

CAPSTONE PROJECT

JENKINS:

```
ubuntu@ip-172-31-9-233: ~
ELCOT@Lenovo MINGW64 ~ (master)
$ cd downloads/
ELCOT@Lenovo MINGW64 ~/downloads (master)
$ chmod 400 projectkey.pem
ELCOT@Lenovo MINGW64 ~/downloads (master)
$ ssh -i "projectkey.pem" ubuntu@ec2-13-233-103-90.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-233-103-90.ap-south-1.compute.amazonaws.com (13.233.103.90)' can't be established.
ED25519 key fingerprint is ed42616b7e0884000000000000000000.
This key is known by other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-233-103-90.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1012-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

 System information as of Fri Nov 24 17:06:37 UTC 2023

 System load: 0.0224609375 Processes: 101
 Usage of /: 20.5% of 7.57GB Users Logged in: 0
 Memory usage: 21% IPv4 address for eth0: 172.31.9.233
 Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-9-233:~$
```

```
ubuntu@ip-172-31-9-233:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive/ubuntu/ jammy InRelease
Get:2 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports InRelease [109 kB]
Get:4 http://ap-south-1.ec2.archive/ubuntu/ jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://ap-south-1.ec2.archive/ubuntu/ jammy/universe Translation-en [5652 kB]
Get:7 http://ap-south-1.ec2.archive/ubuntu/ jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ap-south-1.ec2.archive/ubuntu/ jammy/multiverse amd64 Packages [217 kB]
Get:9 http://ap-south-1.ec2.archive/ubuntu/ jammy/multiverse Translation-en [109 kB]
Get:10 http://ap-south-1.ec2.archive/ubuntu/ jammy/multiverse amd64 c-n-f Metadata [8372 kB]
Get:11 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/main amd64 Packages [1200 kB]
Get:12 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/main Translation-en [252 kB]
Get:13 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/main amd64 c-n-f Metadata [16.1 kB]
Get:14 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/restricted amd64 Packages [1168 kB]
Get:15 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/restricted Translation-en [190 kB]
Get:16 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/restricted amd64 c-n-f Metadata [520 kB]
Get:17 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/universe amd64 Packages [1003 kB]
Get:18 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/universe Translation-en [500 kB]
Get:19 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:20 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/multiverse amd64 Packages [41.6 kB]
Get:21 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/multiverse Translation-en [9768 kB]
Get:22 http://ap-south-1.ec2.archive/ubuntu/ jammy-updates/multiverse amd64 c-n-f Metadata [472 kB]
Get:23 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/main amd64 Packages [64.2 kB]
Get:24 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/main Translation-en [10.5 kB]
Get:25 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/main amd64 c-n-f Metadata [388 kB]
Get:26 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/restricted amd64 Packages [116 kB]
Get:27 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/restricted Translation-en [500 kB]
Get:28 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/universe Translation-en [16.4 kB]
Get:29 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/universe amd64 c-n-f Metadata [644 kB]
Get:30 http://ap-south-1.ec2.archive/ubuntu/ jammy-backports/multiverse amd64 c-n-f Metadata [116 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [985 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [192 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [11.4 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [104 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [103 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [520 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [799 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [148 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7060 kB]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 kB]
Fetched 20.0 MB in 1s (5428 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
62 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-9-233:~$
```

CAPSTONE PROJECT

```
ubuntu@ip-172-31-9-233: ~
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/java to provide /usr/bin/java (java) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jis to provide /usr/bin/jis (jis) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/keytool to provide /usr/bin/keytool (keytool) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/rmid to provide /usr/bin/rmid (rmid) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/rmiregistry to provide /usr/bin/rmiregistry (rmiregistry) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/pack200 to provide /usr/bin/pack200 (pack200) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/unpack200 to provide /usr/bin/unpack200 (unpack200) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jexec to provide /usr/bin/jexec (jexec) in auto mode
Setting up openjdk-11-jre-amd64 (11.0.20.1+1-Ubuntu1-22.04) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jar to provide /usr/bin/jar (jar) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jarsigner to provide /usr/bin/jarsigner (jarsigner) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/java to provide /usr/bin/javac (JavaC) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javadoc to provide /usr/bin/javadoc (Javadoc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javap to provide /usr/bin/javap (JavaP) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (Jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeprscan to provide /usr/bin/jdeprscan (jdeprscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jlink to provide /usr/bin/jlink (Jlink) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jshell to provide /usr/bin/jshell (jshell) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmc to provide /usr/bin/jmc (jmc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmxhole to provide /usr/bin/jmxhole (jmxhole) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jnetstat to provide /usr/bin/jnetstat (jnetstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up openjdk-11-jdk-amd64 (11.0.20.1+1-Ubuntu1-22.04) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/console to provide /usr/bin/jconsole (jconsole) in auto mode
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-172-31-9-233:~$
```

