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-BY KUNAL SIR.



# AWS & Azure With DevOps

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# About Us



**Mr. Kunal Sonu**, the Director of Complete Java Classes has Masters degree in Computer Application. He has **13+ years of experience** as a certified trainer in Java/J2EE technologies. We provide this industry level knowledge to our valuable candidates which is helpful for candidates to getting placed in the IT industry. Complete java classes by kunal sir is IT carrier building platform for students and job seekers. We have a team of highly skilled and Professional trainers so we can provide a better assistance of our students.

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- 👉 We provide the guidance for building the resume.
- 👉 Providing the Batch shifting facility (In a year) .
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- 👉 We provide digital class room facility.
- 👉 Availability of weekdays and weekend batches.

# Amazon Web Services

## Key Topics

- Cloud Computing
- Amazon Web Service (AWS)

## Cloud Computing

- What is Cloud Computing
- Why Cloud Computing?
- Advantages of Cloud Computing
- What is Private Cloud
- What is Public Cloud
- What is Hybrid Cloud
- What is Software as a Service (SaaS)
- What is Platform as a Service(PaaS)
- What is Infrastructure as a Service (IaaS)
- Basics of Linux



## Amazon Web Service(AWS)

- Amazon Elastic Compute Cloud(EC2)
- Amazon Simple Storage Service (S3)
- Elastic Block Storage (EBS)
- Elastic Load Balancing (ELB)
- Amazon Relational Database Service (RDS)
- Amazon DynamoDB
- Auto Scaling
- Identity and Access Management (IAM)
- Virtual Private Cloud (VPC)
- Cloud Formation
- Simple Email Services (SES)
- Simple Queue Services (SQS)
- Simple Notification Services (SNS)
- Cloud Trail
- Elastic Beanstalk
- CloudFront



- Route-53
- Glacier
- Key Management Service (KMS)

## **UNDERSTANDING OBJECT STORAGE**

- Explain AWS Storage
- AWS Simple Storage Service – S3
- Creating an AWS S3 bucket
- AWS Storage Gateway
- What is Command Line Interface (CLI)
- What is Amazon S3
- Understanding Amazon Glacier storage for long-term data backup and archiving

## **UNDERSTANDING DATABASE SERVICES**

- What is Elastic Block Storage (EBS)
- Relational Data bases Amazon RDS
- What is Amazon DynamoDB – No SQL Data base

## **AUTO SCALING**

- Introduction to auto scaling
- Auto scaling components
- Launch configuration Prerequisites
- How to Create Launch Templates
- How to Create Auto Scaling Groups (ASG)
- How to Attach & Detach EC2 Instances in ASG
- configuring auto scaling policies based on the Load on EC2 instances.
- Using Auto scaling with Elastic Load balancer (ELB).
- Removing the Instances Temporarily
- Suspend and Resume Process
- Shut Down – Auto Scaling Process
- Monitoring – Auto Scaling Instances
- Health Checks
- Getting Notifications When ASG Changes

## **ELB – ELASTIC LOAD BALANCING**

- What is ELB
- How to Create load balancer
- What is Internal & External Load balancers
- Load balancing protocols
- What is Listener Configurations
- What is SSL Negotiation Configurations
- How to Attach & Detach Subnets
- Creating Security groups for the load balancer
- Configuring health check for the load balancer
- Adding multiple instances to the load balancer
- What is Sticky Sessions
- Perform Monitoring and Logging

## **VIRTUAL PRIVATE CLOUD (VPC)**

- Setting up the different types of networks in AWS
- How to Create custom VPC
- What is NACLs & Security Groups
- How to Create Internet Gateway(IGW)
- How to Connect to instances in the gateway
- What is Subnets, Route Tables & Association
- NAT Instances & NAT-Gateways
- DHCP Options Sets & DNS
- VPC Peering
- Overview of VPN and its components

## **APPLICATION SERVICES**

- **Study about AWS application services**
- **Learn Elastic Beanstalk**
- **Learn Simple Email Services**
- **Learn Simple Notification Service**
- **Learn Elastic OpsWorks and CLI**

## **IDENTITY AND ACCESS MANAGEMENT (IAM)& MONITORING**

- **What is IAM**
- **What is Monitoring**
- **To Create user accounts**
- **To Set up multi factor Authentication (MFA)**
- **IAM Roles & IAM Groups**
- **CloudWatch**

