

AWS COURSE CURRICULUM

CHAPTER 1: INTRODUCTION

- Introduction to the cloud
- Getting started what all you need
- The exam blue print discussion

CHAPTER 2: CLOUD COMPUTING

- Introduction to Cloud Computing
- Why Cloud Computing?
- Benefits of Cloud Computing
- Types of Cloud Computing
- Public Cloud
- Private Cloud
- Hybrid Cloud
- Community Cloud
- Security
- Costing Model

CHAPTER 3: INTRODUCTION TO AWS

- Signing up for AWS
- AWS Free usage tier
- Introduction AWS management console
- Regions and Availability Zones – How to choose the right one
- AWS Marketplace

CHAPTER 4: EC2 – ELASTIC CLOUD COMPUTE

- EC2 concepts
- Amazon Machine Images (AMI)
- Security groups
- Public and Private IP's
- Key Pairs
- Elastic IP's

- Instance Types
- Finding the right AMI
- Launching an instance – How to choose the right instance type

CHAPTER 5: AMAZON ELASTIC BLOCK STORE – EBS

- Create and Delete EBS volumes
- Attach and detach EBS volumes
- Mounting and unmounting EBS volume
- Creating and deleting snapshots
- Creating volumes from snapshots S3(Simple Storage Service)
- Upgrading EBS volume types

CHAPTER 6: SIMPLE STORAGE SERVICE

- Introduction to S3
- Creating and deleting buckets
- Adding objects to buckets
- Permissions
- Object Versioning
- Lifecycle Policies
- Durability and redundancy
- Security and Encryption
- Cross Region Replication
- Storage Gateway
- Import Export
- S3 Transfer Acceleration
- Glacier storage
- Snowball
- Create a static website using S3

CHAPTER 7: CLOUD WATCH

- Monitoring the AWS Service Health Dashboard
- Using Cloud watch for Monitoring
- Setting up your metrics
- Setting up notifications
- Creating Alarms/ Events

CHAPTER 8: ELASTIC LOAD BALANCER (ELB)

- Components and types of load balancing
- Health Checks
- Load Balancing with EC2

CHAPTER 9: IDENTITY AND ACCESS MANAGEMENT (IAM)

- Creating Users and Groups
- Applying policies
- Password Policy
- Roles
- Creating a Billing alarm

CHAPTER 10: RELATIONAL DATABASE SERVICE (RDS)

- Selecting the Engine
- Configuring the Database Engine
- Setting up automatic backups
- Multi Availability Zone
- Read Replicas
- Authorizing access to the DB via DB Security Groups
- Dynamo DB
- Redshift
- Elastic Cache
- Aurora DB

CHAPTER 11: VIRTUAL PRIVATE CLOUD (VPC)

- Introduction to Amazon Virtual Private Cloud (VPC)
- VPC Advantages
- Default and Non-default VPC
- Components of VPC

CHAPTER 12: AMAZON CLOUD FRONT

- How Cloud Front Delivers Content
- Locations and IP Address Ranges of Cloud Front Edge Servers

- Working with Distributions
- Working with Objects

CHAPTER 14: ROUTE 53

- Registering Domain Names
- Configuring Amazon Route 53 as Your DNS Service
- Working with Public/Private Hosted Zones
- Working with Resource Record Sets
- Understanding routing policie
- Using Traffic Flow to Route DNS Traffic
- Health Checks and DNS Failover

CHAPTER 15: APPLICATION SERVICES

- SQS – Simple Queue Service
- SWF – Simple Workflow Service
- SNS – Simple Notification Service
- API Gateway
- Kinesis
- Lambda
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How to launch python from AWS

EXAM TIPS