Script-To-Build

Dockerfile

```
vim Dockerfile

FROM httpd
LABEL maintainer="Tia M"

RUN apt-get -y update && \
    apt-get -y install wget && \
    apt-get install -y apt-utils && \
    apt-get -y install unzip

WORKDIR /usr/local/apache2/htdocs/

RUN rm -rf * && \
    wget https://linux-devops-course.s3.amazonaws.com/WEB+SIDE+HTML
/covid19.zip && \
    unzip covid19.zip && \
    cp -R covid19/* .

CMD ["httpd-foreground"]
EXPOSE 80
```

Basic script (Junior guy)

```
vim build.sh
chmod +x build.sh

#!/bin/bash
## Login int AWS ECR
aws ecr get-login-password --region us-east-1 | docker login --username
AWS --password-stdin 788210522308.dkr.ecr.us-east-1.amazonaws.com/aws-ecr-docker

## Build the image
docker build -t 788210522308.dkr.ecr.us-east-1.amazonaws.com/aws-ecr-docker:covid19-1 .

## Push the image
docker push 788210522308.dkr.ecr.us-east-1.amazonaws.com/aws-ecr-docker:covid19-1
```

```
#!/bin/bash
PARAM_ENV=`echo $1 | awk -F= '{print $1}'`
PARAM_TAG=`echo $3 | awk -F= '{print $1}'`
VALUE=`echo $2 | awk -F= '{print $1}'`
TAG=`echo $4 | awk -F= '{print $1}'`
echo $PARAM_ENV
echo $PARAM_TAG
echo $VALUE
echo $TAG
#!/bin/bash
DOCKER_REGISTRY=788210522308.dkr.ecr.us-east-1.amazonaws.com
DOCKER_REPO=aws-ecr-docker
PARAM ENV=`echo $1 | awk -F= '{print $1}'`
ENVIRONMENT=`echo $2 | awk -F= '{print $1}'`
PARAM_TAG=`echo $3 | awk -F= '{print $1}'`
TAG=`echo $4 | awk -F= '{print $1}'`
if [ $ENVIRONMENT == "nonprod" ] && [ $PARAM_ENV == "--env" ] && [
$PARAM_TAG == "--tag" ]
then
    echo "Building $ENVIRONMENT image and pushing it into AWS ECR"
    DOCKER_FULL="$DOCKER_REGISTRY/$DOCKER_REPO:$TAG"
    aws ecr get-login-password --region us-east-1 | docker login --
username AWS --password-stdin $DOCKER_REGISTRY/$DOCKER_REPO
    docker build -t $DOCKER_FULL .
    docker push $DOCKER_FULL
    exit 1
else
    echo ""
    echo "Usage for covid 19 nonprod image: $0 --env nonprod --tag
<image tag name>"
    echo "Example: ./build.sh --env nonprod --tag covid19"
    echo ""
    exit 1
fi
```

