

NAME – SHANMUGADHAST S

EMP ID – 1754405

EMAILID – shanmugadhas.ts@tcs.com

Github link - https://github.com/shanmugadhas13/batch10_final-.git

DOCKER FILE :

```
root@master-pipeline: /var/lib/jenkins/workspace/master_pipeline - Google Chrome
ssh.cloud.google.com/projects/elevated-valve-306712/zones/us-central1-a/instances/master-pipeline?autl
root@master-pipeline: /var/lib/jenkins/workspace/master_pipeline# cat Dockerfile
FROM openjdk:11
MAINTAINER "shanmugha13"
COPY target/bootcamp*.jar .
CMD java -jar ./bootcamp*.jar
EXPOSE 8888
root@master-pipeline: /var/lib/jenkins/workspace/master_pipeline#
```

JENKINS PIPELINE FILE: (file attached in github)

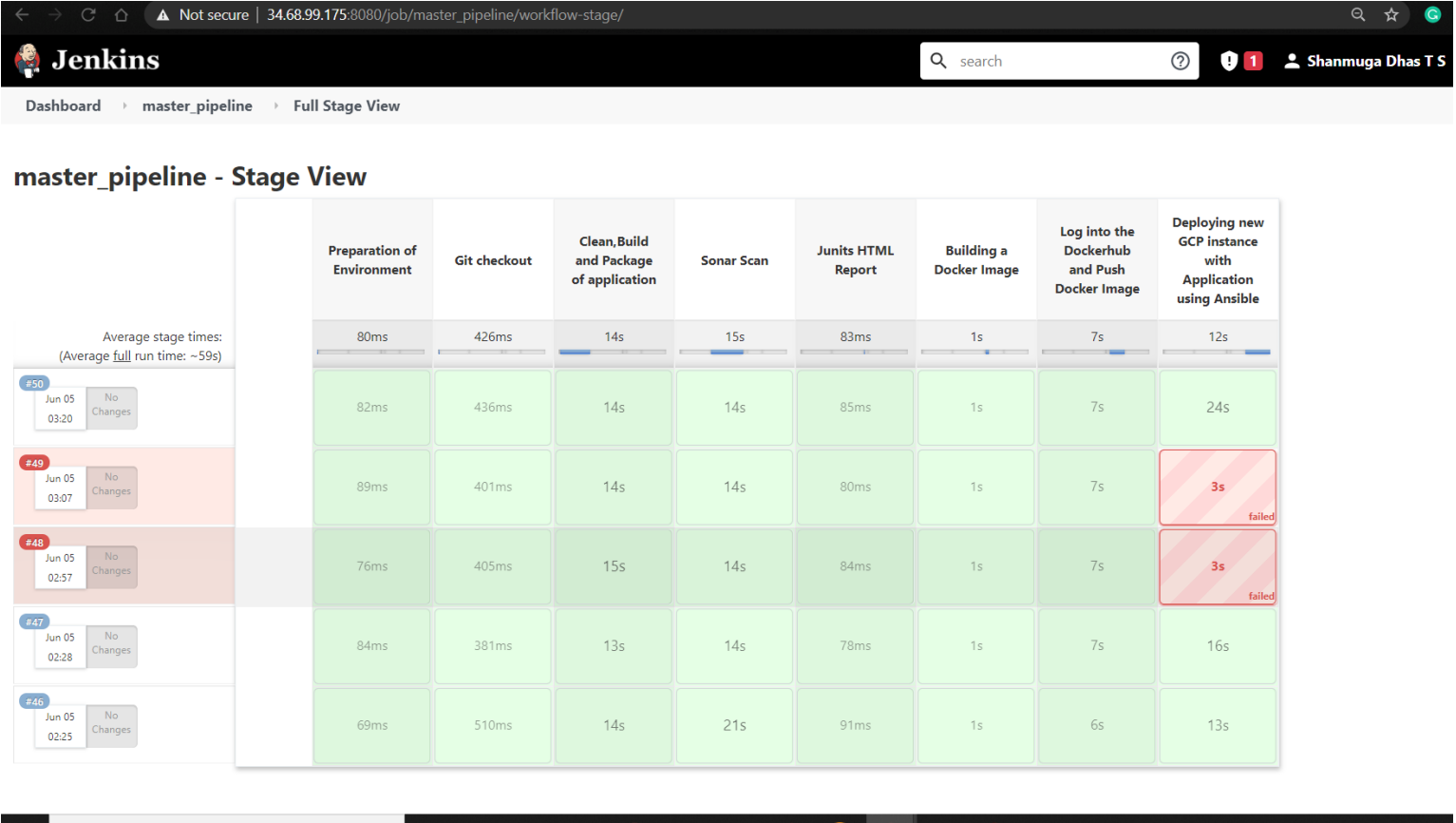
⚠ Not secure | 34.68.99.175:8080/job/master_pipeline/configure

