DevOps Certification Training

Jenkins Assignment – 3
Adding a Slave node in Jenkins

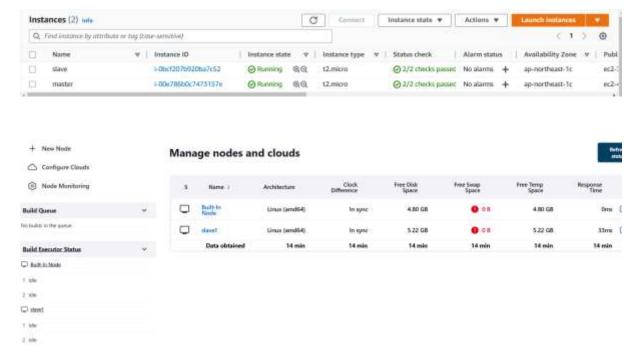
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You are working for an MNC - Software Solutions company as a DevOps Engineer and Company would want you to establish the CICD pipeline in their organization by automating various workflows.

As there is only one build server setup, many teams have to wait for their changes to be build. The organization would like to setup a slave node, so that workload can be shared from the master to the slave node and parallel builds can be performed.

You are requested to do following action items:

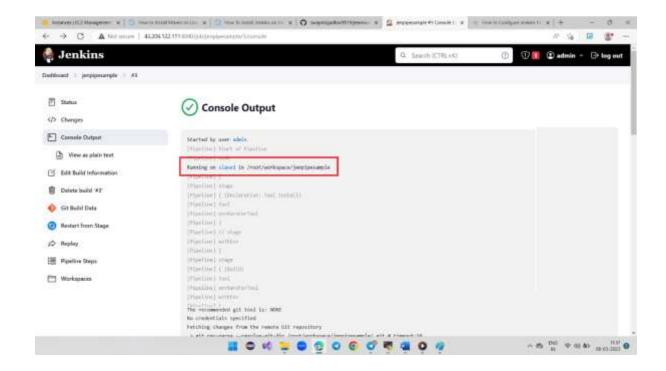
- 1. Create an AWS EC2 Ubuntu instance. (name as Jenkins-master)
- 2. Setup Jenkins on this server.
- 3. Add another AWS EC2 ubuntu instance(name as Jenkins-slave)
- 4. Add this node to the Jenkins Master as Slave.
- 5. Configure the pipeline script from previous assignment to run the build on slave node.
- 6. Trigger the build on master and verify if the build is running on slave node or not.



Definition

Pipeline script

```
Script ?
   1 ▼ pipeline {
   2 =
           agent {
               label 'slave1'
    3
    4
    6 *
           tools {
               // Install the Maven version configured as "M3" and add it to the path.
    7
    8
               maven "M2_HOME"
    9
   10
   11 -
           stages {
   12 ▼
               stage('Build') {
   13 🔻
                   steps {
   14
                       git 'https://github.com/swapnilsjadhav9519/jenmavensample.git'
   15
   16
   17
                       sh "mvn -Dmaven.test.failure.ignore=true clean package"
   18
                   }
   19
   20
   21
   22
   23
   24
25
```



The recommended git tool is: NOWE No credentials specified Fetching changes from the remote Git repository > git rev-parse --resolve-git-dir /root/workspace/jenpipesample/.git # timeout-10 > git config remote.origin.url https://github.com/swapnilsjadhav9519/jenmavensample.git # timeout=10 Fetching upstream changes from https://github.com/swapnilsjadhav9518/jenmavensample.git > git --version # timeout=10 > git --version # 'git version 2.34.1' > git fetch --tags --force --progress -- https://github.com/sampnilsjadhuv9519/jermavensample.git +refs/heads/*:refs/remotes/origin/* # timeout=10 Checking out Revision d4e66352fc0de1386bcb91198738f2cddde81828 (refs/remotes/origin/master) Commit message: "maven project add" First time build. Skipping changelog. Pipelinel sh + mm -Dmaven.test.failure.ignore-true clean package > git rev-parse refs/remotes/origin/master^{commit} # timeout-10 > git config core.sparsecheckout # timeout=18 > git checkout -f d4e66352fc0de1386bcb91198738f2cddde81828 # timeout=18 > git branch -a -v --no-abbrev * timeout=10 > git branch -0 master # timeout-10 > git checkout -b master d4e66352fc0de1386bcb91198730f2cddde81028 # timeout=10 * The state of the Companies of the Comp ← → □ ▲ Not move | 4529013231118080016/jeptomaty/s/Unimult 作 海 田 雪 Delforant > jumpposample > #1 s git checkent in marker damini Dischertissische 1987/04/2009/1009 f timmatich CHARLE [INV0] -- maves-clean-plugin:2.5:clean idefault-clean) # my_assignment -- [INV0] Deleting /mavUserkspace/jerginessmaln/terget (3950) (1999) — www-resources slegis.2.Estranties (Adfell Francis) # m_assignment — (1999) (high "Aff-4" secoling to copy (Literal Passarres. (1990) while our salating resourceStructury (FortherEspecy)(subjectsple/sccimele/resources (Into) mpiler-glagin 8.1:com/(le (defoult-com/(le) @ ep_accignment --[2070] Changes Seterand - recompiling the module! [2070] Compiling 1 conver file to /root/workspeck/jenginesseple/terget/viscoes - more resources plagic Lib tectlements (sehall)-testlements) # m_anignment ---[189] bying 'UF-A' enoughts to many filtered reserves.
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```
[INFO] --- maven-surefire-plugin:3.0.0-M5:test (default-test) @ my_assignment ---
[INFO]
[INFO] ------
[INFO] TESTS
[INFO] ------
[INFO] Running com.assignment.my_assignment.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.121 s - in com.assignment.my_assignment.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ my_assignment ---
[INFO] Building jar: /root/workspace/jenpipesample/target/my_assignment-0.0.1-SNAPSHOT.jar
[INFO] ----
[INFO] BUILD SUCCESS
[INFO] ------
[INFO] Total time: 5.587 s
[INFO] Finished at: 2023-03-06T06:02:24Z
[INFO] ------
[Pipeline] ]
[Pipeline] // withEnv
[Pipeline] ]
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
(Pipeline) End of Pipeline
Finished: SUCCESS
```