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TRAINING ACADEMY
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BUSINESS REVIEW TODAY

STAY AHEAD WITH FITA

ADVANCED DEVOPS CERTIFICATION SYLLABUS (40 Hours)

MODULE 1: INTRODUCTION TO DEVOPS:
- What is DevOps
- Why DevOps
- DevOps Principles
- DevOps Ecosystem
- Opportunities for DevOps Engineer
- DevOps Skills in demand
- Important tools used in DevOps

MODULE 2: LINUX ADMINISTRATION:
- Basic concepts of Operating System
- Linux Versions
- Important Linux Operating Systems concepts like Kernel, Shell & File System structure.
- Important Linux Commands for Administration.
- Commands for User Management.
- Commands for File Permissions.
- Commands for Partitioning
- Commands for File System.
- Package Management.
- Networking essentials.
- SSH configuration.

MODULE 3: SOURCE CONROL USING GIT:
- Introduction to Version Control.
- Introduction to GIT.
- Installation and Server setup.
- Important Git Commands.
- Working with Repositories:
  - Creating a repository (git init)
  - Checking status (git status)
  - Adding files to a repository (git add)
  - Committing files (git commit)
  - Removing staged files (git reset)
  - Removing committed files (git rm)
  - Checking logs (git log)
- GIT Remote Repositories
- Branching in GIT.
- Merging in GIT.
- Workflows in GIT:
  - Different ways of using Git
  - Centralised
  - Feature Branch
  - Gitflow Workflow
  - Forking Workflow
- Working with GitHub.

MODULE 4: CONTINOUS INTEGRATION USING JENKINS:
- Introduction to Continuous Integration
- Continuous Integration with Jenkins Overview.
- Jenkins Architecture.
- Installation of Jenkins.
- Jenkins management
- Support for the Git version control systems
- Different types of Jenkins Jobs
- Setting up a Jenkins job
- Scheduling build Jobs.
- Securing Jenkins.
- Jenkins Plugins.
- Introduction to Maven.
- Setting up Jenkins Master and Slave servers.
- Distributed builds with Jenkins
- Backup and Restore of Jenkins.

MODULE 5: ANSIBLE
- Introduction to Ansible.
- Introduction to YAML.
- Ansible Documentation.
- Setup and Configuration.
- Ansible Modules
  - Setup Module.
  - File Module.
  - Pause Module.
  - Yum Module.
  - Service Module.
  - Copy Module.
  - Package Module etc.
- Ansible Command Line Usage.
- Working with Playbooks
  - Introduction to Playbooks in Ansible
  - Creating Reusable Playbooks
  - Using Variables
  - Templating
  - Conditionals
  - Loops
  - Blocks
  - Advanced Playbooks Features
  - Best Practices
- Working with Ansible Plugins:
- Ansible Roles:
  - Role Directory Structure
  - Using Roles
  - Role Duplication and Execution
  - Role Default Variables
  - Role Dependencies

o Embedding Modules and Plugins In Roles
o Role Search Path
o Ansible Galaxy

MODULE 6: DOCKER

- Docker Concepts
- Installing Docker.
- Docker Image Layers
- Build Docker Images by using Docker Commit Command.
- Build Docker Images by Writing Dockerfile.
- Push Docker Images to Docker Hub.
- Docker Networking, Links and Volumes.
- Create Dockerized Web Applications.

MODULE 7: PUPPET

- Puppet ecosystem, components, and terminologies
- Managing puppet infrastructure, modules, and environments
- Installation and setup
- Configuring puppet client/server architecture
- Understanding how a puppet run works
- Integrating git with puppet

MODULE 8: NAGIOS

- Overview of Continuous Monitoring
- Fundamentals of Nagios
- Installing Nagios
- Nagios Plugins(NRPE) and Objects
- Nagios Commands
- Notification in Nagios

MODULE 9: KUBERNETES

- Introduction to Kubernetes
- Creating a Service
- Installing Kubernetes
- Working with Dashboard in Kubernetes
- Deploying an App using Dashboard
- Using Rolling Updates in Kubernetes
- Containers and Container Orchestration

MODULE 10: DEVOPS ON AWS CLOUD

- Introduction to Cloud Computing
- Why DevOps on Cloud?
- Introduction to AWS
- Various AWS services
- DevOps using AWS

TESTIMONIALS

Made my success path

I have done my Selenium course at FITA, I am basically a manual test engineer I was asked to learn Selenium which is now fullfilled, and FITA helped me to reach the next level in my Career.

Natraj
Software tester, Chennai.

This course made my career sharper

I had a basic idea of Java now FITA made me know every single details about Java through their coaching and real time examples. This gave me confidence to write program by my own.

Priya
Software Developer, Bangalore.

FITA keeps you ahead

I had a very good experience in this training institute, I was given many real time examples and fully practical classes which helped in understanding better, FITA is a great choice for training.

Vigneshwaran
Digital Marketing Executive, Chennai.

I am Praveen, Java student at FITA. FITA has a good Professional trainers who are friendly in nature and makes us understand things in a detailed manner which improved my skills.