



**AWS Certified Solutions Architect - Associate**



Learning Collaborations



Global Certifications



## About the **AWS Certified Solutions Architect**

Our AWS Solutions Architect - Associate course is specifically designed for new aspirants who are planning to enter into the field of Cloud Computing and AWS and intend to gain the official AWS Solutions Architect - Associate certification.

We start this course from absolute scratch and hence there is no prior knowledge required about Cloud or AWS. This course starts with providing a detailed understanding of Cloud Computing to the candidates. Once the basics of Cloud Computing are understood, then the journey begins into AWS to master various aspects related to Infrastructure, Storage, Security, Identity Management, and many more. Post completing this course, the candidate will have a solid base understanding of AWS services.

## Course outcome for **AWS Certified Solutions Architect**

- Will be prepared for AWS Solutions Architect - Associate Exam
- Get a strong foundation on Amazon Web Services
- You will be able to design highly available, scalable & secure environment in AWS
- Be ready to work into the Cloud computing career

## Prerequisites for **AWS Certified Solutions Architect**

- This course assumes no previous experience, and takes you from the absolute beginner concepts and then goes into more detail.
- AWS Account for practicing the labs.

## Modules covered under AWS Certified Solutions Architect

### **Module 1 :** Fundamentals of Cloud Computing Platform

- Introduction to Cloud Computing
- *Cloud Computing Models*
- *Architecture of Cloud Environment*
- *On-Demand & Self Service - Characteristics of Cloud*
- *Characteristic of CSP - Elasticity*

### **Module 2 :** Infrastructure & Networking

- *Introduction to Amazon Web Services*
- *AWS Global Infrastructure*
- *Setting up AWS account*
- *Setting up SSH Client*
- *Launching & Connecting First EC2 Instance*
- *Creating First Website on EC2*
- *Basics of Firewalls*
- *AWS Budgets*
- *Understanding & Creating Virtual Private Cloud*
- *Understanding and Creating Subnets*
- *Internet Gateways*
- *Overview of Route Tables*
- *IP Addressing in AWS*
- *Understanding VPC Peering*
- *Network ACL (NACL)*
- *EC2 Pricing Models & Placement Groups*
- *Amazon Machine Image (AMI)*
- *Launch Template*

## Modules covered under AWS Certified Solutions Architect

### **Module 3:** Storage

- Introduction to Block & Object storage mechanism
- Introduction to Elastic Block Store
- Feature of EBS - Portability
- EBS - Volume Types
- Instance Store Volumes
- Introduction to Simple Storage Service (S3)
- S3 Storage Classes
- New S3 Storage Class - Intelligent-Tiering
- New S3 Storage Class - One Zone-IA
- New S3 Storage Class - Glacier
- S3 Versioning
- S3 Lifecycle Policies
- Features of S3 - Cross Region Replication
- Static Website Hosting with AWS S3
- Pre-signed URLs
- S3 - Multi-Part Uploads
- Multi-Part Upload - Practical
- Understanding AWS Storage Gateway
- Overview of File Gateway
- Implementing File Gateway
- Snowball
- Amazon FSx

## Modules covered under AWS Certified Solutions Architect

### **Module 4:** High Availability

- Understanding High Availability Configuration
- RTO & RPO
- Getting started with Elastic Load Balancers
- Different Load Balancer Types in AWS
- Overview of Classic Load Balancer
- Overview of Application Load Balancer
- Implementing Path Based Routing in ALB
- ALB - Listeners & Target Groups
- Understanding Network Load Balancer
- Implementing Network Based Load Balancers
- ELB Configuration - Health Checks
- Configuring our first ELB
- ELB - Nodes & Availability Zones
- ELB Configuration - Cross Zone Load Balancing
- AWS WAF & Shield
- Overview of Elastic File System (EFS)
- Creating our First EFS
- Virtual Private Network
- Overview of AWS VPN Tunnels
- Direct Connect
- Direct Connect High-Availability
- Understanding Transit Gateways
- Egress Only Internet Gateways
- AWS Elastic Beanstalk
- Deploying Custom Application in Elastic Beanstalk

