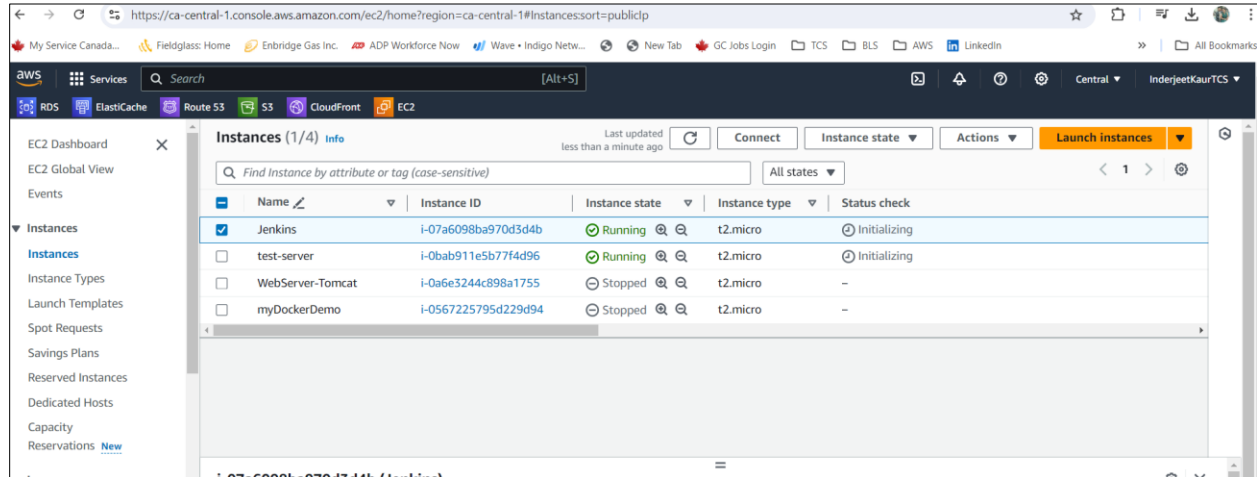


## Assignment : Medicure Project

Jenkins Server (15.223.64.207) and Test server ( 35.183.111.138):



Mvn, Jenkins and docker installed on Jenkins Server

```
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-24-144:~$ mvn --version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.24, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.5.0-1022-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-24-144:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2024-08-19 01:03:49 UTC; 1min 37s ago
     Main PID: 4749 (java)
       Tasks: 37 (limit: 1120)
      Memory: 258.2M
         CPU: 18.363s
    CGroup: /system.slice/jenkins.service
            └─4749 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Aug 19 01:03:41 ip-172-31-24-144 jenkins[4749]: afcbe7de45264eclaf1ef819dec77a77
Aug 19 01:03:41 ip-172-31-24-144 jenkins[4749]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Aug 19 01:03:41 ip-172-31-24-144 jenkins[4749]: *****
Aug 19 01:03:41 ip-172-31-24-144 jenkins[4749]: *****
Aug 19 01:03:41 ip-172-31-24-144 jenkins[4749]: *****
Aug 19 01:03:49 ip-172-31-24-144 jenkins[4749]: 2024-08-19 01:03:49.350+0000 [id=30] INFO jenkins.InitReactorRunner$1onAttained: Completed i
Aug 19 01:03:49 ip-172-31-24-144 jenkins[4749]: 2024-08-19 01:03:49.375+0000 [id=22] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is full
Aug 19 01:03:49 ip-172-31-24-144 systemd[1]: Started Jenkins Continuous Integration Server.
Aug 19 01:03:49 ip-172-31-24-144 jenkins[4749]: 2024-08-19 01:03:49.538+0000 [id=45] INFO h.m.DownloadService$Downloadable#load: Obtained the
Aug 19 01:03:49 ip-172-31-24-144 jenkins[4749]: 2024-08-19 01:03:49.539+0000 [id=45] INFO hudson.util.Retrier#start: Performed the action che
lines 1-20/20 (END)
```

Git Cloned from : <https://github.com/InderjeetKaur03/medicure-app-assignment-project>

```
git clone https://github.com/InderjeetKaur03/medicure-app-assignment-project is not a git command. See 'git help'.
ubuntu@ip-172-31-24-144:~$ git clone https://github.com/InderjeetKaur03/medicure-app-assignment-project
Cloning into 'medicure-app-assignment-project'...
remote: Enumerating objects: 259, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 100% (18/18), done.
remote: Total 259 (delta 20), reused 7 (delta 7), pack-reused 234 (from 1)
Receiving objects: 100% (259/259), 1.83 MiB | 7.99 MiB/s, done.
Resolving deltas: 100% (98/98), done.
ubuntu@ip-172-31-24-144:~$ |
```

Application built locally:

```
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.072 s - in com.project.mentorbabaa.TestMedicureService
2024-08-19 01:44:39.703 INFO 1673 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2024-08-19 01:44:39.706 INFO 1673 --- [ionShutdownHook] .SchemaDropperImpl$DelayedDropActionImpl : HHH000477: Starting delayed evictData of schema as part of SessionFactory shut-down'
2024-08-19 01:44:39.720 INFO 1673 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2024-08-19 01:44:39.732 INFO 1673 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
[INFO] Results:
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ medicure ---
[INFO] Building jar: /home/ubuntu/medicure-app-assignment-project/target/medicure-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.7.4:repackage (repackage) @ medicure ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 21.450 s
[INFO] Finished at: 2024-08-19T01:44:42Z
[INFO]
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ |
```

