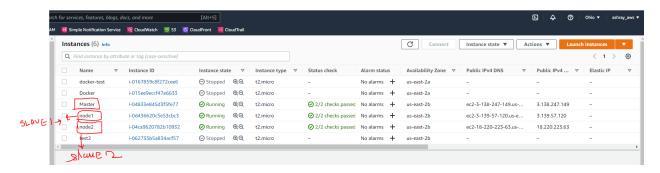
PROJECT2: BUILD GAME OF LIFE ON MASTER AND DEPLOY ON SLAVE1 & SLAVE2

STEP1)

Created Master (JENKINS) and two Slave Machine



STEP2)

Started pipeline job with defining tools required to build .war file (maven + Java) and setting the env to run mvn install.

Stage1-- Cloned the game of life to master and Build it on /root/project2 dir

```
Script ?
  1 → pipeline{
                          maven 'maven3.0'
                    stage ('git repo clone to master') {
   11 +
                          node {
   13
14
                          label 'built-in'
customWorkspace '/root/project2/'
   15
16
17
18
                      environment {
   PATH = "/root/maven/apache-maven-3.8.6/bin:$PATH"
    19 +
   20 21 22
   23
24 +
                             git 'https://github.com/ashrayp18/game-of-life.git'
dir("/root/project2/") {
    sh 'mvn install'
   25
26 <del>v</del>
    29
```

STEP3)

Stage2- on Node1 installing Tomcat server and starting the services

```
}
}
stage ('deoply war on tomcat server on node 1'){

agent {
    node{
    label '172.31.20.150'
    customWorkspace '/home/ec2-user/project2/'
    }

steps{
    sh "sudo rm -rf /home/ec2-user/tomcat"
    sh "sudo mkdir /home/ec2-user/tomcat/"
    sh "sudo chown -R ec2-user/tomcat/"
    sh "sudo chown -R ec2-user/tomcat/"

dir ("/home/ec2-user/tomcat/"){
    sh "sudo wget https://downloads.apache.org/tomcat/tomcat-9/v9.0.65/bin/apache-tomcat-9.0.65.zip"
    sh "sudo unzip apache-tomcat-9.0.65.zip"
    sh "sudo chmod -R 777 apache-tomcat-9.0.65"
}

sh "sudo /home/ec2-user/tomcat/apache-tomcat-9.0.65/bin/./startup.sh "
}
```

STEP4)

Stage3- on Node2 installing Tomcat server and starting the services

```
53 }
54 ▼ stage ('deoply war on tomcat server on node 2'){
55 ₹
         agent {
56 ▼
            node{
57
               label '172.31.17.248'
58
                customWorkspace '/home/ec2-user/project2/'
59
60
61
62 🕶
         steps{
63
             sh "sudo rm -rf /home/ec2-user/tomcat"
64
             sh "sudo mkdir /home/ec2-user/tomcat/"
65
             sh "sudo chown -R ec2-user:ec2-user /home/ec2-user/tomcat/"
66 •
             dir ("/home/ec2-user/tomcat/"){
67
             sh "sudo wget https://downloads.apache.org/tomcat/tomcat-9/v9.0.65/bin/apache-tomcat-9.0.65.zip "
68
             sh " sudo unzip apache-tomcat-9.0.65.zip"
69
                sh " sudo chmod -R 777 apache-tomcat-9.0.65"
70
71
            sh "sudo /home/ec2-user/tomcat/apache-tomcat-9.0.65/bin/./startup.sh "
73
74 }
75 }
```

STEP5)

Stage4- To Deploy both the .war files to node1 and node use the SCP command

```
stage('copy war to both nodes'){
76 +
77 +
            agent {
78 *
            node{
                label 'built-in'
79
80
81
82 🕶
         steps{
83
84
             sh "sudo scp -i /root/test.pem /root/project2/gameoflife-web/target/gameoflife.war ec2-user@172.31.20.150:/home/ec2-user/tomcat/apache-tomcat-9.0.65/webapps/"
             sh "sudo scp -i /root/test.pem /root/project2/gameoflife-web/target/gameoflife.war ec2-user@172.31.17.248:/home/ec2-user/tomcat/apache-tomcat-9.0.65/webapps/"
85
86
87
88
89
90
91
92 }
93
```

STEP6)

Stage5- check the node1 and node2 to verify

