AWS Certified Solution Architect Associate

- **Course Name:** AWS Certified Solution Architect Associate
- **Course Code:** IT4_P1
- **Instructor:** Mr. Sunil (8 Yrs of Exp; AWS Authorized Instructor; AWS Certified Solution Architect and SysOps Administrator Associate)
- **For Whom:** S/W Engineers (Fresher & Experienced) & College Goers
- **Frequency:** 2 Sessions per week. 1 Session = 2 Hours.
- **Fees:** 199 US$ (Get Discount for Referrals and Group Joining)
- **Duration:** 24-26 Hours Approx. (6 Weeks Approx.)
- **Note:** First Session is completely FREE and open to all. Make Full Payment only after 1st FREE session and if interested to continue.
- Reach us for more details.
- **Note:** Reach us for Advanced Python Programming, Python for Data Science, Vedic Speed Mathematics (FREE) and all other IT Courses.
- **More Info:** www.Speed16.com/training
- **Contact:** info@speed16.com **OR** +91-97640-58-654 **OR** Direct Whatsapp (https://wa.me/919764058654/?text=Hi) **OR** Direct Telegram (https://t.me/CP512)

Course Features:
- Real world skills with Demo.
- Personal Training.
- Complete Hands on Session.
- QA Session.
- Access to PDF Version of PPT.
- Access to Code & Scripts.

Scroll Down for Complete Syllabus.

Syllabus in Brief:

Module #	Module Name
0	AWS Infrastructure.
1	Identity & Access Management.
2	Simple Storage Service
3	Elastic Compute Cloud.
4	Elastic Load Balancer & Autoscaling
5	Relational Database Service.
6	DynamoDB
7	Virtual Private Cloud.
8	CloudWatch. CloudTrail & Config
9	CloudFront, Route53 & Global accelerator.
10	CloudFormation, System Manager, OpsWorks, ElasticBeanstalk.
11	SQS & SNS.
12	Elastic Container Service
13	AWS Lambda, API Gateway & Step Functions.
14	Disaster Recovery
15	Well Architected Framework.

Syllabus in Detail:

➕ Module 0 – AWS Infrastructure.
1. Cloud Computing
2. Benefits for choosing cloud
3. Cloud providers
4. Service Models
5. Deployment models.
6. AWS Account
7. AWS Data Centers
8. AWS Availability Zones
9. AWS Regions
10. AWS Edge Locations.
11. AWS Regional cache.
12. Region Selection

➕ Module 1 – Identity & Access Management.
1. Need for Identity Access Management in AWS.
2. What is Identity Access Management?

3. Use Cases.
4. Multi Factor Authentication
5. Users.
6. Groups.
7. Roles.
8. Policies.
9. Identity Provider & Federation.
10. Access Analyzer.
11. Best Practices.

Module 2 – Simple Storage Service
1. Need for Simple Storage Service
2. What is Simple Storage Service
3. Properties of Simple Storage Service
4. Permissions
5. Encryptions
6. Access Points
7. Storage Class
8. Life Cycle Rule
9. Object Replication
10. Use Cases.
11. Large Data Movement.
12. S3 Glacier

Module 3 – Elastic Compute Cloud.
1. Need for Elastic Compute Cloud (EC2).
2. Amazon Machine Image.
3. Instance Types.
4. Purchasing Option.
5. User Data & Meta Data
6. Storage to EC2 & Tagging.
7. Security Group & Key Pair.
8. Placement Group.
9. EC2 Image Builder.
10. Shared File System.
11. AWS Computer Optimizer.

Module 4 – Elastic Load Balancer & Autoscaling
1. Need for Elastic Load Balancer.
2. What is Elastic Load Balancer.
3. Types of Elastic Load Balancer.

4. Target Group.
5. Features of Elastic Load Balancer
6. Need of Autoscaling group.
7. What is Autoscaling group.
8. Purchasing Option
9. Launch configuration & Launch Template.
10. Scaling Policies.

Module 5 – Relational Database Service.

1. Types of Database.
2. Need for RDS.
3. What is RDS.
4. RDS Engine Types.
5. Features of RDS.
6. Amazon Aurora.
7. Read Replica for RDS & Amazon Aurora.
8. Security of RDS.
9. Database Migration Service.
10. RedShift.
11. Use cases.

Module 6 – DynamoDB

1. Need for DynamoDB
2. What is DynamoDB.
3. Features of DynamoDB.
4. Components of DynamoDB.
5. DynamoDB Global Table.
6. DynamoDB Transactions
7. DynamoDB Accelerator (DAX)
8. ElastiCache

Module 7 – Virtual Private Cloud.

1. Need for VPC.
2. What is VPC.
3. CIDR Range.
4. Subnets.
5. Route table
6. Internet Gateway
7. NAT gateway & NAT instance
8. Bastion Host
9. Network Access control list

10. VPN Gateway
11. Direct Connect
12. VPC Peering
13. Transit Gateway

⬇ **Module 8 - CloudWatch. CloudTrail & Config**

1. Need for CloudWatch
2. What is CloudWatch
3. CloudWatch Metric
4. CloudWatch Dashboard
5. CloudWatch Alarm
6. CloudWatch Logs
7. CloudWatch Events
8. AWS CloudTrail
9. AWS Config
10. Use Cases

⬇ **Module 9 – CloudFront, Route53 & Global accelerator.**

1. What is CloudFront?
2. How CloudFront works?
3. Expiring content in edge location
4. Lambada@Edge
5. Use cases of CloudFront
6. What is Route53
7. Routing Policies
8. Global accelerator

⬇ **Module 10 – CloudFormation, System Manager, OpsWorks, ElasticBeanstalk.**

1. Need for CloudFormation
2. What is CloudFormation.
3. CloudFormation Template
4. Benefits of CloudFormation
5. Updating Stack
6. Layered CloudFormation Template
7. AWS QuickStart
8. What is AWS System Manager?
9. Tasks done by System Manager
10. What is OpsWorks
11. What is Elastic Beanstalk?
12. Application version, environments

Module 11 – SQS & SNS.

1. Why SQS?
2. What is SQS?
3. Benefits of SQS
4. Types of SQS
5. Features & Limits
6. SQS Message Life cycle.
7. What is SNS?
8. Subscriber Types.
9. Features of SNS.
10. Comparison Between SQS & SNS.
11. Use cases of SQS & SNS

Module 12 – Elastic Container Service

1. What is Docker
2. What is Elastic Container service
3. ECS EC2 Launch type
4. ECS Farget Launch type
5. What is Elastic Container Registry.
6. What is EKS

Module 13 – AWS Lambda, API Gateway & Step Functions.

1. Need for AWS Lambada
2. What is AWS Lambada
3. Lambada Event sources
4. Lambada Configurations
5. What is API Gateway
6. Benefits of API Gateway.
7. Need for Step Function
8. What is Step Function
9. What is state machine
10. Examples of Step Function

Module 14 – Disaster Recovery

1. Need for Disaster Recovery.
2. What is Disaster Recovery & DR Strategy.
3. RTO & RPO.
4. Back up & Restore.
5. Pilot Light.
6. Warm Standby
7. Multi-Site Active-Active.

✚ Module 15 – Well Architected Framework.
1. What is Well Architected Framework.
2. Operational Excellence
3. Security
4. Reliability
5. Performance Efficiency
6. Cost Optimization

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