Dockerfile created

```
ubuntu@ip-172-31-24-144: ~/ × + v
FROM openjdk:11
MAINTAINER "Inderjeet"
ARG JAR_FILE=target/*.jar
COPY ${JAR_FILE} app.jar
ENTRYPOINT ["java", "-jar", "app.jar"]
~
~
~
~
```

## Docker image built

```
ubuntu@ip-172-31-24-144: ~/ x + v
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ docker build -t inderjeetkaur03/medicure:1.0 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
              Install the buildx component to build images with BuildKit:
              https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  49.65MB
Step 1/5 : FROM openjdk:11
11: Pulling from library/openjdk
001c52e26ad5: Pull complete
d9d4b9b6e964: Pull complete
2068746827ec: Pull complete
9daef329d350: Pull complete
d85151f15b66: Pull complete
66223a710990: Pull complete
db38d58ec8ab: Pull complete
Digest: sha256:99bac5bf83633e3c7399aed725c8415e7b569b54e03e4599e580fc9cdb7c21ab
Status: Downloaded newer image for openjdk:11
----> 47a932d998b7
Step 2/5 : MAINTAINER "Inderjeet"
----> Running in 3c40b8ce1399
Removing intermediate container 3c40b8ce1399
----> f33ab3a4872c
Step 3/5 : ARG JAR_FILE=target/*.jar
----> Running in 23adbdbc1484
Removing intermediate container 23adbdbc1484
----> 7064d24a50b3
Step 4/5 : COPY ${JAR_FILE} app.jar
----> 203203a2bb04
Step 5/5 : ENTRYPOINT ["java", "-jar", "app.jar"]
----> Running in abaa95b02e1
Removing intermediate container abaa95b02e1
----> 2fa2924e60e6
Successfully built 2fa2924e60e6
Successfully tagged inderjeetkaur03/medicure:1.0
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ docker images
REPOSITORY          TAG       IMAGE ID       CREATED        SIZE
inderjeetkaur03/medicure   1.0       2fa2924e60e6   33 seconds ago   695MB
openjdk              11        47a932d998b7   2 years ago     654MB
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ |
```

## Docker image ran

```
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ docker images
REPOSITORY          TAG       IMAGE ID       CREATED        SIZE
inderjeetkaur03/medicure   1.0       2fa2924e60e6   33 seconds ago   695MB
openjdk              11        47a932d998b7   2 years ago     654MB
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ docker run -itd -p 8081:8081 inderjeetkaur03/medicure:1.0
d2a578d5018f6f3bce40402558716cb8cef58fe1a3a3258ae88e87056b63a692
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ |
```

## Docker image pushed to docker hub:

```
Login Succeeded
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ docker push inderjeetkaur03/medicure:1.0
The push refers to repository [docker.io/inderjeetkaur03/medicure]
71a03893f7cb: Pushed
7b7f3078e1db: Layer already exists
826c3ddbb29c: Layer already exists
b626401ef603: Layer already exists
9b55156abf26: Layer already exists
293d5db30c9f: Layer already exists
03127cdb479b: Layer already exists
9c742cd6c7a5: Layer already exists
1.0: digest: sha256:c9f5415624c164c11e32aa6914861945e9cb92d27b3bd17834b48b85b0bd76f5 size: 2007
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ |
```

Ansible installed:

```
no VM guests are running nested hypervisor (kvm) binaries on this host
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ ansible --version
ansible 2.10.8
  config file = None
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$
```

Pem file copied to Ansible master :

```
ubuntu@ip-172-31-24-144:~$ ls -al
total 56
drwxr-x--- 8 ubuntu ubuntu 4096 Aug 19 02:12 .
drwxr-xr-x 3 root root 4096 Aug 19 00:48 ..
drwxrwxr-x 3 ubuntu docker 4096 Aug 19 01:58 .ansible
-rw----- 1 ubuntu ubuntu 895 Aug 19 01:44 .bash_history
-rw-r--r-- 1 ubuntu ubuntu 220 Jan 6 2022 .bash_logout
-rw-r--r-- 1 ubuntu ubuntu 3771 Jan 6 2022 .bashrc
drwx----- 2 ubuntu ubuntu 4096 Aug 19 00:48 .cache
drwx----- 2 ubuntu docker 4096 Aug 19 01:55 .docker
drwxrwxr-x 3 ubuntu ubuntu 4096 Aug 19 01:15 .m2
-rw-r--r-- 1 ubuntu ubuntu 807 Jan 6 2022 .profile
drwx----- 2 ubuntu ubuntu 4096 Aug 19 00:48 .ssh
-rw-r--r-- 1 ubuntu ubuntu 0 Aug 19 01:00 .sudo_as_admin_successful
-rw----- 1 ubuntu ubuntu 1486 Aug 19 02:03 .viminfo
-r----- 1 ubuntu ubuntu 1678 Aug 19 02:12 devopsTCSKeyPair.pem
drwxrwxr-x 6 ubuntu ubuntu 4096 Aug 19 01:46 medicure-app-assignment-project
ubuntu@ip-172-31-24-144:~$
```

