

About QuickXpert Infotech

Best institute for IT training and placements for classroom and online training for students and corporates. We are an ISO certified institute and in the industry since 2014. Our strong training and placement team have helped thousands of students build their career.

Courses - JAVA, Dot Net, Software Testing, Web Development, Full Stack Development, MERN, MEAN, Oracle, Digital Marketing, Python, Data Analytics, Data Science & A.I., Cyber Security, Salesforce, Service Now, Tableau, Power BI, Excel, React, Angular etc.

Live Projects - MarriageKing, the Vibrant Birdie, CRM etc

Corporate Trainings - GeBBS Healthcare, NVest Solutions, Infogix, PDG Software, GMV India etc.

Syllabus mentioned below.



Dev Ops

Introduction

- Definition of SDLC
- Purpose of SDLC
- General Phases of SDLC
- Various Models of SDLC
- About Waterfall SDLC Model
- Waterfall SDLC Model Advantages
- Waterfall SDLC Model Disadvantages
- About Agile SDLC Model
- Agile SDLC Model Advantages
- Introduction to DevOps
- History of DevOps
- What is DevOps
- Definition of DevOps
- Fundamental Principles of DevOps
- Benefits of DevOps
- After Implementation
- DevOps Roles and Responsibilities
- Continuous Integration in DevOps

AWS Cloud

- Continuous Integration in DevOp
- Brief History of AWS
- AWS Features
- How to Create Account in AWS
- Introduction to EC2
- Features of EC2



- EC2 Dashboard Overview
- About Amazon Machine Images (AMI)
- Different types of AMI's
- How to create AWS AMI
- How to create a Key Pairs
- What is EBS Volumes
- Download a key pairs
- How to connect EC2 instances
- What is pem file
- What is ppk file
- What are default usernames to connect AMI's
- How to Login into LINUX AMI
- How to reboot the Instance
- How to stop instance
- How to terminate instance
- Note- AWS (as required) covered here. To learn Full AWS you can add, duration will increase by 1.5 to 2 months)

Unix / Linux

- Introduction to Unix/Linux
- Unix flavors
- Linux Flavors
- Why Linux?
- Advantages of Unix/Linux
- Architecture of Linux
- File system hierarchy
- cat (create & append file)
- touch (create blank file)
- nano (create & edit file)
- vi/vim (create & edit file)



- Is (list) (-a, -la)
- cd (change directory)
- pwd (print working directory)
- mkdir (create directory, multiple)
- cp (copy)
- mv (move)
- mv (rename)
- rm (remove file)
- tree (see in tree structure)
- rm -rf(remove directory & recursive)
- grep (pick & print)
- less (see output)
- head (see top 10 lines)
- tail (see last 10 lines)
- sort(display in Alphabetic/Numeric order)
- User creation
- Group creation
- Soft Link (shortcut)
- Hard Link (backup)
- tar (to pack)
- gz (to compress)
- yum (to install)
- wget (to download)
- File/Directory Permissions:
- chmod (permissions)
- chown (owner)
- chgrp (group)
- hostname (to see hostname)
- ifconfig (to get ip address)
- cat /etc/*rele* (to get os version)
- yum commands



- rpm commands
- service commands
- chkconfig commands
- Redirection (redirecting output)
- which (to see package installed or not)
- sudo (to get root privileges)
- whoami (to see user)
- find commands

Networking Basics

- Introduction to network
- Networking components
- Network topology
- OSI Model (7 Layers)
- TCP/IP model (4 Layers)
- IP Addressing
- HTTP vs HTTPS
- DNS (Domain Name System)
- Ports and Protocols
- CIDR
- Firewalls and Network Security
- VPN (Virtual Private Network)
- Network Troubleshooting Tools (ping, telnet,netstat)

Git

- Source code management
- Version /Revision control system
- SCM tools
- Repository/Depot
- Server



- Work space/Work dir/Work tree
- Branch/Trunk/Code line
- Commit/Check-in
- Version/Version-ID/Commit-ID
- Tag
- Advantages of Git
- Git Snapshots
- Work space
- Staging area
- Buffer area
- Repository (Local/non-bare)
- Repository (Central/bare)
- Installation & configuration
- Git add
- Git commit
- Git log
- Git push
- Git status
- Git ignore
- Git branch
- Git checkout
- git merge
- Git Snapshots
- Git conflict
- Git stash
- Git reset
- Git revert
- Repository (Central/bare)
- Git remove
- Git clean
- Git tag



