

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS SysOps

Introduction to AWS and Cloud Computing

- Overview of Cloud Computing: Concepts, benefits, and deployment models
- Introduction to AWS: Global infrastructure, core services overview
- AWS Free Tier: Account setup, billing and cost management basics

AWS Identity and Access Management (IAM)

- IAM Overview: Users, Groups, Roles, and Policies
- IAM Best Practices: Security principles, least privilege access
- Multi-factor Authentication (MFA) and IAM Policies

Compute Services

- Amazon EC2 (Elastic Compute Cloud): Instance types, AMIs, and launching instances
- Auto Scaling: Configuring Auto Scaling groups, policies, and scaling strategies
- AWS Lambda: Serverless computing, event-driven architecture

Storage Services

- Amazon S3 (Simple Storage Service): Object storage basics, buckets, and permissions

- Amazon EBS (Elastic Block Store): Volume types, snapshots, and attaching volumes to instances
- Amazon Glacier: Archival storage, retrieval options

Networking Services

- Amazon VPC (Virtual Private Cloud): Subnets, route tables, and internet gateways
- AWS Direct Connect: Dedicated network connection to AWS
- Amazon Route 53: DNS service, routing policies, and health checks

Database Services

- Amazon RDS (Relational Database Service): Managed database solutions, multi-AZ deployments
- Amazon DynamoDB: NoSQL database service, partition keys, and querying
- Amazon ElastiCache: In-memory data store, caching strategies

Monitoring, Logging, and Performance Optimization

- AWS CloudWatch: Monitoring metrics, logs, and alarms
- AWS Trusted Advisor: Recommendations for cost optimization, performance, and security
- Performance Optimization: Best practices for improving application and infrastructure performance

Security and Compliance

- AWS Shared Responsibility Model: Security of the cloud vs. security in the cloud
- AWS Security Services: AWS WAF (Web Application Firewall), AWS Shield, and AWS Inspector
- Compliance Programs and Certifications: GDPR, HIPAA, SOC, and PCI DSS

Automation and Orchestration

- AWS Systems Manager: Managing EC2 instances, automating tasks with Run Command
- AWS CloudFormation: Infrastructure as Code (IaC), creating and managing stacks
- AWS OpsWorks: Configuration management, Chef and Puppet automation

Disaster Recovery and Business Continuity

- Backup and Restore: AWS Backup service, snapshots, and AMI creation
- High Availability Architecture: Designing fault-tolerant applications across Availability Zones
- AWS Disaster Recovery Strategies: Using Route 53 failover, cross-region replication

Cost Management and Optimization

- AWS Cost Management Tools: AWS Cost Explorer, AWS Budgets, and Cost Allocation Tags
- Cost Optimization Best Practices: Rightsizing instances, reserved instances, and spot instances
- Monitoring and Controlling Costs: Setting up billing alerts and cost allocation reports

Advanced AWS Services and Integration

- AWS Kinesis: Streaming data processing, real-time analytics
- AWS Lambda Integration: Event-driven architecture with AWS services (e.g., S3, DynamoDB)
- AWS API Gateway: Creating and managing APIs for serverless applications

Managing AWS Resources at Scale

- Managing Multiple AWS Accounts: AWS Organizations, consolidated billing, and cross-account access

- Resource Tagging and Management: Strategies for organizing and managing resources
- Best Practices for Governance and Control: Implementing policies for security and compliance

Real-world Projects and Case Studies

- Implementing AWS Solutions: Case studies and success stories
- Best Practices and Lessons Learned from Real-world Implementations

Career Development and AWS Certifications

- AWS Certifications Overview: Paths and preparation tips for SysOps Administrator
- Building a Career as an AWS SysOps Administrator: Skills development and career opportunities
- Interview Preparation: Common AWS-related interview questions and scenarios