GitHub repo URL:

https://github.com/Jayaprabakara/My_Capstone.git

Deployed site URL:
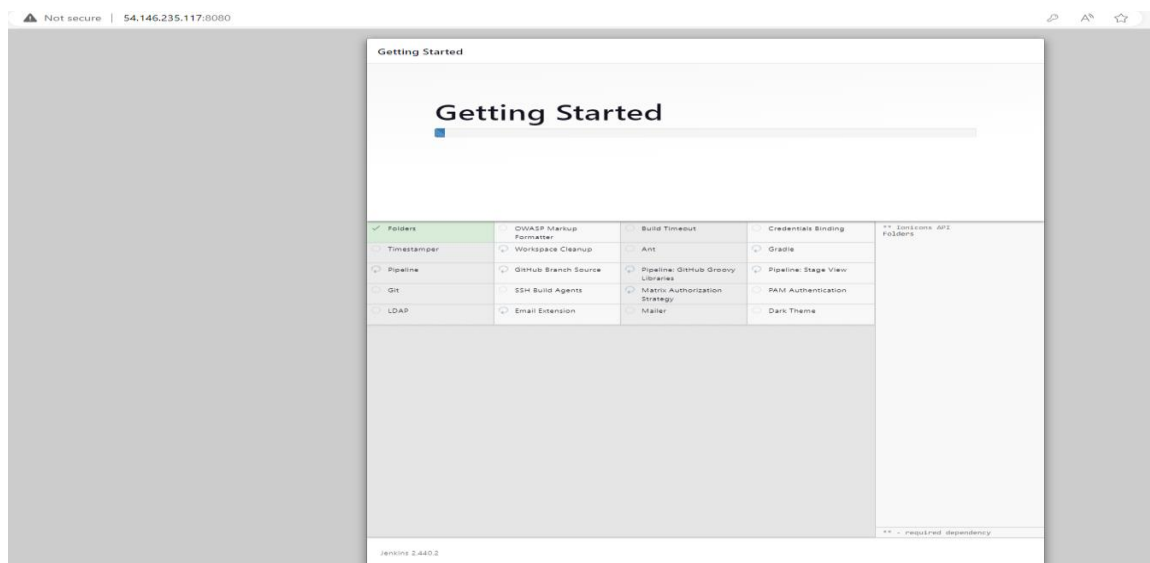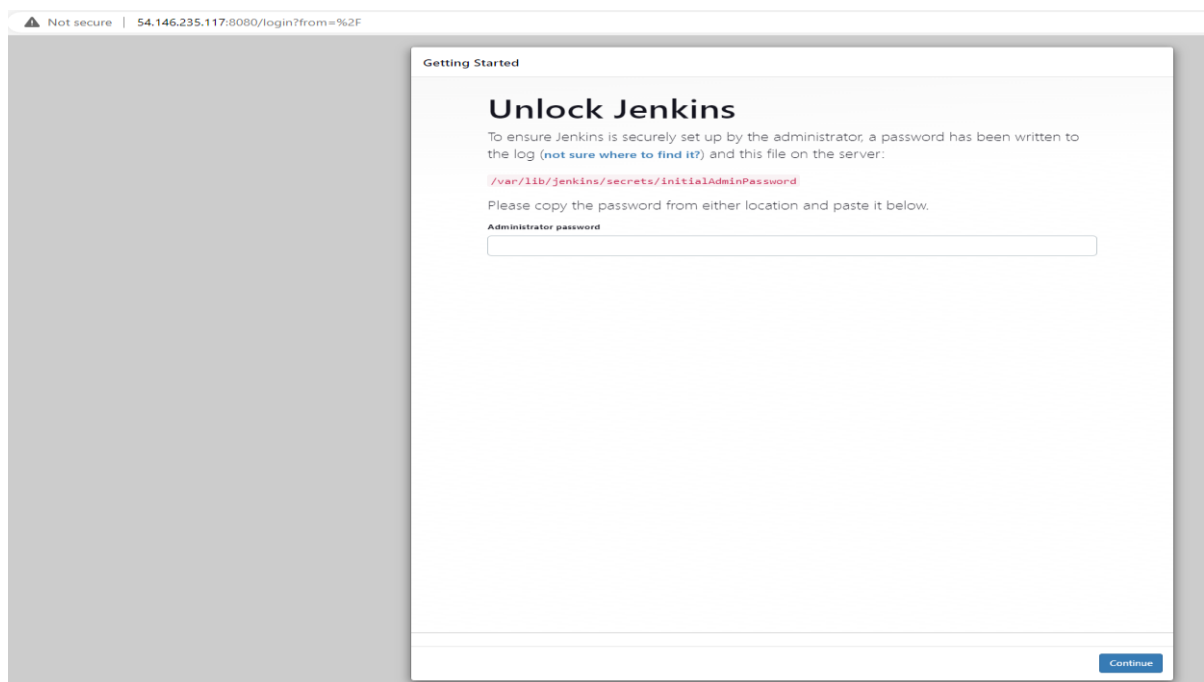
http://54.146.235.117/80