master_pipeline

GeneralBuild TriggersAdvanced Project OptionsPipeline

```
1
2      def mavenHome
3      def mavenCMD
4      def docker
5      def dockerCMD
6
7      stage('Preparation of Environment')
8      {
9
10         echo "Setting up the Jenkins "
11         mavenHome = tool name: 'maven', type: 'maven'
12         mavenCMD = "${mavenHome}/bin/mvn"
13         docker = tool name: 'docker', type: 'org.jenkinsci.plugins.docker.commons.tools.DockerTool'
14         dockerCMD = "$docker/bin/docker"
15     }
16
17     stage('Git checkout')
18     {
19
20         echo "Check the code from git repos"
21         git 'https://github.com/shanmugadhas13/batch10.git'
22     }
23
24     stage('Clean, Build and Package of application')
25     {
26         echo "Building the application..."
27         sh "${mavenCMD} clean package"
28     }
29
30     stage('Sonar Scan')
31     {
32         echo "Scanning application for vulnerabilities using Sonar..."
33         sh "${mavenCMD} sonar:sonar -Dsonar.host.url=http://35.225.159.34:9000 -Dsonar.login=1a04e123214a2dc8797a0ca6"
34     }
35
36     stage('Junits HTML Report')
37     {
38         echo "Publish the HTML report of build"
39         publishHTML([allowMissing: false, alwaysLinkToLastBuild: false, keepAll: false, reportDir: 'target/', reportF
40     }
41
42     stage('Building a Docker Image')
43     try
44     {
45         echo "Building docker image for application"
46         sh 'docker build -t shanmugha13/final-devops13:pipeline13 .'
47     }
48     catch(Exception err)
49     {
50         echo "Exception occurred during Publish Report..."
51         currentBuild.result="FAILURE"
52         mail to: 'shanmugha13@gmail.com', subject: "Job ${JOB_NAME} (${BUILD_NUMBER}) is Failed at building new image
53         throw err
54     }
55
56     stage('Log into the Dockerhub and Push Docker Image')
```


JENKINS PIPELINE: (those two failures were triggered, for getting mail notifications!)



MAIL NOTIFICATION FOR A FAILURE IN PIPELINE :



Job master_pipeline (49) is Failed at Deploying new GCP instance with Application using Ansible

address not configured yet <shanmugadhas.ts13@gmail.com>
To: shanmugha13@gmail.com

Hi there,
The build is at - http://34.68.99.175:8080/job/master_pipeline/49/.
Error: hudson.AbortException: script returned exit code 1

Bye

SMTP CONFIGURATION FOR MAIL ALERTS:

E-mail Notification

SMTP server

smtp.gmail.com

Default user e-mail suffix

☒ Use SMTP Authentication

User Name

shanmugadhas.ts13@gmail.com

Password

Concealed

Change Password

☒ Use SSL

.

.

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..

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..

SONAR QUALITY SCAN :

← → ↺ 🏠

Not secure | 35.225.159.34:9000/dashboard?id=com.casestudy%3Abootcamp

sonarqube

ProjectsIssuesRulesQuality ProfilesQuality GatesAdministration

🔍 Search for projects and files...

bootcamp

master

June 5, 2021, 3:21 AM

OverviewIssuesMeasuresCodeActivityAdministration

Quality Gate

Passed

Reliability

Measures

0

A

started 1 hour ago

Bugs

New code: since previous version started 1 hour ago

0

A

New Bugs

Security

Measures

2

E

Vulnerabilities

1

Security Hotspots

0

A

New Vulnerabilities

0

New Security Hotspots

Maintainability

Measures

9min

A

Debt

3

Code Smells

0

A

New Debt

0

New Code Smells

Coverage

Measures

0.0%

2

Coverage on New Code

About This Project

Parent pom providing depe... management for applicatio...

No tags

XS90

Lines of Code

Project Activity

June 5, 2021

0.0.1-SNAPSHOT

June 5, 2021

Project Analyzed

June 5, 2021

Project Analyzed

Show More

Quality Gate

(Default)Sonar way

Quality Profiles

ANSIBLE EXECUTION :

```
controller starting with Ansible 2.12. Current version: 3.6.9 (default, Jan 26
2021, 15:33:00) [GCC 8.4.0]. This feature will be removed from ansible-core in
version 2.12. Deprecation warnings can be disabled by setting
deprecation_warnings=False in ansible.cfg.
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that
the implicit localhost does not match 'all'

PLAY [localhost] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [creating gcp instance] *****
changed: [localhost]

PLAY RECAP *****
localhost                : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

root@master-pipeline: /var/lib/jenkins/workspace/master_pipeline - Google Chrome

ssh.cloud.google.com/projects/elevated-valve-306712/zones/us-central1-a/instances/master-pipeline?authuser=0&hl=en_US&projectNumber=719438660858&useAdminProxy=

root@master-pipeline:/var/lib/jenkins/workspace/master_pipeline# cat create_new_instance.yml

