

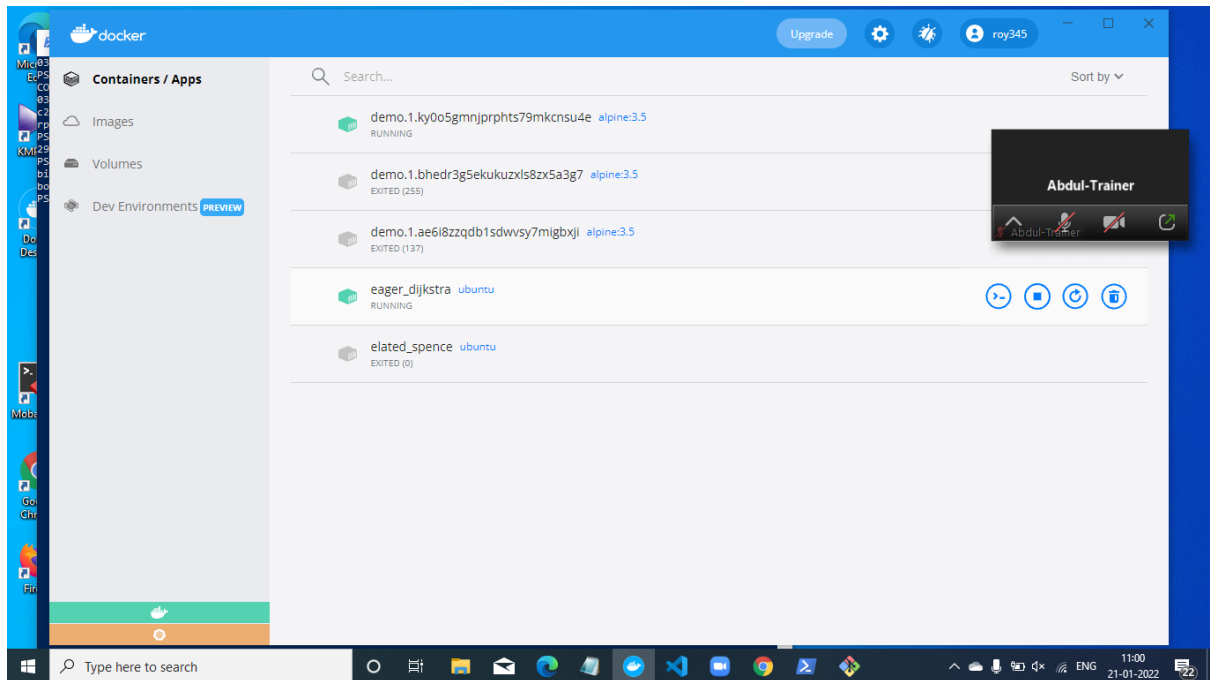
```

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

PS C:\Users\hnp> cd getting-started-master
PS C:\Users\hnp\getting-started-master> cd app
PS C:\Users\hnp\getting-started-master\app> docker build -t getting-started .
[+] Building 1.9s (2/2) FINISHED
    #0 FROM docker.io/library/ubuntu:18.04.2@sha256:8395c1e204e07063453784d102b17666793f39722e409c629009941484b0153
    #1 RUN apt-get update && apt-get install -y curl
    #2 COPY . /
    #3 RUN curl -sS https://raw.githubusercontent.com/docker/docker/master/contrib/buildkit/mtls.sh | sh && rm -f /dev/null
failed to solve with frontend dockerfile.v0: failed to read dockerfile: open /var/lib/docker/tmp/buildkit-mount590714476/Dockerfile: no such file or directory
PS C:\Users\hnp\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\hnp\getting-started-master\app> docker run -dp 3000:3000 roy345/getting-started
Unable to find image 'roy345/getting-started:latest' locally
Docker Error response from daemon: manifest for roy345/getting-started:latest not found: manifest unknown: manifest unknown.
See 'docker run --help'.