Docker images name:

docker pull jayaprabakara/prod:latest

docker pull jayaprabakara/ dev:latest

Jenkins

login page :

GitHub repo URL:

https://github.com/Jayaprabakara/My_Capstone.git

configuration settings & execute step commands:

Configure

- ⚙ General
- ⑃ Source Code Management
- ⏱ Build Triggers
- ⊕ Build Environment
- ☰ Build Steps
- ⊕ Post-build Actions

+ Add ▾

Add ▾

☐ Add timestamps to the Console Output
☐ Inspect build log for published build scans
☐ Terminate a build if it's stuck
☐ With Ant ?

Build Steps

☰ Execute shell ?   ✕

Command
See the list of available environment variables

```
chmod +x build.sh
chmod +x deploy.sh
./build.sh
./deploy.sh
```

Advanced ▾

Add build step ▾

Post-build Actions

Add post-build action ▾

[Save] [Apply]

AWS (EC2-Console, SG configs):

⊘ Inbound security group rules successfully modified on security group (sg-0f05b7f77380a71e1 | launch-wizard-1)
▶ Details

EC2 > Security Groups > sg-0f05b7f77380a71e1 - launch-wizard-1

sg-0f05b7f77380a71e1 - launch-wizard-1

Details

Security group name	Security group ID	Description	VPC ID
⧉ launch-wizard-1	⧉ sg-0f05b7f77380a71e1	⧉ launch-wizard-1 created 2024-04-06T16:45:04.699Z	⧉ vpc-024G...
Owner	Inbound rules count	Outbound rules count	
⧉ 992382583979	7 Permission entries	1 Permission entry	

Inbound rules | Outbound rules | Tags

Inbound rules (7)

🔍 Search

☐	Name ▽	Security group rule... ▽	IP version ▽	Type ▽	Protocol ▽	Port range ▽	Source ▽	Description ▽
☐	–	sgr-0043e8b17adc6aa3b	IPv4	Custom TCP	TCP	8080	0.0.0.0/0	–
☐	–	sgr-09b6ddc7037fbb5d5	IPv4	Custom TCP	TCP	9100	0.0.0.0/0	–
☐	–	sgr-09b24ce687c3e54e2	IPv4	Custom TCP	TCP	9090	0.0.0.0/0	–
☐	–	sgr-0b49d61e711508...	IPv4	HTTP	TCP	80	0.0.0.0/0	–
☐	–	sgr-02aedf67d5b1ef905	IPv4	HTTPS	TCP	443	0.0.0.0/0	–
☐	–	sgr-08fd6261591e51ec0	IPv4	SSH	TCP	22	0.0.0.0/0	–
☐	–	sgr-021a91b31c0b8fb60	IPv4	Custom TCP	TCP	3000	0.0.0.0/0	–

Instances (1/2) Info

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

Connect | Instance state ▼ | Actions ▼ | **Launch instances** ▼

< 1 > ⚙

	Name ✎	▽	Instance ID	Instance state	▽	Instance type	▽	Status check	Alarm status	Availability Zone	▽	Public IPv4 DNS	▽	Public IPv4 ...	▽	Elastic IP	IPv6 IPs	▽	Monitoring	▽	Security group nam
☑	PROMETHEUS		i-001b0307f7f23aefb	⊘ Running ⊕ ⊖		t2.micro		⊘ 2/2 checks passed	View alarms +	us-east-1c		ec2-54-90-173-81.com...		54.90.173.81		–	–		disabled		launch-wizard-1
☐	Capstone_dev		i-0f68fa59242354852	⊘ Running ⊕ ⊖		t2.micro		⊘ 2/2 checks passed	View alarms +	us-east-1c		ec2-54-146-235-117.co...		54.146.235.117		–	–		disabled		launch-wizard-1

