



AWS DEVOPS

Introduction to AWS DEVOPS

What is DevOps in cloud?

History of DevOps

DevOps and software life cycle

DevOps main objectives

IAAS overview

PAAS overview

SAAS overview

Continuous testing and Integration

Continuous Release and deployment

Continuous Application monitoring

AWS Web Services

Basic of Linux for AWS

cd , mkdir , ls, jobs, chmod, vim ,vi&cat, gzip and many more

Amazon Elastic Compute Cloud (EC2) (Complete)

- Different instance types
- AMI's
- Volumes
- Snap shots
- EIP's
- Key pairs
- Security groups
- Network Interfaces
- Load balancers
- Auto scaling
- Tags

AWS S3

- What is S3?
- Creation of Buckets & objects
- Adding objects to buckets
- Notifications
- S3 data encryption types
- Hosting a static Website
- Pre-signed URL
- Permissions
- Distributions
- Relation between Cloud front,S3&glacier

VPC

- VPC basics
- Public subnet & Private subnets
- Network Access Control List's
- Difference between Network ACL & Security groups
- Difference between NAT instances & NAT Gateways
- Creation of Route tables

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- Creation of Internet gateways(IGW)
- DHCP option sets
- DNS
- Launch Servers with VPC
- VPC peering
- VPN overview & components

IAM

- Creation of user accounts
- Creation of Group
- Basics of AWS permissions
- Creation of Roles
- Difference between Roles & policies
- What is IAM Profile
- Creation of custom Policies for delegation
- Setting up Multi Factor Authentication (MFA) authentication
- User permissions
- Access key & Secret Key

Dynamo DB

- What is no sql technologies
- Dynamo DB capacity
- Create tables & do a simple projects

RDS

- DB Instances
- Creating your database
- RDS Limits
- Setting up automatic backups, snapshots & restores
- Managing Mysql Database server
- Deleting or Rebooting a DB instance
- Working with storage types
- Security: Using IAM to manage Access to Amazon RDS Resources

Redshift

- Difference between other databases like (Dynamo DB & RDS) to Redshift
- How queries are run regardless of data size
- What is parameter groups
- What is workload management

Direct connect

- What is dedicated network connection
- How to establish private connection between AWS & your data center
- Configure virtual interference
- Connect your network to AWS

Route 53

- Configuring Amazon Route 53 as your DNS Service
- Registering a Domain Name and configuring as the DNS Service

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- Migrating DNS Service for an existing domain to Amazon Route 53
- How to create Hosted Zone
- Types(Cname, IP address, MX)
- Working with Public Hosted Zones
- Working with Private Hosted Zones
- Change reference to meet Cname
- Creating ,Updating and Deleting health checks

ElastiCache

- ElastiCache Terminology and concepts
- Backup and Restore
- Clusters explanation
- Managing ElastiCache
- Managing Replication Groups
- DNS Names and Underlying IP

Config

- How to provide an inventory of your AWS resources & a history of configuration changes to these resources
- Automatically discovers AWS resources using simple setup
- How to create customize rules

Trusted Advisor

- How to make cost optimization
- Performance
- Security
- Fault Tolerance

Elastic Beanstalk

- Creation of Web-App
- Building a sample application
- Modifying the properties of the deployment

Glacier

- Creating Vaults
- Working with Archives
- Accessing the Glacier vault using tools
- Data retrieval policy operations

SES

- Email Services
- SMTP Services

SQS

- Queue creations
- Retention periods
- Dead letters





SNS

- Topic
- Subscriptions
- Notifications & Apllications

Cloud Watch

- Debugging cloud related issues
- Different Metrics
- Monitoring
- How to create Custom metrics

Cloud Formation

- Cloud formation templates
- Complete resources & explanation with sample templates

Cloud Front

- How Cloud front delivers content
- Working with web distributions
- Request and Response behavior
- Serving private content through cloud front

Cloud Trail

- How to track records of your AWS API calls
- Troubleshoot operational and security incidents

Code deploy

- Why Code deploy
- How to apply patch with Code Deploy

Workspaces

Automation of jobs:

Ienkins

Provisioning tools

- Chef basics
- Salt stack

Monitoring tools

Check_mk (Nagios)

Network Concepts

- Active directory
- Computer name
- Network commands

Languages

- Pvthon
- PowerShell
- Java
- C#.net
- AwsCli Commands

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