

AWS Cloud Upskilling Journeys For Your Organization



Cloud Basics

Cloud Core Competencies

Advanced Cloud Techniques



System Admin

Understanding Cloud Computing & AWS Technical Essentials

Topics Include: foundationalservices, 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

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Developer

Solution Architect

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



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Data Engineer/ Scientist/Analyst

Understanding Cloud Computing & AWS Technical Essentials

Topics Include: foundationalservices, 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 PrivacyPII, Data Auditing - CloudTrail
and GuardDuty, security best
practices

Machine Learning

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



Manager

All Roles

Understanding Cloud Computing & AWS Cloud Practitioner Essentials

Topics Include: AWS cloud value proposition, the wellarchitected 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 - liftand-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