AWS Solution Architect, Workshop

Contents

Section 1: Introduction to The Course

- 1. Introduction & Overview
- 2. Getting Started What You'll Need!
- 3. The Exam Blue Print

Section 2: AWS Overview

- 1. The History of AWS So Far
- 2. AWS Overview
- 3. Sign Up to AWS Free Tier

Section 3: EC2 - The Backbone of AWS

- 1. EC2
- 2. Launch an EC2 Linux Instance
- 3. How to Use Putty? (Windows Users Only)
- 4. Security Groups Basics
- 5. Upgrading EBS Volume Types
- 6. Creating a Windows EC2 Instance & RAID
- 7. Create an AMI
- 8. AMI's EBS Root Volumes Vs Instance Store
- 9. Load Balancing Theory
- 10. Load Balancers & Health Checks
- 11. Cloud Watch EC2
- 12. The AWS Command Line & EC2
- 13. Using IAM roles with EC2
- 14. S3 CLI & Regions
- 15. Using Bootstrap Scripts
- 16. EC2 Instance Metadata
- 17. Auto scaling
- 18. EC2 Placement Groups
- 19. EFS Concepts & Lab
- 20. Lambda Concepts
- 21. Build A Server less Webpage
- 22. Build an Alexa Skill

Section 4: IAM - Service

- 1. IAM Service Overview
- Create A Billing Alarm Lab
 IAM Summary

Section 5: AWS Object Storage and CDN - S3, Glacier

- 1. S3 Introduction
- 2. Create an S3 Bucket
- 3. Version Control
- 4. Cross Region Replication
- 5. Lifecycle Management & Glacier
- 6. CloudFront CDN Overview
- 7. Create a CloudFront CDN
- 8. S3 Security & Encryption
- 9. Storage Gateway
- 10. Snowball
- 11. S3 Transfer Acceleration
- 12. Create A Static Website Using S3

Section 6: Route53

- 1. DNS
- 2. Route 53 Register A Domain Name

3. Different Routing Types On AWS

- 4. Simple Routing Policy
- 5. Weighted Routing Policy
- 6. Latency Routing Policy
- 7. Failover Routing Policy
- 8. Geolocation Routing Policy
- 9. Multivalue Routing

Section 7: Databases on AWS

- 1. Databases
- 2. Launching an RDS Instance
- 3. RDS Backups, Multi-AZ & Read Replicas
- 4. DynamoDB
- 5. RedShift
- Elasticache
- 7. Aurora

Section 8: VPC

- 1. Introduction & Overview
- 2. Build Your Own Custom VPC
- 3. Network Address Translation (NAT)
- 4. Network Access Control Lists Vs Security Groups
- 5. Custom VPC's and ELBs
- 6. VPC Flow Logs
- NATs vs Bastions
- 8. VPC End Points
- 9. VPC Clean Up

Section 9: Application Services

- 1. SOS
- 2. SWF
- 3. SNS
- 4. Elastic Transcoder
- 5. API Gateway
- 6. Kinesis

Section 10: Creating a fault tolerant Word Press Site

- 1. Getting Setup
- 2. Setting Up EC2
- 3. Setting Up Our AMI's
- 4. CloudFormation!

Section 11: The Well Architected Framework

- 1. Introduction to This Section
- 2. Architecting for The AWS Cloud: Best Practices
- 3. Introduction to The Well Architected Framework
- 4. Pillar One Security
- 5. Pillar Two Reliability
- 6. Pillar Three Performance Efficiency
- 7. Pillar Four Cost Optimization
- 8. Pillar Five Operational Excellence
- 9. Summary of The Well Architected Framework

Time Frame

Daily Duration	Total Hours	Days
2 Hrs Per Day	40	20

GRRAS Solutions Pvt. Ltd.

307, Tulsi Towers, Geeta Bhavan, Indore.

Mob.: 951 656 1091, Land Line - 0731 - 4977 483, Email - v.pranit@gmail.com, Website - www.grras.com