

AWS SOLUTIONS ARCHITECT ASSOCIATE

CERTIFICATION TRAINING CURRICULUM

1. Introduction to Computer hardware and software

- Computer Architecture
- Operating systems
- Computer Resources

2. Introduction to Virtualization

- What is computer virtualization?
- Types of virtualization

3. Introduction to Cloud Computing

- What is cloud computing?
- How cloud infrastructures are built using virtualization
- Types of Cloud Architectures: PAAS, IAAS, SAAS, DAAS

4. Introduction to the AWS Course

- Intro and overview
- Getting started
- The Exam Blueprint

5. AWS High Level Overview

- History of AWS Sofar
- Overview

6. Identity Access Management (IAM)

- IAM 101



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- IAM Lab
- IAM Summary

7. AWS Object Storage and CDN – S3, Cloudfront and Glacier

- S3 101 and S3 bucket creation
- Version Control and Cross Regional replication(CRR)
- Life Cycle Management and Glacier
- CloudFront Overview
- Create a CloudFront CDN
- S3 – Security and Encryption
- Storage Gateway
- Snowball and Lab
- S3 transfer Acceleration
- Create a static website using S3
- S3 Summary

8. Elastic Compute Cloud – EC2 – The Backbone of AWS

- EC2 101
- Create and EC2 Instance
- How to use putty to connect to EC2 Instance
- Security Groups
- Upgrading EBS Volume Types
- Creating a windows EC2 Instance and RAID Group
- Create and AMI
- AMI's EBS ROOT Volumes vs Instance Store
- Load Balancers and Health Checks
- Cloud Watch EC2
- AWS Command Line

- Using IAM roles with EC2
- S3 CLI & Regions
- Using Bootstrap Scripts
- EC2 Instance Metadata
- Instance Metadata and User Data
- Autoscaling 101 - Lab
- EC2 Placement Groups - An Exam Must Know!
- EFS - Concepts & Lab
- Lambda - Concepts
- Build A Serverless Webpage
- Using Polly
- Alexa Lab
- EC2 Summary

8. Route53

- DNS 101
- Route 53 - Register A Domain Name - Lab
- Setup Our EC2 Instances - Lab
- Route53-Lab-Bootstrap.txt
- Simple Routing Policy - Lab
- Weighted Routing Policy - Lab
- Latency Routing Policy - Lab
- Failover Routing Policy - Lab
- Geolocation Routing Policy - Lab
- DNS Exam Tips

9. Databases on AWS

- Databases 101

- Launching an RDS Instance - Lab
- RDS - Backups, Multi-AZ & Read Replicas
- DynamoDB
- RedShift
- Elasticache
- Aurora
- Databases Summary

10. VPC – Virtual Private Cloud

- Introduction & Overview 16:10
- Build Your Own Custom VPC
- Network Address Translation (NAT)
- Network Access Control Lists vs Security Groups
- Custom VPC's and ELBs
- NATs vs Bastions
- VPC Flow Logs
- VPC Clean Up
- Summary

11. Application Services

- SQS
- SWF
- SNS
- Elastic Transcoder
- API Gateway
- Kinesis 101



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- Kinesis - Lab
- Cloudformation Template
- Application Services Summary

12. The Real World - Creating a fault tolerant Word Press Site

- Getting Setup
- Setting Up EC2
- Adding Resilience And Cloud Front
- Setting Up Our AMI's
- Configuring Autoscaling & Load Testing
- CloudFormation!
- Want To Be A Real Solutions Architect? You Need To Know CloudFormation!

13. Preparing for the Exam – White paper Reviews

- Overview of Amazon Web Services
- Overview of Security Processes
- AWS Risk & Compliance
- Risk & Compliance White Paper
- Storage Options In The Cloud
- AWS Storage Services Overview
- Architecting For The AWS Cloud: Best Practices
- AWS_Cloud_Best_Practices.pdf
- Exam Practicalities 2:36

14. The Well Architected Framework

- Introduction To The Well Architected Framework
- Pillar One - Security
- Pillar Two - Reliability



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- Pillar Three - Performance Efficiency
- Pillar Four - Cost Optimization
- Pillar Five - Operational Excellence
- Summary of The Well Architected Framework

15. Exam Preparations

- Exam Tips
- Consolidated Billing
- AWS Organizations Lab
- Cross Account Access
- Resource Groups & Tagging
- VPC Peering
- Direct Connect
- Security Token Service
- Active Directory Integration
- Workspaces
- ECS - Part 1 - What Is Docker?
- ECS - Part 2 - What Is ECS?