**AWS Syllabus**

**Course Code : CLF-C02**

|  |  |
| --- | --- |
| Day 1 | **AWS Account Creation**   * Hands-on- Account creation   **Virtualization**   * Introduction to Virtualization * Hands-on-Virtualization   **Cloud Computing**   * Introduction to Cloud Computing * AWS Overview * History and Evolution of AWS * Overview of AWS Products and Services   **Global Infrastructure**   * Overview * Availability Zones * Edge Locations   **AWS Portal overview** |
| Day 2 | **Billing and management**   * Overview * Cost Management * Hands-on- Budget creation   **Elastic Compute Cloud (EC2)**   * Cloud Compute with AWS * Amazon EC2 Overview * Amazon Machine Images (AMI) * Hands-on Launch and connect to an EC2 Windows instance Demo 1 * Hands-on- Launch and connect to an EC2 Linux instance Demo 2 * Hands-on- Elastic Load Balancing (ELB) * Hands-on- Auto scaling |
| Day 3 | **Identity Access Management**   * Identity and Access Management (IAM) * IAM Overview and Policies * Hands-on-IAM Users, Groups, and Roles * IAM Best Practices * Hands-on Configuring IAM Access * Hands-on- Elastic Beanstalk |
| Day 4 | **Amazon Route 53**   * Amazon Route 53 * Amazon Route 53 Concepts   **Amazon Simple Storage Service (S3)**   * Amazon Simple Storage Service (S3) * S3 Overview and Buckets * Hands-on- Bucket creation * Hands-on- Static Webpage creation   Version Control and Lifecycle Management |
| Day 5 | **DataBase**   * Databases * Databases Overview * Amazon Relational Database Service (RDS) * Hands-on- Database creation   **Simple Queue Services**   * Hands-on**-**SQS   **Simple Notification Services**   * Hands-on- SNS * Hands**-**on-SQS Integrated with SNS |
| Day 6 | **CloudWatch**   * Introduction about CloudWatch * Hands-on-EC2 State Change Notification   **Lambda**   * Overview * Functions using Lambda * Hands-on- Automatic backup (S3 Bucket) * Hands-on-upload Notification (S3 Bucket) * Hands-on- Start and Stop Schedule in Ec2 * Hands-on- Alexa creation |
| Day 7 | **Containerization**   * Overview of Containerization * Hands-on- Create Container using docker Engine in Ec2   **GITHUB**   * Overview * Hands-on- Git hub account creation and access code using Git hub   **AWS Services Overview**   * Understanding the services in AWS |
| Day 8 | **Cloud Front**   * Hands-on- Cloud Front   **Amazon Virtual Private Cloud (VPC)**   * Amazon Virtual Private Cloud (VPC) * Amazon VPC and Subnets * Hands-on- VPC and Subnets   **Amazon Athena**   * Hands-on- Amazon Athena |
| Day 9 | Model Exam |
| Day 10 | AWS Cloud Practitioner Final Exam |