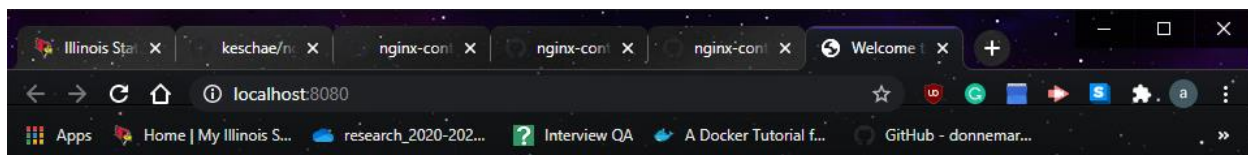


Assignment 3 - Docker Container and GitHub Intro

Docker nginx pull command:

```
alfrin@Apita: ~  
45b42c59be33: Extracting [=====> ] 25.95MB/27.1MB  
Using default tag: latest  
45b42c59be33: Pull complete  
d0d9e9ea897e: Pull complete  
66e650438339: Pull complete  
76a3dfe4406b: Pull complete  
410ff9d97480: Pull complete  
Digest: sha256:8e10956422503824ebb599f37c26a90fe70541942687f70bbdb744530fc9eba4  
Status: Downloaded newer image for nginx:latest  
docker.io/library/nginx:latest  
(base) alfrin@Apita:~$ docker images  
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE  
nginx                latest          298ec0e28760   16 hours ago   133MB  
webserver            latest          b0c99a591cc3   4 days ago     148MB  
php-demo             latest          12d61ee37fd3   13 days ago    368MB  
php                  7.4-apache     899ab23566b7   2 weeks ago    414MB  
docker.elastic.co/logstash/logstash  7.10.2         278903ffa6ee   3 weeks ago    915MB  
docker-elk_logstash latest          278903ffa6ee   3 weeks ago    915MB  
docker.elastic.co/kibana/kibana       7.10.2         cca015890e7f   3 weeks ago    1.05GB  
docker-elk_kibana    latest          cca015890e7f   3 weeks ago    1.05GB  
docker.elastic.co/elasticsearch/elasticsearch  7.10.2         0b58e1cea500   3 weeks ago    814MB  
docker-elk_elasticsearch latest          0b58e1cea500   3 weeks ago    814MB  
nginx                <none>         f6d0b4767a6c   4 weeks ago    133MB  
docker/getting-started latest          021a1b85e641   2 months ago   27.6MB  
hello-world          latest          bf756fb1ae65   13 months ago  13.3kB  
(base) alfrin@Apita:~$ docker run -it --rm -d -p 8080:80 --name web nginx  
ba23185c38f180911696c0e2bde017c98892c883c78184ec18a74bd8d5fa2c32  
(base) alfrin@Apita:~$
```

nginx running on localhost:



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

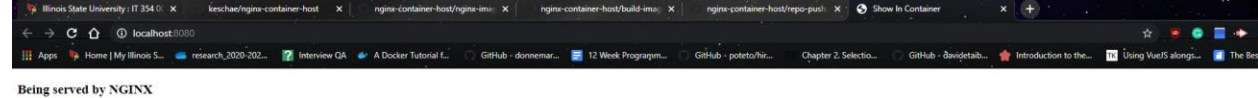
Thank you for using nginx.