## Modules covered under AWS Certified Solutions Architect

### **Module 5:** Characteristic of Cloud - Elasticity

- Introduction to Auto Scaling
- Implementing Manual Scaling ASG
- Overview of Dynamic Scaling
- Scheduled Scaling
- Overview of AWS Global Accelerator
- Implementing Global Accelerator
- AWS Elastic Container Registry (ECR)
- Overview of Elastic Container Service (ECS)
- ECS - Tasks and Services
- AWS Fargate
- VPC Endpoints & Gateway VPC Endpoints

### **Module 6:** Identity & Access Management

- Introduction to Identity & Access Management (IAM)
- Understanding the IAM Policies
- IAM Policy Evaluation Logic
- Conditional Element
- AWS CLI
- Installing AWS CLI for Linux and Windows
- IAM Role & Permission Boundaries
- Overview of AWS Organisations
- S3 Bucket Policies
- Cross Account S3 Bucket Configuration
- S3 CORS

## Modules covered under AWS Certified Solutions Architect

### **Module 7:** Cryptography Kung Fu and Security

- Introduction to Cryptography
- Understanding communication Protocols
- Plain Text vs Encrypted Protocols
- Understanding the Disk Level encryption schemas
- AWS CloudHSM
- AWS Key Management Service
- S3 Encryption
- AWS GuardDuty
- Referencing Security Groups
- Vulnerability, Exploit, Payload
- AWS Inspector
- Overview of Amazon Macie
- Detecting Sensitive Files with Macie

### **Module 8:** Serverless Architecture

- Introduction to Serverless Computing
- Getting started with AWS Lambda
- Introduction to API
- Understanding working of API
- Building the function for our API
- Building our API with API Gateway
- AWS DataSync
- Syncing Data between S3 and EFS
- Amazon Athena

## Modules covered under AWS Certified Solutions Architect

### **Module 9:** Database Primer

- Overview of Databases
- Introduction to RDS
- Connecting to RDS via CLI
- Implementing Read replicas
- Multi-AZ Architecture for RDS
- Overview of Amazon Aurora
- Implementing Amazon Aurora
- Overview of Aurora Server-less
- Implementing Aurora Serverless
- Aurora Global Databases
- RDS Storage Auto-Scaling
- Overview of AWS ElastiCache
- Understanding NoSQL Database
- Getting started with DynamoDB
- DynamoDB queries with CLI
- DynamoDB - Consistency Models
- Real World Use Case for NoSQL Database
- DynamoDB - Read & Write Capacity Units
- DynamoDB Global Tables
- DynamoDB Accelerator
- DynamoDB Streams
- Amazon Neptune
- Overview of AWS Secrets Manager

## Modules covered under AWS Certified Solutions Architect

### **Module 10:** Building Scalable Applications

- Introduction to SQS
- SQS - Practical
- SQS - Visibility Timeout
- SQS Dead Letter Queue
- Simple Notification Service (SNS)
- S3 Event Notifications
- Overview of AWS Config
- Creating our First Config Rules
- AWS Systems Manager
- SSM - Parameter Store
- AWS Tags
- Resource Groups
- Simple Workflow Service (SWF)

### **Module 11:** Analytics

- Amazon Kinesis
- Amazon Kinesis Capabilities
- AWS Import / Export
- Business Intelligence
- AWS SWF

## Modules covered under AWS Certified Solutions Architect

### **Module 12 :** Domain Name System

- Introduction to DNS
- Traffic packet capture of DNS packets
- Understanding DNS Records
- DNS Records - A & AAAA
- Introduction to Route53
- Creating Hosted Zones in Route53
- CNAME Record
- Mail Exchanger (MX) Record
- TXT Records
- Advanced Route53 Configurations
- Route53 - Health Checks
- Route53 Health Check Practical
- Overview of Routing Policies
- Multi-Value Answer Routing Policy
- AWS Certificate Manager
- Provisioning HTTPS Certificates with ACM
- Amazon WorkMail