```
---
- hosts: localhost
  connection: local
  tasks:
    - name: creating gcp instance
      gcp_compute_instance:
        name: ansible-deployed-instance
        machine_type: e2-micro
        disks:
          - auto_delete: true
            boot: true
            initialize_params:
              source_image: projects/ubuntu-os-cloud/global/images/family/ubuntu-1804-lts
        network_interfaces:
          - access_configs:
              - name: External NAT
                type: ONE_TO_ONE_NAT
        metadata:
          startup-script: |
            #!/bin/bash
            sudo apt-get update
            sudo apt-get install -y default-jre
            sudo apt update
            zone: us-central1-a
            project: elevated-valve-306712
            auth_kind: serviceaccount
            service_account_file: ./service.json
            state: present
          - pause:
              minutes: 1
        - name: Apt cache update
          apt:
            update_cache: yes
        - name: install docker
          apt:
            pkg: docker.io
            state: present
        - name: start docker service
          service:
            name: docker
            state: started
            enabled: true
        - name: Deploy application
          command: docker run -it -d -p 8081:8080 deployed shanmugha13/final-devops13:pipeline13
```

.
.

OUTPUTS :

INSTANCES

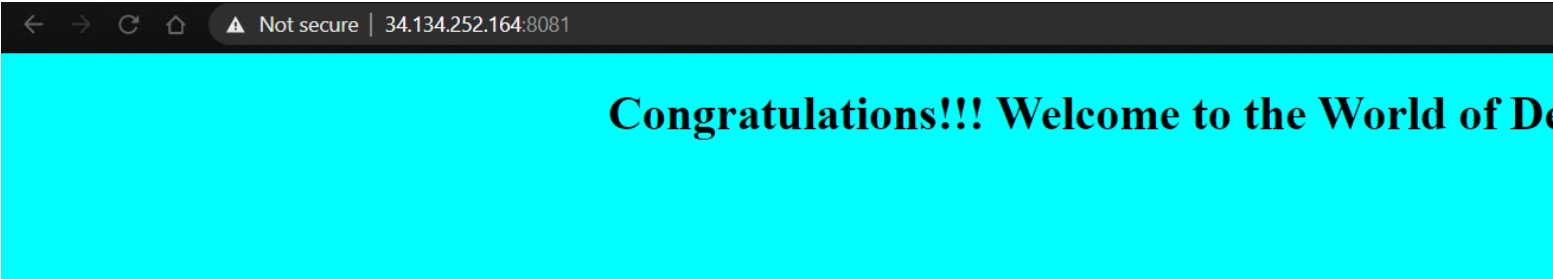
INSTANCE SCHEDULE

Filter

Enter property name or value

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP
<input type="checkbox"/>	✓	ansible-deployed-instance	us-central1-a			10.128.0.51 (nic0)	34.134.252.164 ↗
<input type="checkbox"/>	✓	master-pipeline	us-central1-a			10.128.0.42 (nic0)	34.68.99.175 ↗
<input type="checkbox"/>	✓	sonarqube-server	us-central1-a			10.128.0.52 (nic0)	35.225.159.34 ↗

Related Actions



← → ↻ 🏠 ⚠ Not secure | 35.225.159.34:9000/dashboard?id=com.casestudy%3Abootcamp

sonarqube

Projects Issues Rules Quality Profiles Quality Gates Administration

bootcamp

master +

Overview

Issues

Measures

Code

Activity

Administration ▾

Quality Gate ⓘ

Passed

Reliability Measures

New code: since previous version started 1 hour ago

0 A

started 1 hour ago

Bugs ⓘ

0 A

New Bugs

Security Measures

2 E

Vulnerabilities ⓘ

1

Security Hotspots ⓘ

0 A

New Vulnerabilities

0

New Security Hotspots

master_pipeline - Stage View

Average stage times:
(Average full run time: ~55s)

#51

Jun 05 04:02

No Changes

#50

Jun 05 03:20

No Changes

#49

Jun 05 03:07

No Changes

#48

Jun 05 02:57

No Changes

#47

Jun 05 02:28

No Changes

#46

Jun 05 02:15

No Changes

Preparation of Environment	Git checkout	Clean, Build and Package of application	Sonar Scan	Junits HTML Report	Building a Docker Image	Log into the Dockerhub and Push Docker Image	Deploying new GCP instance with Application using Ansible
79ms	414ms	14s	15s	83ms	1s	7s	10s
79ms	353ms	14s	14s	85ms	1s	8s	3s
82ms	436ms	14s	14s	85ms	1s	7s	24s
89ms	401ms	14s	14s	80ms	1s	7s	3s failed
76ms	405ms	15s	14s	84ms	1s	7s	3s failed
84ms	381ms	13s	14s	91ms	1s	7s	16s
69ms	510ms	14s	21s	91ms	1s	6s	13s

Success

📄 Logs