Docker stop commands:

```
alfrin@ApitA: ~  
(base) alfrin@ApitA:~$ docker run -it --rm -d -p 8080:80 --name web nginx  
ba23185c38f180911696c0e2bde017c98892c883c78184ec18a74bd8d5fa2c32  
(base) alfrin@ApitA:~$ docker ps -a  
CONTAINER ID   IMAGE      PORTS          NAMES                COMMAND                CREATED          STATUS  
ba23185c38f1   nginx     0.0.0.0:8080->80/tcp   web                  "/docker-entrypoint..." About a minute ago Up  
371f65c51d9c   docker-elk_kibana                docker-elk_kibana_1   "/usr/local/bin/dumb..." 4 days ago      Exited (0) 4 days ago  
42f19c3b4db1   docker-elk_logstash                docker-elk_logstash_1 "/usr/local/bin/dock..." 4 days ago      Exited (137) 4 days ago  
fae7cb5cfc17   docker-elk_elasticsearch                docker-elk_elasticsearch_1 "/tini -- /usr/local..." 4 days ago      Exited (143) 4 days ago  
ccf1c9da1de6   docker.elastic.co/elasticsearch/elasticsearch:7.10.2 "/tini -- /usr/local..." 4 days ago      Exited (130) 4 days ago  
de9f84e0a1a9   docker/getting-started                funny_rhodes          "/docker-entrypoint..." 13 days ago     Exited (0) 10 days ago  
7565cbb2a273   hello-world                silly_mirzakhani       "/hello"               13 days ago     Exited (0) 13 days ago  
6af7037b57d1   php-demo                  admiring_davinci       "docker-php-entrypoi..." 13 days ago     Exited (0) 13 days ago  
e0c6aa0c9fd3   hello-world                unruffled_burnell      "/hello"               13 days ago     Exited (0) 13 days ago  
f268b174846a   php-demo                  great_mestorf          "docker-php-entrypoi..." 13 days ago     Exited (0) 13 days ago  
dc279f3f579b   hello-world                serene_liskov          "bash -c 'ls -lsh /v..." 13 days ago     Created  
c3cc8a7676ee   php-demo                  modest_goldberg        "docker-php-entrypoi..." 13 days ago     Exited (0) 13 days ago  
(base) alfrin@ApitA:~$ docker stop web  
web  
(base) alfrin@ApitA:~$ docker ps  
CONTAINER ID   IMAGE      COMMAND                CREATED          STATUS          PORTS          NAMES  
(base) alfrin@ApitA:~$ docker run -it --rm -d -p 8080:80 --name web nginx  
f59d1c1379f8d3b1bca16a7270f5457d406d76458b38470921939aec155669e3  
(base) alfrin@ApitA:~$ docker rm -f web  
web  
(base) alfrin@ApitA:~$ docker ps -a  
CONTAINER ID   IMAGE      PORTS          NAMES                COMMAND                CREATED          STATUS  
371f65c51d9c   docker-elk_kibana                docker-elk_kibana_1   "/usr/local/bin/dumb..." 4 days ago      Exited (0) 4 days ago  
42f19c3b4db1   docker-elk_logstash                docker-elk_logstash_1 "/usr/local/bin/dock..." 4 days ago      Exited (137) 4 days ago  
fae7cb5cfc17   docker-elk_elasticsearch                docker-elk_elasticsearch_1 "/tini -- /usr/local..." 4 days ago      Exited (143) 4 days ago  
ccf1c9da1de6   docker.elastic.co/elasticsearch/elasticsearch:7.10.2 "/tini -- /usr/local..." 4 days ago      Exited (130) 4 days ago  
de9f84e0a1a9   docker/getting-started                funny_rhodes          "/docker-entrypoint..." 13 days ago     Exited (0) 10 days ago  
7565cbb2a273   hello-world                silly_mirzakhani       "/hello"               13 days ago     Exited (0) 13 days ago  
6af7037b57d1   php-demo                  admiring_davinci       "docker-php-entrypoi..." 13 days ago     Exited (0) 13 days ago  
e0c6aa0c9fd3   hello-world                unruffled_burnell      "/hello"               13 days ago     Exited (0) 13 days ago  
f268b174846a   php-demo                  great_mestorf          "docker-php-entrypoi..." 13 days ago     Exited (0) 13 days ago  
dc279f3f579b   hello-world                serene_liskov          "bash -c 'ls -lsh /v..." 13 days ago     Created  
c3cc8a7676ee   php-demo                  modest_goldberg        "docker-php-entrypoi..." 13 days ago     Exited (0) 13 days ago  
(base) alfrin@ApitA:~$
```