Inbound rules [Info](#)

Security group rule ID	Type Info	Protocol Info	Port range	Source Info	Description - optional Info
sgr-0a149fda635a210f	SSH	TCP	22	Cus... ▾	<input type="text"/> 0.0.0.0/0 X
-	Custom TCP	TCP	8080	Any... ▾	<input type="text"/> 0.0.0.0/0 X

[Add rule](#)

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```
ubuntu@ip-172-31-9-233: ~
root@ip-172-31-9-233:~# cat /var/lib/jenkins/secrets/initialAdminPassword
f51d0a00ba84bf9ad64274d5385c6d
root@ip-172-31-9-233:~# exit
Logout
ubuntu@ip-172-31-9-233:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 0 newly installed, 0 to remove and 61 not upgraded.
Need to get 69.7 MB of additional archives.
After this operation, 267 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.7-0ubuntu1-22.04.1 [4249 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.2-0ubuntu1-22.04.1 [36.0 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 dnsmasq-base amd64 2.86-1ubuntu0.3 [354 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.86-1ubuntu0.3 [354 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker-runc amd64 24.0.5-0ubuntu1-22.04.1 [28.9 MB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 69.7 MB in 1s (54.8 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database... 67194 files and directories currently installed.)
Preparing to unpack .../pigz_2.6-1_amd64.deb ...
Unpacking pigz (2.6-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
Preparing to unpack .../runc_1.1.7-0ubuntu1-22.04.1_amd64.deb ...
Unpacking runc (1.1.7-0ubuntu1-22.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.2-0ubuntu1-22.04.1_amd64.deb ...
Unpacking containerd (1.7.2-0ubuntu1-22.04.1) ...
[##].....
```

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

Continue

CAPSTONE PROJECT

← → ⌛ Not secure | 35.154.205.155:8080/job/my%20capstone-project/configure

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Dashboard > my capstone-project > Configuration

Configure

General

Description

my project

Plain text [Preview](#)

Discard old builds ?

Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

GitHub project

Project url ?

`https://github.com/bharagy/capstone-project.git`

[Save](#) [Apply](#)

← → ⌛ Not secure | 35.154.205.155:8080/job/my%20capstone-project/configure

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Dashboard > my capstone-project > Configuration

Configure

General

Advanced Project Options

Pipeline

Repository browser ?

(Auto)

Additional Behaviours

Add ▾

Script Path ?

jenkinsfile

Lightweight checkout ?

Pipeline Syntax

[Save](#) [Apply](#)

CAPSTONE PROJECT

← → C Not secure | 35.154.205.155:8080/manage/credentials/store/system/domain/_/newCredentials

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Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Username ?
dhividhivya

Treat username as secret ?

Password ?
.....

ID ?
dockerhub

Description ?
dockerhub

Create

This screenshot shows the Jenkins Global credentials configuration interface. A new credential is being created for the Docker Hub provider. The fields filled are: Username (dhividhivya), Password (represented by a series of dots), ID (dockerhub), and Description (dockerhub). There is also a checkbox for 'Treat username as secret' which is unchecked. A 'Create' button is visible at the bottom.

CAPSTONE PROJECT

The screenshot shows the Jenkins Global credentials (unrestricted) page. It lists two credentials:

ID	Name	Kind	Description
git	git	Secret text	git
dockerhub	dhividhivya/******** (dockerhub)	Username with password	dockerhub

At the bottom, there are icons for S, M, and L.

The screenshot shows the Jenkins System configuration page under Environment variables. A new variable named "docker credentials" is added with the value "dockerhub".

The screenshot shows the Jenkins Pipeline configuration page for the project "my capstone-project". Under the Pipeline tab, the SCM section is configured as "Pipeline script from SCM" with "Git" selected. The Repository URL is set to "https://github.com/bharagy/capstone-project.git" and the Credentials are set to "dhividhivya/******** (dockerhub)".

CAPSTONE PROJECT

