

Exercises 1.1

Creating three containers in detached mode:

```
PS C:\Users\sidr\Documents> docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 92b11f67642b 5 weeks ago 187MB
PS C:\Users\sidr\Documents> docker container run -d nginx
6358b63ac78ee4b2bec3e571646156f2d4d0f04b7f6254ae458b394ab3c48bfa
PS C:\Users\sidr\Documents> docker container run -d nginx
5fc0033e0130a0e6f9f94e1eaa50e16c7e20b96089eb10b6b83c137e88cd7181
PS C:\Users\sidr\Documents> docker container run -d nginx
a6f746e8ea8145d8a04438b9f0d1eba2a2f89cd902796f2616326576ab49210e
PS C:\Users\sidr\Documents>
```

Stopping two containers and leaving one to keep running:

```
00e5f0481f78cf761558b75ab4b6306b55fe84642364ff38ad5058aed7859a93
PS C:\Users\sidr\Documents> docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a6f746e8ea81 nginx "/docker-entrypoint..." 2 minutes ago Up 2 minutes 80/tcp vibrant_moser
5fc0033e0130 nginx "/docker-entrypoint..." 2 minutes ago Up 2 minutes 80/tcp funny_golick
6358b63ac78e nginx "/docker-entrypoint..." 2 minutes ago Up 2 minutes 80/tcp pedantic_shannon
PS C:\Users\sidr\Documents> docker container stop vibrant_moser
vibrant_moser
PS C:\Users\sidr\Documents> docker container stop funny_golick
funny_golick
```

Output for docker ps -a:

```
PS C:\Users\sidr\Documents> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a6f746e8ea81 nginx "/docker-entrypoint..." 3 minutes ago Exited (0) About a minute ago vibrant_moser
5fc0033e0130 nginx "/docker-entrypoint..." 4 minutes ago Exited (0) About a minute ago funny_golick
6358b63ac78e nginx "/docker-entrypoint..." 4 minutes ago Up 4 minutes 80/tcp pedantic_shannon
PS C:\Users\sidr\Documents>
```

Output for docker image ls:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\sidr\Documents> docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 92b11f67642b 5 weeks ago 187MB
PS C:\Users\sidr\Documents>
```

Exercises 1.2

Running docker ps -a and docker image ls:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\sldrk\Documents> docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS              PORTS          NAMES
a6f746e8ea81   nginx     "/docker-entrypoint...." 6 minutes ago  Exited (0) 3 minutes ago
5fc0033e0130   nginx     "/docker-entrypoint...." 6 minutes ago  Exited (0) 3 minutes ago
6358b63ac78e   nginx     "/docker-entrypoint...." 6 minutes ago  Up 6 minutes       80/tcp         pedantic_shannon

PS C:\Users\sldrk\Documents> docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         latest   92b11f67642b   5 weeks ago    187MB

PS C:\Users\sldrk\Documents>
```

Cleaning the Docker daemon by removing all images and containers.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\sldrk\Documents> docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
a6f746e8ea8145d8a04438b9f0d1eba2a2f89cd902796f2616326576ab49210e
5fc0033e0130a0e6f9f94e1eaa50e16c7e20b96089eb10b6b83c137e88cd7181

Total reclaimed space: 2.186kB
PS C:\Users\sldrk\Documents> docker container ls
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS              PORTS          NAMES
6358b63ac78e   nginx     "/docker-entrypoint...." 7 minutes ago  Up 7 minutes       80/tcp         pedantic_shannon
PS C:\Users\sldrk\Documents> docker container stop pedantic_shannon
pedantic_shannon
PS C:\Users\sldrk\Documents> docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
6358b63ac78e4b2bec3e571646156f2d4d0f04b7f6254ae458b394ab3c48bfa

Total reclaimed space: 1.093kB
PS C:\Users\sldrk\Documents> docker image prune
WARNING! This will remove all dangling images.
Are you sure you want to continue? [y/N] y
Total reclaimed space: 0B
```

removing the downloaded nginx image and output for docker ps -a and docker image ls

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\sldrk\Documents> docker image rm nginx
Untagged: nginx:latest
Untagged: nginx@sha256:6db391d1c0cfb30588ba0bf72ea999404f2764febf0f1f196acd5867ac7efa7e
Deleted: sha256:92b11f67642b62bbb98e7e49169c346b30e20cd3c1c034d31087e46924b9312e
Deleted: sha256:d9e826dbb4b3c5770fe92638baa8c6614f210d782a5d021a123fe9fa1f92c23d
Deleted: sha256:2a75285e888884bed4d630896c86ecd71739c6e82669e21ad7a050f33c9ac48d
Deleted: sha256:32bfe3f040358ab8f9872a63d4ddefdc68f35d991ca10a812cbac5912ae9f97b
Deleted: sha256:1330486eb62ea7e96f384961b77b0fc85f5d4422e761114ef3a72e7cb89751a4
Deleted: sha256:a375372209a0f2b2c697a52cce46bc41b495bf86184ae83dd5146e20c22078eb
Deleted: sha256:450787ca55caa59d0288de9cf36fc6b77d1b208a77eb837ec3d25b385f99cafb
Deleted: sha256:a483da8ab3e941547542718cacd3258c6c705a63e94183c837c9bc44eb608999

PS C:\Users\sldrk\Documents> docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS              PORTS          NAMES
PS C:\Users\sldrk\Documents> docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
PS C:\Users\sldrk\Documents>
```