## Modules covered under AWS Certified Solutions Architect

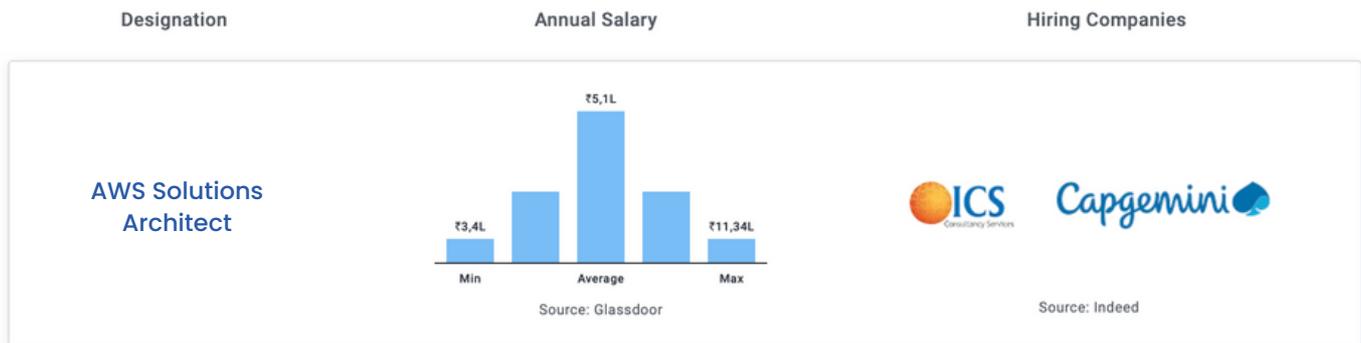
### **Module 13:** Content Delivery Networks

- Understanding the Content Delivery Networks
- Demo - CloudFront CDN
- Understanding Edge Locations
- Deploying CloudFront Distribution
- Origin Access Identity
- S3 Transfer Acceleration
- Overview of Lambda@Edge
- Lambda@Edge and CloudFront Integration

### **Module 14:** Monitoring

- Understanding CloudWatch
- Understanding CloudTrail
- Creating First CloudTrail Trail
- CloudTrail Event Types
- AWS Trusted Advisor
- AWS Well Architected Framework
- Personal Health Dashboard
- Data Transfer Charges in AWS

## Benefits as **AWS Solutions Architect Program**



## Our Training Benefits as **AWS Solutions Architect Program**

- Our complete training is constructed as per the current industry standard.
- Live Project & Industrial Based Training.
- One of the biggest team of Certified Expert & Competent Trainers.
- Easy to understand study material.
- Regular and Weekends classes for IT & Software training is provided.
- Interaction, analysis and case studies are an integral part of the training.
- Smart Labs with Real Latest Equipments.
- Students are free to access the labs for an unlimited number of hours
- Free Study Material, e-PDFs, Video Trainings, Sample Questions.
- Globally Recognized Course Completion Certificate.
- The ability to retake the class at no-charge as often as desired.
- One-on-One attention from instructors.
- Helps students to take knowledge of complex technical concepts.
- Post Training Support will help the students.
- Personality Development & Interview Preparation classes.
- 100% Job Assistance with dedicated training & placement team.



# Join One of the Best AWS Architect Training Institute in India

(In-Class & Live Online Training by Industry Experts)



**5740+**  
**Batches Completed**



**68806+**  
**Students Trained**



**470+**  
**Skilled Instructors**



## Our Latest Reviews



Hi All, I am Shilpa and i have done my Certification from TechVidya. The study environment is good and trainers are full of knowledge. I personally recommend TechVidya Institute to all the students who looking for quality education and sincere about there future.

I am grateful to TechVidya - both the faculty and the Training & Placement Department. They've made efforts ensuring maximum number of placed students. The Institute started grooming us for placements in the first few months including courses such as Professional Excellence Program and Professional Skills Enhancement. I suggest to join TechVidya which comes under top 10 IT & Software training institute.