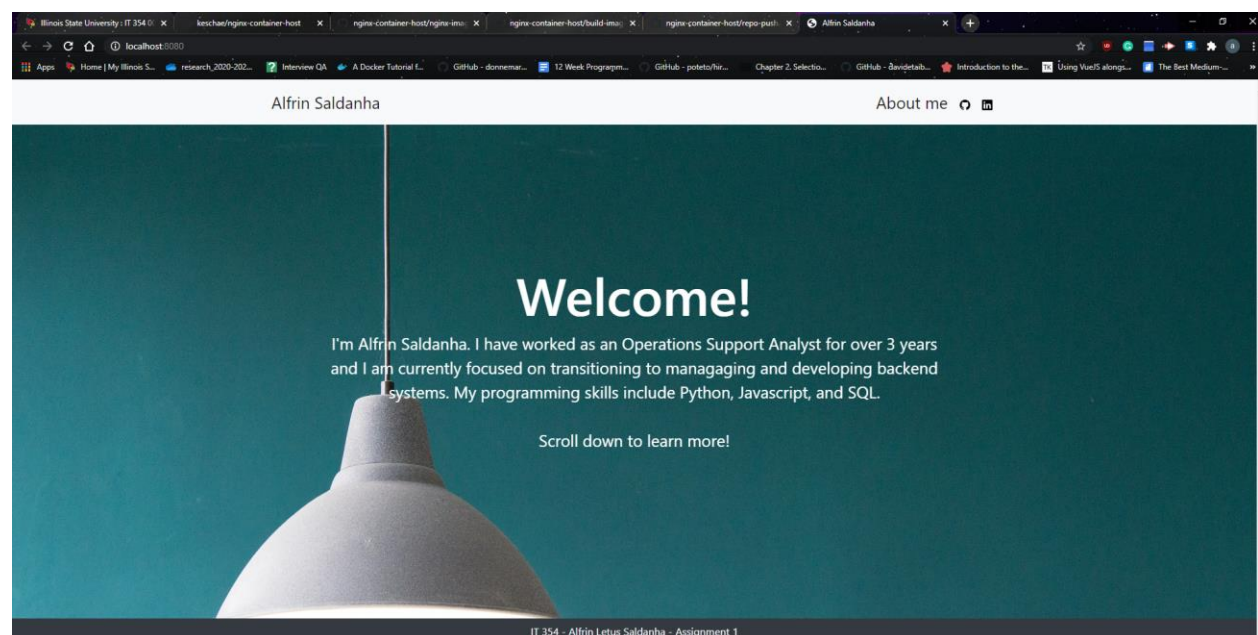
Binding docker with new index.html:

```
alfrin@Apita: ~/site-content
(base) alfrin@Apita:~/site-content$ docker run -it --rm -d -p 8080:80 --name web -v ~/site-content:/usr/share/nginx/html/ nginx
534db0b243f2154a4285b2d6bae667197cf2049a74873d5bcff207a29b13bac
(base) alfrin@Apita:~/site-content$
```

A screenshot of a web browser window. The address bar shows 'localhost:8080'. The page content is 'Being served by NGINX'. The browser's tab bar shows several tabs, including 'nginx-container-host/rep0-push' and 'Show In Container'.

Adding personal pages:

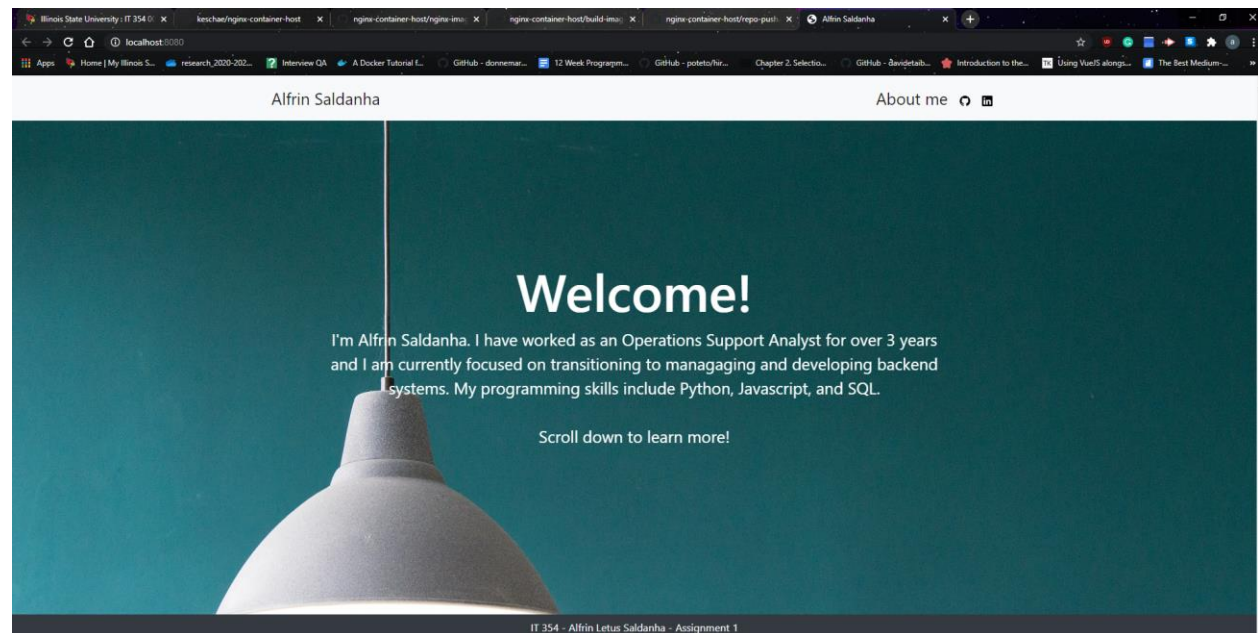
```
alfrin@Apita: ~/nginx-hosting
(base) alfrin@Apita:~/nginx-hosting$ ls -ltr
total 40
-rw-r--r-- 1 alfrin alfrin 7663 Jan 26 18:02 index.html
-rw-r--r-- 1 alfrin alfrin 11437 Jan 27 15:00 about.html
drwxr-xr-x 2 alfrin alfrin 4096 Feb 4 17:39 CSS
drwxr-xr-x 2 alfrin alfrin 4096 Feb 4 17:39 images
-rw-r--r-- 1 alfrin alfrin 48 Feb 4 17:42 Dockerfile
drwxr-xr-x 2 alfrin alfrin 4096 Feb 4 17:50 assignment-images
-rw-r--r-- 1 alfrin alfrin 33 Feb 4 17:51 README.md
(base) alfrin@Apita:~/nginx-hosting$ docker run -it --rm -d -p 8080:80 --name web -v "$PWD":/usr/share/nginx/html nginx
6670b564c5b5befa885404dbd1ddde133066c67653830352e16fca991bcea7
(base) alfrin@Apita:~/nginx-hosting$
```



