

## **DevOps Certification Training**

Lesson 00: Course Introduction









#### Course Objectives

By the end of this course, you will be able to acquire the following skills:

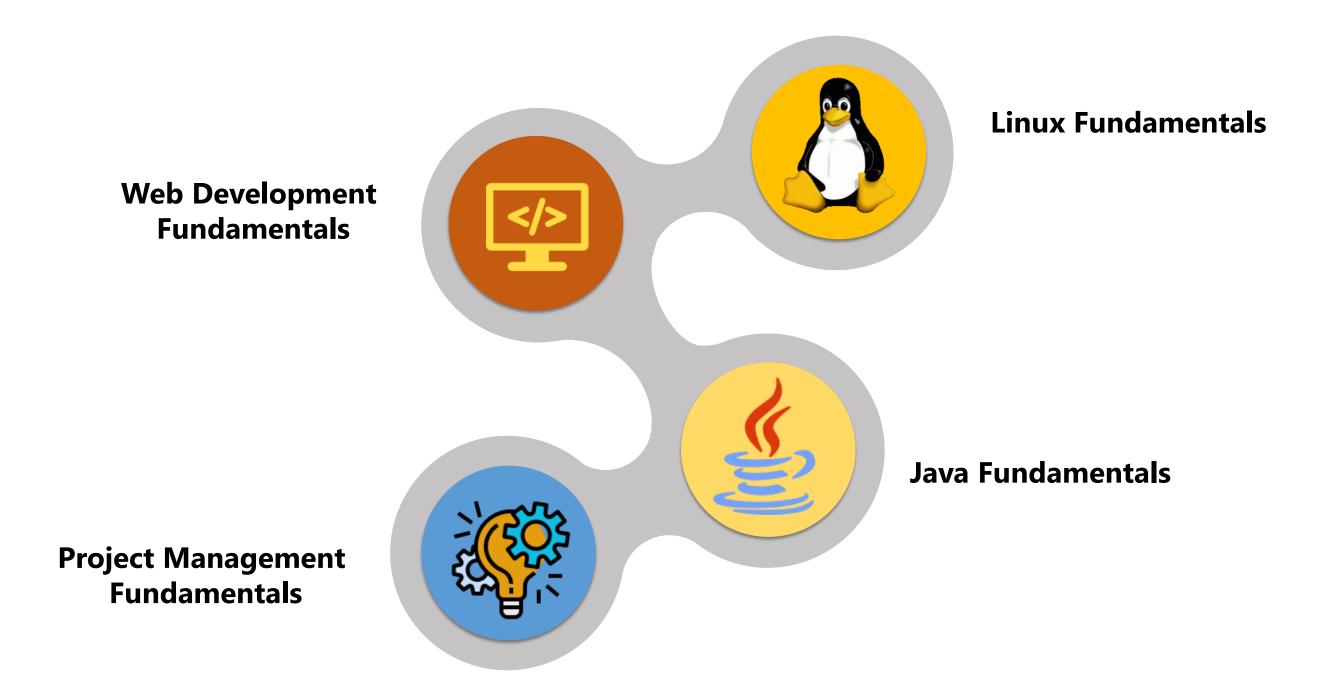
- Describe DevOps & DevSecOps methodologies and their key concepts.
- Explain the types of version control systems, continuous integration tools, continuous monitoring tools, and cloud models.
- Work with: Git with GitHub and Git with Bitbucket.
- Configure your private Jenkins, TeamCity tools, and Jenkins with Java, Git, and Maven.
- Set up a test-driven development framework with Junit 5 and a behavior-driven development framework with cucumber.
- Describe the importance of Chef and Puppet. Perform demonstration on Ansible.
- Work on the creation of Docker containers, Registry, Docker Compose, Docker Hub, and Docker Networking.
- Describe the importance of Grafana and ELK Stack. Perform demonstration on Nagios.
- Describe the importance of cloud in DevOps, use of AWS in DevOps, and deploy your private Kubernetes cluster.
- Set up your complete private infrastructure using version control systems and CI/CD tools.

#### Course Outline



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# Prerequisites for This Course



### Highlights of This Course

Agile Examples, DevOps, and DevSecOps Concepts

Set Up Git and Commit Files to GitHub and Bitbucket

Configure Jenkins, TeamCity, Docker Containers, Docker Compose, and Docker Hub



Getting Familiar with TDD with JUnit5 and BDD with cucumber

Set Up Kubernetes Cluster and Add Pods, Nodes, and Services

Multiple Hands-on Practices for Tools across Different Categories





# Thank You

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