



Website: [www.aiquest.org](http://www.aiquest.org)

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# Cloud Computing with Amazon AWS

(A Complete Course)

The poster features a dark blue background with a circular portrait of the instructor on the left. The text is in white and yellow. The Quest Intelligence logo is in the top right, and the AWS logo is in the middle right. A red 'Live' badge is in the bottom right corner.

Beginner to Advanced

## Cloud Computing with AWS

মোট ক্লাস: 20 টি ; কোর্সের সময়কাল: 40 ঘন্টা+  
ক্লাসের সময়: 8:30PM (2 ক্লাস/সপ্তাহ)

**কোর্স ফি: 6000 টাকা**

Course Instructor

**Shamsunnabi Taqib**  
DevOps Engineer  
Genese Solution

**To Enroll:**  
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[www.aiquest.org](http://www.aiquest.org)

**Live**

**Course Instructor:**

[Shamsunnabi Taqib](#)

DevOps Engineer,

Genese Solution

AWS Certified Solution Architect

[Watch Demo Class!](#)

**Module 01:**

[www.aiquest.org](http://www.aiquest.org)

## □ Introduction to Amazon Web Services (AWS)

1. Intro to Amazon Web Services (AWS)
2. Is Cloud Computing Important for Data Science?
3. AWS for Modern Data Analytics
4. Elastic Computing
5. Advantages of Cloud Computing
6. Types of Cloud Computing
7. Introduction to the AWS Products
8. AWS Security Compliance
9. Regions and Availability Zones
10. Signing up for AWS
11. AWS Free usage tier
12. Introduction AWS Management Console

### **Module 02:**

#### Identity access management (IAM)

- IAM Users, Groups, Roles, and Policies
- Create IAM User Account  
Creating Users and Groups
- IAM Authentication & MFA
- IAM Password Policy
- Identity-Based policy & resource-based policy
- Permission Boundary
- IAM policy Simulator
- IAM Best practices
- Applying for policies Password Policy Roles

### **Module 03:**

#### Amazon Elastic Compute Cloud (EC2)

- Introduction
- Amazon Elastic Compute Cloud
- EC2 launch wizard (HOL+ Linux & windows)
- Instance Connect & ssh (HOL)
- RDP to windows instance
- Amazon ec2 user data & metadata
- Accessing services- Access key & Ima Roles (HOL)
- Status check & Monitoring

- Ec2 placement group
- Network Interfaces (ENI, ENA, EFA)
- Working with ENI (HOL)
- Public, Private & Elastic IP Addresses
- NAT for public addresses
- Working with the IP address (HOL)
- Private subnet & bastion host
- NAT Gateway & NAT Instances overview
- Private subnet with Nat gateway (HOL)
- Ec2 pricing options
- Ec2 pricing use cases

## Module 04:

### Elastic Load Balancing and Auto Scaling

- Elasticity: Scaling up vs scaling out
- Amazon Ec2 auto-scaling
- Create an auto-scaling group (HOL)
- Load balancing & high availability
- Types of elastic load balancing
- Routing with ALB & NLB
- Create a Target group (HOL)
- Network Load balancer (NLB) - (HOL)
- Application Load balancer (ALB) - (HOL)
- Ec2 scaling policy.
- Elastically scale the application (HOL)
- Cross-zone load balancing

## Module 05:

### Amazon Virtual Private Cloud

- IPv4 addressing.
- Amazon VPC overview
- Defining VPC CIDR block
- VPC wizard (HOL)
- Create a custom VPC with Subnets (HOL)
- Launch Instances & test VPC (HOL)
- Security groups & network acls
- Configuring SG & NACLs (HOL)

- VPC peering.
- VPC Endpoint
- Create VPC endpoint (HOL)
- Client VPN & Site to Site VPN
- VPN Cloud Hub
- Direct Connect (DX)
- Direct Connect gateway.
- Transit Gateway
- IPv6 in VPC
- VPC Flow Logs

## Module 06:

### Amazon Simple Storage Service (S3)

- Introduction & s3 overview
- S3 storage classes
- Create an S3 bucket (HOL)
- IAM policies, bucket policies & ACL
- Access Control List (HOL)
- Bucket & User Policies Practices (HOL)
- S3 versioning, replication & lifecycle rule
- Versioning & replication (HOL)
- Life cycle rules (HOL)
- S3 encryption
- Multipart upload & transfer acceleration
- S3 select & glacier select.
- Server access logging
- S3 static website (HOL)
- CORS
- Cross Account Access

## Module 07:

### DNS, Caching, and Performance Optimization

- DNS & Route 53
- Register a domain with Route 53
- Amazon Route 53 hosted zones
- Route 53 routing policies
- Using route 53 routing policies
- Route 53 resolver
- CloudFront Origins & Distribution
- CloudFront caching & behaviors.
- CloudFront sign URL & OAI
- Cache and behaviour settings (HOL)
- CloudFront SSL/TLS & SNI
- Create a global accelerator (HOL)

## Module 08:

### Block and File Storage

- Block vs File vs Object storage
- EBS deployment & volume type
- EBS copying, sharing & Encryption.
- EBS snapshot & DLM
- EC2 instance store volume
- Creating & attaching ebs volume (HOL)
- Using Amazon machine image (HOL)
- EC2 image builder (HOL)
- Migrate ebs volume between AZ's (HOL)
- Working with ebs snapshot & DLM (HOL)
- Using RAID & EBS
- Elastic file system (HOL)
- Fsx
- Storage Gateway
- AWS backup

## Module 09:

### Databases and Analytics

- Types of databases
- AWS RDS
- RDS backup & recovery
- Create RDS (HOL)
- Read replica & Multi AZs
- RDS security
- Create an encrypted copy of the RDS
- AWS Aurora
- Aurora deployment Options
- RDS proxy
- AWS ElastiCache
- Scaling ElastiCache
- DynamoDB
- Create DynamoDB Table
- DynamoDB Accelerator & Global Tables
- Redshift
- Elastic Map Reduce
- Kinesis core knowledge
- Athena & Glue

## Module 10:

### Azure Fundamentals

- Azure architectural components
- Compute and Networking
- Storage
- Identity, Access, and Security

## Module 11:

- Tips on how to get a job in Cloud Computing
- How to become a Cloud Engineer
- CV Tips

## To Enroll in the Course:

Contact: +8801704265972 (Call/WhatsApp)

[Sohan Khan](#), Course Coordinator at aiQuest Intelligence

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