Pinged test server

```
ubuntu@ip-172-31-24-144:~$ ls -all
total 56
drwxr-x--- 8 ubuntu ubuntu 4096 Aug 19 02:22 .
drwxr-xr-x 3 root root 4096 Aug 19 00:48 ..
drwxrwxr-x 3 ubuntu docker 4096 Aug 19 01:58 .ansible
-rw----- 1 ubuntu ubuntu 895 Aug 19 01:44 .bash_history
-rw-r--r-- 1 ubuntu ubuntu 220 Jan 6 2022 .bash_logout
-rw-r--r-- 1 ubuntu ubuntu 3771 Jan 6 2022 .bashrc
drwx----- 2 ubuntu ubuntu 4096 Aug 19 00:48 .cache
drwx----- 2 ubuntu docker 4096 Aug 19 01:55 .docker
drwxrwxr-x 3 ubuntu ubuntu 4096 Aug 19 01:15 .m2
-rw-r--r-- 1 ubuntu ubuntu 807 Jan 6 2022 .profile
drwx----- 2 ubuntu ubuntu 4096 Aug 19 00:48 .ssh
-rw-r--r-- 1 ubuntu ubuntu 0 Aug 19 01:00 .sudo_as_admin_successful
-rw----- 1 ubuntu ubuntu 2124 Aug 19 02:22 .viminfo
-r----- 1 ubuntu ubuntu 1678 Aug 19 02:12 devopsTCSKeyPair.pem
drwxrwxr-x 6 ubuntu ubuntu 4096 Aug 19 01:46 medicure-app-assignment-project
ubuntu@ip-172-31-24-144:~$ ansible -m ping test-server
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details
The authenticity of host '35.183.111.138 (35.183.111.138)' can't be established.
ED25519 key fingerprint is SHA256:KB0WEL0RbAjdG7R2mD21AYUIfIOJxYKe/NOvax7mPM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
35.183.111.138 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-24-144:~$
```

## Ansible playbook written and ran

```

- hosts: test-server
  become: true
  tasks:
    - name: update cache
      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 to test server
      command: docker run -itd -p 8081:8081 inderjeetkaur03/medicure:1.0

```

```

ubuntu@ip-172-31-24-144:~$ ansible-playbook test-server-deploy.yml
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [test-server] *************************************************************************************************************************************

TASK [Gathering Facts] *************************************************************************************************************************************
ok: [35.183.111.138]

TASK [update cache] *************************************************************************************************************************************
changed: [35.183.111.138]

TASK [install docker] *************************************************************************************************************************************
changed: [35.183.111.138]

TASK [start docker service] *************************************************************************************************************************************
ok: [35.183.111.138]

TASK [deploy to test server] *************************************************************************************************************************************
changed: [35.183.111.138]

PLAY RECAP *************************************************************************************************************************************
35.183.111.138      : ok=5    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ip-172-31-24-144:~$

```

## Dockerfile and ansible configuration committed to git

```
(use "git restore --staged <file>..." to unstage)
new file:   Dockerfile
new file:   test-server-deploy.yml

ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ git commit -m "Dockerfile and ansible playbook added"
[master 525a7d3] Dockerfile and ansible playbook added
  Committer: Ubuntu <ubuntu@ip-172-31-24-144.ca-central-1.compute.internal>
  Your name and email address were configured automatically based
  on your username and hostname. Please check that they are accurate.
  You can suppress this message by setting them explicitly. Run the
  following command and follow the instructions in your editor to edit
  your configuration file:

    git config --global --edit

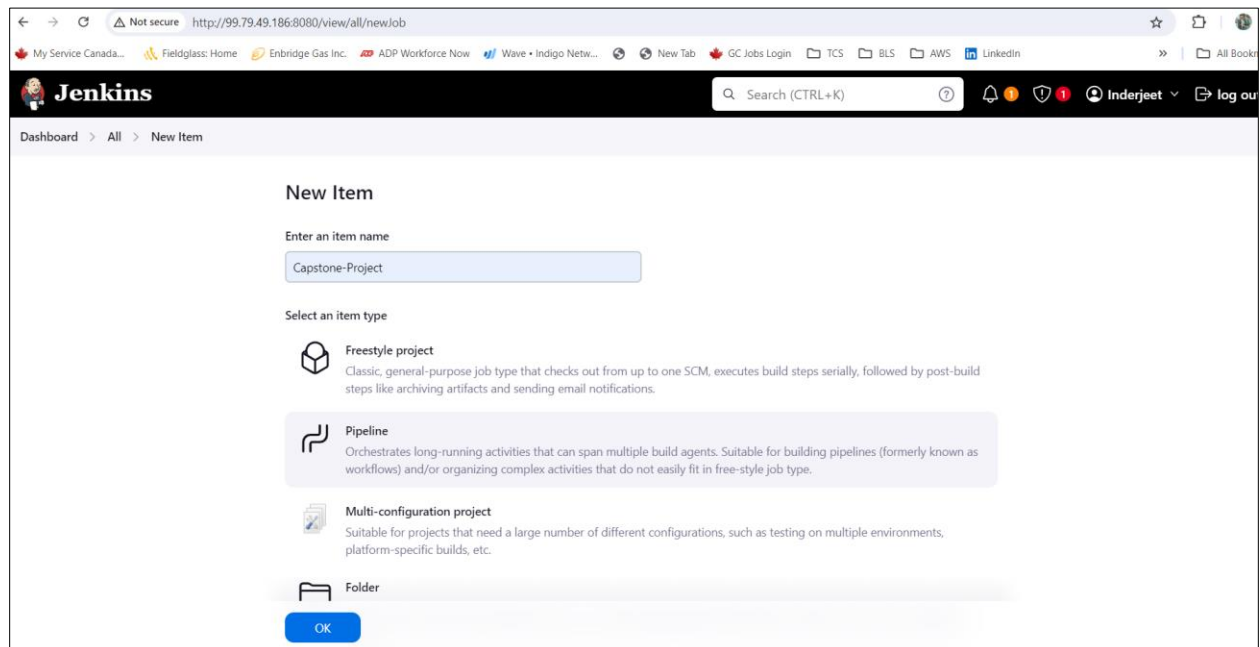
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

2 files changed, 25 insertions(+)
create mode 100644 Dockerfile
create mode 100644 test-server-deploy.yml
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ git push origin master
Username for 'https://github.com': jeet.inder03@gmail.com
Password for 'https://jeet.inder03@gmail.com@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on current
ly recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/InderjeetKaur03/medicure-app-assignment-project/'
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ git push origin master
Username for 'https://github.com': jeet.inder03@gmail.com
Password for 'https://jeet.inder03@gmail.com@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 678 bytes | 678.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/InderjeetKaur03/medicure-app-assignment-project
   fe58741..525a7d3  master -> master
ubuntu@ip-172-31-24-144:~/medicure-app-assignment-project$ |
```