```
ubuntu@ip-172-31-44-0:~$ Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.7-0ubuntu1-22.04.1_amd64.deb ...
Unpacking runc (1.1.7-0ubuntu1-22.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.2-0ubuntu1-22.04.1_amd64.deb ...
Unpacking containerd (1.7.2-0ubuntu1-22.04.1)
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2021011101_all.deb ...
Unpacking dns-root-data (2021011101) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.86-1.1ubuntu0.3_amd64.deb ...
Unpacking dnsmasq-base (2.86-1.1ubuntu0.3) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../6-docker.io_24.0.5-0ubuntu1-22.04.1_amd64.deb ...
Unpacking docker.io (24.0.5-0ubuntu1-22.04.1)
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../7-ubuntu-fan_0.12.16_all.deb ...
Unpacking ubuntu-fan (0.12.16) ...
Setting up dnsmasq-base (2.86-1.1ubuntu0.3) ...
Setting up runc (1.1.7-0ubuntu1-22.04.1) ...
Setting up dns-root-data (2021011101) ...
Setting up containerd (1.7.2-0ubuntu1-22.04.1) ...
Setting up dnsmasq (2.86-1.1ubuntu0.3) ...
Setting up docker.io (24.0.5-0ubuntu1-22.04.1) ...
Adding group 'docker' (GID 123) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service -> /lib/systemd/system/containerd.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service -> /lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (24.0.5-0ubuntu1-22.04.1) ...
Processing triggers for libbus (1.12.20-2ubuntu4.1) ...
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-172-31-44-0:~$ sudo usermod -aG docker jenkins
```

← → ⌂ Not secure | 35.154.205.155:8080/job/my%20capstone-project/

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Dashboard > my capstone-project >

Configure Delete Pipeline Full Stage View GitHub Rename Pipeline Syntax GitHub Hook Log

Disable Project

Stage View

Average stage times:
(Average full run time: ~4min 11s)

Declarative: Checkout SCM	Build and Deploy
1s	4min 0s

Nov 27 13:42 No Changes

1s 4min 0s

Build History

trend Filter builds... /

1 Nov 27, 2023, 8:12 AM Atom feed for all Atom feed for failures

Permalinks

REST API Jenkins 2.126.1

CAPSTONE PROJECT

Not secure | 35.154.205.155:8080/job/my%20capstone-project/1/console

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Dashboard > my capstone-project > #1

```
0d0e9c83b6f7: Layer already exists
c2d3ab485d1b: Layer already exists
66283570f41b: Layer already exists
f5525891d9e9: Layer already exists
92770f546e06: Layer already exists
8ae47ae0cc8f: Layer already exists
e746357299dc: Pushed
latest: digest: sha256:d810f9530e9f96751d23508a4b091466194abd6cee29c0c8cb70328a88fc7347 size: 1988
[Pipeline]
[Pipeline] // script
[Pipeline] 
[Pipeline] // stage
[Pipeline] 
[Pipeline] // withEnv
[Pipeline] 
[Pipeline] // withEnv
[Pipeline] 
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API Jenkins 2.426.1

Not secure | 35.154.205.155:8080/job/my%20capstone-project/

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Dashboard > my capstone-project >

[Configure](#) [Delete Pipeline](#) [Full Stage View](#) [Disable Project](#)

Stage View

Average stage times:
(Average full run time: ~4min 11s)

Declarative: Checkout SCM	Build and Deploy
1s	4min 0s

#1 Nov 27 13:42 No Changes 1s 4min 0s

Build History

trend ▾

Filter builds... /

#1 Nov 27, 2023, 8:12 AM

Atom feed for all Atom feed for failures

Permalinks

- Last build (#1), 31 min ago
- Last stable build (#1), 31 min ago
- Last successful build (#1), 31 min ago
- Last completed build (#1), 31 min ago

REST API Jenkins 2.426.1

Not secure | 35.154.205.155:8080/job/mycapstoneprojectdev/configure

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Dashboard > mycapstoneprojectdev > Configuration

Configure

Do not allow the pipeline to resume if the controller restarts

GitHub project

Project url ?

Pipeline speed/durability override ?

Preserve stashes from completed builds ?

This project is parameterized ?

Throttle builds ?

