

[AWS-SAW]: AWS Cloud – Solution Architect Workshop

Length : 3 days
Delivery Method : Instructor-led (Classroom)

Course Overview

Basic Understanding on Linux Commands

Pre-Requisites

Basic Understanding of Linux Commands

At Course Completion

Prepares you as per certification requirements for AWS Solution Architect Associate.

Course Outline

Day 1: AWS- Virtual Private Cloud (VPC)

Lab – Configure a LAMP Environment on AWS EC2 Instance

- What is VPC? – A comprehensive introduction
- Networking bottlenecks
- Understanding VPC configurations
 - VPC with single public subnet
 - VPC with public and private subnet
 - VPC Peering
 - Access control List
- Configuring VPC Instances
 - Creating a VPC
 - Subnets
 - Internet Gateway
 - Routing
 - Configuring a NAT Gateway
 - Creating security groups
 - Launching instances in public and private subnets
- NAT vs Bastions
- VPC Flow Logs
- VPC clean up

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Day1:PM - Amazon EC2 and EBS System operations Lessons

Configure LAMP Config with Database on Private Subnet – WordPress Website

EC2 and EBS - Advanced theory

- Creating your own AMI
- EC2 – Launching instance using own AMI
- EC2 – copy snapshot across region and share across accounts (live demo by instructor)
- Assign volumes to Windows server 2012
- Disassociate and Delete volumes
- Create a new Windows Instance and attach volume.

Day 2: AM - Amazon Elastic Load Balancing (ELB)

Theory and Demo of ELB

Auto Scaling and Bootstrapping

- Overview of Auto Scaling
- ELB: Configuring the Elastic Load Balancer for Auto Scaling group
- Configuring the AMI for Our Web Application
- Auto Scaling and Bootstrapping
- Configure CloudWatch and SNS
- Scale out VM's though stress test

Day 2: PM – RDS

- RDS- An overview
- RDS –read replica
- RDS- Multi AZ failover
- Delete Your RDS instance

Lab: Create LAMP Stack with WordPress on RDS Environment

Summarize the difference between all 3 LAMP Environment Installations

Day 3: AM - Storage

- AWS S3 - Overview and pricing
- Create Bucket and Folder
- Upload, download, share and delete object
- Delete Bucket
- AWS s3- Overview and pricing
- Create Bucket and Folder
- Upload, download, share and delete object

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- File Versioning (S3 version control)
- Cross Region replication
- Setting s3 life cycle policy
- Create a static website in S3
- S3 Transfer Acceleration
- S3 security and encryption

AWS CloudFront

CloudFront overview and pricing

- Create a origin bucket for CloudFront
- Upload file to origin bucket
- Create CDN distribution and use origin bucket
- Access files through CloudFront distribution

Database options

- DynamoDB – Overview and use case
- Redshift – Overview and use case
- Elastic cache – Overview and use case
- Aurora DB – Overview and use case
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AWS route 53

- Route 53 - routing options
- Simple routing - Hands on lab
- weighted routing policy lab
- latency based routing lab
- Geolocation based routing lab
- failover routing lab

Day 3:PM -App services

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

AWS exam tips

- Exam blue print overview

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