=

Instance: i-001b0307f7f23aefb (PROMETHEUS)

⚙ ✕

Details | Status and alarms New | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

Instance ID ⧉ i-001b0307f7f23aefb (PROMETHEUS)	**Public IPv4 address** ⧉ 54.90.173.81 |open address ⬈	**Private IPv4 addresses** ⧉ 172.31.24.210
IPv6 address –	**Instance state** ⊘ Running	**Public IPv4 DNS** ⧉ ec2-54-90-173-81.compute-1.amazonaws.com |open address ⬈
Hostname type IP name: ip-172-31-24-210.ec2.internal	**Private IP DNS name (IPv4 only)** ⧉ ip-172-31-24-210.ec2.internal	
Answer private resource DNS name IPv4 (A)	**Instance type** t2.micro	**Elastic IP addresses** –
Auto-assigned IP address ⧉ 54.90.173.81 [Public IP]	**VPC ID** ⧉ vpc-0246813f580fb8bef ⬈	**AWS Compute Optimizer finding** ⓘ Opt-in to AWS Compute Optimizer for recommendations. | Learn more ⬈
IAM Role –	**Subnet ID** ⧉ subnet-0d258c8f6558cd9e2 ⬈	**Auto Scaling Group name** –
IMDSv2 Required		

▼ Instance details Info

Platform ⧉ Ubuntu (inferred)	**AMI ID** ⧉ ami-080e1f13689e07408	**Monitoring** disabled
Platform details ⧉ Linux/UNIX	**AMI name** ⧉ ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20240301	**Termination protection** Disabled
Stop protection Disabled	**Launch time** ⧉ Mon Apr 08 2024 12:09:22 GMT+0530 (India Standard Time) (about 4 hours)	**AMI location** ⧉ amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20240301
Instance auto-recovery Default	**Lifecycle** normal	**Stop-hibernate behavior** Disabled
AMI Launch index	**Key pair assigned at launch**	**State transition reason**

Instances (1/2) Info

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

Connect | Instance state ▼ | Actions ▼ | **Launch instances**

< 1 >

	Name ✎	▽	Instance ID	Instance state	▽	Instance type	▽	Status check	Alarm status	Availability Zone	▽	Public IPv4 DNS	▽	Public IPv4 ...	▽	Elastic IP	IPv6 IPs	▽	Monitoring	▽	Security gro
☑	Capstone_... ✎		i-0f68fa59242354852	⊘ Running ⊕ ⊖		t2.micro		⊘ 2/2 checks passed	View alarms +	us-east-1c		ec2-54-146-235-117.co...		54.146.235.117		–	–		disabled		launch-wiza
☐	PROMETHEUS		i-001b0307f7f23aefb	⊘ Running ⊕ ⊖		t2.micro		⊘ 2/2 checks passed	View alarms +	us-east-1c		ec2-54-90-173-81.com...		54.90.173.81		–	–		disabled		launch-wiza

=

Instance: i-0f68fa59242354852 (Capstone_dev)

Details | Status and alarms New | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

Instance ID ⧉ i-0f68fa59242354852 (Capstone_dev)	**Public IPv4 address** ⧉ 54.146.235.117 |open address ⬈	**Private IPv4 addresses** ⧉ 172.31.19.2
IPv6 address –	**Instance state** ⊘ Running	**Public IPv4 DNS** ⧉ ec2-54-146-235-117.compute-1.amazonaws.com |open address ⬈
Hostname type IP name: ip-172-31-19-2.ec2.internal	**Private IP DNS name (IPv4 only)** ⧉ ip-172-31-19-2.ec2.internal	
Answer private resource DNS name IPv4 (A)	**Instance type** t2.micro	**Elastic IP addresses** –
Auto-assigned IP address ⧉ 54.146.235.117 [Public IP]	**VPC ID** ⧉ vpc-0246813f580fb8bef ⬈	**AWS Compute Optimizer finding** ⓘ Opt-in to AWS Compute Optimizer for recommendations. | Learn more ⬈
IAM Role –	**Subnet ID** ⧉ subnet-0d258c8f6558cd9e2 ⬈	**Auto Scaling Group name** –
IMDSv2 Required		

Docker hub repo with image tags

jayaprabakara/prod:latest

MANIFEST DIGEST sha256:0185e7755bfce5b0f2aa1077e01d41e032197ce4050b6bf24187c5c3248b0a32

Delete Tag

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	17.83 MB	4 hours ago by jayaprabakara	Image	sha256:0185e775...