PS C:\Users\hnp\getting-started-master\app> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED          STATUS          PORTS          NAMES
c2d545a8311c   alpine:3.5           "ping 8.8.8.8"         40 minutes ago   Up 40 minutes   3000/tcp       demo-1.ky05gmjprphts79mkncsu4ePS
PS C:\Users\hnp\getting-started-master\app> docker run -d ubuntu bash -c "shuf -i 1-10000 -n 1 -o /data.txt && tail -f /dev/null"
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
ea3d2f68a99: Pull complete
Digest: sha256:b5a61709a9d4284d68f612e5c48db0499cfad5b69d4ff8224877c57302df9cf
Status: Downloaded newer image for ubuntu:latest
03f3dfcbcd88d37150bf5f8993ddec6f4641d6ed26502d4ada3c356eaff095eb
PS C:\Users\hnp\getting-started-master\app> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED          STATUS          PORTS          NAMES
03f3dfcbcd88   ubuntu              "bash -c 'shuf -i 1-'" About a minute ago   Up 42 seconds   3000/tcp       eager_dijkstra
c2d545a8311c   alpine:3.5           "ping 8.8.8.8"         About an hour ago   Up About an hour   3000/tcp       demo-1.ky05gmjprphts79mkncsu4e
PS C:\Users\hnp\getting-started-master\app> docker exec 03f3dfcbcd88 cat /data.txt
1234
PS C:\Users\hnp\getting-started-master\app> 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\hnp\getting-started-master\app> docker rm -f 03f3dfcbcd88
03f3dfcbcd88
PS C:\Users\hnp\getting-started-master\app> docker volume create todo-db
todo-db
PS C:\Users\hnp\getting-started-master\app> docker run -dp 3000:3000 -v todo-db:/etc/todos 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'.

```



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Select Windows PowerShell
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3001:3000 -v todo-db:/etc/todos 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\hpl\getting-started-master\app> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
c2d545a8311c   alpine:3.5   "ping 8.8.8.8"          About an hour ago   Up About an hour   0.0.0.0:3000->3000/tcp   demo.1.ky0o5gmjprphts79mkcnsu4e
PS C:\Users\hpl\getting-started-master\app> docker volume inspect todo-db
[
  {
    "CreatedAt": "2022-01-20T05:34:03Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/todo-db/_data",
    "Name": "todo-db",
    "Options": {},
    "Scope": "local"
  }
]
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3000:3000 -w /app -v "$(pwd)/app" node:12-alpine sh -c :yarn install && yarn run dev
^C
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3000:3000 -w /app -v "$(pwd)/app" node:12-alpine sh -c "yarn install && yarn run dev"
docker: invalid reference format.
See 'docker run --help'.
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3000:3000 -w /app -v "$(pwd)/app" node:12-alpine sh -c "yarn install && yarn run dev"
Unable to find image 'node:12-alpine' locally
12-alpine: Pulling from library/node
59b1c3509f3: Already exists
86e1b1cfc516: Pull complete
5528a5e72ce: Pull complete
89867c49b9eb: Pull complete
Digest: sha256:c3e7817c8fd124f1597cd66124d247db8e138e8ef311ba085b7104d900129d0b
Status: Downloaded newer image for node:12-alpine
df123b4e5a37: Pull complete
PS C:\Users\hpl\getting-started-master\app> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
df123b4e5a37   node:12-alpine   "docker-entrypoint.s..." 28 seconds ago   Up 16 seconds   0.0.0.0:3000->3000/tcp   priceless_margulis
c2d545a8311c   alpine:3.5       "ping 8.8.8.8"            About an hour ago   Up About an hour   0.0.0.0:3000->3000/tcp   demo.1.ky0o5gmjprphts79mkcnsu4e
PS C:\Users\hpl\getting-started-master\app> docker logs -f df123b4e5a37
yarn install v1.22.17
[1/4] Resolving packages...
warning Resolution field "ansi-regex@5.0.1" is incompatible with requested version "ansi-regex@3.0.0"
warning Resolution field "ansi-regex@5.0.1" is incompatible with requested version "ansi-regex@3.0.0"
warning sqlite3 > node-gyp > tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please upgrade asap.
warning sqlite3 > node-gyp > request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
warning sqlite3 > node-gyp > request > har-validator@5.1.5: this library is no longer supported
warning sqlite3 > node-gyp > request > uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
[2/4] Fetching packages...
