

Jenkins - exercise

Task Description

Login

1. Login to machines using pem
Master **ssh -i "candidate-test.pem" ec2-user@ec2-52-86-247-8.compute-1.amazonaws.com**
Slave - **ssh -i "candidate-test.pem" ec2-user@ec2-54-162-110-209.compute-1.amazonaws.com**
2. Connect to instances and install docker.
3. Download docker image Jenkins
4. Run Jenkins as container.
5. Create your initial Pipeline as a Jenkinsfile and keep it in github.
6. Create pipeline with few stages. Each stage in separate directory.
 - Stage 1 - create 10 files with text.
 - Stage 2 - Copy files from previous stage, insert time, date, time zone, to the files
 - Stage 3 - Copy files from previous stage, make those files read-only.
 - Stage 4 - Build new image based on nginx image
 - Stage 5 - Run container with mounted directory with files from Stage 3.
7. The Pipeline should be executed via Jenkins slave.
8. Port **11011** for Jenkins master for external url connection.
9. All 10 files and build tag should appearing while running curl <http://localhost> on Jenkins slave machine.

Details

Each commit to github should be trigger job in Jenkins.

The Jenkins job should run through Jenkins

slave component and doing the following:

Connect to machine using ssh:

- One machine Jenkins master role and second machine Jenkins slave role.
- On Jenkins master install in docker container with access to console over internet.
- Create public project on github and push nginx docker file there and index.html.
- You will receive access to aws account
- Again - Port 11011 for Jenkins master

We will evaluate the exercise based on:

- Jenkins job build
- Docker build.
- Packaging of the code.
- Aws managed services will be chosen.
- Security.

The expected deliverables are:

- A working environment on the AWS account
- Jenkins Pipeline successfully completed.
- User and password access to Jenkins.
- Url for github.
- A short-written summary – word document or email.