

All the concepts are deeply covered along with practical demonstrations.

Resume preparation & Job Assistance

1) Introduction to DevOps

- a. What is DevOps?
- b. Why DevOps is popular?
- c. DevOps in Agile Practices
- d. DevOps duties
- e. Continuous Integration
- f. Continuous Delivery
- g. Advantages of DevOps
- h. DevOps Jobs & Future.

2) GIT & SVN

- a. Version controllers basics
- b. Why Version controllers
- c. Installation & Configuration
- d. Version controller deep dive
- e. Cloning repositories
- f. Dealing with branches
- g. Merging
- h. Resolving conflicts

3) Maven & Ant

- a. Introduction to build tools
- b. Importance of build tools
- c. Installation
- d. Working with build commands
- e. Build lifecycles
- f. Understanding artifacts

4) Understanding software Infrastructure & Servers

- a. Understanding IT infrastructure
- b. Understanding Web Servers & DB Servers
- c. Installing Servers(Apache/Tomcat/WebLogic)
- d. DevOps work flow
- e. Typical Development environment

5) Jenkins

- a. Jenkins installation
- b. Jenkins setup
- c. Creating users
- d. Managing permissions
- e. Creating Jobs
- f. Git integration
- g. Configuring Master Slave
- h. Emails server configuration
- i. Email notifications
- j. Automatic builds
- k. Maven integration
- l. sSonarqube integration

6) Virtualization & Docker Container

- a. Virtualization basics
- b. Virtualizations advantages
- c. Containerization Basics
- d. Containerization vs Virtualization
- e. Deployments using Docker Containers

7) Chef Infrastructure Automation

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|-----------------|------------------------------|
| a. ChefDK | i. Roles |
| b. Chef basics | j. Managing nodes |
| c. Cookbooks | k. Chef repositories |
| d. Resources | l. Run lists |
| e. Recipe | m. Push jobs |
| f. Templates | n. Knife CLI |
| g. Data bags | o. Local deployments |
| h. Environments | p. Managing web applications |

8) Monitoring Tools

- a. CPU, Memory Disk Space, Networking Monitoring

9) UNIX & Perl scripting

- a. Unix fundamentals
- b. Unix important commands
- c. Fundamentals & Advanced concepts are covered for UNIX Shell & Perl scripting.