Build Triggers

CAPSTONE PROJECT

Not secure | 35.154.205.155:8080/job/mycapstoneprojectdev/configure

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Dashboard > mycapstoneprojectdev > Configuration

Configure

General Advanced Project Options Pipeline

Definition: Pipeline script from SCM

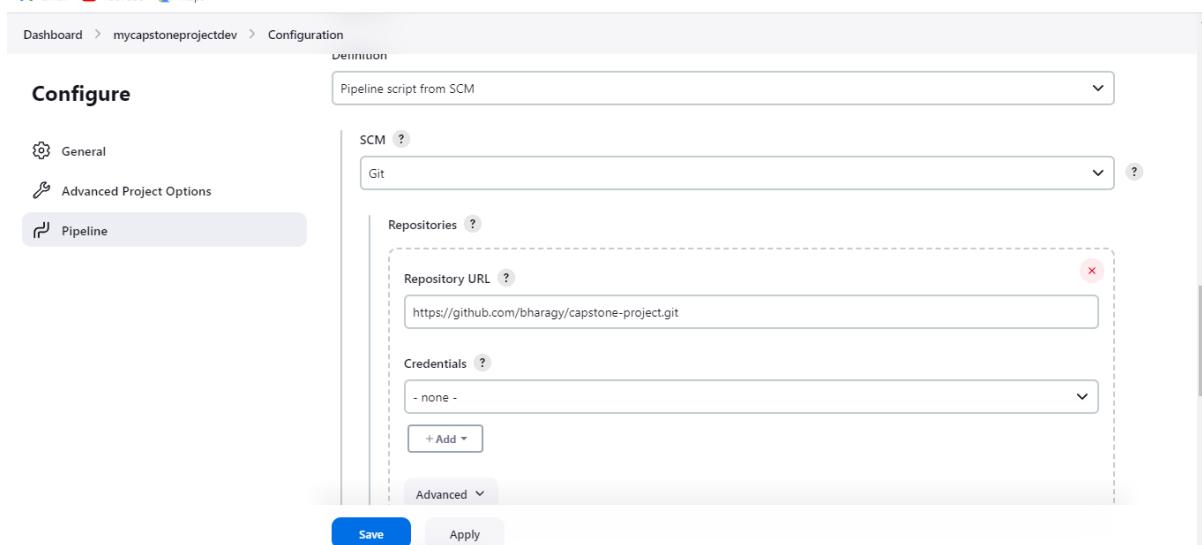
SCM: Git

Repositories:

- Repository URL: https://github.com/bharagy/capstone-project.git
- Credentials: - none -
- + Add

Advanced

Save Apply



Not secure | 35.154.205.155:8080/job/mycapstoneprojectdev/configure

Gmail YouTube Maps

Dashboard > mycapstoneprojectdev > Configuration

Configure

General Advanced Project Options Pipeline

Branch Specifier (blank for 'any'): */dev

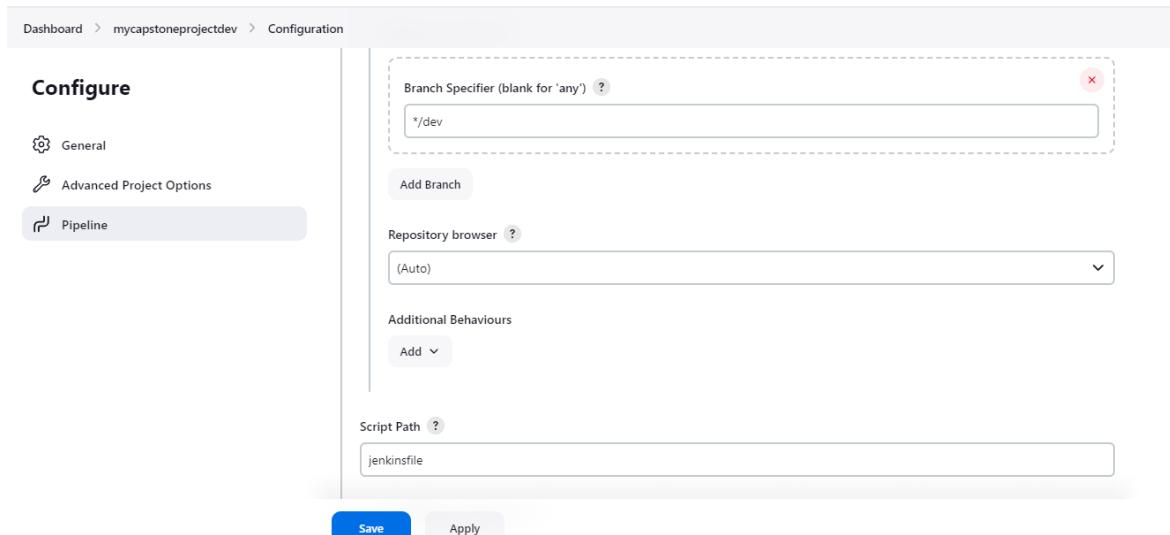
Add Branch

Repository browser: (Auto)

