INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS Architect

Introduction to AWS Cloud Computing

- Overview of Cloud Computing: Concepts, benefits, and deployment models
- Introduction to AWS: History, global infrastructure, and core services
- AWS Global Infrastructure: Regions, Availability Zones, Edge Locations

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

AWS Compute Services

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

AWS Storage Services

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

- Amazon EBS (Elastic Block Store): Volume types, snapshots, and use cases
- Amazon Glacier: Archival storage, retrieval options

AWS Networking and Content Delivery

- Amazon VPC (Virtual Private Cloud): Subnets, route tables, and internet gateways
- AWS Direct Connect: Dedicated network connection to AWS
- Amazon CloudFront: Content Delivery Network (CDN) basics, caching strategies

AWS Database Services

- Amazon RDS (Relational Database Service): Managed database solutions, multi-AZ deployments
- Amazon DynamoDB: NoSQL database service, scaling and performance considerations
- Amazon Redshift: Data warehousing, analytics queries, and performance tuning

AWS 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

AWS Monitoring and Management Tools

- AWS CloudWatch: Monitoring metrics, logs, and alarms
- AWS CloudTrail: Logging API calls, auditing and compliance
- AWS Systems Manager: Automation, parameter store, and session manager

AWS Application Integration Services

- Amazon SQS (Simple Queue Service): Messaging and queuing service
- Amazon SNS (Simple Notification Service): Pub/sub messaging and mobile notifications
- AWS Step Functions: Serverless orchestration for microservices

AWS DevOps Tools and Practices

- AWS CodePipeline: Continuous Integration and Continuous Deployment (CI/CD)
- AWS CodeCommit: Git-based source control service
- AWS CodeBuild and AWS CodeDeploy: Building and deploying applications

AWS Architectural Design Patterns

- High Availability and Fault Tolerance: Multi-region architecture, active-passive setups
- Scalability and Elasticity: Designing for growth, horizontal vs. vertical scaling
- Disaster Recovery and Backup: Strategies for data protection and business continuity

AWS Cost Optimization

- AWS Cost Management Tools: AWS Budgets, Cost Explorer, and Trusted Advisor
- Cost Allocation Tags: Tagging strategies for cost allocation and reporting
- Reserved Instances and Savings Plans: Pricing models for cost savings

AWS Migration Strategies

- AWS Migration Methodology: Assessment, Planning, and Execution phases
- AWS Database Migration Service (DMS): Migrating databases to AWS

- Application Discovery Service: Discovering on-premises applications for migration

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 Job Preparation

- Building a Career as an AWS Architect: Skills and certifications
- Interview Preparation: AWS-related interview questions and scenarios
- Freelancing and Consulting Opportunities in AWS