Image Layers   Vulnerabilities

IMAGE LAYERS ⓘ

#	Layer	Size
1	ADD file ... in /	3.24 MB
2	CMD ["/bin/sh"]	0 B
3	LABEL maintainer=NGINX Docker Maintainers <docker-m...	0 B
4	ENV NGINX_VERSION=1.25.4	0 B
5	ENV PKG_RELEASE=1	0 B
6	RUN /bin/sh -c set -x	1.81 MB
7	COPY docker-entrypoint.sh / # buildkit	629 B
8	COPY 10-listen-on-ipv6-by-default.sh /docker-entr...	957 B
9	COPY 15-local-resolvers.envsh /docker-entrypoint...	392 B
10	COPY 20-envsubst-on-templates.sh /docker-entryp...	1.18 KB
11	COPY 30-tune-worker-processes.sh /docker-entryp...	1.37 KB
12	ENTRYPOINT ["/docker-entrypoint.sh"]	0 B

Command

ADD file:8729f9c0258836b640e9e789c7ab029cf4547e0596557d54dd4a4d7d8e4a785f in /

jayaprabakara/dev:latest

MANIFEST DIGEST sha256:0185e7755bfce5b0f2aa1077e01d41e032197ce4050b6bf24187c5c3248b0a32

Delete Tag

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	17.83 MB	5 hours ago by jayaprabakara	Image	sha256:0185e775...