Additional Behaviours: Add

Script Path: jenkinsfile

Save Apply



Not secure | 35.154.205.155:8080/job/mycapstoneprojectdev/

Gmail YouTube Maps

Dashboard > mycapstoneprojectdev >

Full Stage View GitHub Rename Pipeline Syntax GitHub Hook Log

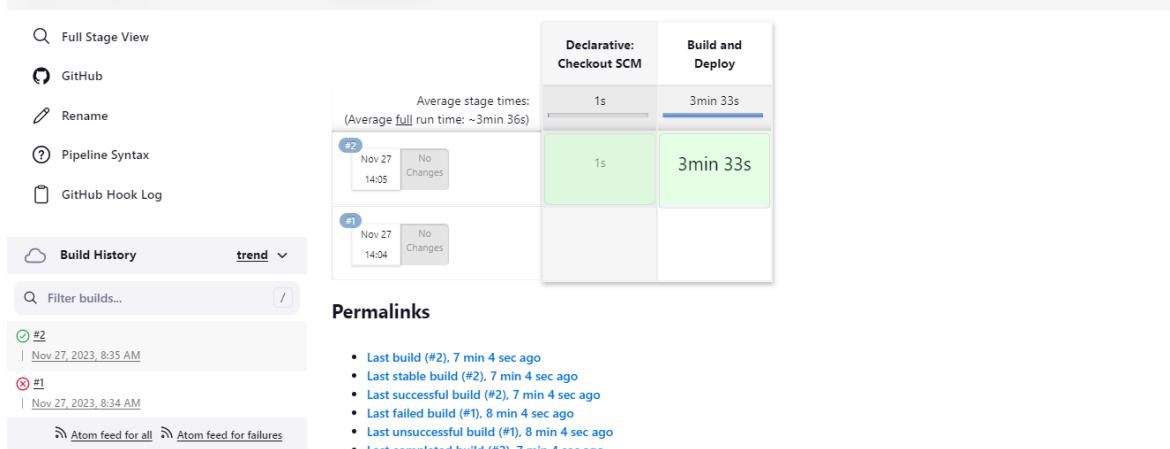
Build History trend Filter builds... #2 Nov 27, 2023, 8:35 AM #1 Nov 27, 2023, 8:34 AM Atom feed for all Atom feed for failures

Average stage times: (Average full run time: ~3min 36s)

Declarative: Checkout SCM	Build and Deploy
1s	3min 33s
#2 Nov 27 14:05 No Changes	1s 3min 33s
#1 Nov 27 14:04 No Changes	

Permalinks

- Last build (#2), 7 min 4 sec ago
- Last stable build (#2), 7 min 4 sec ago
- Last successful build (#2), 7 min 4 sec ago
- Last failed build (#1), 8 min 4 sec ago
- Last unsuccessful build (#1), 8 min 4 sec ago
- Last completed build (#2), 7 min 4 sec ago



CAPSTONE PROJECT

```
c2d3ab485d1b: Layer already exists  
0d0e9c83b6f7: Layer already exists  
66203570f41b: Layer already exists  
f5525891d9e9: Layer already exists  
8ae474e0cc8f: Layer already exists  
92770f546e06: Layer already exists  
e746357299dc: Mounted from dhividhivya/prod  
latest: digest: sha256:d810f9530e9f96751d23508a4b091466194abd6cee29c0c8cb70328a88fc7347 size: 1988  
[Pipeline]  
[Pipeline] // script  
[Pipeline]  
[Pipeline] // stage  
[Pipeline]  
[Pipeline] // withEnv  
[Pipeline]  
[Pipeline] // withEnv  
[Pipeline]  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS
```

Dashboard >

+ New Item Add description

People All +

Build History Project Relationship Check File Fingerprint Manage Jenkins

S	W	Name	Last Success	Last Failure	Last Duration
Green	Sun	my capstone-project	30 min #1	N/A	4 min 11 sec
Green	Cloud	mycapstoneprojectdev	6 min 29 sec #2	7 min 29 sec #1	3 min 36 sec

Icon: S M L Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

Build Queue No builds in the queue.

Build Executor Status No builds in the queue.

