

Clone Git repository

- First, clone the Git repository on a Docker host using the command below:

Docker Build

- Then, proceed with the docker build command to build a custom docker image.

```
cd Docker
```

```
dockerbuild -t phpcode . -f Dockerfile
```

```
root@docker:~/Docker# docker build -t phpcode .
Sending build context to Docker daemon 337.9kB
Step 1/14 : FROM ubuntu
----> 93fd78260bd1
Step 2/14 : ENV DEBIAN_FRONTEND=non-interactive
----> Using cache
----> b21eb69f632a
Step 3/14 : RUN apt-get update -y
----> Using cache
----> d2e4866734b9
Step 4/14 : RUN apt-get install -y git curl apache2 php libapache2-mod-php php-mysql
----> Using cache
----> 85f084edfc0b
Step 5/14 : RUN rm -rf /var/www/html/*
----> Using cache
----> b56166da0f16
Step 6/14 : ADD src /var/www/html/
----> Using cache
----> ba9e5c5c651c
Step 7/14 : RUN a2enmod rewrite
----> Using cache
----> cff3e4bb8c42
Step 8/14 : RUN chown -R www-data:www-data /var/www/html
----> Using cache
----> 7a4314c7b69b
Step 9/14 : ENV APACHE_RUN_DIR /var/www/html
----> Using cache
----> 663a68663f90
```

- Once the image is built, check the image using docker run command and then run it to initialize custom container on Docker host.

```
docker images
```

```
docker run -d --name phpcode -p 80:80 phpcode
```

```

Step 10/14 : ENV APACHE_RUN_USER www-data
---> Using cache
---> 2915860f4df7
Step 11/14 : ENV APACHE_RUN_GROUP www-data
---> Using cache
---> c83847b098df
Step 12/14 : ENV APACHE_LOG_DIR /var/log/apache2
---> Using cache
---> c4428c1a14db
Step 13/14 : EXPOSE 80
---> Using cache
---> 7374debb3213
Step 14/14 : CMD ["/usr/sbin/apache2", "-D", "FOREGROUND"]
---> Using cache
---> d35edda13537
Successfully built d35edda13537
Successfully tagged phpcode:latest
root@ip-172-31-25-208:~/Docker#
root@ip-172-31-25-208:~/Docker# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
phpcode              latest              d35edda13537        20 minutes ago     291MB
ubuntu               16.04              a51debf7e1eb        7 days ago          116MB
root@ip-172-31-25-208:~/Docker# █

```

- Once the container is up and running, validate the connectivity using the **curl** command to see if **php code** is running on port 80 or not.