



AWS Cloud Upskilling Journeys For Your Organization



Cloud Basics

Cloud Core Competencies

Advanced Cloud Techniques

Understanding Cloud Computing & AWS Technical Essentials

Topics Include: foundational services, security and IAM, databases and management tools

Cloud Infrastructure & Networking

Topics Include: VPC, EC2, Elastic Load Balancing & CloudFormation, monitoring using CloudWatch, tagging

Cloud Security

Topics Include: user identity, AWS permissions, and security in the cloud, data encryption methods

Automation & Orchestration

Topics Include: CloudFormation, CloudWatch, Terraform & Ansible

Containers & Container Orchestration

Topics Include: Docker, Kubernetes, ECS, EKS & Fargate

DevOps Practices

Topics Include: design & implement infrastructure that supports DevOps projects using CodeCommit & CodeBuild

Cloud-Native Development

Topics Include: microservices, serverless computing (AWS Lambda, Amazon API gateway, SQS & Step Functions), containerization (ECS, EKS & Fargate)

Cloud Storage

Topics Include: S3 bucket & object operations and databases - DynamoDB

Monitoring & Logging

Topics Include: CloudWatch & X-Ray

CI/CD

Topics Include: AWS CI/CD Services, Secrets management & SAM Template

Security in the Cloud

Topics Include: secrets management, data security, monitoring & collection logs

Cloud Architecture & Migration to the Cloud

Topics Include: AWS well-architected framework, VPC Fundamentals, Storage, Databases, Monitoring and Scaling, Serverless

Cloud Security & Compliance

Topics Include: AWS security design principles, AWS shared responsibility model, IAM, infrastructure security, DDoS Mitigation, compliance frameworks

Hybrid & Multi-Cloud Architecture

Topics Include: AWS Outposts, AWS Direct Connect, AWS Database Migration Service, AWS Storage Gateway, and AWS DataSync

Cloud Cost Optimization

Topics Include: AWS auto-scaling, AWS Cost Explorer, AWS Budgets, Reserved Instances, high availability / DR - AWS Availability Zones

Cloud Governance

Topics Include: cloud governance frameworks & compliance and regulatory requirements

System Admin

Developer

Solution Architect



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Data Engineer/Scientist/Analyst

Understanding Cloud Computing & AWS Technical Essentials

Topics Include: foundational services, security & IAM, databases & management tools

Data Storage & Management

Topics Include: data storage services (Amazon S3, Amazon EBS, Amazon RDS, Amazon Redshift & Amazon DynamoDB), Data Security, Data Ingestion and ETL (Kinesis & Glue), Data Management

Data Processing & Analytics

Topics Include: batch data processing - Amazon EMR, which supports Apache Spark, Machine Learning using SageMaker, advanced analytics & data governance

Data Visualization

Topics Include: AWS Glue DataBrew or AWS Glue for data preparation and cataloging, EDA, StoryTelling, Interactivity and Drill-down

Data Governance & Security

Topics Include: Data Classification: Data Access Controls - IAM and RBAC, Encryption - KMS, Data Privacy - PII, Data Auditing - CloudTrail and GuardDuty, security best practices

Machine Learning

Topics Include: Machine Learning Concepts, AWS SageMaker - data preparation, algorithm selection, and hyperparameter tuning, AutoML tools, like Amazon SageMaker Autopilot

Manager

Understanding Cloud Computing & AWS Cloud Practitioner Essentials

Topics Include: AWS cloud value proposition, the well-architected framework & the shared responsibility model of security

Business & Strategic Alignment

Topics Include: cost optimization using AWS cost explorer, scalability, performance monitoring

Cloud Adoption Planning

Topics Include: cloud readiness assessment, cloud migration strategies - lift-and-shift, re-platforming, and refactoring, resource planning, AWS CloudWatch & AWS Trusted Advisor

Cloud Economics

Topics Include: cost allocation & budgeting - using AWS account structures, & cost allocation tags, total cost of ownership, cost-aware architecture

Cloud Governance

Topics Include: security & compliance - understanding AWS shared responsibility model, implementing security best practices, and AWS services like AWS IAM, resource provisioning policies, tagging, security configurations

Organizational Change Management

Topics Include: stakeholder engagement, training and skill development, change governance and managing resistance

All Roles