Building Jenkins Pipeline (New Jenkins had to be set up, previous one did not connect):

New Jenkins Server IP/URL : <http://99.79.49.186:8080/>





← → ↻ https://hub.docker.com/repository/docker/inderjeetkaur03/medicure/general

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dockerhub Explore Repositories Organizations Search Docker Hub ctrl+K ? ⚙️ 🔄 ☰ I

inderjeetkaur03 / Repositories / medicure / General Using 0 of 1 private repositories.

General Tags Builds Collaborators Webhooks Settings

**inderjeetkaur03/medicure** 📄  
Updated 9 minutes ago

This repository does not have a description ✎ 🕒 INCOMPLETE

This repository does not have a category ✎ 🕒 INCOMPLETE

**Docker commands**  
To push a new tag to this repository: Public View

```
docker push inderjeetkaur03/medicure:tagname
```

**Tags**  
This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
2.0	🐳	Image	---	9 minutes ago
1.0	🐳	Image	12 hours ago	15 hours ago

[See all](#)

**Automated Builds**  
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#) 📄

Upgrade

## Ansible in Jenkins

← → ↻ ⚠️ Not secure http://99.79.49.186:8080/manage/configureTools/ ☆ 📄

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Dashboard > Manage Jenkins > Tools

**Ansible installations** ^ ✎ Edited

Add Ansible

≡ **Ansible** ✕

Name

ansible

☒ Install automatically ?

Add Installer ▾

Add Ansible

Save Apply



## Ansible deployment pipeline

← → ↻ Not secure http://99.79.49.186:8080/job/Deployment-Pipeline/configure ☆

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Dashboard > Deployment-Pipeline > Configuration

### Configure

- General
- Advanced Project Options
- Pipeline

☐ Throttle builds ?

**Build Triggers**

☒ Build after other projects are built ?

Projects to watch

Capstone-Project,

❗ No such project 'ca'. Did you mean 'Capstone-Project'?

☒ Trigger only if build is stable

☐ Trigger even if the build is unstable

☐ Trigger even if the build fails

☐ Always trigger, even if the build is aborted

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

Save Apply

← → ↻ Not secure http://99.79.49.186:8080/job/Deployment-Pipeline/configure ☆

My Service Canada... Fieldglass: Home Enbridge Gas Inc. ADP Workforce Now Wave • Indigo Netw... New Tab GC Jobs Login TCS BLS AWS LinkedIn

Dashboard > Deployment-Pipeline > Configuration

### Configure

- General
- Advanced Project Options
- Pipeline

**Pipeline**

Definition

Pipeline script

Script ?

```
1 node{
2   stage('Code Checkout'){
3     git 'https://github.com/InderjeetKaur03/medicure-app-assignment-project'
4   }
5
6   stage('deploy to test-server'){
7     ansiblePlaybook become: true, credentialsId: 'ansible-creds', disableHostKeyChecking: true, installation: 'ansible', inventory: '/et
8   }
9 }
```

try sample Pipeline...

