Course Content For Azure & Azure DevOps

Duration : 45- 60 days 40 to 60 hours

Microsoft Azure

* What is SDLC ?
* What is DevOps ?
* What is Cloud Computing ?
* What is IAAS , PAAS , SAAS?
* What is Azure?
* What is Management Groups & Subscriptions
* What is resource Groups and Resource Groups?
* Compute services: Virtual machines , Virtual Machine Scale Sets
* Availability set and Availability Zone
* Databases : MySQL, Azure sql, Postgres sql
* What is Container services, Container instances, Container Registries?
* Overview of Docker and container engines
* Writing Dockers file and creating the images
* Working with Docker registry
* Deployment using Containers/ Docker
* Azure Kubernetes service
* Overview of Kubernetes, Master, Nodes, Pods, Cluster
* Statefulsets, Deployments, Services, Doemonsets, replicasets
* Deployment using AKS
* Overview of Infrastructure as a code Terraform
* Overview of ARM Templates for Infrastructure as Automation
* Azure Networking in depth understanding
* What is Load Balancer
* What is vnet , Subnet for networking
* what is active directory and Service principle
* what is app services like
  + function app, Logic App, Webapp
  + securities related to App services understanding with App insights
* Working with key vault
* Storage account, cloud shell.

# Azure Devops

* What is azure DevOps?
* Working with Azure boards , Creating Items, Sprints, end to end expiation for tracking, azure organizations and Projects?
* Working with Agile Methodology
* What is azure boards, sprints, backlogs, workitems?
* Working with Azure Dashboards for visualization
* What is azure wiki
* What is azure repos
* Overview of Git , git commands
* Working with repos, branches
* Branching and merging strategies
* Brach policies, Repo policies, forking
* Working with Pull requests
* What si Azure pipelines
* Working with Azure classic Pipeline and yaml pipelines
* Working with release pipelines for Deployment
* Creating deployment groups. Environments, task groups.
* Working with agents and agent pools
* What is azure Artifactory?
* Connecting to the feed and getting the dependency packages  What is azure Test plans
* Azure devopss for security like white source bolt and OWASP ZAP Integration.



Note :

* course content will be covered with Practical sessions.
* Every Day one-hour session
* Interview question will be covered while taking the concept  Assignment will be covered for FAQ's for the interviews.
* Realtime sceneriaos with Pipelines and troubleshooting