Image Layers   Vulnerabilities

IMAGE LAYERS ⓘ

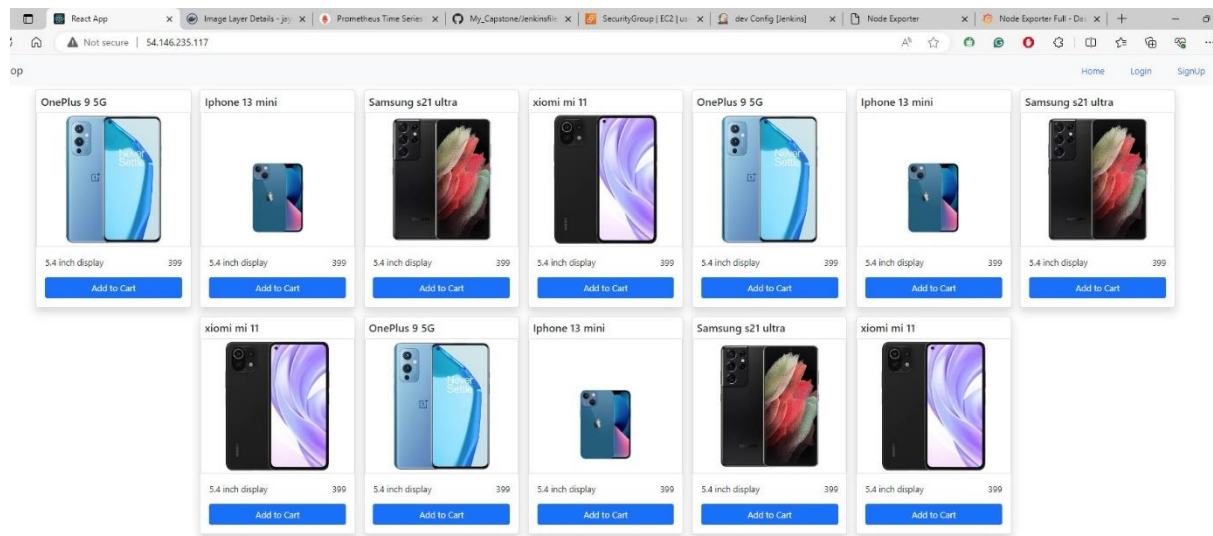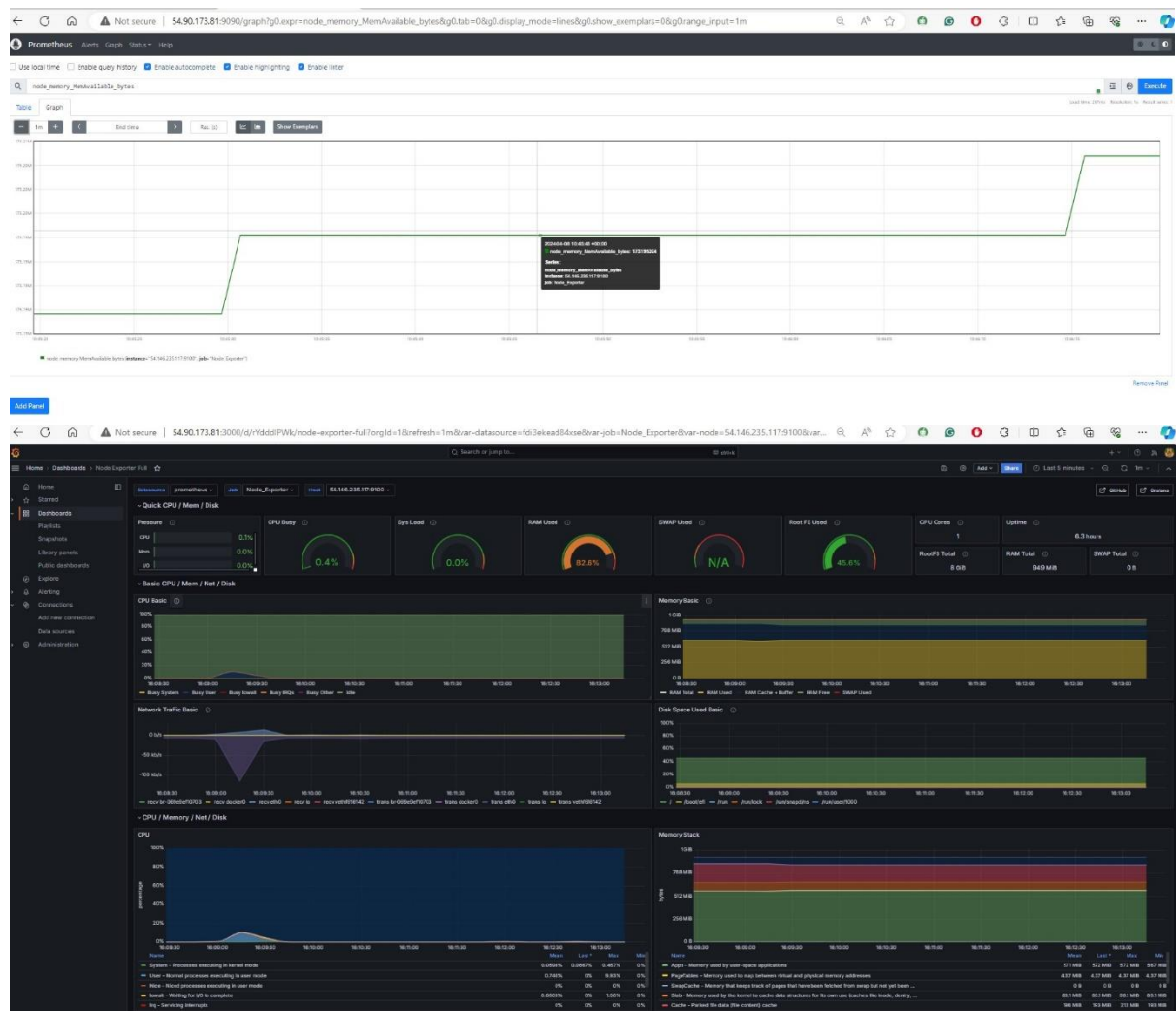| #	Layer	Size
1	ADD file ... in /	3.24 MB
2	CMD ["/bin/sh"]	0 B
3	LABEL maintainer=NGINX Docker Maintainers <docker-m...	0 B
4	ENV NGINX_VERSION=1.25.4	0 B
5	ENV PKG_RELEASE=1	0 B
6	RUN /bin/sh -c set -x	1.81 MB
7	COPY docker-entrypoint.sh / # buildkit	629 B
8	COPY 10-listen-on-ipv6-by-default.sh /docker-entr...	957 B
9	COPY 15-local-resolvers.envsh /docker-entrypoint...	392 B
10	COPY 20-envsubst-on-templates.sh /docker-entryp...	1.18 KB
11	COPY 30-tune-worker-processes.sh /docker-entryp...	1.37 KB

