Introduction to Jenkins – Test Your Knowledge

1. What does CI/CD stand for?
   - **Continuous Integration/Continuous Delivery**
   - Continuous Improvement/Continuous Deployment
   - Continuous Integration/Continuous Development
   - Continuous Iteration/Continuous Delivery

2. Which of the following best describes Jenkins?
   - A version control system
   - **An open-source automation server**
   - A programming languag
   - A cloud computing platform

3. What is the role of Jenkins in CI/CD?
   - It manages source code repositories
   - **It automates the building, testing, and deployment of software**
   - It provides a platform for hosting web applications
   - It is used for designing user interfaces

4. Which of the following is NOT a key component of the Jenkins ecosystem?
   - Jenkins Server
   - Plugins
   - Nodes
   - **Containers**

5. What is the purpose of plugins in Jenkins?
   - To provide a user interface for Jenkins
   - To store the source code of projects
   - **To extend the functionality of Jenkins**
   - To manage user authentication

6. What is the difference between a job and a pipeline in Jenkins?
   - Jobs and pipelines are the same thing
   - Jobs are used for continuous integration, while pipelines are used for continuous delivery
   - Jobs are a subset of pipelines
   - **Pipelines are a type of job that define the entire software delivery process as code**

7. What is the primary focus of JenkinsX?
    o Automating CI/CD for non-Kubernetes environments

    o Providing a flexible and customizable CI/CD solution

    o **Implementing GitOps practices for Kubernetes-based deployments**

    o Managing source code repositories

8. Which of the following is a unique feature of JenkinsX?
    o Plugins for extending functionality

    o **Preview environments for pull requests**

    o Distributed builds across multiple nodes

    o Integration with various source code management tools

9. When is it recommended to start with Jenkins instead of JenkinsX?
    o When deploying exclusively to Kubernetes

    o When adopting a GitOps approach from the star

    o **When needing high flexibility and customization in the CI/CD process**

    o When preferring an opinionated and automated setup

10. What is the recommended approach for installing Jenkins in this course?
    o Installing Jenkins on a physical machine

    o Installing Jenkins on a virtual machine

    o **Installing Jenkins using Docker containers**

    o Installing Jenkins on a cloud platform