Hi I am Amit Kumar and my Enrollment ID with TechVidya is TV230967. I completed my Certification from TechVidya. They provides IT & Software courses in more practical & real scenario basis. Complete project based training help me to sharpen my technical skills.

TechVidya has always believed in helping and guiding its students and it was no different during the placement time. Regular classes held to help us with our aptitude and technical skills. Recommend to all the students who looking for best computer classes with quality education. Thanks TechVidya for explore my career.



## RECORD BREAKING PLACEMENTS 100% JOB PLACEMENT ASSISTANCE

MEET OUR PLACED STUDENTS



Anand Pandey  
Newgen



Sumi Singh  
R Systems



Baldev Singh  
Star Solutions



Meenakshi  
Chetu India



Neha Bisht  
PayTM



Jeewan Singh  
Aavishkar Ent.



Prem Prakash  
MPS Limited



## Career Assistance Services



-  **Career Oriented Sessions**  Throughout the Course
-  **Resume & LinkedIn Profile Building**  After 70% of the Course Completion
-  **Mock Interview Preparation**  After 80% of the Course Completion

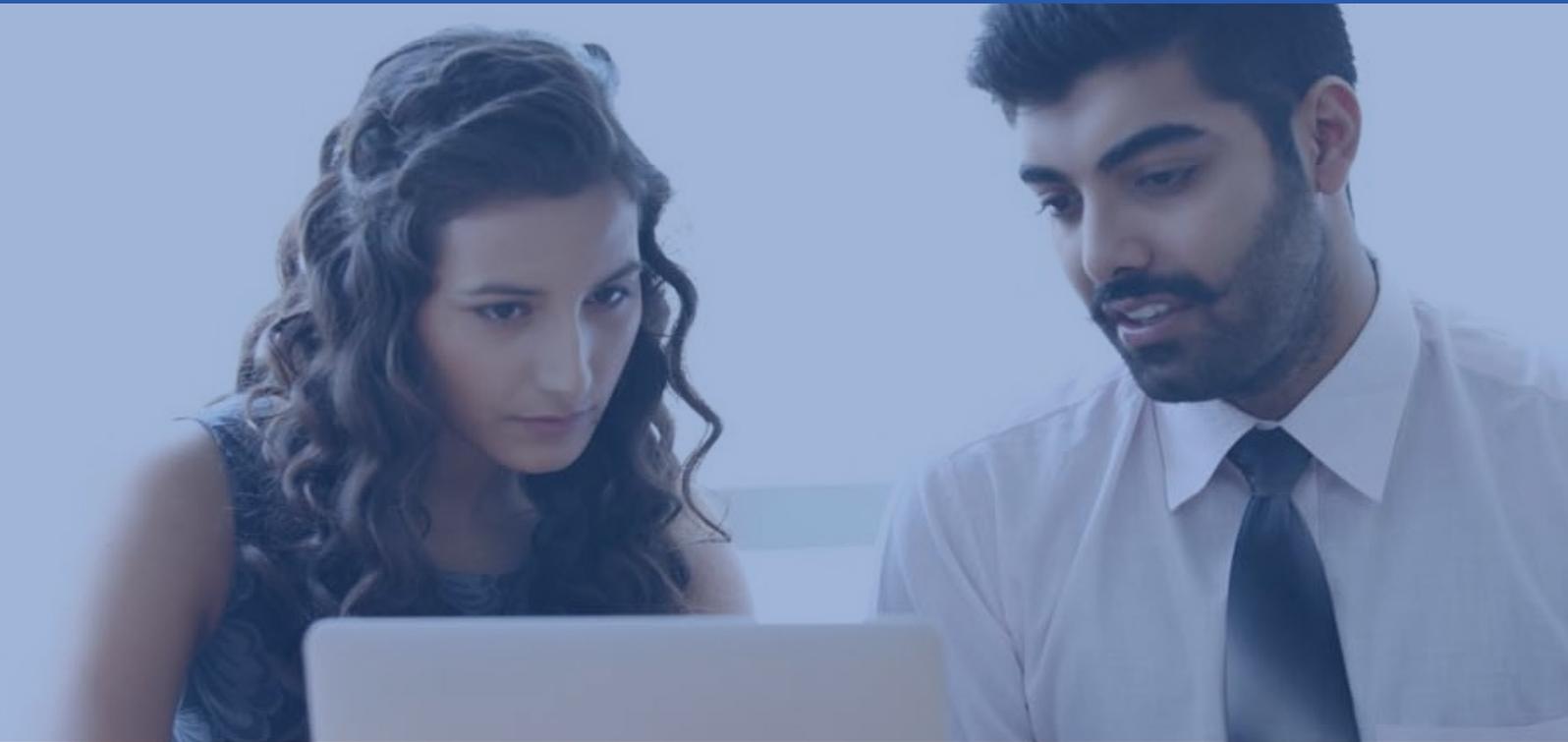
-  **1 on 1 Career Mentoring Sessions**  After 90% of the Course Completion
-  **Assured Interviews**  After 90% of the Course Completion
-  **1 Year Placement Assistance**  After 100% of the Course Completion