Command

ADD file:8729f9c0258836b640e9e789c7ab029cf4547e0596557d54dd4a4d7d8e4a785f in /

Deployed site page

Monitoring health check status:

Jenkins Console output, when GIT push to dev branch:

Jenkins

Search (CTRL+K)

Dashboard > dev > #2 > Console Output

- Status
- </> Changes
- Console Output
  - View as plain text
- Edit Build Information
- Delete build '#2'
- Polling Log
- Git Build Data
- ← Previous Build
- → Next Build

✓ **Console Output**

```
Started by GitHub push by Jayaprabakara
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/dev
The recommended git tool is: NONE
No credentials specified
 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/dev/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/Jayaprabakara/My_Capstone.git # timeout=10
Fetching upstream changes from https://github.com/Jayaprabakara/My_Capstone.git
 > git --version # timeout=10
 > git --version # 'git version 2.34.1'
 > git fetch --tags --force --progress -- https://github.com/Jayaprabakara/My_Capstone.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/dev
Seen branch in repository origin/master
Seen 2 remote branches
 > git show-ref --tags -d # timeout=10
Checking out Revision 8ed6dbdfd837c4addeeffa2b1f086829654117fe (origin/dev)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 8ed6dbdfd837c4addeeffa2b1f086829654117fe # timeout=10
Commit message: "uploading react code"
 > git rev-list --no-walk cdb384826390cc9d62ca4f1a0ccaa795740c8668 # timeout=10
[dev] $ /bin/sh -xe /tmp/jenkins15387860348313005988.sh
+ chmod +x build.sh
+ chmod +x deploy.sh
+ ./build.sh
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  3.611MB

Step 1/2 : FROM nginx:alpine
alpine: Pulling from library/nginx
619be1103602: Pulling fs layer
ed3e62e73b33: Pulling fs layer
5126dce06df7: Pulling fs layer
1d0dd2dc2265: Pulling fs layer
2b1ab92f0231: Pulling fs layer
6eba808ac059: Pulling fs layer
57038e85fbb8: Pulling fs layer
eec94c9845c0: Pulling fs layer
1d0dd2dc2265: Waiting
2b1ab92f0231: Waiting
6eba808ac059: Waiting
```

Dashboard > dev > #2 > Console Output

```
619be1103602: Pull complete
ed3e62e73b33: Pull complete
5126dce06df7: Pull complete
1d0dd2dc2265: Pull complete
2b1ab92f0231: Pull complete
6eba808ac059: Pull complete
57038e85fbb8: Pull complete
eec94c9845c0: Pull complete
Digest: sha256:31bad00311cb5eeb8a6648beadcf67277a175da89989f14727420a80e2e76742
Status: Downloaded newer image for nginx:alpine
 ---> e289a478ace0
Step 2/2 : COPY build/ /usr/share/nginx/html/
 ---> 4abbbb845105
Successfully built 4abbbb845105
Successfully tagged mywebserver:latest
Removing network dev_default
Network dev_default not found.
Creating network "dev_default" with the default driver
Creating dev_nginx_1 ...
Creating dev_nginx_1 ... done
+ ./deploy.sh
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
REPOSITORY          TAG       IMAGE ID       CREATED         SIZE
jayaprabakara/dev   latest    4abbbb845105   4 seconds ago   45.2MB
mywebserver         latest    4abbbb845105   4 seconds ago   45.2MB
nginx               alpine    e289a478ace0   7 weeks ago     42.6MB
Using default tag: latest
The push refers to repository [docker.io/jayaprabakara/dev]
d92f5999cfb3: Preparing
13c52683b537: Preparing
337b7d64083b: Preparing
cdd311f34c29: Preparing
3e8ad8bcb0ac: Preparing
74b4ff8dbbd1: Preparing
c018a48a857c: Preparing
0f73163669d4: Preparing
aedc3bda2944: Preparing
74b4ff8dbbd1: Waiting
c018a48a857c: Waiting
0f73163669d4: Waiting
aedc3bda2944: Waiting
3e8ad8bcb0ac: Layer already exists
13c52683b537: Layer already exists
337b7d64083b: Layer already exists
cdd311f34c29: Layer already exists
c018a48a857c: Layer already exists
74b4ff8dbbd1: Layer already exists
aedc3bda2944: Layer already exists
0f73163669d4: Layer already exists
d92f5999cfb3: Pushed
latest: digest: sha256:0185e7755bfce5b0f2aa1077e01d41e032197ce4050b6bf24187c5c3248b0a32 size: 2199
Finished: SUCCESS
```

