

# CJE<sup>Q&As</sup>

Certified Jenkins Engineer (CJE)

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**QUESTION 1**

What does the M# of executors" field on the Jenkins master control?

- A. Maximum number of jobs which can be run concurrently on attached agents.
- B. Number of Java threads that can run Jenkins jobs.
- C. Number of external build agents that can be used for jobs run on this Jenkins master.
- D. Number of CPU cores configured for this master.
- E. Number of jobs that can execute simultaneously on the Jenkins master

Correct Answer: E

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**QUESTION 2**

Which practices optimize performance on large systems? Choose 2 answers

- A. Run all builds on agents and never on the master itself.
- B. Use the maximum number of executors at all times and avoid using labels.
- C. Avoid modifying Java parameters that control heap size and garbage collection.
- D. Use plugins as much as possible.
- E. Allocate specific masters for different build types and teams.

Correct Answer: AD

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**QUESTION 3**

What are the main advantages of using webhooks/post commit hooks from your Source Code Management system to trigger your Jenkins project rather than using SCM polling? Choose 2

- A. Builds are started on a defined a on schedule.
- B. Avoid unnecessary overhead from polling.
- C. Builds are started immediately after changes are committed.
- D. The entire repository is scanned so no commits are missed.

Correct Answer: BC

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**QUESTION 4**

DevOps teams can implement traceability of artifacts in a continuous delivery pipeline by using

- A. the Downstream Builds plugin
- B. manual recording
- C. the Pipeline plugin to fingerprint files
- D. Pipeline labels

Correct Answer: C

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#### QUESTION 5

What is the default directory where a build takes place?

- A. The Workspace directory.
- B. The Builds directory in the Job.
- C. The JENKINS\_HOME directory.
- D. The user\\'s home directory.

Correct Answer: A

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#### QUESTION 6

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`

Correct Answer: B

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#### QUESTION 7

A Freestyle job is configured to execute concurrent builds, and to only build on a specific agent (agent A) that has 4 executors. You observe that 2 Instances of the job are currently building while several others are waiting in the build queue. Which of the following could explain why the builds are waiting in the build queue?

- A. There are not enough idle executors available on agent A.
- B. Changes were made to this job\\'s configuration while this Job had builds in the build queue.

- C. Each build in the build queue must be manually attached to an available executor.
- D. The "Execute concurrent builds if necessary" option in the job configuration has reached its user-defined maximum.

Correct Answer: A

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### QUESTION 8

Which of the following statements are TRUE about Jenkins Pipeline?

Choose 2 answers

- A. A Pipeline job must contain at least three stages.
- B. It is not possible to call a Freestyle Job from within a Pipeline Job.
- C. The Pipeline syntax supports running steps in parallel on different agents.
- D. When using a Multibranch Pipeline, Jenkins can automatically create Jobs for each branch in the source code repository.
- E. Pipeline jobs survive master restarts only if the Pipeline definition script is checked into an SCM.

Correct Answer: CD

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### QUESTION 9

Pipelines often require access to protected resources such as servers, databases, and SCMs. Without using an external credentials manager, which of the following provides the most secure centralized mechanism for managing the "secrets" that Jenkins requires to login/authenticate (for example: keys, tokens, passwords)?

- A. Store the secrets on the Jenkins master using the Credentials plugin.
- B. Include the secrets in the home directory of the Jenkins agent account.
- C. Store the secrets required in the SCM alongside the application source code.
- D. Embed secrets into the build and deployment scripts invoked by the job.
- E. Store the secrets as Node Properties for each agent definition.

Correct Answer: A

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### QUESTION 10

A Freestyle job has the configuration shown here: You run the following command from a Unix terminal: `curl http://git/notifyCommit?url=git@github.com:cloudbees/github-test.git` Will the Job be triggered?

```
<project>
  <actions/>
  <description/>
  <keepDependencies>>false</keepDependencies>
  <scm class="hudson.plugins.git.GitSCM" plugin="git@2.3.5">
    <configVersion>2</configVersion>
    <userRemoteConfigs>
      <hudson.plugins.git.UserRemoteConfig>
        <url>git@github.com:cloudbees/github-test.git</url>
      </hudson.plugins.git.UserRemoteConfig>
    </userRemoteConfigs>
    <branches>
      <hudson.plugins.git.BranchSpec>
        <name>*/development</name>
      </hudson.plugins.git.BranchSpec>
    </branches>
    <doGenerateSubmoduleConfigurations>>false</doGenerateSubmoduleConfigurations>
    <gitTool>Default</gitTool>
    <submoduleCfg class="list"/>
    <extensions/>
  </scm>
  <canRoam>>true</canRoam>
  <disabled>>false</disabled>
  <jdk>(Default)</jdk>
  <triggers>
    <hudson.triggers.SCMTrigger>
      <spec/>
      <ignorePostCommitHooks>>false</ignorePostCommitHooks>
    </hudson.triggers.SCMTrigger>
  </triggers>
```

- A. It will not be triggered.
- B. It will be triggered if the polling detects a change in any git branch.
- C. It will be triggered if the polling detects a change in the git branch "master".
- D. It will be triggered if the polling detects a change in the git branch "development".

Correct Answer: D

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