

AWS Course Content

- Create an AWS Account (Signup)
 - Personnel Account Type
 - Professional Account Type
- Overview of AWS Free Tier (12 Months of Free Tier Access)
 - AWS Cost Explore
 - AWS Budgets
- Cloud Computing
 - Components of Cloud Computing
 - Advantages of Cloud Computing
 - Types of Cloud Computing
 - Physical Vs Virtual Vs Cloud Architectures
 - Private, Public and Hybrid Cloud
 - AWS Vs GCP Vs Azure
- AWS MGT Console Kick-Start
 - AWS Region
 - AWS Availability Zone (AZ)
- Illustration of Cloud Architecture
 - AWS Management Console Walk-Through
- Default Services offerings from AWS
 - VPC
 - Subnet
 - Main Route Table
 - DHCP Options Set
 - Network ACL
- Introductions to Classless Inter-Domain Routing (CIDR)
 - Online Calculator
 - Offline Calculation
 - Secondary CIDR
- Launch Virtual Private Cloud (VPC)
 - Create Subnet (Private/Public)
 - Create Route Table (Private/Public) and attach to Subnets
 - Create an internet Gateway (IGW) and attach to VPC
 - Create a NAT (Network Address Translation) Gateway
 - VPN (Virtual Private Network)
 - VPC Peering (Cross Region and Cross Account Level)
 - Secondary CIDR
 - Transit Gateway

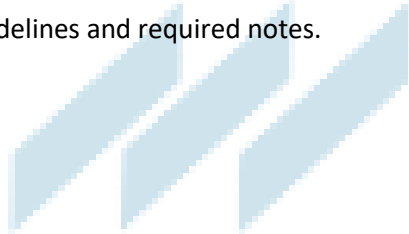
- VPC Endpoints
- Launching an EC2 Instance
 - Amazon Machine Image (AMI)
 - EC2 Volumes (EBS)
 - EC2 (Elastic Compute Cloud) Instance Types
- Public IP, Private IP and Elastic IP
 - AWS Tagging Strategies
 - Privacy Enhanced Mail (.pem) file and PuTTY Private Key (.ppk)
- Managing Linux Instance
 - Launch Linux EC2 (Elastic Compute Cloud) Instance
 - SSH to Linux EC2 (Elastic Compute Cloud) Instance
 - Manage Linux EC2 (Elastic Compute Cloud) storage
 - Managing Tagging Strategies for your Linux Instance
 - Basic OS Administration of Linux
 - Security of Windows EC2 Instance
- Managing Windows Instance
 - Launch Windows EC2 (Elastic Compute Cloud) Instance
 - RDP to Windows EC2 (Elastic Compute Cloud) Instance
 - Manage Windows EC2 (Elastic Compute Cloud) storage
 - Managing Tagging Strategies for your Windows Instance
 - Basic OS Administration of MS Windows
 - Security of Windows EC2 Instance
- Managing EBS (Elastic Block Storage)
 - Create/Attach/Delete EBS Volumes
 - Mount/Unmount EBS Volumes
 - Backup and Restore
- EBS Snapshots and Instance AMI
 - Create EBS Volume Snapshots
 - Deploy Volume from Snapshots
 - Create Custom Image of EC2
 - Launch Instance through Custom AMI (My AMI)
- EC2 Auto Scaling
 - Amazon Machine Image (AMI)
 - Launch Configuration
 - Launch Templates
 - Auto Scaling Groups
- EC2 Image Builder
 - Image Pipelines
 - Recipes

- Load Balancer and Target Groups (ELB)
 - Create Application Load Balancer (ALB)
 - Overview Network Load Balancer (NLB)
 - Overview Classic Load Balancer (CLB)
- Storage – File System
 - Elastic File System (EFS)
 - Amazon FSx
- IAM (Identity Access Management)
 - IAM users and Groups
 - Roles and Policies
 - Multi Factor Authentication (MFA)

 - IAM Cross Account Role
 - Single Sign On (SSO)
 - Key Management System (KMS)
 - Secrets Manger
 - Directory Service
 - AWS Inspector
 - WAF
- Managing S3 (Simple Storage Service)
 - Create a Bucket in S3 (Simple Storage Service)
 - Storage Classes
 - Versioning
 - Life Cycle management
 - Bucket Replication
 - Backup and Restore
 - S3 Bucket Policies Vs IAM Policies
 - Security and Encryption
 - Monitoring using Cloudwatch in in S3 (Simple Storage Service)
 - Glacier
 - Storage Gateway
 - Durability and Availability
 - AWS Backup
- Database (DB)
 - Relational Data Base (RDS)
 - DynamoDB (No SQL)
 - Redshift (Data warehouse)
 - Backup and Restore
 - DB Integration Test (WordPress)
- AWS Analytics

- Export DynamoDB Tables into S3 using Datapipeline
 - EMR (Elastic Map Reduce)
 - Athena
 - CloudSearch
- AWS advanced Management Tools
 - AWS Organizations
 - CloudTrail
 - Trusted Advisor
 - Systems Manger
 - AWS Organizations
 - CloudWatch
 - Resource Groups & Tag Editor
 - Personal Health DashBoard
 - Config
 - OpsWorks
 - AWS Auto Scaling
 - AWS Well Architected Tool
- AWS Compute Optimizer
 - Amazon Grafana
 - Amazon Prometheus
- AWS Migration Tools
 - AWS Migration Hub
 - AWS Snow Family (Export/Import)
 - Database Migration Service (DMS)
 - Server Migration Service (SMS)
 - DataSync
- Infrastructure as a Code (IaC)
 - CloudFormation
 - Deployment of Infrastructure using CloudFormation
 - JSON and YAML
- AWS Notification System
 - Simple Notification Service (SNS)
 - Simple Email Service (SES)
 - Simple Queue Service (SQS)
- AWS Serverless Computing platform
 - Lambda
 - Functions
- Overview of AWS Native DevOps Tools
 - CodeStar

- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- AWS Native Container Tools
 - ECS (Elastic Container Service)
 - EKS (Elastic Kubernetes Service)
 - ECR (Elastic Container Registry)
- Infrastructure as a Code
 - Automate AWS Cloud Infrastructure using CloudFormation
 - Using Terraform launch infrastructure in AWS
- Summary
 - Automate AWS Using Python (Boto3)
 - Scenario based Question and Answers
 - Handbooks and lab manuals
 - Resume Evolution
 - Certification Guidelines and required notes.



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