

Docker

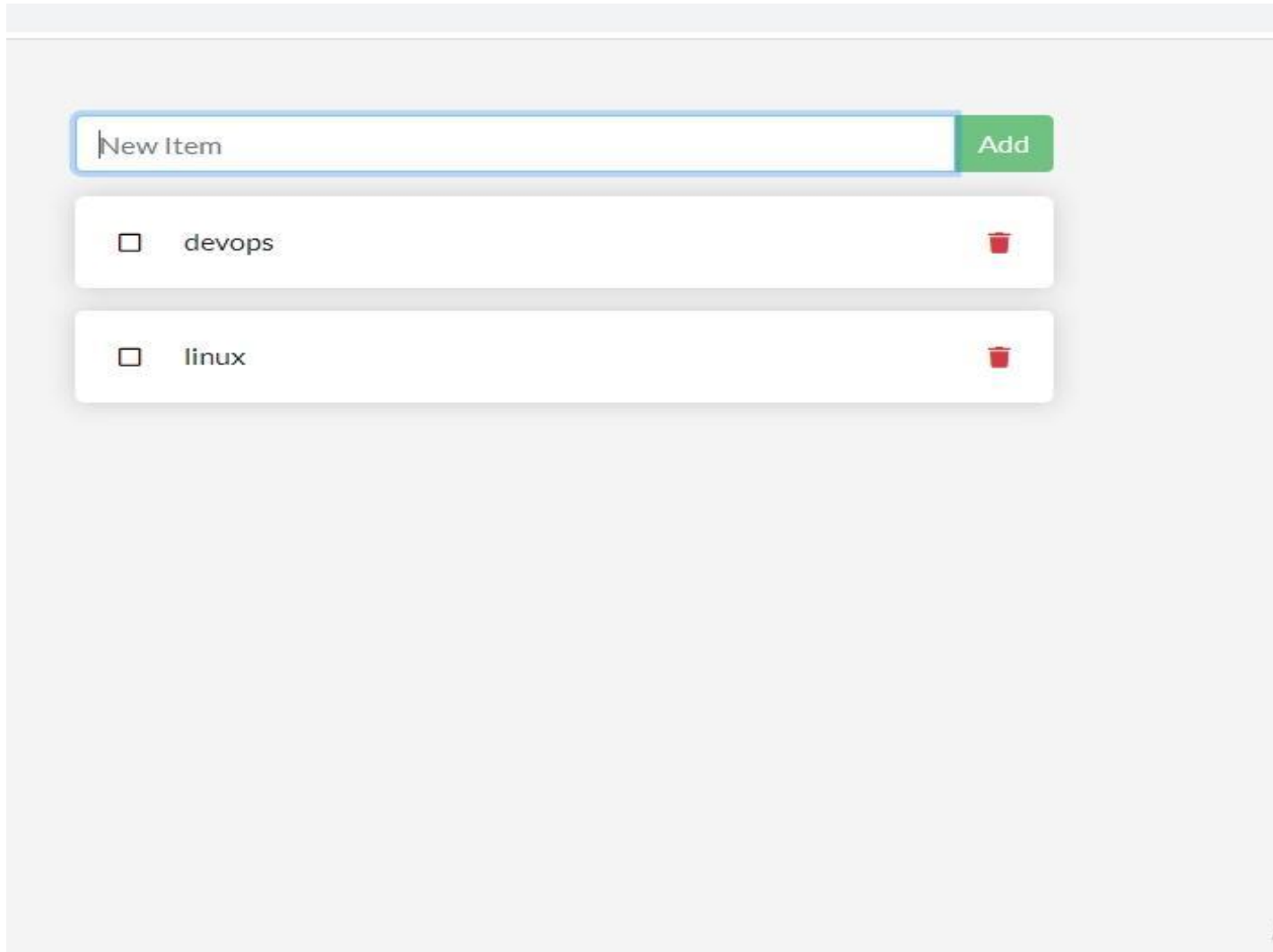
Image creation and run container

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\labim\Downloads\getting-started-master\getting-started-master> cd app
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker build -t getting-started .
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 214B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> resolve image config for docker.io/docker/dockerfile:1
=> CACHED docker-image://docker.io/docker/dockerfile:1@sha256:42399d4635eddd7a9b8a24be879d2f9a930d0ed040a61324cfd59ef1357b3b2
failed to solve with frontend dockerfile.v0: failed to solve with frontend gateway.v0: frontend grpc server closed unexpectedly
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker run -dp 3000:3000 getting-started
Unable to find image 'getting-started:latest' locally
access to the resource is denied.
See 'docker run --help'.
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker login
Authenticating with existing credentials...
Login Succeeded



Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker run -dp 3000:3000 getting-started
Unable to find image 'getting-started:latest' locally
docker: Error response from daemon: pull access denied for getting-started, repository does not exist or may require 'docker login': denied: requested
access to the resource is denied.
See 'docker run --help'.
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker run -dp 3000:3000 labeeblabi/getting-started
17cf72545cf8b2cdb7dec5eaf36fb8b007fe23fcb1b4dbeccfbed8f608e1437d
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> 
```

Output of the container



A screenshot of a web application interface. At the top, there is a light gray header bar. Below it, a form area contains a text input field with the placeholder text "New Item" and a green "Add" button to its right. Below the input field, there is a list of two items, each in a white box with a light gray border. The first item is "devops" and the second is "linux". Each item has a small red trash icon to its right. The background of the form area is a light gray gradient.

New Item Add

- ☐ devops 
- ☐ linux 

List all image and containers

```
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker run -dp 3000:3000 labeeblabi/getting-started
17cf72545cf8b2cdb7dec5eaf36fb8b007fe23fcb1b4dbeccfbbed8f608e1437d
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
labeeblabi/getting-started	latest	cc455c80469c	8 days ago	454MB
labeeblabi/getting-started	<none>	07734fdc25f3	11 days ago	403MB
redis	latest	7614ae9453d1	2 weeks ago	113MB
mysql	5.7	c20987f18b13	2 weeks ago	448MB
node	12-alpine	106bb94759ad	2 weeks ago	89.5MB
docker/getting-started	latest	26d80cd96d69	5 weeks ago	28.5MB
nicolaka/netshoot	latest	f4c8dceca780	7 weeks ago	432MB
docker/desktop-kubernetes	kubernetes-v1.22.4-cni-v0.8.5-critools-v1.17.0-debian	493a106d3678	7 weeks ago	294MB
k8s.gcr.io/kube-apiserver	v1.22.4	8a5cc299272d	7 weeks ago	128MB
k8s.gcr.io/kube-scheduler	v1.22.4	721ba97f54a6	7 weeks ago	52.7MB
k8s.gcr.io/kube-controller-manager	v1.22.4	0ce02f92d3e4	7 weeks ago	122MB
k8s.gcr.io/kube-proxy	v1.22.4	edeff87e4802	7 weeks ago	104MB
ubuntu	latest	ba6acccedd29	2 months ago	72.8MB
k8s.gcr.io/etcd	3.5.0-0	004811815584	6 months ago	295MB
k8s.gcr.io/coredns/coredns	v1.8.4	8d147537fb7d	7 months ago	47.6MB
docker/desktop-vpnkit-controller	v2.0	8c2c38aa676e	8 months ago	21MB
docker/desktop-storage-provisioner	v2.0	99f89471f470	8 months ago	41.9MB
k8s.gcr.io/pause	3.5	ed210e3e4a5b	9 months ago	683kB
alpine	3.5	f80194ae2e0c	2 years ago	4MB

```
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker container ls
docker: 'container' is not a docker command.
See 'docker --help'
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app> docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
17cf72545cf8	labeeblabi/getting-started	"docker-entrypoint.s..."	6 minutes ago	Up 5 minutes	0.0.0.0:3000->3000/tcp	sweet_aryabhata
fb0a4c867244	labeeblabi/getting-started	"docker-entrypoint.s..."	4 hours ago	Up 4 hours		Wsl site bb-demo-79d488
f45c-65c7c_default_58a22d72-bd46-4d73-9350-5b93b143a2aa_0						

```
PS C:\Users\labim\Downloads\getting-started-master\getting-started-master\app>
```

Activate Windows
Go to Settings to activate Windows.

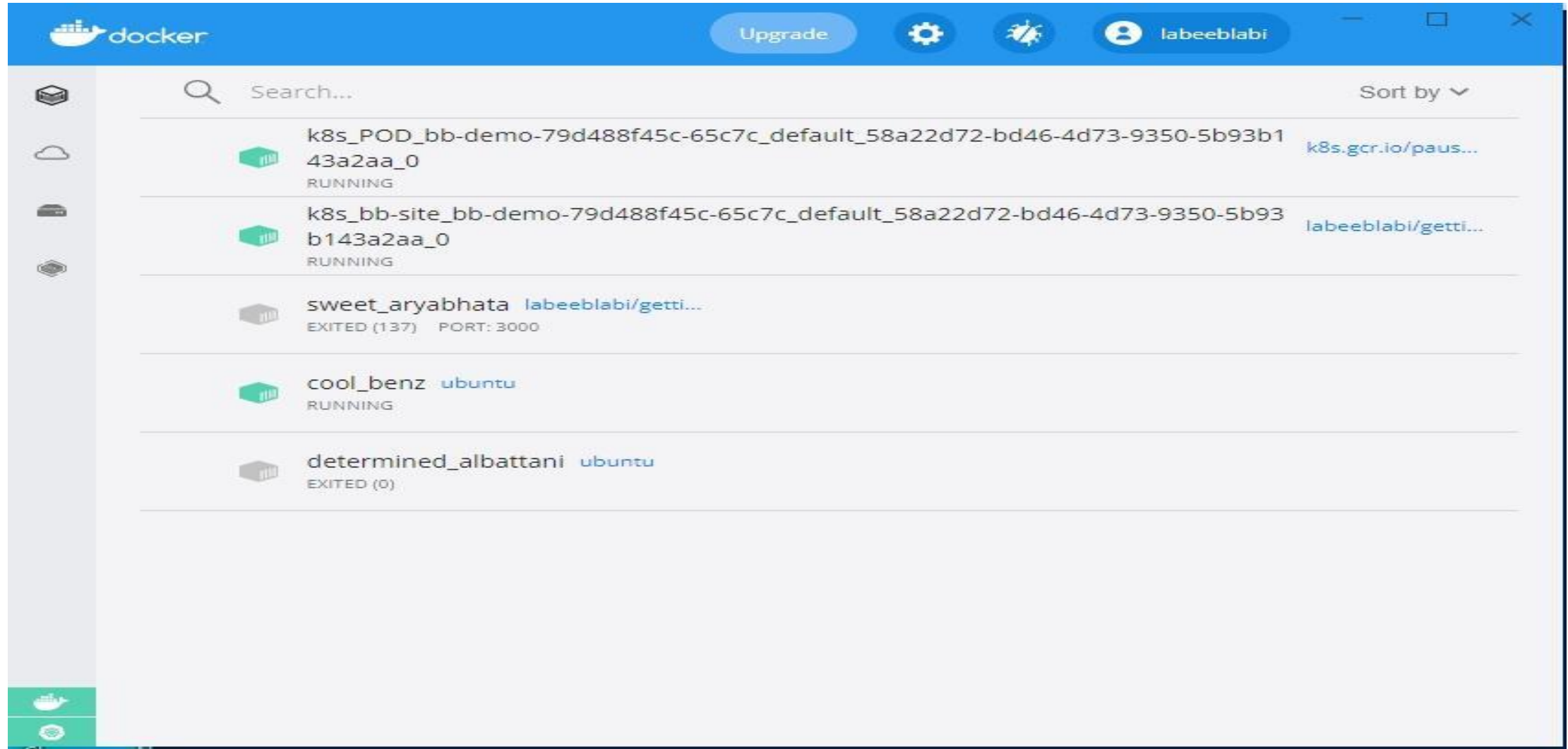
Creating 2 containers and check

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\labim> docker run -d ubuntu bash -c "shuf -i 1-10000 -n 1 -o /data.txt && tail -f /dev/null"
4bafc14c6f49d86ee162225ac91df054c411c2fd438942e8701e16ddd235fa83
PS C:\Users\labim> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS   NAMES
4bafc14c6f49   ubuntu        "bash -c 'shuf -i 1-..." 2 minutes ago  Up About a minute           cool_
benz
fb0a4c867244   labeeblabi/getting-started  "docker-entrypoint.s..." 19 hours ago  Up 19 hours           k8s_b
b-site_bb-demo-79d488f45c-65c7c_default_58a22d72-bd46-4d73-9350-5b93b143a2aa_0
PS C:\Users\labim> docker exec 4bafc14c6f49 cat /data.txt
5627
PS C:\Users\labim> docker run -it ubuntu ls
bin    dev    home  lib32  libx32  mnt    proc   run    srv    tmp    var
boot  etc    lib   lib64  media   opt    root   sbin   sys    usr
PS C:\Users\labim>
```



In docker dashboard



Share image from docker hub

09:24:09

CLOSE SESSION

Instances  

+ ADD NEW INSTANCE

192.168.0.8
node1


c7cgbbfn_c7cgbdnnjsv000atco10


IP
192.168.0.8

OPEN PORT 3000

Memory
15.99% (639.7MiB / 3.906GiB)

CPU
0.95%

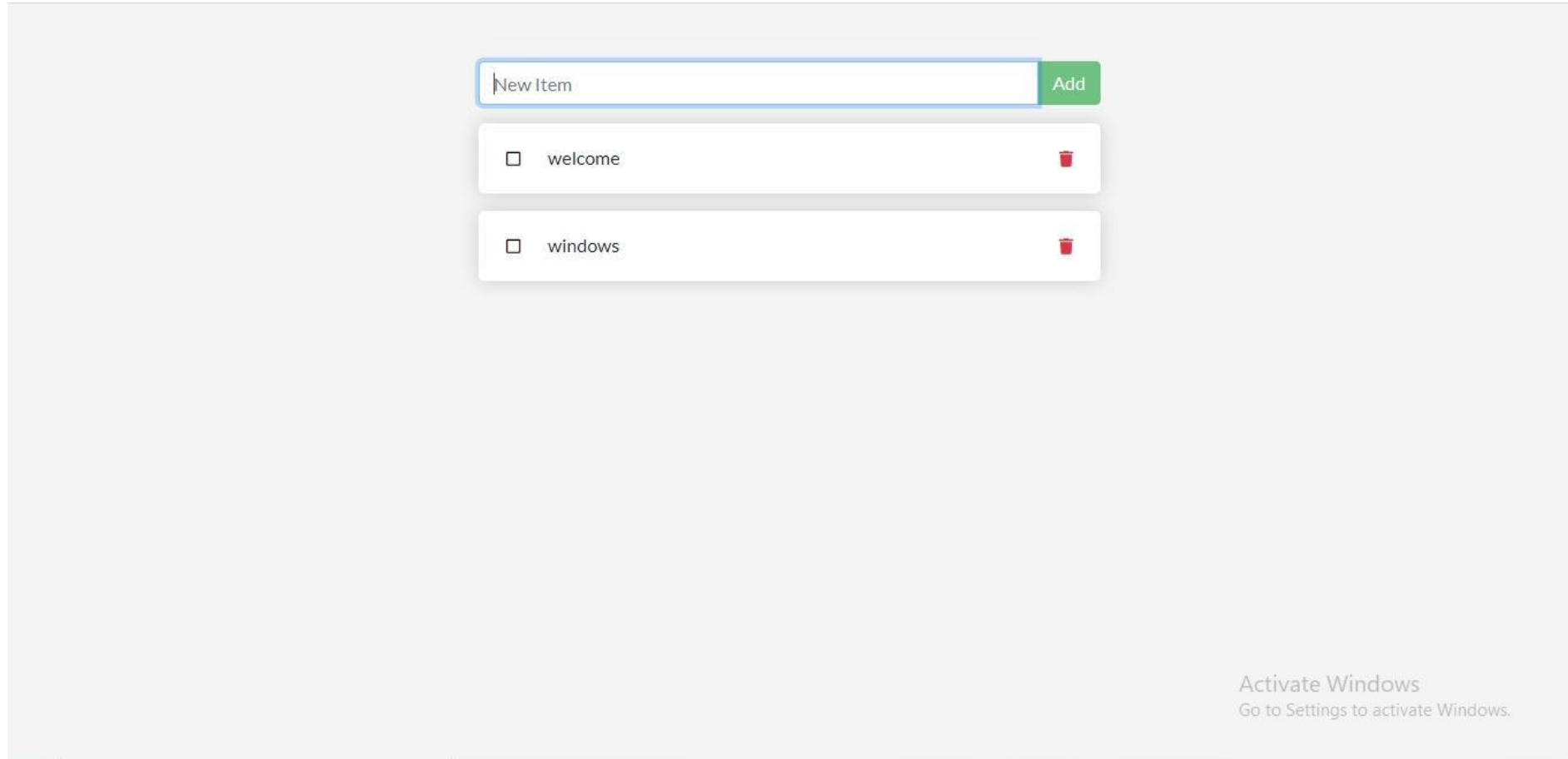
SSH
ssh ip172-18-0-13-c7cgbbfnjsv000atco0g@direct.labs.play- 

DELETE  EDITOR

```
# The PWD team.
#####
[node1] (local) root@192.168.0.8 ~
$ docker run -dp 3000:3000 labeeblabi/getting-started
Unable to find image 'labeeblabi/getting-started:latest' locally
latest: Pulling from labeeblabi/getting-started
97518928ae5f: Pull complete
58ab2943ea3a: Pull complete
da5d3df7401d: Pull complete
7384cfecbf77: Pull complete
721846eb83d8: Pull complete
ebf771a3d253: Pull complete
0456fabb4d32: Pull complete
98649bf0d7ef: Pull complete
Digest: sha256:0cf8d53f71657a50477e390459f3c4f82c03e0793f3f26dc0af25206631faa6b
Status: Downloaded newer image for labeeblabi/getting-started:latest
a3b087c53ca3ea58f5692958b83b4406387fb7739b8f3b1a0253e8405a5dcb62
[node1] (local) root@192.168.0.8 ~
$
```

Activate Windows
Go to Settings to activate Windows.

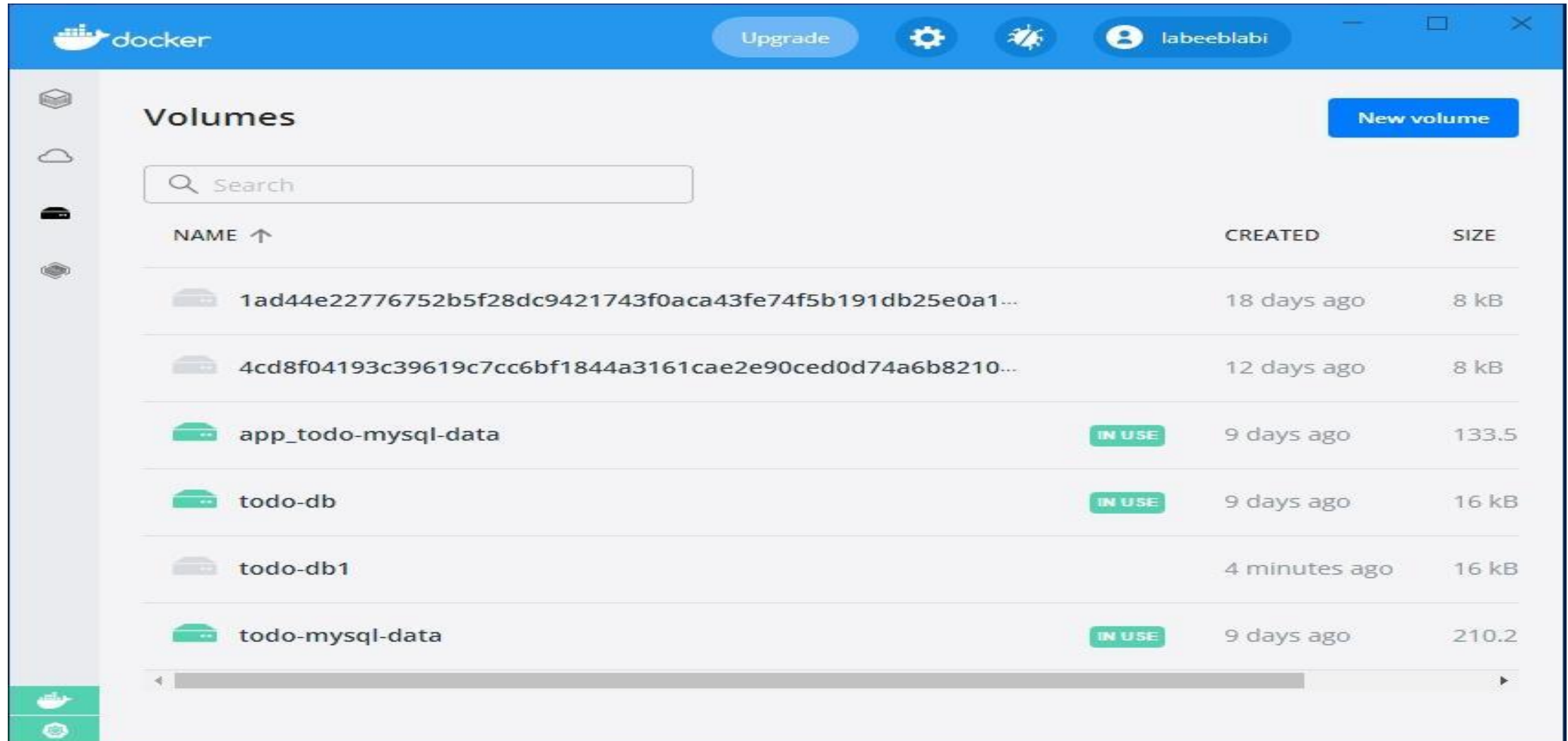
Shared container run in localhost



Volume created and cross check

```
Windows PowerShell
Unable to find image 'getting-started:latest' locally
docker: Error response from daemon: Get "https://registry-1.docker.io/v2/": net/http: request canceled while waiting for connection (Client.Timeout exceeded while awaiting headers).
See 'docker run --help'.
PS C:\Users\labim> docker run -dp 3000:3000 -v todo-db1:/etc/todos labeeblabi/getting-started
23b1db8297bc0af9e02d3d9a90e73a29deee3eed39ef56b6be1be9d5864cfb59
PS C:\Users\labim> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
23b1db8297bc   labeeblabi/getting-started  "docker-entrypoint.s..." About a minute ago Up About a minute 0.0.0.0:3000->3000/tcp    pedantic_williamson
4bafc14c6f49   ubuntu               "bash -c 'shuf -i 1-..." 9 minutes ago  Up 7 minutes                               cool_benz
fb0a4c867244   labeeblabi/getting-started  "docker-entrypoint.s..." 19 hours ago   Up 19 hours                               k8s_bb-site_bb-demo-79d488f45c-65c7c_default_58a22d72-bd4
6-4d73-9350-5b93b143a2aa_0
PS C:\Users\labim> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
23b1db8297bc   labeeblabi/getting-started  "docker-entrypoint.s..." About a minute ago Up About a minute 0.0.0.0:3000->3000/tcp    pedantic_williamson
