

AWS Technical Essentials

- History of AWS
- Introduction to the AWS products

- Ec2 Instances
 - Launching your first AWS instance
 - On-demand Instance pricing
 - Reserved Instance pricing
 - Spot instance pricing
 - Setting up security
 - Security groups
 - Choosing the AMI
 - Creating a new AMI
 - Public and Private IP's
 - Deploying a new instance from the created AMI
 - Key Pairs
 - Elastic IP's
 - ELB(Elastic Load Balancer)

- VPC
 - VPC configuration
 - VPC security
 - Elastic IP's Inbound and outbound ACL's

- Cloud Front
 - Use of cloud front
 - Creating a cloud front distribution
 - Hosting a website of cloud front distribution
 - Implementing restrictions
 - Configuring origins and behaviors

- Route53
 - Creating zones
 - Hosting a website
 - Understanding routing policies
 - Weighted simple and failover policies

- Direct Connect

- S3

- RRS(Reduced Redundancy storage)
- S3 durability and redundancy
- S3 Buckets
- S3 Uploading Downloading
- S3 Permissions
- S3 Object Versioning
- S3 Lifecycle Policies

- EBS
 - Create EBS volumes
 - Delete EBS Volumes
 - Attach and detach EBS volumes
 - Mounting and unmounting EBS volume
 - Creating and deleting snapshots
 - Creating volumes S3(Simple Storage Service)
 - S3 Lifecycle Policies

- Glacier

- RDS
 - Selecting the Database type
 - Configuring the database
 - Creating database
 - Configuring backups
 - Configuring the maintenance windows
 - Connecting to the database

- Dynamo DB
 - Creating a dynamo db.
 - Configuring alarms
 - Adding data manually

AWS Sysops

- IAM
 - Creating Users and Groups
 - Applying policies
 - Password Policy
 - Roles

- Directory Service

- Cloud Watch
 - Cloud watch dashboard
 - Configuring Monitoring services
 - Configuring actions
 - Creating a cloud watch alarm
 - Getting statistics for ec2 instances
 - Monitoring other AWS services
 - Configuring Notifications
 - Integrating cloud watch with Autoscaling

- Cloud Formation
 - What is cloud formation?
 - Deploying template
 - Create Stack
 - Delete Stack
 - Monitoring the resources

- ELB
 - Create an Application Load Balancer
 - Create a Network Load Balancer
 - Create a Classic Load Balancer

- Auto Scaling
 - Boot strapping
 - Create a launch configuration
 - Create an Auto Scaling group Create a policy
 - load-balanced Amazon EC2 application

- SNS
 - What is SNS
 - Creating a topic
 - Create subscription

- SES