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

Deployment pipeline triggered successfully



## Docker image deployed on test server

```
*** System restart required ***
last login: Mon Aug 19 17:27:58 2024 from 99.79.49.186
ubuntu@ip-172-31-20-157:~$ sudo docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
becd69d71ab3   iinderjeetkaur03/medicure:1.0       "java -jar app.jar"     4 minutes ago Up 4 minutes   0.0.0.0:8081->8081/tcp, :::8081->8081/tcp   elastic_buck
ubuntu@ip-172-31-20-157:~$
```

i-0bab911e5b77f4d96 (test-server)  
PublicIPs: 35.183.111.138 PrivateIPs: 172.31.20.157

## Webhook added in Github

← → ↺ 🌐 https://github.com/InderjeetKaur03/medicure-app-assignment-project/settings/hooks/496798309 📄 ☆

🇨🇦 My Service Canada... 🏠 Fieldglass: Home 🏠 Enbridge Gas Inc. 🏠 ADP Workforce Now 🌊 Wave • Indigo Netw... 🌐 New Tab 🇨🇦 GC Jobs Login 📁 TCS 📁 BLS 📁 AWS 🌐 LinkedIn

☰ 🐙 InderjeetKaur03 / medicure-app-assignment-project 🔍 Type  to search + ▾

<> Code 📄 Pull requests 🔄 Actions 📁 Projects 📖 Wiki 🛡 Security 📈 Insights ⚙ Settings

⚙ General

Access

👤 Collaborators

🗨 Moderation options ▾

Code and automation

🌿 Branches

🏷 Tags

📋 Rules ▾

🕒 Actions ▾

🔗 Webhooks

🏠 Environments

📁 Codespaces

📄 Pages

Security

🔒 Code security and analysis

🔑 Deploy keys

### Webhooks / Manage webhook

Settings Recent Deliveries

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

**Payload URL \***

**Content type \***

application/json ▾

**Secret**

**SSL verification**

🔒 By default, we verify SSL certificates when delivering payloads.

☒ Enable SSL verification ☐ Disable (not recommended)

## Updated webhook trigger in Capstone-project pipeline in Jenkins

← → ↺ Not secure http://99.79.49.186:8080/job/Capstone-Project/configure

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Dashboard > Capstone-Project > Configuration

### Configure

**General**

Advanced Project Options

Pipeline

☐ Preserve stashes from completed builds ?

☐ This project is parameterized ?

☐ Throttle builds ?

#### Build Triggers

☐ Build after other projects are built ?

☐ Build periodically ?

☒ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

☐ Trigger builds remotely (e.g., from scripts) ?

#### Advanced Project Options

Advanced ▾

**Save** **Apply**

## Prod-server created manually

https://ca-central-1.console.aws.amazon.com/ec2/home?region=ca-central-1#instances:

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RDS ElastiCache Route 53 S3 CloudFront EC2

EC2 Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

### Instances (1/7) Info

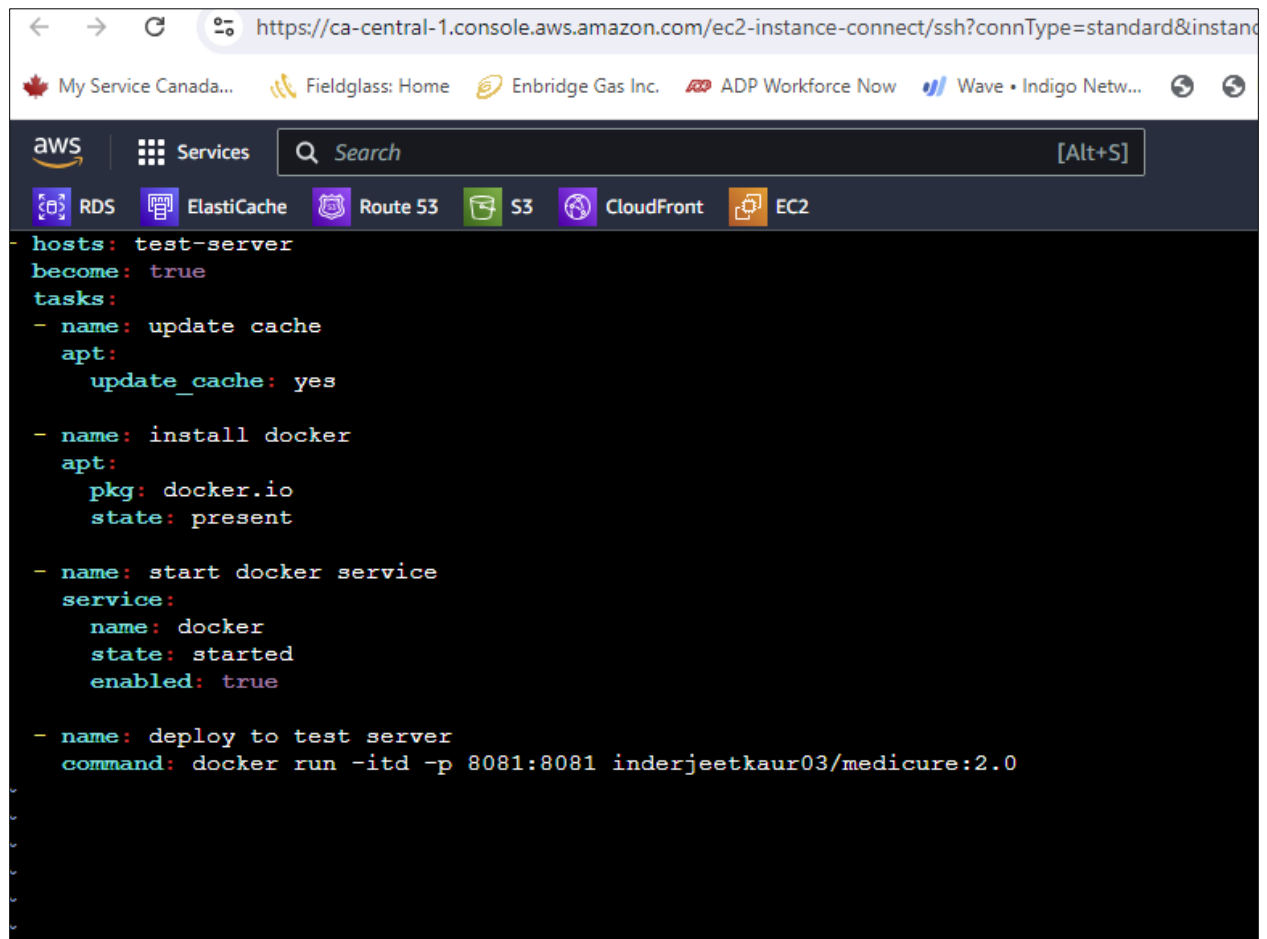
Find Instance by attribute or tag (case-sensitive) All states