- Git fetch
- Git diff
- Git cherry-pick
- Git hub
- Role of Git in Real Time
- Git installation on Windows and Screen shots
- Git installation on Linux
- Git Architecture
- What is Git Repository
- Git with Local Repositories
- Git with Remote Repositories
- git config command usage
- Setup git repository using git init
- Git Making Changes
- gitstatus color coding system
- Exercises on adding single files, multiple files commits
- Committing Changes in one go
- Git History log and show
- View all commit logs
- View only latest commit logs
- gitshow command
- Comparing git project files from working area with Local Repo using git diff
- Git diff -staged
- Git remote commands
- Introduction to Github
- Various vendors of Remote Repository
- Features of github
- Create Account in github
- Create Project Repository in github
- Public Repository



- Private Repository
- Create files in github
- Clone Github Repository
- Pull changes from github Repository
- Push changes to github Repository

Maven

- What is Build
- Purpose of Build Tools
- Build ToolsIdeology
- Evolution of Build Tools
- Few Notable Build Tools
- Java Based Build Tools
- Build management
- Advantages of Build tool
- Architecture of Maven
- Maven build life-cycle
- Maven directory structure
- Maven repositories
- Pom.xml
- Multi module project(over view)

Jenkins

- Introduction to Jenkins
- History of Jenkins
- Why Jenkins is so popular
- Features of Jenkins
- Jenkins Architecture
- Jenkins Perquisites
- Installation of Jenkins



- Introduction to Jenkins GUI
- Introduction to types of Projects in Jenkins
- Introduction to CI/CD (Continues Integration and Continues Delivery)
- Jenkins plugins installation
- Creating free style projects
- Understanding of Jenkins job process
- Source code pulling through Git
- User management in Jenkins
- Creating and Deleting users in Jenkins
- Build triggers in Jenkins
- Build periodically in Jenkins
- Poll SCM in Jenkins
- Webhook in Jenkins
- Introduction to Master and Slave concept
- Creating Master and Slave server in Jenkins
- Configure jobs to build on Jenkins slave server
- Introduction to CI/CD pipeline as a code project
- Introduction to the types of pipelines as a code
- Creating CI/CD pipeline as a code project
- Creating scripted pipeline as a code
- Creating Declarative pipeline as a code
- Working with popular plugins like blue ocean

Docker

- What is Docker
- History of Docker
- Features of Docker
- Docker Architecture
- Virtualization vs Containerization



- VMware vs Docker
- Docker Components
- Docker installation and setup
- Docker Images and Containers
- Docker commands
- Creating docker containers
- Understanding the stages of containers
- Pulling docker images from the registry
- Multi- Container architecture with the Docker-compose and --link
- Understanding of Docker Volumes
- Attaching docker volumes to containers
- Creating docker snapshots using docker commit
- How to see container logs
- How to tag docker images
- Introduction to Docker file
- Creating Docker file
- About Docker file instructions
- Creating customized image using Docker file
- Understanding of Docker networking
- Creating custom networks in Docker
- Introduction to DockerHub
- Understanding the DockerHub GUI
- Pushing the images in the DockerHub
- DockerHub private and public images

Kubernetes

- What is Kubernetes.
- Advantages of Kubernetes.
- Kubernetes Architecture
- What is Pod.



- Pod Lifecycle.
- Kubernetes Cluster and important components of Kubernetes cluster.
- Understanding of Kubernetes components like Control plane, Kube-Api-Server, etcd, Controller Manager, Kube-scheduler, Kubernetes nodes, Kube-proxy, Kubelet, CRI, CNI.
- Setup of cluster on EC2 servers.
- Setup of cluster on the AWS EKS (Elastic Kubernetes Services).
- Manifest file in Kubernetes.
- Single container Pod and Multi-container Pod.
- Annotations in Kubernetes
- Environment variables in Kubernetes.
- Labels and Selectors.
- Replication in Kubernetes, Replication Controller, Replica Set
- Scale Up and Scale Down in Kubernetes.
- Deployment and Rollback.
- Kubernetes Networking.
- Volumes in Kubernetes.
- Config Map and Secrets.
- Namespaces in Kubernetes.
- Resource Queta.
- Horizontal Pod Autoscaling and Vertical Pod Autoscaling.
- Helm and Helm chart.