## Key Topics

- Microsoft Azure
- Azure SQL
- Azure DevOps
- Agile
- Git
- Docker
- Kubernetes

## Microsoft Azure

- Introduction to Azure
- Azure Hosting Models
- Azure Services
- Subscribing to Microsoft Azure
- Azure Portals
- Azure Resource Group
- Installing Microsoft Azure SDK
- App Types
- Deploying Web App directly from Visual Studio
- Monitoring, Debugging and Diagnosis
- Comparing SQL Azure Database to Azure/ On Premise SQL Server
- Creating and Using SQL Server and SQL Database
- Azure SQL Database Tools
- About Azure Storage
- API Management Services
  - Working with Storage Tables, Blobs, Files
  - Working with Azure Queues
- Azure Service Bus
  - Relayed Messaging
  - Service Bus Queues
  - Topics and Subscriptions
- Azure Active Directory
  - IAM Role and polices
  - MFA (multi factor authentication)



## Azure IAAS Virtual Machine

- Comparing VM with Web Apps and Cloud Services
- Create a Windows/Linux Virtual Machine using Portal / PowerShell
- Understanding and Capture VM Images
- Deploy a New VM Instance from the captured Image
- Deploy popular application frameworks by using Azure Resource Manager Templates
- Understanding and Creating Availability Sets.
- Load Balancing between multiple Virtual machines

## Linux operating system

- Introduction to operating system
- Architecture and Dile hosting in linux
- General purpose Commands
- Networking Concepts
- Package Manager –installing Software on linux
- SSH Secure Shell
- Shell scripting
- Network Protocol

## Azure PAAS Virtual Machine

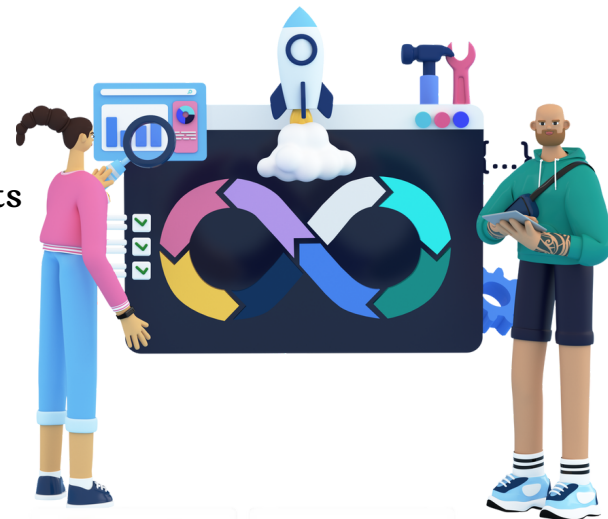
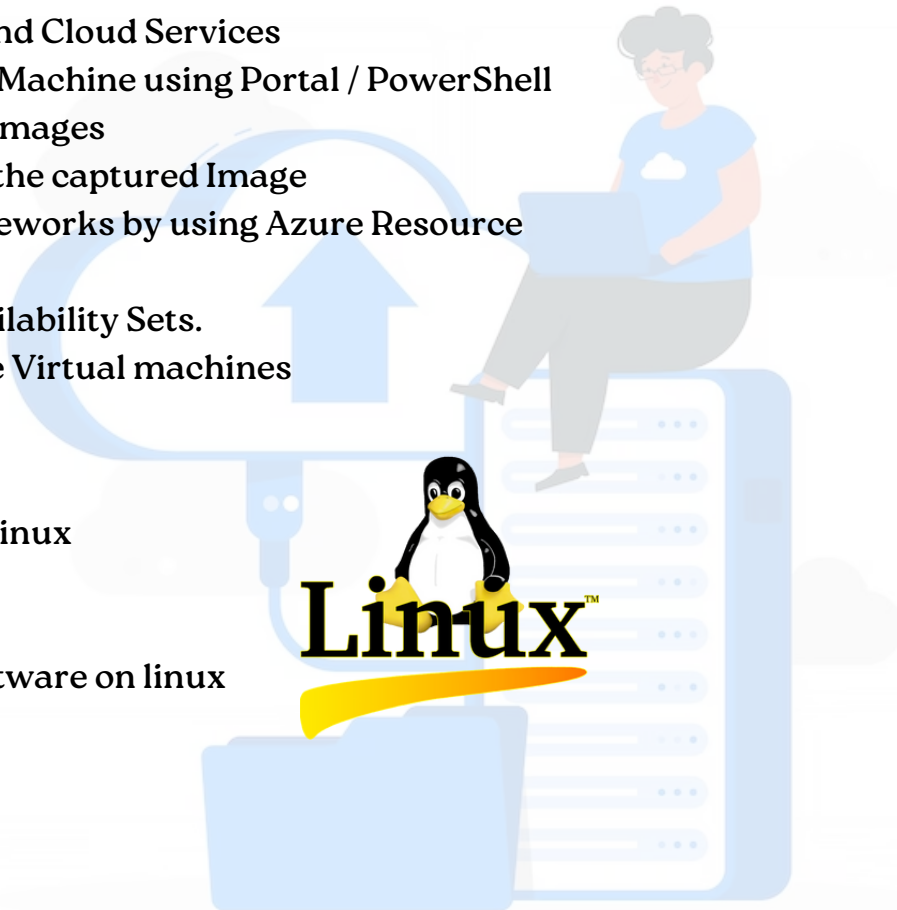
- Azure app service-web app
- Function app
- Logic app

