1. 完成本地 hub 的搭建，并截图。

```
[jenny2@jenny2-VirtualBox:~/DockerfileDemo$ docker ps
CONTAINER ID   IMAGE                                                  COMMAND                 CREATED          STATUS          PORTS
                                                                      NAMES
20d077d457e9   registry:2                                            "/entrypoint.sh /etc…"  13 minutes ago   Up 13 minutes   0.0.0.0:5000->5000/tcp, :::5000->5000/tcp
                                                                      registry
0cf6092f3e09   selenium/node-chrome:4.0.0-rc-2-prerelease-20210923   "/opt/bin/entry_poin…"  22 hours ago     Up 22 hours     0.0.0.0:5902->5900/tcp, :::5902->5900/tcp
                                                                      selenium-node
e7ffb1dfd8a5   selenium/hub:4.0.0-rc-2-prerelease-20210923           "/opt/bin/entry_poin…"  22 hours ago     Up 22 hours     0.0.0.0:5442->4442/tcp, :::5442->4442/tcp, 0.0.0.0:5443
->4443/tcp, :::5443->4443/tcp, 0.0.0.0:5444->4444/tcp, :::5444->4444/tcp   selenium-hub
4968ccc28b06   mysql:5.5                                             "docker-entrypoint.s…"  42 hours ago     Up 42 hours     0.0.0.0:8888->3306/tcp, :::8888->3306/tcp
                                                                      mysql-test
jenny2@jenny2-VirtualBox:~/DockerfileDemo$
```

2. 不使用挂载的方式，而是通过 Docker 制作的方式实现对 Nginx 的默认页的修改，把制作的 Dockerfile 和首页 html 传到代码仓。

- **Dockerfile**

```
1  jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ cat Dockerfile
2  FROM nginx
3
4  COPY index.html /usr/share/nginx/html
```

- **index.html**

```
1  jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ cat index.html
2  <h1>Hello world</h1>
```

- **制作镜像**

```
[jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker build -t mylocalngnix:v1.0 .
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  3.072kB
Step 1/2 : FROM nginx
latest: Pulling from library/nginx
1f7ce2fa46ab: Already exists
9b16c94bb686: Pull complete
9a59d19f9c5b: Pull complete
9ea27b074f71: Pull complete
c6edf33e2524: Pull complete
84b1ff10387b: Pull complete
517357831967: Pull complete
Digest: sha256:10d1f5b58f74683ad34eb29287e07dab1e90f10af243f151bb50aa5dbb4d62ee
Status: Downloaded newer image for nginx:latest
 ---> a6bd71f48f68
Step 2/2 : COPY index.html /usr/share/nginx/html
 ---> 40ac86912671
Successfully built 40ac86912671
Successfully tagged mylocalngnix:v1.0
jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker images
REPOSITORY         TAG       IMAGE ID       CREATED          SIZE
mylocalngnix       v1.0      40ac86912671   51 seconds ago   187MB
centos7            v1.0      cb354d1504ab   2 days ago       740MB
```

```
1  jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker build -t mylocalngnix:v1.0
   .
```

```
2   DEPRECATED: The legacy builder is deprecated and will be removed in a future
    release.
3               Install the buildx component to build images with BuildKit:
4               https://docs.docker.com/go/buildx/
5
6   Sending build context to Docker daemon   3.072kB
7   Step 1/2 : FROM nginx
8   latest: Pulling from library/nginx
9   1f7ce2fa46ab: Already exists
10  9b16c94bb686: Pull complete
11  9a59d19f9c5b: Pull complete
12  9ea27b074f71: Pull complete
13  c6edf33e2524: Pull complete
14  84b1ff10387b: Pull complete
15  517357831967: Pull complete
16  Digest: sha256:10d1f5b58f74683ad34eb29287e07dab1e90f10af243f151bb50aa5dbb4d62ee
17  Status: Downloaded newer image for nginx:latest
18   ---> a6bd71f48f68
19  Step 2/2 : COPY index.html /usr/share/nginx/html
20   ---> 40ac86912671
21  Successfully built 40ac86912671
22  Successfully tagged mylocalngnix:v1.0
23  jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker images
24  REPOSITORY                  TAG                          IMAGE ID
    CREATED           SIZE
25  mylocalngnix                v1.0                         40ac86912671    51
    seconds ago    187MB
```

- 将镜像推送到私有镜像仓库

```
1  jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker tag mylocalngnix:v1.0
   localhost:5000/mylocalngnix:v1.0
2  jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker push
   localhost:5000/mylocalngnix:v1.0
3  The push refers to repository [localhost:5000/mylocalngnix]
4  6c67c846725e: Pushed
5  0d0e9c83b6f7: Pushed
6  cddc309885a2: Pushed
7  c2d3ab485d1b: Pushed
8  66283570f41b: Pushed
```

```
 9   f5525891d9e9: Pushed
10   8ae474e0cc8f: Pushed
11   92770f546e06: Pushed
12   v1.0: digest:
     sha256:4c6e9bd75de442e33c7e115179e0a129812b88417e0696e633cee6d3ef606de2 size:
     1985
```

3. 推送自己定制好的 Nginx 镜像到本地镜像仓库 hub 中，查询本地镜像仓库中的镜像截图。

```
 1   jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ curl
     http://localhost:5000/v2/_catalog
 2   {"repositories":["busybox","mylocalngnix"]}
```
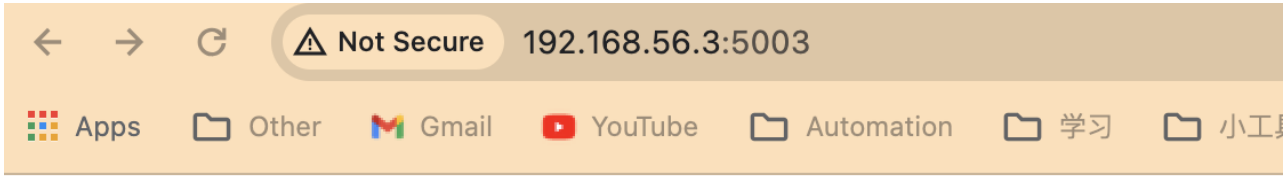
4. 从本地仓库拉取定制好的 Nginx 镜像，启动该 Nginx 访问并截图 。

```
 1   jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker pull
     localhost:5000/mylocalngnix:v1.0
 2   v1.0: Pulling from mylocalngnix
 3   Digest: sha256:4c6e9bd75de442e33c7e115179e0a129812b88417e0696e633cee6d3ef606de2
 4   Status: Image is up to date for localhost:5000/mylocalngnix:v1.0
 5   localhost:5000/mylocalngnix:v1.0
 6
 7   jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker run -d -p 5003:80 --name
     mynginx localhost:5000/mylocalngnix:v1.0
 8   47064488ea82a09a9900a61608ac700bc13769216b4cbfb2d7011f3267683a9a
 9   jenny2@jenny2-VirtualBox:~/myNgnixDockerfile$ docker ps
10   CONTAINER ID   IMAGE                                               COMMAND
                    CREATED          STATUS          PORTS
                         NAMES
11   47064488ea82   localhost:5000/mylocalngnix:v1.0                    "/docker-
     entrypoint.…"   20 seconds ago   Up 19 seconds   0.0.0.0:5003->80/tcp, :::5003-
     >80/tcp
                     mynginx
```

Hello world