

AWS Solutions Architect –Associate Level

Total Hours: 24

- 1. Overview of Cloud Technology**
 - **Cloud computing and current Market**
 - **Difference Cloud Infrastructure and physical Infrastructure**
 - **Benefits of Cloud Computing**
 - **Different Types of Cloud and Uses**
- 2. Overview of AWS**
 - **What is AWS?**
 - **On- premises server v/s AWS servers**
 - **Cloud Services and AWS**
 - **Benefits of Cloud on AWS**
- 3. AWS Architecture**
 - **AWS Region**
 - **AWS Zone**
 - **Number of Edge Locations**
 - **AWS Partner ECO System**
 - **Initiates AWS services**
- 4. Compute services: EC2**
 - **EC2 instance and services**
 - **Selecting and building EC2 instances**
 - **Amazon machine Images**

- **Attach and manage EBS Volume**
- **Cloud-int user data and metadata**

5. Networking Services

- **Introduction of AWS Networking Services**
- **Virtual Private Cloud**
- **Private and Public Subnets**
- **Internet & Virtual private Gateway**
- **Route Table**
- **Configuring NAT instance**
- **VPC Peering**
- **Using a Bastion Host**
- **VPN and Use cases**

6. DNS Services:- Route 53

- **Zone Records**
- **Zone Apex Support With ELB and S3**
- **Types of Routing in route 53**

7. More compute services

- **AWS Lambda**
- **EC2 Container Services**
- **Auto Scaling**
- **Elastic Load Balancer**

8. Storage services

- **EBS- Elastic Block storage**
- **S3- Simple storage services**

- Amazon cloudfront
- Elastic File storage

9. Database Services

- RDS- Relational Database Services
- Dynamodb
- Manage Database instances and Use cases

10. Security & Identity

- NACL
- Security Group
- IAM- Identity Access Management
- Transmission & Encryption- TLS
- Placement Group
- Practical Implementation with Security Group & IAM

11. Monitor & Auditing Services

- Amazon Cloud Watch
- Amazon Cloud trail

12. Analytics Services

- Redshift
- Elastic MapReduce
- Kinesis

13. Migration Services

- Database migration
- storage migration
- Storage Gateway

- **Direct Connect**
- **Snow ball**
- **Backup services**

14. Application Services

- **SQS - Simple Queue Service**
- **SNS- Simple Notification Services**

15. Deployment & Management Services:

- **Elastic Beanstalk**
- **Cloud formation**
- **Trusted Advisor**

16. Application Services

- **SQS- Simple Queue Services**
- **SNS-Simple Notification Services**

17. AWS Troubleshooting

- **Connectivity issues**
- **EC2 Troubleshooting Scenarios**
- **VPC Troubleshooting Scenarios**
- **ELB Troubleshooting Scenarios**
- **Service based Troubleshooting Scenarios**

18. Business Essentials:

- **AWS Pricing & Economics**
- **Simple monthly calculator**
- **AWS Marketplace**
- **Business App's**