groups
- Events
- AWS CloudTrail
- AWS Config
- AWS Health Dashboard
- AWS X-Ray (Overview)



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Module 14: Security Services

- AWS KMS
- Secrets Manager
- Systems Manager Parameter Store
- AWS Shield
- AWS WAF
- Amazon GuardDuty
- Amazon Inspector
- AWS Security Hub
- Amazon Macie
- AWS Detective

Module 15: AWS Systems Manager

- Session Manager
- Run Command
- Patch Manager
- Inventory
- State Manager
- Automation Documents
- Parameter Store

Module 16: Backup & Disaster Recovery

- AWS Backup
- Backup Vault
- Backup Plans
- Snapshots
- Cross-Region Backup
- Disaster Recovery Strategies
- Pilot Light
- Warm Standby
- Multi-Site Active/Active
- Recovery Time Objective (RTO)
- Recovery Point Objective (RPO)



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Module 17: Infrastructure as Code (IaC)

- AWS CloudFormation
- Templates
- Parameters
- Outputs
- Nested Stacks
- StackSets
- AWS CDK (Introduction)
- Infrastructure Automation Concepts

Module 18: AWS Networking

- VPN
- Direct Connect
- Transit Gateway
- Hybrid Connectivity
- PrivateLink
- Network Firewall
- Global Accelerator

Module 19: Serverless Computing

- AWS Lambda
- EventBridge
- API Gateway
- Step Functions
- Simple Notification Service (SNS)
- Simple Queue Service (SQS)

Module 20: Containers

- Docker Fundamentals
- Amazon ECS
- Amazon EKS
- AWS Fargate
- Amazon ECR
- Container Networking
- Container Monitoring



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Module 21: DevOps Basics

- Git
- GitHub
- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- CI/CD Concepts
- Blue/Green Deployment
- Rolling Deployment

Module 22: Cost Optimization

- AWS Pricing
- Cost Explorer
- Budgets
- Savings Plans
- Reserved Instances
- Trusted Advisor
- Cost Optimization Best Practices
- Resource Tagging

Module 23: High Availability & Fault Tolerance

- Multi-AZ Architecture
- Cross-Region Replication
- Elastic Load Balancing
- Auto Scaling
- Fault Tolerance Design
- Highly Available Architectures

Module 24: Migration Services

- AWS Application Migration Service (MGN)
- Database Migration Service (DMS)
- Migration Hub



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- Snowball
- DataSync
- Storage Gateway

Module 25: Compliance & Governance

- AWS Organizations
- Organizational Units (OUs)
- Service Control Policies (SCPs)
- AWS Control Tower
- AWS Config Rules
- Resource Tagging
- Audit Preparation

Module 26: Automation & Scripting

- AWS CLI
- Bash Scripting Basics
- PowerShell for AWS
- Python (Boto3) Basics
- Scheduled Automation
- Systems Manager Automation

Module 27: Cloud Operations

- Daily Health Checks
- Capacity Planning
- Resource Monitoring
- Performance Monitoring
- Incident Management
- Change Management
- Patch Management
- Service Requests
- Operational Runbooks

Module 28: Troubleshooting

- EC2 Connectivity Issues



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- SSH Troubleshooting
- RDP Troubleshooting
- VPC Network Issues
- DNS Problems
- IAM Permission Errors
- Load Balancer Issues
- Auto Scaling Failures
- RDS Connectivity
- S3 Access Issues
- CloudWatch Alarm Analysis