## AUTO SCALING

- Introduction to auto scaling Auto scaling components
- Attach & Detach VM's
- configuring Scale set policy
- Shut Down - Auto Scaling Process Monitoring -
- Auto Scaling VM Health Checks

## Azure SQL And CosmosDB

- Introduction
- Create blank database in Azure SQL database
- Create server level IP firewall rule
- Connect with database
- Create tables in database
- Load data into tables
- Query data
- Create container and database in cosmosdb
- CRUD operation using SQL and CosmosDB



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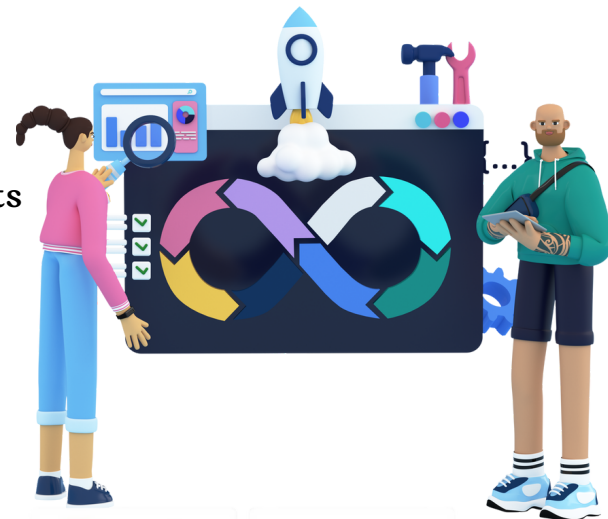
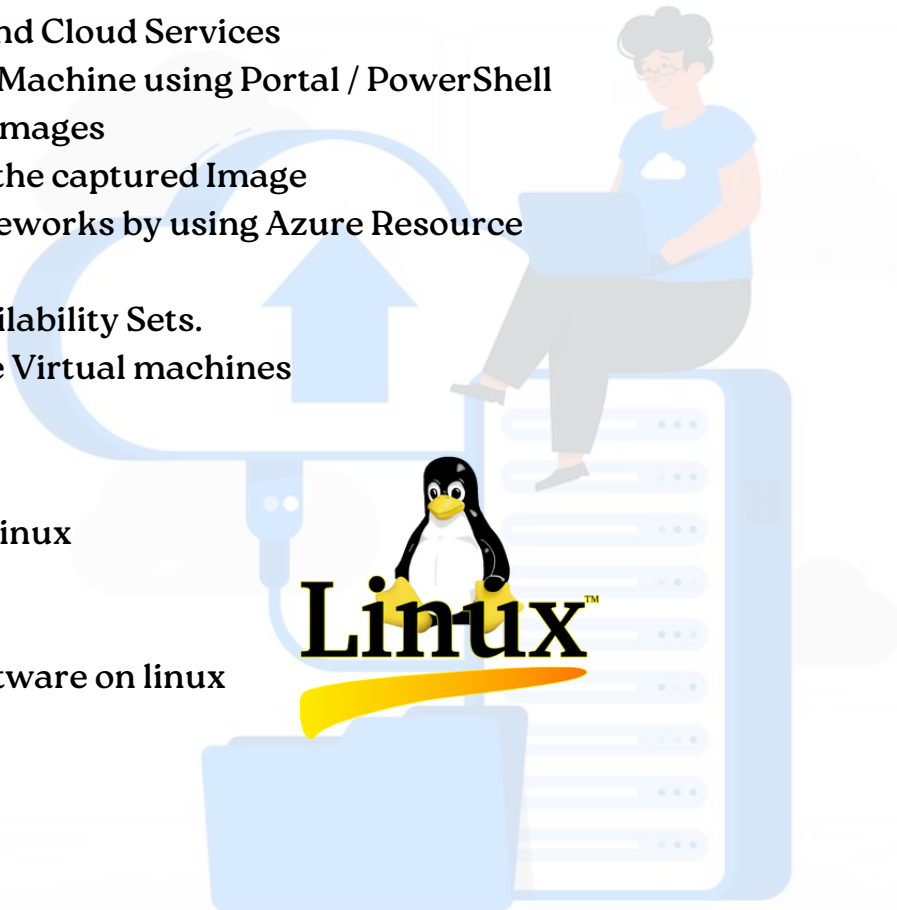
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## Terraform And ARM Templates