Last updated less than a minute ago

Connect Instance state Actions Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Plat
<input type="checkbox"/>	WebServer-Tomcat	i-0a6e3244c898a1755	Stopped	t2.micro	-	View alarms +	ca-central-1b	-
<input type="checkbox"/>	myDockerDemo	i-0567225795d229d94	Stopped	t2.micro	-	View alarms +	ca-central-1b	-
<input type="checkbox"/>	JenkinsServerT2Medium	i-06992e16acc8dc21	Running	t2.medium	2/2 checks passed	View alarms +	ca-central-1b	ec2
<input type="checkbox"/>	test-server	i-0bab911e5b77f4d96	Running	t2.micro	2/2 checks passed	View alarms +	ca-central-1a	ec2
<input type="checkbox"/>	Jenkins	i-07a6098ba970d3d4b	Running	t2.micro	1/2 checks passed	View alarms +	ca-central-1a	ec2
<input type="checkbox"/>	Jenkins-New	i-05377647b940015ea	Running	t2.micro	1/2 checks passed	View alarms +	ca-central-1a	ec2
<input checked="" type="checkbox"/>	prod-server	i-0251f89cf682cae03	Running	t2.micro	Initializing	View alarms +	ca-central-1a	ec2

Test server yml updated to medicure version 2



The screenshot shows a web browser window with the AWS Management Console URL: `https://ca-central-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0123456789abcdef0`. The browser's address bar and tabs are visible at the top. Below the browser window, the AWS console interface is shown, including the 'Services' menu and a search bar. The main content area displays a terminal window with a YAML configuration for a test server. The configuration includes tasks to update the cache, install Docker, start the Docker service, and deploy the test server using the `medicure:2.0` image.

```
hosts: test-server
become: true
tasks:
- name: update cache
  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 to test server
  command: docker run -itd -p 8081:8081 inderjeetkaur03/medicure:2.0
```

Prod server yml created

```
ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$ sudo cat prod-server-deploy.yml
- hosts: prod-server
  become: true
  tasks:
  - name: update cache
    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 to prod server
    command: docker run -itd -p 8081:8081 inderjeetkaur03/medicure:2.0
ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$
```

i-06992e16acc8c0c21 (JenkinsServerT2Medium)

PublicIPs: 99.79.49.186 PrivateIPs: 172.31.2.27

Hosts file updated

```
ubuntu@ip-172-31-2-27:/etc/ansible$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
ubuntu@ip-172-31-2-27:/etc/ansible$ sudo vi hosts
ubuntu@ip-172-31-2-27:/etc/ansible$ sudo cat hosts
[test-server]
5.183.111.138

[prod-server]
5.157.66.46
ubuntu@ip-172-31-2-27:/etc/ansible$
```

i-06992e16acc8c0c21 (JenkinsServerT2Medium)