Build and push into 3 environments as NONPROD, PROD, AND QA (Senior guy)

```
#!/bin/bash
ENVIRONMENT_PROD=prod
```

```
ENVIRONMENT_QA=qa
ENVIRONMENT NONPROD=nonprod
DOCKER_REGISTRY_PROD=788210522308.dkr.ecr.us-east-1.amazonaws.com
DOCKER_REGISTRY_NONPROD=788210522308.dkr.ecr.us-east-1.amazonaws.com
DOCKER_REGISTRY_QA=788210522308.dkr.ecr.us-east-1.amazonaws.com
DOCKER REPO=aws-ecr-docker
PARAM ENV=`echo $1 | awk -F= '{print $1}'`
PARAM_TAG=`echo $3 | awk -F= '{print $1}'`
VALUE=`echo $2 | awk -F= '{print $1}'`
TAG=`echo $4 | awk -F= '{print $1}'`
if [ $VALUE == $ENVIRONMENT_QA ] && [ $PARAM_ENV == "--env" ] && [
$PARAM_TAG == "--tag" ]
then
   echo "Building Covid 19 $VALUE image and pushing it into AWS ECR"
   DOCKER_FULL="$DOCKER_REGISTRY_QA/$DOCKER_REPO:$TAG"
   aws ecr get-login-password --region us-east-1 | docker login --
username AWS --password-stdin $DOCKER_REGISTRY_QA
    docker build -t $DOCKER_FULL .
   docker push $DOCKER FULL
   exit 1
elif [ $VALUE == $ENVIRONMENT_NONPROD ] && [ $PARAM_ENV == "--env" ] &&
[ $PARAM_TAG == "--tag" ]
then
   echo "Building Covid 19 $VALUE image and pushing it into AWS ECR"
   DOCKER_FULL="$DOCKER_REGISTRY_NONPROD/$DOCKER_REPO:$TAG"
   aws ecr get-login-password --region us-east-1 | docker login --
username AWS --password-stdin $DOCKER_REGISTRY_NONPROD
   docker build -t $DOCKER FULL .
   docker push $DOCKER FULL
   exit 1
elif [ $VALUE == $ENVIRONMENT_PROD ] && [ $PARAM_ENV == "--env" ] && [
$PARAM TAG == "--tag" ]
then
   echo "Building Covid 19 $VALUE image and pushing it into AWS ECR"
   DOCKER_FULL="$DOCKER_REGISTRY_PROD/$DOCKER_REPO:$TAG"
   aws ecr get-login-password --region us-east-1 | docker login --
username AWS --password-stdin $DOCKER REGISTRY PROD
   docker build -t $DOCKER FULL .
   docker push $DOCKER_FULL
   exit 1
else
   echo ""
   echo "ERROR: Check the below usage to build the image according to
    echo "Usage for Covid 19 QA image: $0 --env $ENVIRONMENT_QA --tag
```

```
<image tag name>"
    echo "Usage for Covid 19 NONPROD image: $0 --env
$ENVIRONMENT_NONPROD --tag <image tag name>"
    echo "Usage for Covid 19 PROD image: $0 --env $ENVIRONMENT_PROD --
tag <image tag name>"
    echo "Example: $0 --env $ENVIRONMENT_NONPROD --tag covid19"
    echo ""
    exit 1
fi
./build.sh --env nonprod --tag covid19-nonprod
./build.sh --env qa --tag covid19-qa
./build.sh --env prod --tag covid19-prod
```

Build and push into 2 environments such as NONPROD, PROD (Senior guy)

```
ENVIRONMENT_PROD=prod
ENVIRONMENT NONPROD=nonprod
DOCKER REGISTRY PROD=288210522308.dkr.ecr.us-east-1.amazonaws.com
DOCKER_REGISTRY_NONPROD=288210522308.dkr.ecr.us-east-1.amazonaws.com
DOCKER_REPO=jenkins
PARAM_ENV=`echo $1 | awk -F= '{print $1}'`
PARAM_TAG=`echo $3 | awk -F= '{print $1}'`
VALUE=`echo $2 | awk -F= '{print $1}'`
TAG=`echo $4 | awk -F= '{print $1}'`
if [ $VALUE == $ENVIRONMENT_NONPROD ] && [ $PARAM_ENV == "--env" ] && [
$PARAM_TAG == "--tag" ]
   echo "Building Jenkins $VALUE image and pushing it into AWS ECR"
   DOCKER_FULL="$DOCKER_REGISTRY_NONPROD/$DOCKER_REPO:$TAG"
    aws ecr get-login-password --region us-east-1 | docker login --
username AWS --password-stdin $DOCKER_REGISTRY_NONPROD
    docker build -t $DOCKER FULL .
   docker push $DOCKER FULL
   exit 1
elif [ $VALUE == $ENVIRONMENT_PROD ] && [ $PARAM_ENV == "--env" ] && [
$PARAM_TAG == "--tag" ]
then
   echo "Building Jenkins $VALUE image and pushing it into AWS ECR"
   DOCKER_FULL="$DOCKER_REGISTRY_PROD/$DOCKER_REPO:$TAG"
    aws ecr get-login-password --region us-east-1 | docker login --
username AWS --password-stdin $DOCKER REGISTRY PROD
   docker build -t $DOCKER_FULL .
   docker push $DOCKER FULL
   exit 1
else
   echo ""
   echo "ERROR: Check the below usage to build the image according to
your environement: "
   echo "Usage for Jenkins nonprod image: $0 --env
$ENVIRONMENT NONPROD --tag <image tag name>"
   echo "Usage for Jenkins prod image: $0 --env $ENVIRONMENT_PROD --
tag <image tag name>"
   echo "Example: $0 --env $ENVIRONMENT_NONPROD --tag jenkins-nonprod"
   echo ""
   exit 1
fi
```