- Introduction to Infrastructure as a Code
- Terraform architecture
- Terraform CLI installation and setup
- Terraform resources
- Terraform variables
- Terraform datasources
- Terraform workspaces
- Terraform state manipulation
- Terraform modules
- Terraform repository modules
- Custom modules
- Terraform built-in functions



HashiCorp

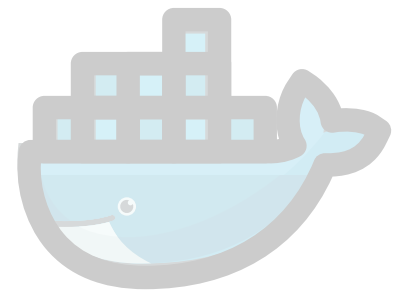
# Terraform

### CI/CD(Continuous Integration And Continuous Deployment)

- Creating CICD pipeline for web application deployment in both Iaas and paas services
- Creating CICD pipeline for infrastructure as a code (Terraform and ARM Templates)
- Integrate sonar cloud in CI pipeline

## Docker

- Introduction to Docker(Docker hub,docker container,docker image)
- Docker lifecycle
- Build a Dockerized Web application with linux and windows
- Creating different environments using Docker
- Dev
- SIT
- UAT
- Prod
- Creating different environments using Docker
- Logging techniques
- Scalability with Docker



## Kubernetes

- Introduction to Kubernetes
- Understand the Kubernetes API
- Kubernetes Application Architecture
- Kubernetes Networking
- Storage in Kubernetes
- Kubernetes Deployment, Scaling and Monitoring



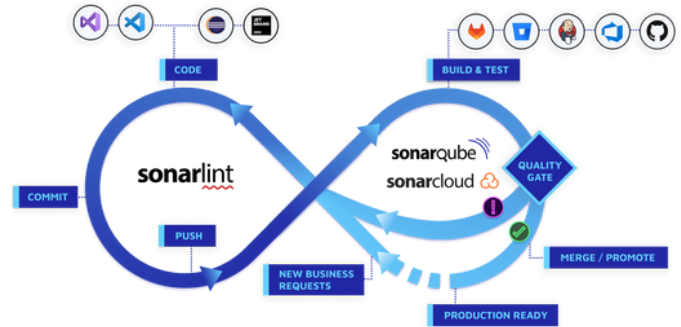
## Shell scripting

- Types of Shells
- Script execution approaches
- Variables
- Operations
- Conditions
- Loops
- Functions



## SonarQube (Static Code Analysis)

- What is static code analysis?
- SonarQube components
- SonarQube Setup and Configuration
- Projects
- CI introduction and configuration
- Rules
- SonarQube UI analysis



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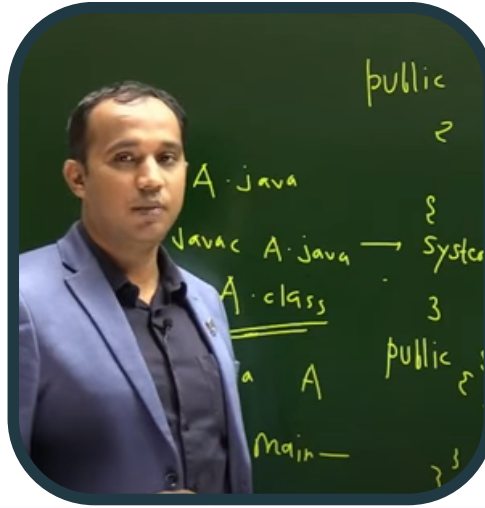
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