[3/4] Linking dependencies...
```

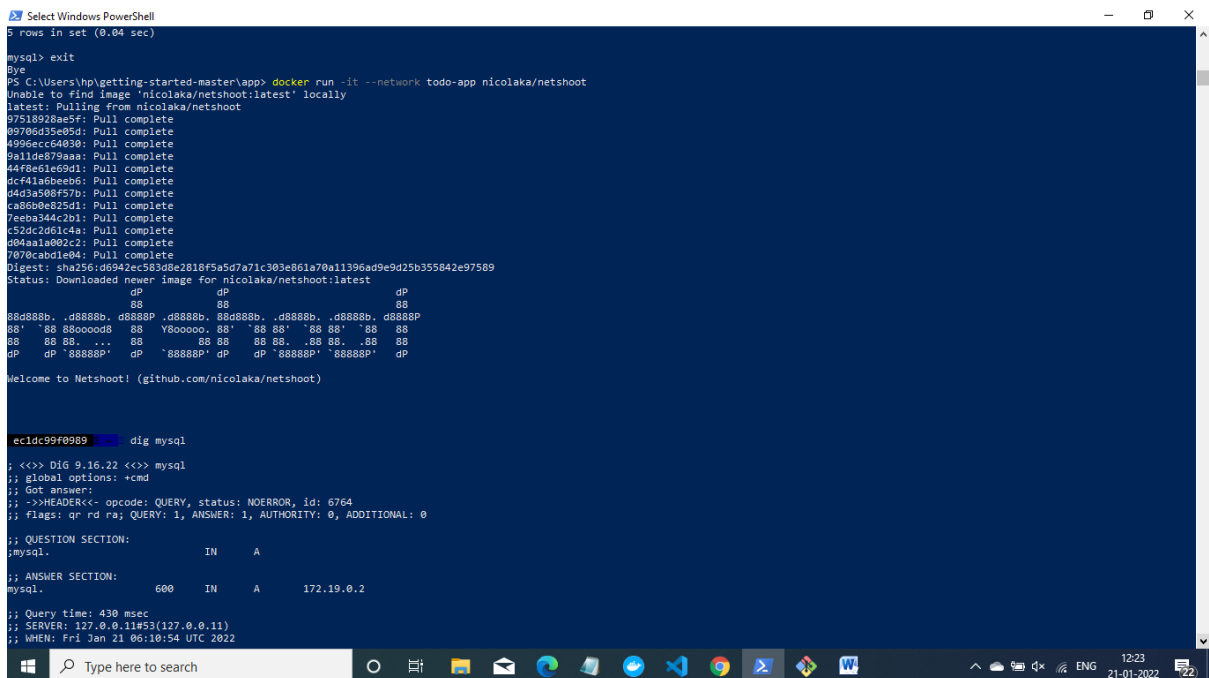
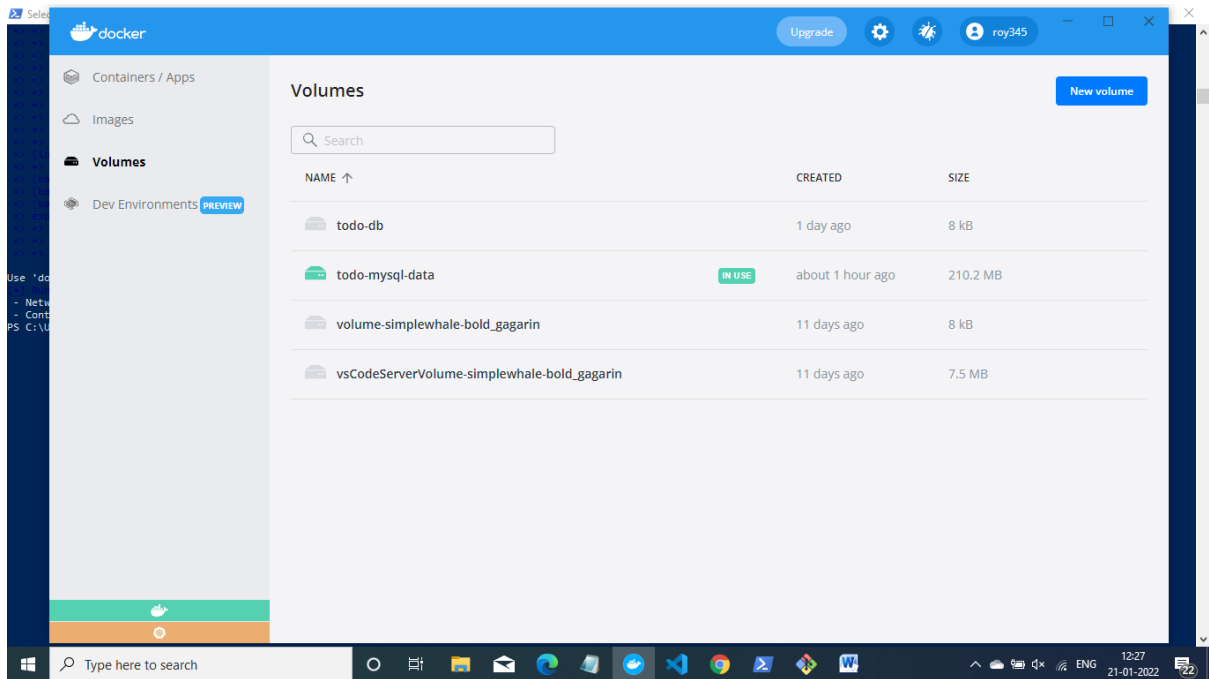
```
Select Windows PowerShell
PS C:\Users\hpl\getting-started-master\app> docker network create todo-app
7c4faa2547fe4c8d1f912926f933e24dc5d18826f157255f803443bf0c4ad04c
PS C:\Users\hpl\getting-started-master\app> docker run -d --network todo-app --network-alias mysql -v todo-mysql-data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=secret -e MYSQL_DATABASE=todos mysql:5.7
Unable to find image 'mysql:5.7' locally
5.7: Pulling from library/mysql
72a69066d2fe: Pull complete
89619dbcd5b36: Pull complete
89da31d6d142: Pull complete
e5c707858ec0: Pull complete
fc41578cbf60: Pull complete
4785d896ef10: Pull complete
7db50cdc93be: Pull complete
2efe6ef3579a: Pull complete
40dc4a5c43a: Pull complete
cd6f90222f59: Pull complete
831e031e9021: Pull complete
Digest: sha256:65d48063e01295d85954bb5dbe2f41f29ebceb57d3d8090ea0c9d201473f2d8b
Status: Downloaded newer image for mysql:5.7
ffa2b7c2db2f8a584edfcd497c44f1990a0b33911c9fd1bd4ffc025de046913c
PS C:\Users\hpl\getting-started-master\app> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
ffa2b7c2db2f   mysql:5.7   "docker-entrypoint.s..." 57 seconds ago   Up 29 seconds   3306/tcp, 33060/tcp   great_lalande
df123b4e5a37   node:12-alpine   "docker-entrypoint.s..." 8 minutes ago   Up 7 minutes   0.0.0.0:3000->3000/tcp   priceless_margulis
c2d545a8311c   alpine:3.5       "ping 8.8.8.8"            About an hour ago   Up About an hour   0.0.0.0:3000->3000/tcp   demo.1.ky0o5gmjprphts79mkcnsu4e
PS C:\Users\hpl\getting-started-master\app> docker exec -it ffa2b7c2db2f mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.37 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| todos |
+-----+
5 rows in set (0.04 sec)
```



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Select Windows PowerShell
ec1dc99f0989 exit
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3000:3000 -w /app -v "$(pwd) /app" --network todo-app -e MYSQL_HOST=mysql -e MYSQL_USER=root -e MYSQL_PASSWORD=secret -e MYSQL_DB=todo
s node: 12-alpine sh -c "yarn install && yarn run dev"
docker: invalid reference format.