DOCKERHUB:

Add a short description for this repository Update

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

dhividhivya / dev

Description

This repository does not have a description

Last pushed: a minute ago

Docker commands

To push a new tag to this repository:

```
docker push dhividhivya/dev:tagname
```

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	--	3 minutes ago

See all Go to Advanced Image Management

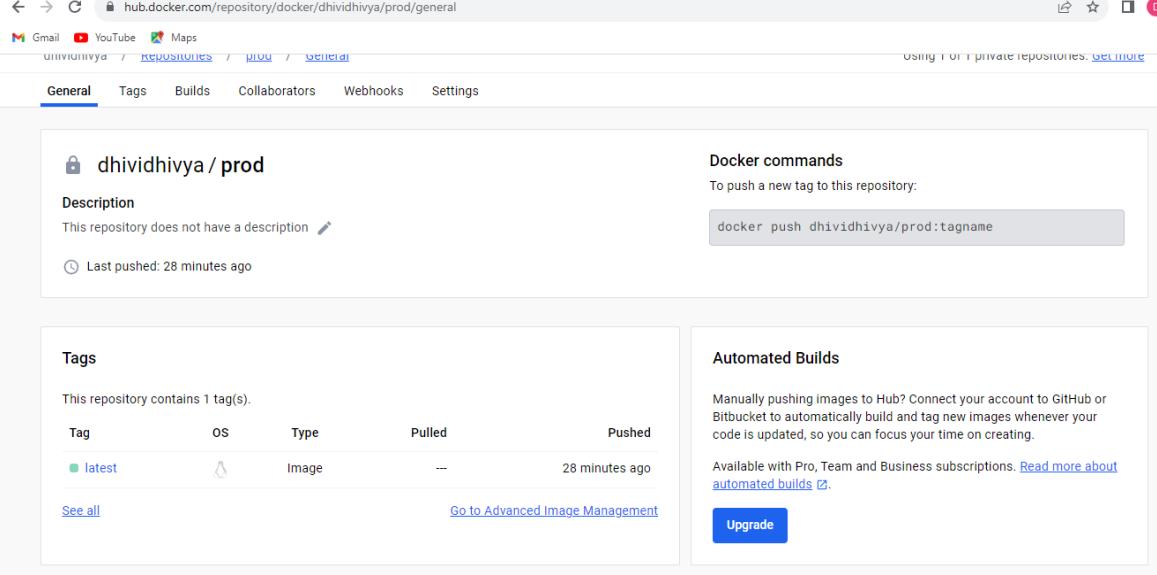
Automated Builds

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](#).

