

# AWS Certified Solution Architect Associate



# Online Course

**ZETLAN TECHNOLOGIES**  
**[www.zetlantech.com](http://www.zetlantech.com)**



# AWS Certified Solution Architect Associate



## COURSE MODULES

### Design Secure Architectures

#### 1. Design secure access to AWS resources

- Access controls and management across multiple accounts
- AWS federated access & identity services for eg AWS IAM],etc
- AWS global infrastructure (for eg, Availability Zones, etc.,)
- AWS security best practices
- The AWS shared responsibility model

#### 2. Design secure workloads and applications

- Application configuration and credentials security
- AWS service endpoints
- Control ports, protocols, and network traffic on AWS
- Secure application access
- Security services with appropriate use cases
- Amazon GuardDuty, Amazon Macie)
- Threat vectors external to AWS

#### 3. Determine appropriate data security controls

- Data access and governance
- Data recovery
- Data retention and classification
- Encryption and appropriate key management



**ZETLAN TECHNOLOGIES**

# **AWS Certified Solution Architect Associate**

**For Enquiry: +91 8680961847**

## **Design Resilient Architectures**

### **4.Design scalable and loosely Coupled Architectures**

- API creation and management
- AWS managed services with appropriate use cases
- Caching strategies
- Design principles for microservices
- Event-driven architectures
- Horizontal scaling and vertical scaling
- How to appropriately use edge accelerators
- How to migrate applications into containers
- Load balancing concepts (for example, App Load Balancer)
- Multi-tier architectures
- Queuing and messaging concepts
- Serverless technologies and patterns
- Storage types with associated characteristics
- The orchestration of containers
- When to use read replicas
- Workflow orchestration (for example, AWS Step Functions)




**Free Advice: +91 9600579474**

**[www.zetlantech.com](http://www.zetlantech.com)**

# AWS Certified Solution Architect Associate

**For Enquiry: +91 8680961847**

## **5. Design Highly Available and/or Fault-Tolerant Architectures**

- AWS global infrastructure
  - AWS managed services with appropriate use cases
  - Basic networking concepts (for example, route tables)
  - Disaster recovery (DR) strategies
  - Distributed design patterns
  - Failover strategies
  - Immutable infrastructure
  - Load balancing concepts (for example, App Load Balancer)
  - Proxy concepts (for example, Amazon RDS Proxy)
  - Service quotas and throttling
  - Storage options and characteristics
  - Workload visibility (for example, AWS X-Ray)
- 

## **Design High-Performing Architectures**


### **6. Determine high-performing and/or scalable storage solutions**

- Hybrid storage solutions to meet business requirements
- Storage services with appropriate use cases
- Amazon Elastic File System [Amazon EFS], Amazon EBS
- Storage types with associated characteristics

# **AWS Certified Solution Architect Associate**

**For Enquiry: +91 8680961847**

## **7. Design high-performing and elastic compute solutions**

- AWS compute services with appropriate use cases
  - Distributed computing concepts supported
  - Queuing and messaging concepts
  - Scalability capabilities with appropriate use cases
  - Serverless technologies and patterns
  - The orchestration of containers
- 

## **8. Determine high-performing database solutions**

- AWS global infrastructure
- Caching strategies and services
- Data access patterns
- Database capacity planning
- Database connections and proxies
- Database engines with appropriate use cases
- Database replication (for example, read replicas)
- Database types and services

# AWS Certified Solution Architect Associate

For Enquiry: +91 8680961847

## 9. High-performing and/or scalable network architectures

- Edge networking services with appropriate use cases
- How to design network architecture
- Load balancing concepts
- Network connection options



## 10. High-performing data ingestion and transformation solutions

- Data analytics and visualization services
- Data ingestion patterns (for example, frequency)
- Data transfer services with appropriate use cases
- Data transformation services with appropriate use cases
- Secure access to ingestion access points
- Sizes and speeds needed to meet business requirements
- Streaming data services with appropriate use cases

Zetlan Technologies

## Design Cost-Optimized Architectures

## 11. Design cost-optimized storage solutions

- Access options (An S3 bucket with Requester Pays object)
- AWS cost management service features
- AWS cost management tools with appropriate use cases
- AWS storage services with appropriate use cases
- Backup strategies

Free Advice: +91 9600579474

[www.zetlantech.com](http://www.zetlantech.com)

# **AWS Certified Solution Architect Associate**

**For Enquiry: +91 8680961847**

## **12. Design cost-optimized compute solutions**

- AWS cost management service features
- AWS cost management tools with appropriate use cases
- AWS global infrastructure
- AWS purchasing options
- Distributed compute strategies
- Hybrid compute options
- Instance types, families, and sizes
- Optimization of compute utilization
- Scaling strategies (for example, auto scaling, hibernation)

## **13. Design cost-optimized database solutions**

- AWS cost management service features
- AWS cost management tools with appropriate use cases
- Caching strategies
- Data retention policies
- Database capacity planning (for example, capacity units)
- Database connections and proxies
- Database engines with appropriate use cases
- Database replication (for example, read replicas)
- Database types and services

# AWS Certified Solution Architect Associate

**For Enquiry: +91 8680961847**

## **14. Design cost-optimized network architectures**

- AWS cost management service features
- AWS cost management tools with appropriate use cases
- Load balancing concepts (for example, App Load Balancer)
- NAT gateways (for eg, NAT instance costs compared )
- Network connectivity (for example, private lines, etc.,)
- Network routing, topology, and peering
- Network services with appropriate use cases (for eg, DNS)

**Zetlan Technologies**

**Free Advice: +91 9600579474**

**[www.zetlantech.com](http://www.zetlantech.com)**



**LEARN  
REMOTELY!!**

The efficiency of online learning  
in terms of time management,  
flexibility, and the ability  
to access resources anytime,  
anywhere can be compelling.



**ZETLAN TECHNOLOGIES**  
**[www.zetlantech.com](http://www.zetlantech.com)**

**For contact: +91 8680961847  
+91 9600579474**

