Module 02-Getting Started With Jenkins Configuration

1. What is the definition of Continuous Integration?
   1. The practice of integrating the software source code multiple times a day.
   2. The method of conducting quality control investigation.
   3. The progression of continuous variables in statistics.
   4. A form of continuous compounding.

**Feedback**:

**Correct if (a) is chosen**. That’s correct! Continuous Integration is defined as the practice of integrating the software source code multiple times a day. Each member of the development team can access, edit, and check in the code in real time.

**Incorrect if (b) is chosen.** That’s incorrect. Continuous Integration is not the method of conducting quality control investigation.

**Incorrect if (c) is chosen.** That’s incorrect. Continuous Integration is not the progression of continuous variables in statistics.

**Incorrect if (d) is chosen.** That’s incorrect. Continuous Integration is not a form of continuous compounding.

1. Which of the following statements are advantages of adopting the Continuous Integration – Continuous Delivery approach in software deployment?
   1. You can implement only old versions of the software code for deployment.
   2. You can develop and automate a cost-effective software deployment process.
   3. You can manually perform every step of the development pipeline.
   4. You cannot check in and manage code in a shared central repository.

**Feedback**:

**Incorrect if (a) is chosen**. That’s incorrect. You can implement the latest version of the software code for deployment.

**Correct if (b) is chosen.** That’s correct! You can develop and automate a cost-effective software deployment process.

**Incorrect if (c) is chosen.** That’s incorrect. You can automate the entire development pipeline and reduce human intervention.

**Incorrect if (d) is chosen.** That’s incorrect! You can check in and manage code in a shared central repository.

1. Jenkins offers a reiterative build process to keep the deployment process going smoothly. State whether True or False.
   1. True
   2. False

**Feedback**:

**Correct if (a) is chosen**. That’s correct! Jenkins offers advanced deployment solutions, and one of them is a reiterative build process that keeps the deployment process going smoothly.

**Incorrect if (b) is chosen.** That’s incorrect. Jenkins offers advanced deployment solutions, and one of them is a reiterative build process that keeps the deployment process going smoothly.

1. What is the purpose of the Job DSL plugin?
2. The plugin enables you to change the background theme of the Jenkins Dashboard.
3. The plugin allows programmatic creation of jobs on Jenkins, with the help of DSLs.
4. The plugin lets you delete configurations of the Jenkins software.
5. The plugin does not do anything on Jenkins.

**Feedback**:

**Incorrect if (a) is chosen**. That’s incorrect. The Job DSL plugin does not enable you to change the background theme of the Jenkins Dashboard.

**Correct if (b) is chosen.** That’s correct! The Job DSL plugin allows the programmatic creation of jobs on Jenkins, with the help of DSLs. It provides an easy mechanism for defining Jenkins jobs as code.

**Incorrect if (c) is chosen**. That’s incorrect. The Job DSL plugin does not let you delete configurations of the Jenkins software.

**Incorrect if (d) is chosen**. That’s incorrect. The Job DSL plugin allows the programmatic creation of jobs on Jenkins, with the help of DSLs.

1. Which of the following statements is true about Maven?
   1. Maven is a cloud-based software used by pharmaceutical companies for managing sales and operations.
   2. Maven is used to develop mobile platform applications.
   3. Maven displays a hierarchical dependency tree that contains all project dependencies.
   4. Maven is a learning management system used for administering and tracking e-learning courses.

**Feedback**:

**Incorrect if (a) is chosen**. That’s incorrect. Maven is not a cloud-based software used by pharmaceutical companies for managing sales and operations.

**Incorrect if (b) is chosen.** That’s incorrect. Maven is not used to develop mobile platform applications.

**Correct if (c) is chosen.** That’s correct! Maven displays a hierarchical dependency tree that contains all project dependencies. Maven is a build automation and comprehension tool used for Java projects.

**Incorrect if (d) is chosen.** That’s incorrect. Maven is not a learning management system used for administering and tracking e-learning courses.

1. What is the purpose of targets in the Apache Ant tool?
   1. The targets are used to single out error messages in the post build section of a Jenkins job.
   2. The targets perform specific functions of a build job by executing tasks, such as creating a new directory or invoking the java compiler to compile code.
   3. The targets are implemented as anti-virus software.
   4. The targets are used to update APT packages on the specified server.

**Feedback**:

**Incorrect if (a) is chosen**. That’s incorrect. The targets are not used to single out error messages in the post-build section of a Jenkins job.

**Correct if (b) is chosen.** That’s correct! The targets in Apache Ant perform specific functions of a build job by executing tasks, such as creating a new directory or invoking the java compiler to compile code. An Ant build script is made up of targets.

**Incorrect if (c) is chosen.** That’s incorrect. The targets are not implemented as anti-virus software.

**Incorrect if (d) is chosen.** That’s incorrect. The targets are not used to update APT packages on the specified server.

1. Which of the following statements is true regarding the Gradle tool?
2. Gradle is an open-source build automation system that used the domain-specific language approach for defining project configurations.
3. Gradle is the new name for Maven.
4. Gradle is a feature on the Jenkins Dashboard.
5. Gradle was not designed for multi-project builds, that can grow in terms of complexity and deployment.

**Feedback**:

**Correct if (a) is chosen**. That’s correct! Gradle is an open-source build automation system that used the domain-specific language approach for defining project configurations.

**Incorrect if (b) is chosen.** That’s incorrect. Gradle is not the new name for Maven.

**Incorrect if (c) is chosen.** That’s incorrect. Gradle is not a feature on the Jenkins Dashboard.

**Incorrect if (d) is chosen.** That’s incorrect! Gradle was designed for multi-project builds, that can grow in terms of complexity and deployment.