PublicIPs: 99.79.49.186 PrivateIPs: 172.31.2.27

All yaml changes pushed to git

```
aws Services Search [Alt+S]
RDS ElastiCache Route 53 S3 CloudFront EC2

ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$ git commit -m "test server yaml updated for medicure version 2"
error: pathspec '-' did not match any file(s) known to git
error: pathspec 'm' did not match any file(s) known to git
error: pathspec 'test server yaml updated for medicure version 2' did not match any file(s) known to git
ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$ git commit -m "test server yaml updated for medicure version 2"
[master 5b7e92a] test server yaml updated for medicure version 2
Committer: Ubuntu <ubuntu@ip-172-31-2-27.ca-central-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

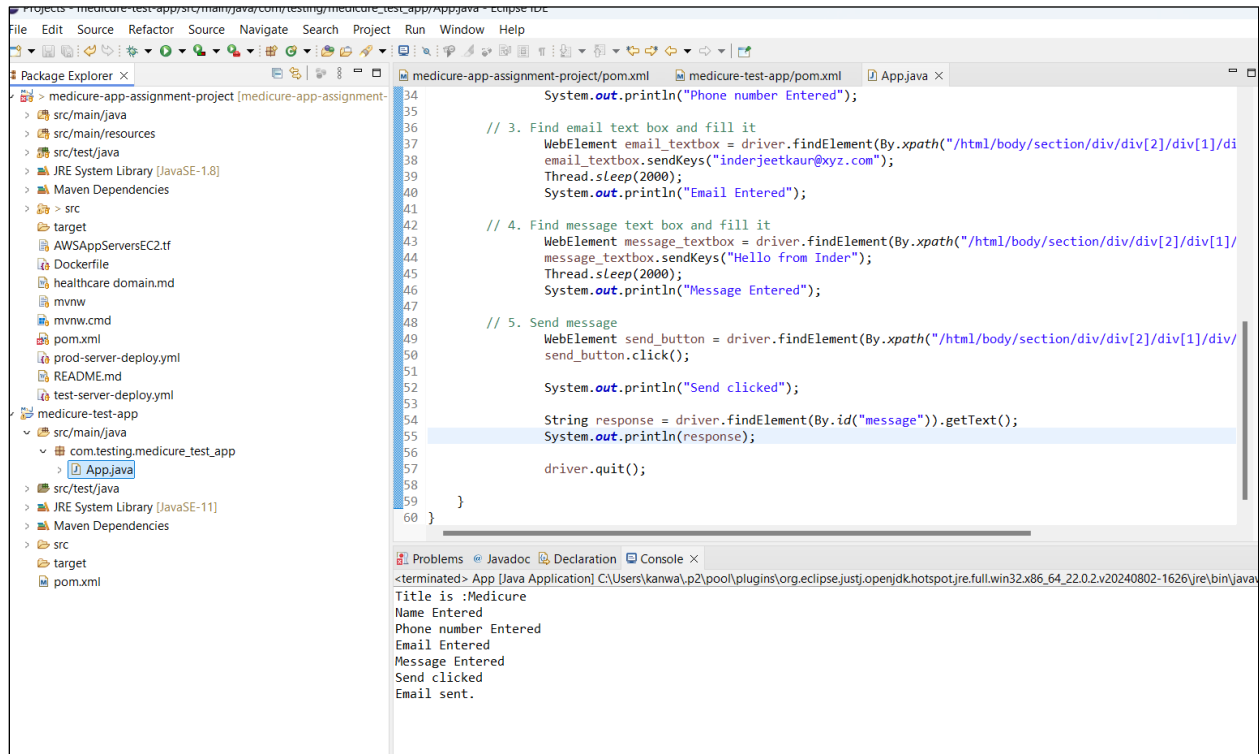
    git commit --amend --reset-author

1 file changed, 1 insertion(+), 1 deletion(-)
ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$ git push origin master
Username for 'https://github.com': jeet.inder03@gmail.com
Password for 'https://jeet.inder03@gmail.com@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-ht
fatal: Authentication failed for 'https://github.com/InderjeetKaur03/medicure-app-assignment-project/'
ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$ git push origin master
Username for 'https://github.com': jeet.inder03@gmail.com
Password for 'https://jeet.inder03@gmail.com@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 2 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 826 bytes | 826.00 KiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/InderjeetKaur03/medicure-app-assignment-project
  525a7d3..5b7e92a  master -> master
ubuntu@ip-172-31-2-27:~/medicure-app-assignment-project$
```

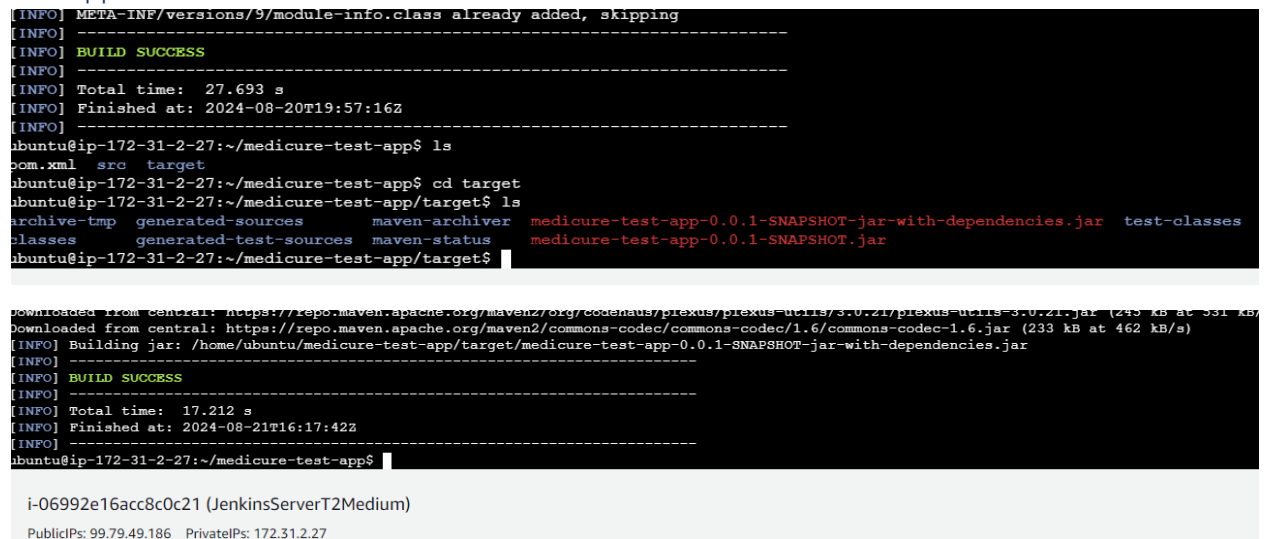
i-06992e16acc8c0c21 (JenkinsServerT2Medium)  
PublicIPs: 99.79.49.186 PrivateIPs: 172.31.2.27

Medicure test app created and tested :

<https://github.com/InderjeetKaur03/medicure-test-app.git>



Test app build on server:



My test app fails to build in Jenkins, could not find why. It builds fine when done manually on test server.