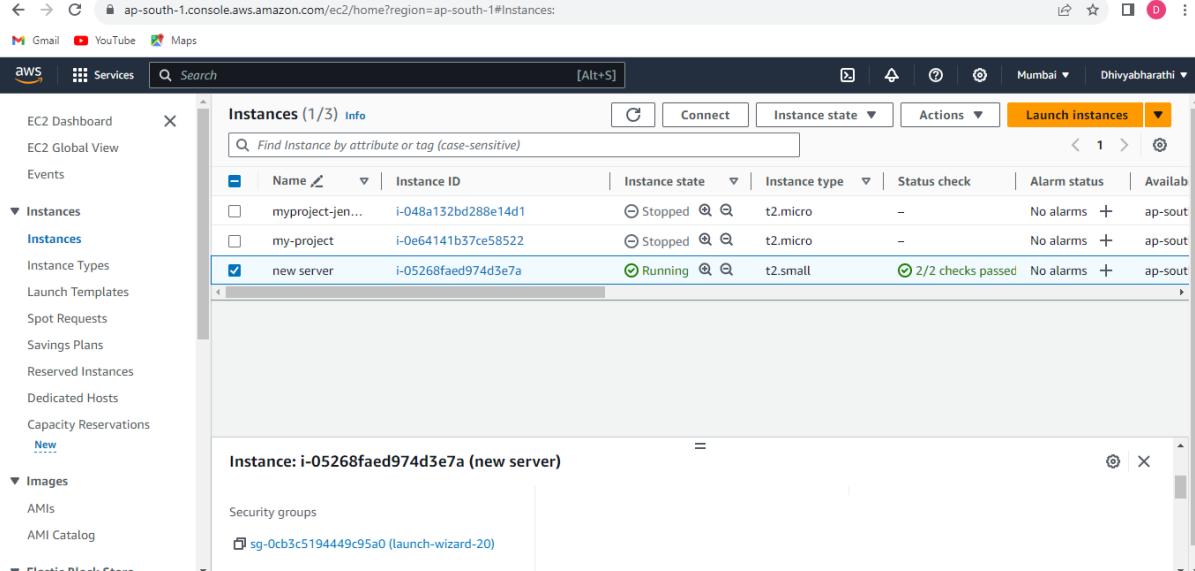
Upgrade

CAPSTONE PROJECT



The screenshot shows the Docker Hub repository page for 'dhividhivya/prod'. The 'General' tab is selected. The repository name is 'dhividhivya / prod'. A description states: 'This repository does not have a description'. It was last pushed 28 minutes ago. The 'Docker commands' section contains the command: 'docker push dhividhivya/prod:tagname'. The 'Tags' section shows one tag: 'latest' (Image, Pulled: --, Pushed: 28 minutes ago). The 'Automated Builds' section indicates that manually pushing images to Hub? is available with Pro, Team and Business subscriptions.

EC2 CONSOLE & CONFIGURE SG:



The screenshot shows the AWS EC2 Instances page. The left sidebar shows navigation options like EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main area displays a table of instances with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability. Three instances are listed: 'myproject-jen...' (Stopped, t2.micro), 'my-project' (Stopped, t2.micro), and 'new server' (Running, t2.small). The 'new server' instance is selected. A modal window titled 'Instance: i-05268faed974d3e7a (new server)' shows the security group assigned: 'sg-0cb3c5194449c95a0 (launch-wizard-20)'.

CAPSTONE PROJECT

← → C ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-048a132bd288e14d1&osUser=ubuntu®ion=ap-south-1&sshPort... ☆ ⓘ

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```
ubuntu@ip-172-31-9-233:~$ docker pull dhividhivya/dev
Using default tag: latest
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/
ages/create?fromImage=dhividhivya%2Fdev&tag=latest": dial unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-9-233:~$ sudo docker pull dhividhivya/dev
Using default tag: latest
latest: Pulling from dhividhivya/dev
1f7ce2fa6ab: Pull complete
9b16c94bb686: Pull complete
9a59d19f9c5b: Pull complete
9ea27b0f74f71: Pull complete
cededf33e2524: Pull complete
84b1ff10387b: Pull complete
517357831967: Pull complete
ff4b09f132d4: Pull complete
Digest: sha256:4810f9530a9f96751d23508a4b091466194abd6cee29c0c8cb70328a88fc7347
Status: Downloaded newer image for dhividhivya/dev:latest
docker.io/dhividhivya/dev:latest
ubuntu@ip-172-31-9-233:~$ sudo docker run dhividhivya/dev
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
```

i-048a132bd288e14d1 (my-capstone-server)

Public IPs: 3.110.49.144 Private IPs: 172.31.9.233

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Zen Class DevOps Application Instances | EC2 ap-s... EC2 Instance Connect dhividhivya/dev - Do... Meet - czu-nedg ⓘ

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```
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2023/12/01 06:13:22 [notice] 1#1: using the "epoll" event method
2023/12/01 06:13:22 [notice] 1#1: nginx/1.25.3
2023/12/01 06:13:22 [notice] 1#1: built by gcc 6.2.0-1016-aws (Debian 6.2.0-14)
2023/12/01 06:13:22 [notice] 1#1: OS: Linux 6.2.0-1016-aws
2023/12/01 06:13:22 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2023/12/01 06:13:22 [notice] 1#1: start worker processes
2023/12/01 06:13:22 [notice] 1#1: start worker process 29
^C2023/12/01 06:21:01 [notice] 1#1: signal 2 (SIGINT) received, exiting
2023/12/01 06:21:01 [notice] 29#29: exiting
2023/12/01 06:21:01 [notice] 29#29: exit
2023/12/01 06:21:01 [notice] 1#1: signal 17 (SIGCHLD) received from 29
2023/12/01 06:21:01 [notice] 1#1: worker process 29 exited with code 0
2023/12/01 06:21:01 [notice] 1#1: exit
ubuntu@ip-172-31-9-233:~$ sudo docker run -d -p 80:80 dhividhivya/dev
6ffe088b480a296bb0041c3afecc8e21a5674b917de5281f3a4aa913
ubuntu@ip-172-31-9-233:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
6ffe088b480a dhividhivya/dev "/docker-entrypoint..." 13 seconds ago Up 12 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp angry_shockley
ubuntu@ip-172-31-9-233:~$
```

i-048a132bd288e14d1 (my-capstone-server)

Public IPs: 3.110.49.144 Private IPs: 172.31.9.233

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0568f9e18f5f41bf5 ⓘ

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Edit inbound rules ⓘ

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0a149fd635a2130f	SSH	TCP	22	My IP 117.241.91.217/32	X
sgr-09048407e62b41b2c	Custom TCP	TCP	8080	Cus... 0.0.0.0/0	X

Add rule

⚠️ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. It is recommended to allow access from known IP addresses only. X

CAPSTONE PROJECT

The screenshot shows the AWS CloudWatch Metrics interface for managing inbound rules. It lists three existing rules and a button to add a new rule.

