CloudBees Jenkins Engineer (CJE) Exam

1. You are using GitHub repository scanning (in a project of type "GitHub Organization") with the Pipeline lenkinsfile Project Recognizer. In this case, which repositories under the organization will have Multibranch projects automatically created for them?

A. only repositories that contain a Jenkinsfile in all their branches

B. only repositories that contain a Jenkinsfile in at least one branch

C. all repositories that contain a Jenkinsfile in at least one branch or pull request

D. all repositories

Answer(s): A

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2. How can you configure a Declarative Pipeline to record the fingerprint of an artifact?

A. Call the fingerprintArtifact() step immediately after the archiveArtifacts( ) step.

B. Enable the Declarative Pipeline 'enableFingerprints' 'option' .

C. Set the Fingerprint Artifacts global configuration option.

D. Set the "fingerprint: true" argument for the archiveArtifactsQ step.

E. No action is required; Declarative Pipelines automatically record a fingerprint for each artifact.

Answer(s): D

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3. Which are commonly referenced as key points of CI? Choose 3 answers

A. Automated deployment to the production environment.

B. Collaboration among Dev, QA and Ops.

C. Automated tests after each commit

D. Automated builds after each commit.

E. Frequent commits to source code repository.

Answer(s): C D E

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4. A unit test _____.

A. tests an Individual unit a component

B. verifies cross-functionalities

C. verifies that the complete software matches the specifications it was written to fulfill

D. is written when an Integration or multi-environment bog is fixed

Answer(s): A

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5. Which of the following is true about resuming a Declarative Pipeline?

A. Declarative Pipelines cab be restarted after a Jenkins failure but not after a transient outage (such as a network failure or disk space exhaustion).

B. Declarative Pipelines can be resumed only after a transient outage (such as a network failure or disk space exhaustion).

C. All Declarative Pipelines are restartable by default, with the same inputs (commit to build, parameters, etc) as the original run. Any data that was built In the original run Is available only If the preserveStashes() option Is specified In the Jenkinsfile

D. Declarative Pipelines that use Docker containers can not be resumed because the docker APIs that Jenkins calls to create the container are not serialized

E. A Declarative Pipeline can be restarted only If the preserveStashes() option Is set In the pipeline.

Answer(s): C

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6. Which of these tasks are ONLY available from the "Manage Jenkins" page? Choose 2 answers

☐ A. Manage plugins

☐ B. Define views

☐ C. Configure credentials

☐ D. Open Blue Ocean

☐ E. Configure Global Security

Answer(s): A E

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7. In a "standalone" configuration, when masters manage the build environment and also execute builds with their own resources, which of the following Is true?

A. Build times decrease.

B. User interface becomes slower as resources on the master run out.

C. The builds share SCM checkouts

D. Masters are more highly available.

Answer(s): B

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8. Why Is the performance of a Jenkins master Improved by using a distributed builds architecture?

A. Because executors cannot be allocated on the master.

B. Because executors offloaded onto build nodes are not performant.

C. Because it prevents the CPU being overloaded during parallel polls.

D. Because it prevents builds from overloading a master's CPU/memory.

E. Because builds cannot be run In parallel on a master.

Answer(s): D

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9. What is the purpose of the "Manage Old Data" screen under "Manage Jenkins"?

A. Delete artifacts, togs, and backups that are no longer required.

B. Clean up workspaces left by deleted Jenkins users.

C. Delete outdated configurations left by uninstalled, deleted, or upgraded plugins.

D. Delete or restore old credentials details.

E. Prepare for migration from Jenkins 1 to Jenkins 2.

Answer(s): C

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10. Which of the following are true when using environment directives in a Declarative Pipeline? Choose 3 answers

A. If an environment variable b enclosed in single quotes, the Pipeline DSL dereferences the variable on the master's JVM and passes the calculated string to the sh or bat step; if the environment variable Is enclosed in double quotes, the name of the environment variable itself is passed to the "sh" or 'bat" step and the shell interpreter on the agent dereferences the variable.

