FROM ubuntu:18.04

LABEL contact="mavrick202@gmail.com"

ARG file1

ARG file2

ARG file3

ENV owner="Sreeharsha"

RUN touch /tmp/$file1

RUN touch /tmp/$file2

RUN touch /tmp/$file3

RUN apt update && apt install -y net-tools iputils-ping

ENTRYPOINT ["ping", "-c 3"]

CMD ["www.facebook.com" ]

docker run --rm -it sreeharshav/ping:v1 ping -c 5 www.yahoo.com

Testing ENV, ARG

docker run --rm -dit --name nginx02 -e AWS\_ACCESS\_KEY\_ID='AKIA2QEFLENWN2P6SHYA' -e AWS\_SECRET\_ACCESS\_KEY='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' -e AWS\_DEFAULT\_REGION='us-east-1' -p 8500:80 sreeharsahv/devopsb20:v13

#Build Image with Terraform, AWS CLI

FROM ubuntu:20.04

LABEL "email"="sreeharshav@gmail.com"

LABEL version="1.0.0"

LABEL description="Nginx Custom Image On Ubuntu 20.04"

ENV AWS\_ACCESS\_KEY\_ID=AKIAIOSFODNN7EXAMPLE

ENV AWS\_SECRET\_ACCESS\_KEY=wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

ENV AWS\_DEFAULT\_REGION=us-east-1

RUN apt update

RUN apt install -y nginx \

&& apt install -y jq curl wget unzip \

&& apt install -y net-tools iputils-ping dnsutils && mkdir /testfolder1

COPY testfile.sh /testfolder1/testfile1.sh

ADD testfile.sh /testfolder1/testfile2.sh

RUN curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip" && unzip awscliv2.zip \

&& ./aws/install

RUN aws --version

ARG T\_VERSION=1.0.10

ADD https://releases.hashicorp.com/terraform/$T\_VERSION/terraform\_${T\_VERSION}\_linux\_amd64.zip /testfolder1

RUN cd /testfolder1 && unzip terraform\_${T\_VERSION}\_linux\_amd64.zip && chmod 777 terraform && ./terraform version

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]

Dockerfile USER & WORKDIR

FROM ubuntu:18.04

LABEL contact="mavrick202@gmail.com"

RUN apt update && apt install -y nginx net-tools iputils-ping

RUN useradd demouser && mkdir /demofolder

WORKDIR /demofolder

USER demouser

FROM ubuntu:18.04

LABEL contact="mavrick202@gmail.com"

RUN apt update && apt install -y nginx net-tools iputils-ping

RUN useradd demouser && mkdir /demofolder

ADD script.sh /demofolder

WORKDIR /demofolder

USER demouser

CMD ["/bin/bash","script.sh"]

Understanding ADD vs COPY:

wget <http://www.sbeams.org/sample_data/Microarray/External_test_data.tar.gz>

COPY index.html /var/www/html/index.nginx-debian.html

COPY scorekeeper.js /var/www/html/scorekeeper.js

COPY style.css /var/www/html/style.css

ADD hello.html /var/www/html/hello.html

ADD https://releases.hashicorp.com/terraform/0.14.8/terraform\_0.14.8\_linux\_amd64.zip /

ADD External\_test\_data.tar.gz /

Understanding EXPOSE in Dockerfile:

FROM ubuntu:18.04

LABEL "DevelopedBy"="Sreeharsha Veerapalli"

RUN apt update -y

RUN apt install -y nginx dnsutils net-tools iputils-ping curl wget jq

COPY default /etc/nginx/sites-enabled/default

RUN service nginx restart

EXPOSE 9999

CMD ["nginx", "-g", "daemon off;"]

===========================================================================

Create a file called default with the following config.

server {

listen 9999 default\_server;

listen [::]:9999 default\_server;

root /var/www/html;

# Add index.php to the list if you are using PHP

index index.html index.htm index.nginx-debian.html;

server\_name \_;

location / {

# First attempt to serve request as file, then

# as directory, then fall back to displaying a 404.

try\_files $uri $uri/ =404;

}

}

ARG vs ENV

FROM ubuntu:20.04

LABEL email="mavrick202@gmail.com"

LABEL VERSION=1.0.0

ARG folder1=TESTFOLDER1

ARG folder2=TESTFOLDER2

#ARG version=0.14.10

ENV version=0.14.10

ENV userid=sreeharshav

ENV password=India@123

RUN mkdir /$folder1 && mkdir /$folder2 && apt update && apt install -y unzip

ADD https://releases.hashicorp.com/terraform/$version/terraform\_${version}\_linux\_amd64.zip /$folder1/Terraform$version.zip

RUN cd /$folder1 && unzip Terraform$version.zip && chmod 777 terraform && cp terraform /usr/local/bin

CMD ["terraform", "version"]

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FROM ubuntu:20.04

LABEL owner="sreeharsha veerapalli"

LABEL email="mavrick202@gmail.com"

ARG DEBIAN\_FRONTEND=noninteractive

ARG user1=testuser1

ARG user2=testuser2

RUN apt-get update && \

apt-get install -y \

unzip \

groff \

less \

curl \

&& apt-get clean

RUN curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"

RUN unzip awscliv2.zip

RUN ./aws/install

ENV AWS\_ACCESS\_KEY\_ID="XXXXXXXXXXXXXXXXX"

ENV AWS\_SECRET\_ACCESS\_KEY="YYYYYYYYYYYYYYYYYY"

ENV AWS\_DEFAULT\_REGION="us-east-1"

RUN useradd $user1 && useradd $user2

CMD ["/bin/bash"]