Name: Sarah Aldrees

ID: 201363

Q1:

Command: docker pull sebp/lighthttpd

Screenshot:

```
Last login: Wed Nov 16 13:00:51 on ttys001
/dev/fd/12:18: command not found: compdef
(base) sarahaldrees@Sarahs-MacBook-Pro ~ % docker pull sebp/lighttpd
Using default tag: latest
latest: Pulling from sebp/lighttpd
b3c13&eddcbf: Pull complete
61f90cb7c4b0: Pull complete
7415d89e9a3b: Pull complete
e2617643d879: Pull complete
Digest: sha256:43d2a1c6d6a2ef85cc1914daa7dbb16776b2ec8bd0e0e7b824caa9bc5079773c
Status: Downloaded newer image for sebp/lighttpd:latest
docker.io/sebp/lighttpd:latest
```

Command: docker image tag 6327821a201f saldrees/sarah-201363:latest

Screenshot:

Jercensilot.				
• • •			iii sara	ah201363 — -zsh — 160×42
(base) sarahaldrees@Sarahs-MacBoo	ok-Pro ~ %	docker images		
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
httpd	latest	70f5715e0942	28 hours ago	139MB
ubuntu	latest	3c2df5585507	13 days ago	69.2MB
bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/se443-first-repository	1.0	f7184ea063ac	2 weeks ago	257MB
nginx	latest	30d2ef10a9fc	3 weeks ago	135MB
alpine/git	latest	ab1b179f0e50	3 weeks ago	43.4MB
sebp/lighttpd	latest	6327821a201f	4 months ago	9.02MB
docker/getting-started	latest	157095baba98	7 months ago	27.4MB
hello-world	latest	46331d942d63	8 months ago	9.14kB
(base) sarahaldrees@Sarahs-MacBoo				
				epository/tag: invalid reference format: repository name must be lowercase
(base) sarahaldrees@Sarahs-MacBoo			ag 6327821a201f	saldrees/sarah-201363:latest
(base) sarahaldrees@Sarahs-MacBoo	ok-Pro ~ %			
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
httpd	latest	70f5715e0942	28 hours ago	139MB
ubuntu	latest	3c2df5585507	13 days ago	69.2MB
bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/se443-first-repository	1.0	f7184ea063ac	2 weeks ago	257MB
nginx	latest	30d2ef10a9fc	3 weeks ago	135MB
alpine/git	latest	ab1b179f0e50	3 weeks ago	43.4MB
saldrees/sarah-201363	latest	6327821a201f	4 months ago	9.02MB
sebp/lighttpd	latest	6327821a201f	4 months ago	9.02MB
docker/getting-started	latest	157095baba98	7 months ago	27.4MB
hello-world	latest	46331d942d63	8 months ago	9.14kB

Q2:

Command: mkdir sarah201363

Screenshot:

(base) sarahaldrees@Sarahs-MacBook-Pro ~ % mkdir sarah201363

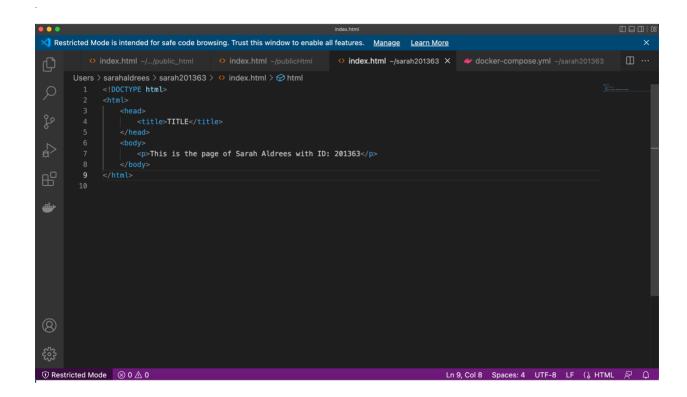
Q3:

Command: mkdir sarah201363

echo "" > sarah201363/index.html

Screenshot:

```
(base) sarahaldrees@Sarahs-MacBook-Pro ~ % mkdir sarah201363
[(base) sarahaldrees@Sarahs-MacBook-Pro ~ % echo "" > sarah201363/index.html
```



Q4:

Command: docker run --name web_serverss -d -p 8008:80 -v /Users/sarahaldrees/sarah201363:/usr/share/nginx/html/ nginxScreenshot:



Q5:

a) Command: docker images -a

Screenshot:

(base) sarahaldrees@Sarahs-MacBo	ok-Pro ~ %	docker images	-a	
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
httpd	latest	70f5715e0942	28 hours ago	139MB
ubuntu	latest	3c2df5585507	13 days ago	69.2MB
saldrees/se443-first-repository	1.0	f7184ea063ac	2 weeks ago	257MB
bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
nginx	latest	30d2ef10a9fc	3 weeks ago	135MB
alpine/git	latest	ab1b179f0e50	3 weeks ago	43.4MB
saldrees/sarah-201363	latest	6327821a201f	4 months ago	9.02MB
sebp/lighttpd	latest	6327821a201f	4 months ago	9.02MB
docker/getting-started	latest	157095baba98	7 months ago	27.4MB
hello-world	latest	46331d942d63	8 months ago	9.14kB

b) Command: docker images

Screenshot:

(base) sarahaldrees@Sarahs-MacBo	ok-Pro ~ %	6 docker images		
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
httpd	latest	70f5715e0942	28 hours ago	139MB
ubuntu	latest	3c2df5585507	13 days ago	69.2MB
bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/bulletinboard	1.0	f7184ea063ac	2 weeks ago	257MB
saldrees/se443-first-repository	1.0	f7184ea063ac	2 weeks ago	257MB
nginx	latest	30d2ef10a9fc	3 weeks ago	135MB
alpine/git	latest	ab1b179f0e50	3 weeks ago	43.4MB
saldrees/sarah-201363	latest	6327821a201f	4 months ago	9.02MB
sebp/lighttpd	latest	6327821a201f	4 months ago	9.02MB
docker/getting-started	latest	157095baba98	7 months ago	27.4MB
hello-world	latest	46331d942d63	8 months ago	9.14kB

c) Command: docker ps (running)

Screenshot:

(base) sarahaldrees@Sarahs-MacBook-Pro ~ % docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3b98e937dcbf nginx "/docker-entrypoint..." 16 hours ago Up 16 hours 0.0.0.0:8080->80/tcp web_servedr

d) Command: docker ps -a(running & not running)

Screenshot:

(base) sarahaldrees@Sarahs-MacBook-Pro ~ % docker ps -a							
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES	
55fd002a89d0	saldrees/sarah-201363:latest	"start.sh"	10 minutes ago	Exited (255) 10 minutes ago		sar	
3b98e937dcbf	nginx	"/docker-entrypoint"	16 hours ago	Up 16 hours	0.0.0.0:8080->80/tcp	web_servedr	
0331a0688d8a	nginx	"/docker-entrypoint"	16 hours ago	Exited (0) 16 hours ago		web_servser	
94210d367f77	httpd:latest	"httpd-foreground"	16 hours ago	Exited (0) 16 hours ago		practice_web.1.iy	
7px08qp0y8jpdk	7px08qp0y8jpdkulimxi66a						
eeeb325b8746	httpd:latest	"httpd-foreground"	16 hours ago	Exited (0) 16 hours ago		practice_web.5.r3	
	lsqkgi36r39fqh665r35nz1						
bc1dd45a21e9	httpd:latest	"httpd-foreground"	16 hours ago	Exited (0) 16 hours ago		practice_web.2.k1	
trllrkwntjBy2c44amnp3y3							
28e48c3ea1d7	httpd:latest	"httpd-foreground"	16 hours ago	Exited (0) 16 hours ago		practice_web.4.hm	
86josijjc0o4c0bs68lscpr							
106144c423a8	httpd:latest	"httpd-foreground"	16 hours ago	Exited (0) 16 hours ago		practice_web.3.h0	
q3m7zkl0of27op5yom41d88							
811c1f63a6bf	ubuntu	"bash"	2 days ago	Exited (129) 2 days ago		modest_lehmann	
e51bf28ce69b	nginx	"/docker-entrypoint"	6 days ago	Exited (255) 23 hours ago	0.0.0.0:8080->80/tcp	web_server	
56b08fe8f1c8	nginx	"/docker-entrypoint"	9 days ago	Exited (255) 23 hours ago	80/tcp	my_nginx	
f507237e49b2	bulletinboard:1.0	"docker-entrypoint.s"	2 weeks ago	Exited (255) 13 days ago	0.0.0.0:8000->8080/tcp	bb	
77aafceb7019	hello-world	"/hello"	3 weeks ago	Exited (0) 3 weeks ago		peaceful_swartz	
d03a29db6bef	docker/getting-started	"/docker-entrypoint"	3 weeks ago	Exited (255) 2 weeks ago	0.0.0.0:80->80/tcp	jovial shockley	

Q6:

Command: docker kill 3b98e937dcbf

Screenshot:

[(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker kill 3b98e937dcbf 3b98e937dcbf

Q7:

Command: docker rm 3b98e937dcbf

Screenshot:

[(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker rm 3b98e937dcbf
3b98e937dcbf

Q8:

Command: docker swarm init

 $docker\ stack\ deploy\ -c\ docker-compose.yml\ midterm2$

docker service Is

```
• • •
                                                                                                                                                               sarah201363 — -zsh — 138×21
 : non-zero exit (255)"
(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker container ls -q
ae675af7ada0
3b98e937dcbf
(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker swarm leave --force
 Node left the swarm.
(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker swarm init
Swarm initialized: current node (van2fe8i1vu3fj8doa5shpoj2) is now a manager.
To add a worker to this swarm, run the following command:
           \verb|docker swarm join -- token SWMTKN-1-32820jga5pk949bcph3qkyd0p1ovmn0ekxo3xnx7wvh42x7g24-bs0oo5axsh73cx90x6evvcuti 192.168.65.3:2377 | token swarm join -- t
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker stack deploy -c docker-compose.yml midterm2
Creating network midterm2 webnet
Creating service midterm2_web
(base) sarahaldrees@Sarahs-MacBook-Pro sarah201363 % docker service ls
                                         NAME
                                                                                   MODE
                                                                                                                         REPLICAS IMAGE
                                                                                                                                                                                                                                               PORTS
19kdsoe3dexh midterm2_web replicated 5/5
                                                                                                                                                       saldrees/sarah-201363:latest *:8008->80/tcp
```

Q9:

Command: python3 mqtt_sub.py python3 mqtt_pub.py

Screenshot:

