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**Summer Online Internship Program  
(in collaboration with Ajay Kumar Garg Engineering College)**

**Fees : INR : 4700/-**

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**Duration : 40 Hrs/ 6 weeks**

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**Training: Cloud Computing with AWS**

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**CONTENT**

Introduction to Cloud Computing  
What is virtualization?  
Amazon Web Services (AWS)  
Introduction to AWS Elastic computing  
Introduction to the AWS products  
Regions and Availability Zones  
Signing up for AWS  
AWS Free usage tier  
Introduction AWS management console

EC Instances  
Understanding AMI  
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)

EBS(Elastic Block Storage)  
Create EBS volumes  
Delete EBS Volumes  
Attach and detach EBS volumes  
Mounting and unmounting EBS volume

## Creating and deleting snapshots Creating volumes from snapshots S(Simple Storage Service)

### What is S

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

### Glacier storage

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

### CloudFront

- Use of cloudfront
- Creating a cloudfront distribution
- Hosting a website of cloudfront distribution
- Implementing restrictions
- Configuring origins and behaviors

### Identity access management (IAM)

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

### Amazon Virtual Private Cloud (VPC)

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

### Cloud Formation

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

### Relational Database Service (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

### CloudWatch

- Cloudwatch dashboard
- Configuring Monitoring services
- Setting thresholds
- Configuring actions
- Creating a cloudwatch alarm
- Getting statistics for ec instances
- Monitoring other AWS services
- Configuring Notifications
- Integrating cloudwatch with Autoscaling

#### Autoscaling

- Boot straping
- Create a launch configuration
- Create an Auto Scaling group
- Create a policy for your Auto Scaling group

Set up an auto-scaled, load-balanced Amazon EC application

#### Simple Notification Service (SNS)

- What is SNS
- Creating a topic
- Create subscription
- Subscribed to the subscription

SQS

SES

Elastic Beanstalk

Command line management.