Jenkins Console output, when GIT push to master branch:

Jenkins

Search (CTRL+K)

Dashboard > dev > #3 > Console Output

🗎 Status

</> Changes

🖥 Console Output

🗎 View as plain text

🖉 Edit Build Information

🗑 Delete build '#3'

🗐 Polling Log

◆ Git Build Data

← Previous Build

✓ **Console Output**

```
Started by GitHub push by Jayaprabakara
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/dev
The recommended git tool is: NONE
No credentials specified
 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/dev/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/Jayaprabakara/My_Capstone.git # timeout=10
Fetching upstream changes from https://github.com/Jayaprabakara/My_Capstone.git
 > git --version # timeout=10
 > git --version # 'git version 2.34.1'
 > git fetch --tags --force --progress -- https://github.com/Jayaprabakara/My_Capstone.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/dev
Seen branch in repository origin/master
Seen 2 remote branches
 > git show-ref --tags -d # timeout=10
Checking out Revision 19c36521715824669db74ec3e41c506393465205b (origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 19c36521715824669db74ec3e41c506393465205b # timeout=10
Commit message: " upload"
 > git rev-list --no-walk cdb384826390cc9d62ca4f1a0ccaa795740c0660 # timeout=10
[dev] $ /bin/sh -xe /tmp/jenkins12664698004381438363.sh
+ chmod +x build.sh
+ chmod +x deploy.sh
+ ./build.sh
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  3.616MB

Step 1/2 : FROM nginx:alpine
 ---> e289a478ace0
Step 2/2 : COPY build/ /usr/share/nginx/html/
 ---> Using cache
 ---> 4abbbb845105
Successfully built 4abbbb845105
Successfully tagged mywebserver:latest
Stopping dev_nginx_1 ...
Stopping dev_nginx_1 ... done
Removing dev_nginx_1 ...
Removing dev_nginx_1 ... done
Removing network dev_default
Creating network "dev_default" with the default driver
Creating dev_nginx_1 ...
Creating dev_nginx_1 ... done
+ ./deploy.sh
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
```

Dashboard > dev > #3 > Console Output

```
Step 2/2 : COPY build/ /usr/share/nginx/html/
 ---> Using cache
 ---> 4abbbb845105
Successfully built 4abbbb845105
Successfully tagged mywebserver:latest
Stopping dev_nginx_1 ...
Stopping dev_nginx_1 ... done
Removing dev_nginx_1 ...
Removing dev_nginx_1 ... done
Removing network dev_default
Creating network "dev_default" with the default driver
Creating dev_nginx_1 ...
Creating dev_nginx_1 ... done
+ ./deploy.sh
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
REPOSITORY          TAG       IMAGE ID       CREATED          SIZE
jayaprabakara/dev   latest    4abbbb845105   56 minutes ago   45.2MB
jayaprabakara/prod  latest    4abbbb845105   56 minutes ago   45.2MB
mywebserver         latest    4abbbb845105   56 minutes ago   45.2MB
nginx               alpine    e289a478ace0   7 weeks ago      42.6MB
Using default tag: latest
The push refers to repository [docker.io/jayaprabakara/prod]
d92f5999cfb3: Preparing
13c52683b537: Preparing
337b7d64083b: Preparing
cdd311f34c29: Preparing
3e8ad8bcb0ac: Preparing
74b4ff8dbbd1: Preparing
c018a48a857c: Preparing
0f73163669d4: Preparing
aedc3bda2944: Preparing
74b4ff8dbbd1: Waiting
c018a48a857c: Waiting
0f73163669d4: Waiting
aedc3bda2944: Waiting
13c52683b537: Layer already exists
3e8ad8bcb0ac: Layer already exists
cdd311f34c29: Layer already exists
337b7d64083b: Layer already exists
0f73163669d4: Layer already exists
74b4ff8dbbd1: Layer already exists
c018a48a857c: Layer already exists
aedc3bda2944: Layer already exists
d92f5999cfb3: Mounted from jayaprabakara/dev
latest: digest: sha256:0185e7755bfce5b0f2aa1077e01d41e032197ce4050b6bf24187c5c3248b0a32 size: 2199
Finished: SUCCESS
```