Security group rule ID	Type	Protocol	Port range	Source	Description	Action
sgr-0a149fda635a2130f	SSH	TCP	22	Cus... 117.241.91.217/32		Delete
sgr-09048407e62b41b2c	Custom TCP	TCP	8080	Cus... 0.0.0.0/0		Delete
sgr-0d10b0fe044ebac7e	HTTP	TCP	80	Cus... 0.0.0.0/0		Delete

Add rule

Warning: Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

DEPLOYED SITE:

The screenshot shows a browser window displaying a blank white page. The address bar shows the URL 3.110.49.144. The status bar indicates "Not secure".

MONITORING HEALTH STATUS CHECK:

The screenshot shows the AWS CloudWatch Metrics interface for monitoring the health status of a server named "my-capstone-server". The table lists various metrics and their current status.

#	Name	Status
1	StatusCheckFailed	No alarms
2	StatusCheckFailed_Instance	No alarms
3	CPUCreditBalance	No alarms
4	CPUCreditUsage	No alarms
5	NetworkOut	No alarms
6	CPUUtilization	No alarms

Add math **Add query**

CAPSTONE PROJECT

← → C ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#metricsV2?graph=~(view~'timeSeries~stacked~false~metrics~(~('AWS*2fEC2~'CPUUtiliz... 🔍 ⭐ ⓘ 0

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CloudWatch Metrics

Untitled graph

Add to dashboard

Select a dashboard
Select an existing dashboard or create a new one.

Q capstone-project-cpu X

Create new

Widget type
Select a widget type to add to the dashboard.

Gauge

Customize widget title
Widgets get an automatic title. You can optionally customize the title here.

CPUUtilization, NetworkIn, NetworkOut, StatusCheckFail

Persist widget time range - new ⓘ

□ Persist this time range for this widget in the dashboard
(Last 3 hours)

Preview
This is how your chart will appear in your dashboard.

CPUUtilization, NetworkIn, NetworkOut, StatusCheckFail

1.28 %

CPUUtilization

Cancel Add to dashboard

CloudShell Feedback

← → C ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#alarmsV2:create?-(Page~'MetricSelection~AlarmType~'MetricAlarm~AlarmData~(Namesp... 🔍 ⭐ ⓘ 0

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Conditions

Threshold type

Static Use a value as a threshold

Anomaly detection Use a band as a threshold

Whenever CPUUtilization is... Define the alarm condition.

Greater > threshold

Greater/Equal >= threshold

Lower/Equal <= threshold

Lower < threshold

than... Define the threshold value.

60

Must be a number

Additional configuration

Cancel Next

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CAPSTONE PROJECT

Screenshot of the AWS CloudWatch Metrics Dashboard titled "capstone-project". The dashboard displays three circular metrics:

- CPUUtilization:** 0.4 % (value < min)
- NetworkOut:** 548 B (value > max)
- NetworkIn:** 699 B (value > max)

The CloudWatch Metrics section shows one alarm named "ec2-warning" which is currently OK. The alarm condition is "CPUUtilization > 60 for 1 datapoints within 5 minutes".

CAPSTONE PROJECT

The screenshot shows the AWS SNS Subscriptions page. The left sidebar has 'Amazon SNS' selected under 'Subscriptions'. The main area shows a table of subscriptions:

ID	Endpoint	Status	Protocol	Topic
5d8f6d9b-ac5c-45c...	ddivineelakandan9...	Confirmed	EMAIL	ec2-warning

A blue banner at the top right says 'New Feature' with the message: 'Amazon SNS now supports in-place message archiving and replay for FIFO topics. [Learn more](#)'.

The screenshot shows the AWS EC2 Instances page. The left sidebar has 'Instances' selected under 'Instances'. The main area shows a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Z.
my-capstone-s...	i-048a132bd288e14d1	Stopped	t2.micro	-	1/1 h...	ap-south-1b
my-project	i-0e64141b37ce58522	Stopped	t2.micro	-	No alarms	ap-south-1a
new server	i-05268faed974d3e7a	Stopped	t2.small	-	No alarms	ap-south-1a

A modal window titled 'Select an instance' is open at the bottom.