Jenkins on EC2 Instance

* Install Jenkins on an EC2 Instance

Start a EC2 free tier instance

Ssh in into it , sudo to root, run the following commands to install Jenkins and

java (if not available) on it.

1 yum update -y

2 java -version

3 sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo

4 sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

5 yum install java-1.8.0-openjdk

6 yum install jenkins

7 java -version

8 service jenkins start

Open port 8080 in the security group

Then paste the secret key on the Jenkins console.

* Create a new job to run a maven project

Yum install git

Connect git repo <https://github.com/BrijKaur/game-of-life.git> as the source code

Build maven targets: clean package

Yum install maven

* Create a project to pull an index.html file from GitHub and deploy it on an EC2 instance.

Spin up a new EC2 instance

For the job add the GitHub repo in SourceCode.

For Build Step use shell

We will scp the file from Jenkins server to deployment server.

scp -i /var/lib/jenkins/secrets/LocalKP index.html ec2-user@13.233.59.95:/var/www/html/

On Jenkins server try to change user to Jenkins

su Jenkins

it will not work as we need to enable it to /bin/bash

tail /etc/passwd

usermod -s /bin/bash Jenkins

tail /etc/passwd --- to check

Then edit sudo file to let Jenkins sudo without password

Visudo

In this file after root entry add

jenkins ALL=(ALL) NOPASSWD:ALL

now su Jenkins

From the Local computer paste the secret key to login to deployment server on Jenkins server in secrets folder

cd secrets

vi LocalKP

chmod 400 LocalKP

pwd

Then on Deployment server install httpd and start it

Then on Jenkins server try this command

scp -i /var/lib/jenkins/secrets/LocalKP index.html ec2-user@13.233.59.95:/var/www/html/

Then Build the project

* Create a job to automate build whenever code is pushed in Git Repo (Using WebHooks)

Go to Jenkins > Configure System > GitHub Server > Advanced > Override Hook URL and just copy the URL

Go to GitHub > Settings > WebHooks and in PayloadURL paste the URL copied from jenkins> Check the active text box and Save and Add

Now go to Jenkins Server add the Git Repo in Source Code.

Build Trigger will be GitHub hook trigger for GITScm polling

Save

Do a new commit and Push in this GitHub repo and the build should be automatically