See 'docker run --help'.
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3000:3000 -w /app -v "$(pwd) /app" --network todo-app -e MYSQL_HOST=mysql -e MYSQL_USER=root -e MYSQL_PASSWORD=secret -e MYSQL_DB=todo
s node:12-alpine sh -c "yarn install && yarn run dev"
s997983b3bc7383589f8cc6a691f2cd7671c514bde27f6df69e95d12dbd3
docker: Error response from daemon: driver failed programming external connectivity on endpoint funny_greider (b1a333bf288ba0290856fa3ce93c7ceb85042c082a8a6d93f8fff73b252f5167): Bind for 0.0.0.0:3000 failed: port is already allocated.
PS C:\Users\hpl\getting-started-master\app> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
df123d4e5a37   node:12-alpine   "docker-entrypoint.s..." 37 minutes ago Up 37 minutes 0.0.0.0:3000->3000/tcp   priceless_margulis
c2d545a8311c   alpine:3.5       "ping 8.8.8.8"            2 hours ago   Up 2 hours    0.0.0.0:3000->3000/tcp   demo.1.ky0s5gmjprphts79mknscsu4e
PS C:\Users\hpl\getting-started-master\app> docker run -dp 3001:3000 -w /app -v "$(pwd) /app" --network todo-app -e MYSQL_HOST=mysql -e MYSQL_USER=root -e MYSQL_PASSWORD=secret -e MYSQL_DB=todo
s node:12-alpine sh -c "yarn install && yarn run dev"
837ab25bec5aaaf253931128d4b2e3401b9dd7953cea9b8bc7c35710a3893e
PS C:\Users\hpl\getting-started-master\app> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
df123d4e5a37   mysql:5.7     "docker-entrypoint.s..." 33 minutes ago Up 33 minutes 3306/tcp, 33060/tcp        gallant_babbage
df123d4e5a37   node:12-alpine   "docker-entrypoint.s..." 40 minutes ago Up 40 minutes 0.0.0.0:3000->3000/tcp   priceless_margulis
c2d545a8311c   alpine:3.5       "ping 8.8.8.8"            2 hours ago   Up 2 hours    0.0.0.0:3000->3000/tcp   demo.1.ky0s5gmjprphts79mknscsu4e
PS C:\Users\hpl\getting-started-master\app> docker logs 837ab25bec5a
yarn install v1.22.17
[1/4] Resolving packages...
warning Resolution field "ansi-regex@5.0.1" is incompatible with requested version "ansi-regex@^2.0.0"
warning Resolution field "ansi-regex@5.0.1" is incompatible with requested version "ansi-regex@^3.0.0"
success Already up-to-date.
Done in 4.69s.
yarn run v1.22.17
$ node src/index.js
[nodemon] 2.0.13
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting src/index.js
Waiting for mysql:3306.
Connected!
Connected to mysql db at host mysql
listening on port 3000
[+] Building 299.9s (10/10) FINISHED
   0/1 [B] [0%] 0B/1.1MB [0%] 0s [0%]
   1/1 [B] [100%] 1.1MB/1.1MB [100%] 0s [100%]
   2/2 [B] [50%] 0.5MB/1.0MB [50%] 0s [50%]
   3/3 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
   4/4 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
   5/5 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
   6/6 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
   7/7 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
   8/8 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
   9/9 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
  10/10 [B] [100%] 1.0MB/1.0MB [100%] 0s [100%]
```