This last step was left pending. Below was the error.

Failed to execute goal org.apache.maven.plugins:maven-assembly-plugin:3.3.0:single(default-cli) on project medicure

Error reading assemblies: No assembly descriptors found

```
> git branch -a -v --no-abbrev # timeout=10
> git branch -D master # timeout=10
> git checkout -b master f454b91ed3f25a89fa530ae17fd7ae06e32e22d8 # timeout=10
Commit message: "Update README.md"
> git rev-list --no-walk 5b7e92aa2252b1b25616b832b2bbeb16ee45aad9 # timeout=10

[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build test app)
[Pipeline] sh
+ mvn clean package assembly:single
[1;34mINFO[1;34m Scanning for projects...
[1;34mTNF[1;34m
```

```
[1;34mINFO[1;34m --- [0;32mmaven-assembly-plugin:3.3.0:single[1;34m(default-cli)[1;34m @ [36medicure[0;1m ---[1;34m
[1;34mINFO[1;34m -----[1;34m
[1;34mINFO[1;34m [1;31mBUILD FAILURE[1;34m
[1;34mINFO[1;34m -----[1;34m
[1;34mINFO[1;34m Total time: 11.506 s
[1;34mINFO[1;34m Finished at: 2024-08-21T16:23:13Z
[1;34mINFO[1;34m [1;34m
[1;31mERROR[1;31m Failed to execute goal [32morg.apache.maven.plugins:maven-assembly-plugin:3.3.0:single[1;34m(default-cli)[1;34m on project [36medicure[1;31m: Error reading assemblies: No
assembly descriptors found.[1;34m -> [1;34m[Help 1][1;34m
[1;31mERROR[1;31m
[1;31mERROR[1;31m To see the full stack trace of the errors, re-run Maven with the [1;31m-e[1;31m switch.
[1;31mERROR[1;31m Re-run Maven using the [1;31m-X[1;31m switch to enable full debug logging.
[1;31mERROR[1;31m
[1;31mERROR[1;31m For more information about the errors and possible solutions, please read the following articles:
[1;31mERROR[1;31m [1;34m[Help 1][1;34m http://wiki.apache.org/confluence/display/MAVEN/NoJoExecutionException
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
ERROR: script returned exit code 1
Finished: FAILURE
```



## Deployment pipeline updated to run test cases before deployment to test server

Dashboard > Deployment-Pipeline > Configuration

### Configure

- General
- Advanced Project Options
- Pipeline

Advanced Project Options

Advanced

Pipeline

Definition

Pipeline script

Script ?

```
1 stage('deploy to test-server'){
2   ansiblePlaybook become: true, credentialsId: 'ansible-creds', disableHostKeyChecking: true, installation: 'ansible', inventory: '/etc/ansible/hosts', playbook: 'test-
3 }
4 stage('Test App Checkout'){
5   git 'https://github.com/InderjeetKaur03/medicure-test-app.git'
6 }
7 stage('Build test app'){
8   sh 'mvn clean package assembly:single'
9 }
10 stage('Run Test cases'){
11   sh 'java -jar target/medicure-test-app-0.0.1-SNAPSHOT-jar-with-dependencies.jar'
12 }
13 stage('Deploy code to prod'){
14 }
15 }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

## Deploy to prod server:

Dashboard > Deployment-Pipeline > Configuration

### Configure

- General
- Advanced Project Options
- Pipeline

Advanced Project Options

Advanced

Pipeline

Definition

Pipeline script

Script ?

```
1 node{
2   stage('Code Checkout'){
3     git 'https://github.com/InderjeetKaur03/medicure-app-assignment-project'
4   }
5   stage('deploy to test-server'){
6     ansiblePlaybook become: true, credentialsId: 'ansible-creds', disableHostKeyChecking: true, installation: 'ansible', inventory: '/etc/ansible/hosts', playbook: 'test-se
7   }
8   stage('Test App Checkout'){
9     git 'https://github.com/InderjeetKaur03/medicure-test-app.git'
10   }
11   stage('Build test app'){
12     sh 'mvn package assembly:single'
13   }
14   stage('Run Test cases'){
15     sh 'java -jar target/medicure-test-app-0.0.1-SNAPSHOT-jar-with-dependencies.jar'
16   }
17   stage('Code Checkout for prod'){
18     git 'https://github.com/InderjeetKaur03/medicure-app-assignment-project'
19   }
20   stage('Deploy code to prod'){
21     ansiblePlaybook become: true, credentialsId: 'ansible-creds', disableHostKeyChecking: true, installation: 'ansible', inventory: '/etc/ansible/hosts', playbook: 'pro
22   }
23 }
24 }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

