DevOps with Cloud WhatsApp channel for daily updates: https://whatsapp.com/channel/0029VbA8U9I9cDDXkHEdGx1d

AWS Cloud Bootcamp

Pre-Requisites

- 1) AWS Free Tier Account
- 2) Basic Knowledge on Linux

Course Content

1) What is IT infrastructure

- 2) On-Prem vs Cloud Infrastructure
- 3) AWS Cloud Introduction
- 4) AWS Cloud Services Tour
- 5) AWS Cloud account setup (Free Tier)
- 6) EC2 + Load Balancing + Auto Scaling
- 7) S3 (Console Access + Programmatic)
- 8) RDS (Relational Databases)
- 9) IAM (Users management)
- 10) BeanStack (PAAS)
- 11) AWS Lambdas (Serverless computing)
- 12) Route 53 (DNS mapping)

Course Details

Duration : 2 weeks

Class Timings : 8:30 AM to 10:00 AM IST

Daily Soft copy notes

Course Fee: 1999 INR

Backup videos : 499 INR

Ubot is IT To Constructions 2

=> Resources required to run the business

software company : building

power network machiness databases security monitoring

On-Prem infrastructure

- => purchase and manage all the resource required to run our business. That is called as "On Prem Infrastructure"
- => We have several challenges with on-prem infrastructure
 - 1) Lot of money investment
 - 2) Lot of time investement
 - 3) Availability issues
 - 4) Scalability issues (increase or decrease)
 - 5) Backup and Restore issues
 - 6) Disaster Recovery issues
 - 7) Storage issues

What is Cloud Computing ?

- => Providing IT infrastructure thru internet on demand basis is called as Cloud Computing.
- => Cloud computing works based on 'Pay as you go' model.

Ex: Post paid bill, credit card bill...

- => We have several advantages with cloud computing
 - 1) No prior investment
 - 2) Pay as you go
 - Scalability
 - 4) Availability (24*7)
 - 5) Security
 - 6) Unlimited Storage

7) Backup and Restore

=> SaaS stands for software as a service

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Cloud Provider
==========
=> The company which is providing cloud infrastructure then it is called as cloud provider.
Ex:
1) Amazon
2) Microsoft
3) Google
4) Salesforce
5) Alibaba
6) Digital Ocean
_____
Cloud Service Models
1) IAAS
2) PAAS
3) SAAS
=========
What is IaaS
=========
=> IAAS stands for infrastructure as a service
=> Provider will give infrastructure for us
       Ex: Machines, Network, Storage
=> As a customer we need to prepare platform (env) to run our application.
 Ex: install required softwares + setup web servers + deploy application.
 Ex: EC2, VPC, S3
=========
What is PaaS
=========
=> PaaS stands for Platform as a service
=> Provider will give ready made platform to run our application directley.
       Ex: Beanstack, Lambads
===============
What is SaaS
```

-> Cloud Provider will give their application to run our business. Ex : zoom, microsoft teams, jira... Ex : Salesforce CRM ______ What is AWS => AWS stands Amazon Webservices. => AWS is a cloud platform managing by amazon company. => AWS cloud started in 2006. => AWS providing IT infrastructure based on "pay as you go" model. => 190+ countries using aws cloud services. => AWS providing cloud resources in the world using global infrastructure concept. => AWS maintaing global infrastructure by using regions and availabilty zones concept. Region = Geographical location A.Z = data center (server room) Note: In one region multiple AZs will be there. In India 2 regions they are Mumbai & Hyd Mumbai (ap-south-1) since 2016 with 3 AZs Hyd (ap-south-2) since 2022 with 3 AZs => AWS having 37 regions and 117 availability zones (as of 28th jun 2025). @@ AWS Account Setup : https://www.youtube.com/watch?v=xi-JDeceLeI @@ Making AWS Account Bill Amount Zero : https://www.youtube.com/watch?v=PvSGOheevL4 ______ ========== AWS Services ========= => We have 200+ Services..... 1) EC2: Elastic Compute Cloud => EC2 is used to create Virtuals Machines in AWS Cloud. 2) S3 : Simple Storage Service => S3 provides unlimited storage in aws cloud. 3) RDS: Relational Database service

- => RDS is used to setup Relational Databases in the aws cloud (Ex: Oracle, MySql, PostGres..)
- 4) IAM : Identity and Access Management
 - User Accounts
 - User groups
 - User policies
 - Roles
- 5) Elastic Beanstack : End to end Web app mangement service (PaaS).
- 6) Route 53 : Domain Mapping Service
- => It is used to map our application URL to domain name.
- 7) AWS Lambdas : Serverless computing
- => Run your application without thinking about servers.
- 8) VPC: Virtual Private Cloud.
- => VPC provides isloated network for the resources in the aws cloud.
- 9) CloudWatch : To monitor resources in the AWS cloud.
- 10) SNS: Simple Notification service.
- 11) SES : Simple Email Service
- 12) ECS : Elastic Container Service (To run docker containers)
- 13) EKS : Elastic Kubernetes Service (To setup kubernetes cluster)
- 14) Dynamo DB : It is no-sql database in aws.
- 15) API Gateway : Acts as Entrypoint for our apis. We can use it for security.