## Our Top Placement Partners





## TechVidya In News



08-Jan

ET Now- Startup Central

TIMESNOWNEWS.COM

22-Dec

What skills in demand & how should upgrade?

THE HINDU  
BusinessLine

14-Nov

Turning executive education into class act

EducationTIMES  
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How TechVidya enhance learning experience

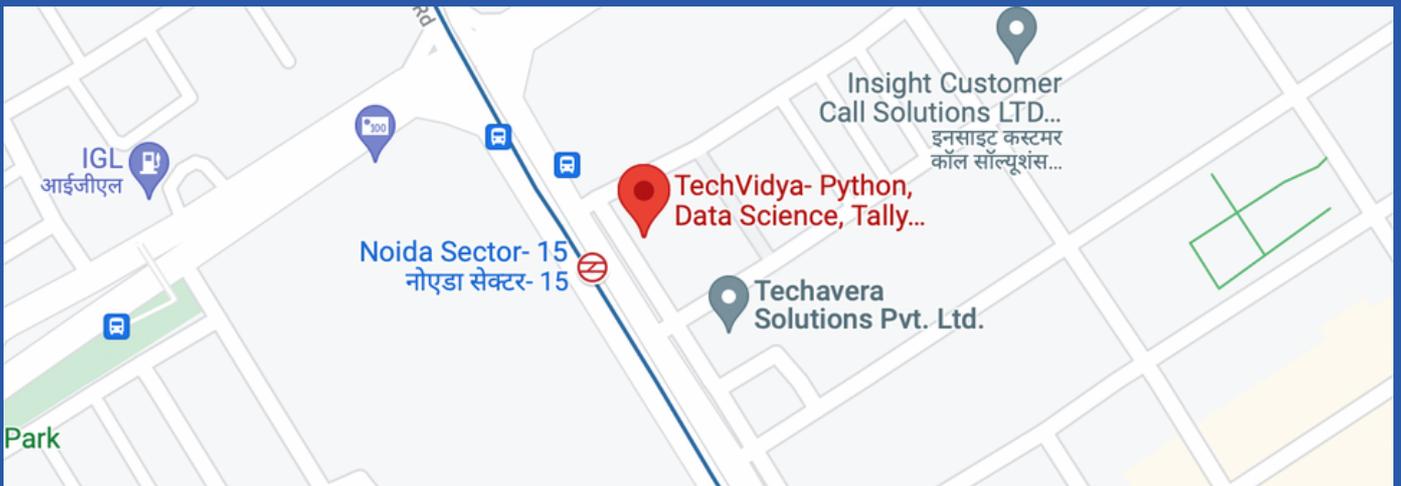
THE ECONOMIC TIMES

16-Jun

The journey of an EduTech Company



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