Ansible

- What is Ansible
- Introduction to configuration management tools
- How ansible is different from other configuration management tool
- Difference between Ansible and Terraform
- Advantages of Ansible and Configuration management tools



- Use cases of Ansible
- Ansible Architecture
- Installation of Ansible
- Idempotency in Ansible
- Agentless Policy in Ansible
- How to Connect of Ansible with the nodes machine
- Ansible inventory file
- Working with Ansible Ad-hoc commands
- What is Ansible Modules
- Working with Ansible modules
- Installing packages with the Ansible modules
- What is YAML language in Ansible
- Introduction to Playbook
- Working with the Ansible playbook
- What is Dry Run in Ansible
- Installing packages with the help of Ansible Playbook
- Working with multiple hosts machines in Ansible
- Ansible Variables
- Ansible Handlers
- Loops playbook in Ansible
- Conditional Playbook in Ansible
- Encrypt Playbook (Ansible Vault)
- Configuration of Tomcat in Ansible
- Error handling in Ansible
- Roles in Ansible



Chef

- What is Chef.
- Advantages of Chef.
- Components of Chef.
- Architecture of Chef
- Introduction to Recipes and Cookbooks in Chef.
- Creating Recipes and Cookbooks in Chef
- Installing packages in Chef machine
- Chef Attributes.
- Linux commands in Chef.
- Creating user in Chef.
- Creating groups in Chef
- Introduction to Chef-Server
- Bootstrapping Nodes to the Chef server
- Run list in Chef.
- Chef roles

Grafana

- What is Grafana.
- Advantages of Grafana.
- Architecture of Grafana
- Workflow of Grafana
- Installation of Grafana.
- Overview to the Grafana Dashboards
- Dashboards in Grafana.
- Monitoring of servers with Grafana.
- Adding the data sources in Grafana.
- Working with the Prometheus in Grafana.
- Creating alerts in Grafana.



Prometheus

- What is Prometheus.
- Advantages of Prometheus.
- Components of Prometheus.
- Architecture of Prometheus.
- Installation of Prometheus.
- Overview of Prometheus GUI
- Monitoring the servers with Prometheus.
- Node-exporter.
- Monitoring Number of servers with Prometheus
- Working with Grafana in Prometheus

Nagios

- What is Nagios.
- History of Nagios.
- Advantages of Nagios.
- Nagios Architecture.
- Installation of Nagios.
- Overview of Nagios Server GUI
- Monitoring multiple servers with Nagios.
- NRPE agent.
- Email alert with Nagios.

Terraform

- What is Terraform.
- What is IAC
- Advantages of Terraform.
- Installation of Terraform.
- Terraform commands and execution
- Terraform validate, Terraform plan, Terraform apply and terraform



destroy etc.

- Introduction to HCL (HashiCorp Configuration Language)
- Adding Providers in Terraform.
- Adding Resources in Terraform.
- Creating Resources with the help of Terraform.
- How to create EC2 instances (servers) with the help of Terraform
- How to create S3 buckets with the help of Terraform
- Creating AWS infrastructure with the help of Terraform
- Variables in Terraform.
- Data Source in Terraform.
- State file in Terraform.
- Remote Backend in Terraform
- Securing state file access.
- Terraform Workspaces
- Terraform Provisioners
- Terraform Modules
- Terraform Import.

Tomcat Server

- Installation
- Configuration
- Tomcat manager
- Application management
- App deployment methods

Apache Web Server

- Installation
- Types of web packages
- Configuration
- Directory Structure



- Index file
- Starting service
- Enabling Service

Projects

- DevOps Real time project 1
- DevOps Real time project 2
- CI-CD Pipeline projects
- Interview questions (Technical, Manager & HR)
- Resume preparation & Evaluation
- Real time Scenarios
- Day-to Day activities
- Provide Material

Duration

• 3 to 4 months

more info - https://quickxpertinfotech.com/dev-ops-course



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