4bafc14c6f49   ubuntu               "bash -c 'shuf -i 1-..." 9 minutes ago   Up 8 minutes                               cool_benz
fb0a4c867244   labeeblabi/getting-started  "docker-entrypoint.s..." 19 hours ago   Up 19 hours                               k8s_bb-site_bb-demo-79d488f45c-65c7c_default_58a22d72-bd4
6-4d73-9350-5b93b143a2aa_0
PS C:\Users\labim> docker rm -f 23b1db8297bc
23b1db8297bc
PS C:\Users\labim> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
4bafc14c6f49   ubuntu               "bash -c 'shuf -i 1-..." 11 minutes ago Up 10 minutes                               cool_benz
fb0a4c867244   labeeblabi/getting-started  "docker-entrypoint.s..." 19 hours ago   Up 19 hours                               k8s_bb-site_bb-demo-79d488f45c-65c7c_default_58a22d72-bd46-4d73-9350-5b93b143a2aa_0
PS C:\Users\labim> docker run -dp 3000:3000 -v todo-db1:/etc/todos labeeblabi/getting-started
41bc3d665963545902aaf92b5a78ba765f101e0b103d501e9bbf3a41277889d9
PS C:\Users\labim>
```

In docker dashboard



The screenshot shows the Docker Dashboard interface. At the top, there's a blue header with the Docker logo, an 'Upgrade' button, and icons for settings, notifications, and the user profile 'labeeblabi'. The main content area is titled 'Volumes' and features a 'New volume' button in the top right. Below the title is a search bar. A table lists the existing volumes, with columns for 'NAME', 'CREATED', and 'SIZE'. The table contains six entries: two anonymous volumes (indicated by a disk icon) and four named volumes (indicated by a container icon). The named volumes 'app_todo-mysql-data', 'todo-db', and 'todo-mysql-data' are marked as 'IN USE' with a green status tag. A scrollbar is visible at the bottom of the table.

NAME	CREATED	SIZE
1ad44e22776752b5f28dc9421743f0aca43fe74f5b191db25e0a1...	18 days ago	8 kB
4cd8f04193c39619c7cc6bf1844a3161cae2e90ced0d74a6b8210...	12 days ago	8 kB
app_todo-mysql-data	9 days ago	133.5
todo-db	9 days ago	16 kB
todo-db1	4 minutes ago	16 kB
todo-mysql-data	9 days ago	210.2