To Create image from the container

1. **Create a container from the base image.**

```
[root@docker-mas01 ~]# docker run -d tomcat
b9d87a06ee25e933d313743fedd45a0c51b064792d084c2925ad5b8f93437c13
[root@docker-mas01 ~]# docker ps
```

```
[root@docker-mas01 ~]# docker ps
CONTAINER ID        IMAGE             COMMAND             CREATED           STATUS           P
AMES
efe54cc7ec5a        tomcat            "catalina.sh run"   3 minutes ago     Up 3 minutes     8
ifted_tereshkova
[root@docker-mas01 ~]#
```

2. **Login to the container and create an folder and a file.**

```
[root@docker-mas01 ~]# docker exec -it efe54cc7ec5a /bin/bash
root@efe54cc7ec5a:/usr/local/tomcat#
root@efe54cc7ec5a:/usr/local/tomcat#
root@efe54cc7ec5a:/usr/local/tomcat# cd /
root@efe54cc7ec5a:/#
root@efe54cc7ec5a:/#
root@efe54cc7ec5a:/# pwd
/
root@efe54cc7ec5a:/#
root@efe54cc7ec5a:/#
root@efe54cc7ec5a:/# mkdir app
root@efe54cc7ec5a:/#
root@efe54cc7ec5a:/#
root@efe54cc7ec5a:/# cd app
root@efe54cc7ec5a:/app#
root@efe54cc7ec5a:/app#
root@efe54cc7ec5a:/app# pwd
/app
root@efe54cc7ec5a:/app#
root@efe54cc7ec5a:/app#
```

```
root@efe54cc7ec5a:/app# touch file1.txt
root@efe54cc7ec5a:/app# echo "this file was created inside the container" > file1.txt
root@efe54cc7ec5a:/app#
root@efe54cc7ec5a:/app# cat file1.txt
this file was created inside the container
root@efe54cc7ec5a:/app#
```

Now, lets exit from the container.

```
root@efe54cc7ec5a:/app#
root@efe54cc7ec5a:/app# exit
exit
[root@docker-mas01 ~]#
[root@docker mas01 ~]#
```

3. Create an image from the running container

$ docker commit <container id>   <custom image name:latest>

```
[root@docker-mas01 ~]# docker commit efe54cc7ec5a  tomcat-custom10:latest
sha256:2d18697f481d43b466771607ebc8fd30071b8a4e7c392eda4e7b5a23078e7ca6
[root@docker-mas01 ~]# docker image ls
REPOSITORY                TAG                    IMAGE ID          CREATED            SIZE
tomcat-custom10           latest                 2d18697f481d      5 seconds ago      506MB
tomcat-custm03            latest                 89c00b8f2b60      16 minutes ago     421MB
```

4. Create an container from this new custom image

Check if the file still there.

Note: -- to avoid confusion, remove the previous container.

```
[root@docker-mas01 ~]# docker ps
CONTAINER ID          IMAGE              COMMAND             CREATED
AMES
efe54cc7ec5a          tomcat             "catalina.sh run"   8 minutes a
ifted_tereshkova
[root@docker-mas01 ~]# docker container rm efe54cc7ec5a -f
efe54cc7ec5a
[root@docker-mas01 ~]#
```

```
[root@docker-mas01 ~]# docker run -d tomcat-custom10
bb05295be28d08ab8865a5b2b55ff05e74d8be3d7927edfa0a70cc992c68c76f
[root@docker-mas01 ~]# docker ps
CONTAINER ID          IMAGE              COMMAND             CREATED
AMES
bb05295be28d          tomcat-custom10    "catalina.sh run"   4 seconds ago
riceless_pasteur
[root@docker-mas01 ~]#
```

Now, lets check

Login to the container.

```
[root@docker-mas01 ~]# docker exec -it bb05295be28d /bin/bash
root@bb05295be28d:/usr/local/tomcat# cd /
root@bb05295be28d:/#
root@bb05295be28d:/# cd app
root@bb05295be28d:/app# ls
file1.txt
root@bb05295be28d:/app#
root@bb05295be28d:/app# cat file1.txt
this file was created inside the container
root@bb05295be28d:/app#
```