B. If an environment variable Is enclosed in double quotes, the Pipeline DSL dereferences the variable on the master's JVM and passes the calculated string to the sh or bat step; if the

environment variable is enclosed in single quotes, the name of the environment variable itself is passed to the "sh" or "bat" step and the shell interpreter on the agent dereferences the variable.

☐ C. A Declarative Pipeline can use environment variables defined In Jenkins Itself (such as BUILD_NUMBER and JENKINS^URL), environment variables defined in an installed plugin (such as GIT„COMMIT or GIT .BRANCH, defined in the Git plugin), or environment variables that are coded as directives in the Pipeline itself; the semantics are identical for all environment variables.

☐ D. An environment variable can be specified globally (to apply to all steps in the pipeline), for an individual step, or for one or more specified steps In the Pipeline,

Answer(s): A C D

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11. When you want to validate that your software produces the desired behavior for end users, you need to use

A. smoke tests

B. acceptance tests

C. functional tests

D. non-regression tests

Answer(s): A

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12. When you upgrade a plugin and find an issue in the new version, how ran you move hade to the previously installed version? Choose 2 answers

☐ A. Use the pluginManager.downgrade method in the script console.

☐ B. Select the version you want to use in the global configuration section for this plugin.

☐ C. Select one of the previous versions in the Plugin Manager.

☐ D. Manually download and install the previously installed version.

◻ E. Use the "downgradeplugin" command In the Jenkins CI I

◻ F. Use the button on the Plugin Manager that allows a downgrade to the previously installed version.

Answer(s): D F

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13. Which are Source Code Management tools? Choose 3 answers

◻ A. Java

◻ B. Perforce

◻ C. Subversion

◻ D. Git

◻ E. Maven

Answer(s): B C D

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14. A freestyle job is set up to "Enable concurrent builds if necessary" and configured to run on a single node. How can you ensure that multiple concurrent runs share the same workspace?

A. Pass the argument -Dhuason.model .Run. lockworkspace=false in the Jenkins master Invocation.

B. Check "Do not lock workspace" In the Advanced Project Options of the project.

C. Multiple concurrent runs can never share the same workspace.

D. Define a "Custom workspace" path for the job.

Answer(s): D

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15. What does a flashing build icon in the Build History indicate? Choose 3 answers

- [ ] A. A groovy script needs to be approved.

- [ ] B. A build is waiting for Input.

- [ ] C. The build is waiting for an executor to be available.

- [ ] D. An agent is being spawned.

Answer(s): A C D

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16. Which job type Is always available In Jenkins without additional plugins?

A. Ant project

B. Make project

C. Grade project

D. Pipeline project

E. Freestyle project

Answer(s): E

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17. What is the preferred method for a Jenkins administrator to notify nil Jenkins users about upcoming system maintenance?

A. Add text to the "System Message" field on the "System Configuration" page to populate a banner displayed across the top of the master's home page.

B. On the "System Configuration" page, choose the "Maintenance Alerts" option from the "Alerts" dropdown menu and populate the box with a message to be added to all build logs.

C. Populate the "Email Notifications" section of the "System Configuration" page with a message to be sent as email to all registered Jenkins users.

D. On the master's dashboard, dick "add description" or "edit description" to populate a banner displayed across the top of the master's home page.

Answer(s): B

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18. Which is the expected workflow for "lest-Driven Development"?

A. Validate with the CI system, write the new functional code, and then verify that the test passes.

B. Write a new test, validate with the a system, and then write the new functional code.

C. Write a new falling unit test, write the new functional code to fix the test, verify that the test passes, and then refactor the code.

D. Write a new failing unit test, write the new functional code to fix the test, and then verify that the test passes.

Answer(s): C

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19. You want to execute a Job passing one parameter via the Jenkins RFST API. The correct syntax for this is http: / /server/Job/ myjob .

A. /build?Parameter =Value

B. /buiWWithParameters?Parameter=Value

C. /buildWithParameters

D. /build?Parameters=Value

Answer(s): B

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20. Which keyword is used to group related parts of a Declarative Pipeline?

A. collect

B. step

C. stage

D. steps

E. group

Answer(s): D