Build image using Dockerfile:

```
alfrin@Apita: ~/nginx-hosting
(base) alfrin@Apita:~/nginx-hosting$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
(base) alfrin@Apita:~/nginx-hosting$ ls -ltr
total 40
-rw-r--r-- 1 alfrin alfrin 7663 Jan 26 18:03 index.html
-rw-r--r-- 1 alfrin alfrin 11437 Jan 27 15:00 about.html
drwxr-xr-x 2 alfrin alfrin 4096 Feb 4 17:30 CSS
drwxr-xr-x 2 alfrin alfrin 4096 Feb 4 17:30 images
-rw-r--r-- 1 alfrin alfrin 48 Feb 4 17:42 Dockerfile
drwxr-xr-x 2 alfrin alfrin 4096 Feb 4 17:50 assignment-images
-rw-r--r-- 1 alfrin alfrin 33 Feb 4 17:51 README.md
(base) alfrin@Apita:~/nginx-hosting$ cat Dockerfile
FROM nginx:latest
COPY . /usr/share/nginx/html/
(base) alfrin@Apita:~/nginx-hosting$ docker build -t webserver .
[+] Building 0.5s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 37B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load build context
=> => transferring context: 9.54MB
=> [1/2] FROM docker.io/library/nginx:latest
=> => resolve docker.io/library/nginx:latest
=> [2/2] COPY . /usr/share/nginx/html/
=> exporting to image
=> => exporting layers
=> => writing image sha256:fe80dbbbaae54c2961efe08d885a72e775ac43996077fc7dafff8a0fb38926e1
=> => naming to docker.io/library/webserver
(base) alfrin@Apita:~/nginx-hosting$ docker run -it --rm -d -p 8080:80 --name web webserver
04b426f94c24a406ac68d89668fca963e4431be94dfb1b61af9cd4a9740bfaf
(base) alfrin@Apita:~/nginx-hosting$
```

Serving index.html after building server using Dockerfile:



Pushing files to github:

```
alfrin@ApitA: ~/nginx-hosting
(base) alfrin@ApitA:~/nginx-hosting$ echo "alfrin saldanha IT354 - Assignment 3" >> README.md
(base) alfrin@ApitA:~/nginx-hosting$ git init
Reinitialized existing Git repository in /home/alfrin/nginx-hosting/.git/
(base) alfrin@ApitA:~/nginx-hosting$ git add README.md
(base) alfrin@ApitA:~/nginx-hosting$ git commit -m "first commit"
On branch main
nothing to commit, working tree clean
(base) alfrin@ApitA:~/nginx-hosting$ git branch -M main
(base) alfrin@ApitA:~/nginx-hosting$ git remote add origin https://github.com/apitio/IT354.git
(base) alfrin@ApitA:~/nginx-hosting$ git push -u origin main
Username for 'https://github.com': alfrin.saldanha@outlook.com
Password for 'https://github.com': alfrin.saldanha@outlook.com@github.com':
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 8 threads
Compressing objects: 100% (26/26), done.
Writing objects: 100% (31/31), 7.98 MiB | 1.43 MiB/s, done.
Total 31 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/apitio/IT354.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
(base) alfrin@ApitA:~/nginx-hosting$
```

Github repository screenshot:

