

```

root@b869eac738cc: /
lab309b-3@lab309b3-OptiPlex-3020:~$ cd home
bash: cd: home: No such file or directory
lab309b-3@lab309b3-OptiPlex-3020:~$ cd /home
lab309b-3@lab309b3-OptiPlex-3020:/home$ ls
djscoe image lab309b-3 sanish
lab309b-3@lab309b3-OptiPlex-3020:/home$ cd /image
bash: cd: /image: No such file or directory
lab309b-3@lab309b3-OptiPlex-3020:/home$ cd image
lab309b-3@lab309b3-OptiPlex-3020:/home/image$ clear
lab309b-3@lab309b3-OptiPlex-3020:/home/image$ sudo docker ps -l
[sudo] password for lab309b-3:
CONTAINER ID        IMAGE               COMMAND                  CREATED
STATUS            PORTS              NAMES
f51448acae1e       pratikwimage:latest "/bin/bash"             2 minutes ago
Up 2 minutes                               kind_bartik
lab309b-3@lab309b3-OptiPlex-3020:/home/image$ sudo docker commit ^C
lab309b-3@lab309b3-OptiPlex-3020:/home/image$ sudo docker commit f51448acae1e
sha256:40c39b9c834e7b87c31b8600a63468bedced3af3b534cd8eb99e97f68e352386
lab309b-3@lab309b3-OptiPlex-3020:/home/image$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED
<none>              <none>             40c39b9c834e       8 secon
ds ago              175MB
myubuntuimage45     latest             30fda3d0b795       10 days

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root@eb67ec5896d5: /home
lab309b-3@lab309b3-OptiPlex-3020:/home$ sudo su
[sudo] password for lab309b-3:
root@lab309b3-OptiPlex-3020:/home# mkdir image
root@lab309b3-OptiPlex-3020:/home# cd image
root@lab309b3-OptiPlex-3020:/home/image# touch Dockerfile
root@lab309b3-OptiPlex-3020:/home/image# nano Dockerfile
root@lab309b3-OptiPlex-3020:/home/image# docker build -t myubuntuimage
"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage:  docker build [OPTIONS] PATH | URL | - [flags]

Build an image from a Dockerfile
root@lab309b3-OptiPlex-3020:/home/image# docker build myubuntuimage
unable to prepare context: path "myubuntuimage" not found
root@lab309b3-OptiPlex-3020:/home/image# docker build --t image
unknown flag: --t
See 'docker build --help'.
root@lab309b3-OptiPlex-3020:/home/image# docker build -t image
"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage:  docker build [OPTIONS] PATH | URL | - [flags]

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root@eb67ec5896d5: /home
ago      1.85kB
root@lab309b3-OptiPlex-3020:/home/image# docker build -t pratik_image .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM ubuntu
---> 0458a4468cbc
Step 2/3 : RUN apt-get update
---> Using cache
---> ac59b0dc60cd
Step 3/3 : RUN apt-get install wget
---> Running in 3895d16a86b2
Reading package lists...
Building dependency tree...
Reading state information...
The following additional packages will be installed:
  ca-certificates libidn11 libssl1.0.0 openssl
The following NEW packages will be installed:
  ca-certificates libidn11 libssl1.0.0 openssl wget
0 upgraded, 5 newly installed, 0 to remove and 21 not upgraded.
Need to get 2088 kB of archives.
After this operation, 6027 kB of additional disk space will be used.
Do you want to continue? [Y/n] Abort.
The command '/bin/sh -c apt-get install wget' returned a non-zero code: 1
root@lab309b3-OptiPlex-3020:/home/image# nano Dockerfile
root@lab309b3-OptiPlex-3020:/home/image# docker build -t pratikimage .

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root@eb67ec5896d5: /home
~root@lab309b3-OptiPlex-3020:/home/image# nano Dockerfile
1root@lab309b3-OptiPlex-3020:/home/image# docker build -t pratikimage .
1Sending build context to Docker daemon 2.048kB
fStep 1/3 : FROM ubuntu
g1 ---> 0458a4468cbc
-Step 2/3 : RUN apt-get update
6 ---> Using cache
---> ac59b0dc60cd
utStep 3/3 : RUN yum -y install wget
---> Running in 8b35c48074f2
/bin/sh: 1: yum: not found
pThe command '/bin/sh -c yum -y install wget' returned a non-zero code: 127
loroot@lab309b3-OptiPlex-3020:/home/image# nano Dockerfile
troot@lab309b3-OptiPlex-3020:/home/image# docker build -t pratikimage .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM ubuntu
w ---> 0458a4468cbc
TeStep 2/3 : RUN apt-get update
---> Using cache
---> ac59b0dc60cd
Step 3/3 : RUN yum install -y wget
8 ---> Running in 1d4fda6f4d3b
t/bin/sh: 1: yum: not found
tThe command '/bin/sh -c yum install -y wget' returned a non-zero code: 127

```

```

root@eb67ec5896d5: /home
root@lab309b3-OptiPlex-3020:/home/image# nano Dockerfile
root@lab309b3-OptiPlex-3020:/home/image# docker build -t pratikimage .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM ubuntu
----> 0458a4468cbc
Step 2/3 : RUN apt-get update
----> Using cache
----> ac59b0dc60cd
Step 3/3 : Run apt-get install -y wget
----> Using cache
----> 30fda3d0b795
Successfully built 30fda3d0b795
Successfully tagged pratikimage:latest
root@lab309b3-OptiPlex-3020:/home/image# docker build -t pratikwimage .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM ubuntu
----> 0458a4468cbc
Step 2/3 : RUN apt-get update
----> Using cache
----> ac59b0dc60cd
Step 3/3 : Run apt-get install -y wget
----> Using cache
----> 30fda3d0b795
Successfully built 30fda3d0b795

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```

root@eb67ec5896d5: /home
Successfully built 30fda3d0b795
Successfully tagged pratikwimage:latest
root@lab309b3-OptiPlex-3020:/home/image# docker images

```

REPOSITORY	TAG	IMAGE ID	CREATED
myubuntuimage45	latest	30fda3d0b795	10 days
ago		159MB	
myubuntuimage	latest	30fda3d0b795	10 days
ago		159MB	
pooja	latest	30fda3d0b795	10 days
ago		159MB	
pratikimage	latest	30fda3d0b795	10 days
ago		159MB	
pratikwimage	latest	30fda3d0b795	10 days
ago		159MB	
fourfiglet	latest	1470917dfec6	12 days
ago		153MB	
<none>	<none>	20f383ed34e7	12 days
ago		112MB	
nginx-template	latest	4bd1c9e6ebf6	12 days
ago		346MB	
centos	latest	2d194b392dd1	13 days
ago		195MB	
nginx	latest	e548f1a579cf	3 weeks

```

root@f51448acae1e: /
lab309b-3@lab309b3-OptiPlex-3020:/home$ docker run -i -t pratikwimage:latest /bin/bash
root@f51448acae1e:/# apt-get update
Hit:1 http://archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:3 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Get:4 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial-updates/universe Sources [246 kB]
Get:6 http://security.ubuntu.com/ubuntu xenial-security/universe Sources [73.2 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [959 kB]
Get:8 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [591 kB]
Get:9 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [774 kB]
Get:10 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [406 kB]
Get:11 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [18.5 kB]
Get:12 http://archive.ubuntu.com/ubuntu xenial-backports/universe amd64 Packages [7696 B]
Get:13 http://security.ubuntu.com/ubuntu xenial-security/multiverse amd64 Packages [3492 B]
Fetched 3385 kB in 5s (594 kB/s)
Reading package lists... Done
root@f51448acae1e:/# apt-get install curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  krb5-locales libasn1-8-heimdal libcurl3-gnutls libffi6 libgmp10 libgnutls30
  libgssapi-krb5-2 libgssapi3-heimdal libhcrypto4-heimdal libheimbase1-heimdal
  libheimntlm0-heimdal libhogweed4 libhx509-5-heimdal libk5crypto3
  libkeyutils1 libkrb5-26-heimdal libkrb5-3 libkrb5support0 libldap-2.4-2
  libnettle6 libp11-kit0 libroken18-heimdal librtmp1 libsasl2-2
  libsasl2-modules libsasl2-modules-db libsqlite3-0 libtasn1-6
  libwind0-heimdal
Suggested packages:

```

```

root@lab309b3-OptiPlex-3020: /home/lab309b-3/MyDockerImg
root@lab309b3-OptiPlex-3020:/home/lab309b-3/MyDockerImg# docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
8176e34d5d92: Pull complete
5b19c1bdd74b: Pull complete
4e9f6296fa34: Pull complete
Digest: sha256:4771d09578c7c6a65299e110b3ee1c0a2592f5ea2618d23e4ffe7a4cab1ce5de
Status: Downloaded newer image for nginx:latest
root@lab309b3-OptiPlex-3020:/home/lab309b-3/MyDockerImg# docker run --name nginx
-template-base -p 8080:80 -e TERM=xterm -d nginx
1344ed1b07481355e0910cf32d540e60d1ec15661f8575a41949161eb8bf2800
root@lab309b3-OptiPlex-3020:/home/lab309b-3/MyDockerImg# docker images

```

REPOSITORY	SIZE	TAG	IMAGE ID	CREATED
myubuntuimage		latest	e7b658e8af17	13 minutes ago
nginx	159MB	latest	e548f1a579cf	2 weeks ago
wordpress	109MB	latest	ef4787e1820e	3 weeks ago
repository/ubuntu-with-apache	410MB	latest	734b1f2dc5fe	3 weeks ago
wordpress	112MB	<none>	02d7de3efc5a	4 weeks ago
	410MB			


```
root@lab309b3-OptiPlex-3020: /home/lab309b-3/MyDockerImg
root@lab309b3-OptiPlex-3020:/home/lab309b-3/MyDockerImg# docker exec -it 1344ed1b07481355e0910cf32d540e60d1ec15661f8575a41949161eb8bf2800 bash
root@1344ed1b0748:/# apt-get install nano
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package nano
root@1344ed1b0748:/# apt-get update
Get:1 http://security.debian.org stretch/updates InRelease [63.0 kB]
Get:2 http://security.debian.org stretch/updates/main amd64 Packages [424 kB]
Ign:3 http://cdn-fastly.deb.debian.org/debian stretch InRelease
Get:4 http://cdn-fastly.deb.debian.org/debian stretch-updates InRelease [91.0 kB]
Get:5 http://cdn-fastly.deb.debian.org/debian stretch Release [118 kB]
Get:6 http://cdn-fastly.deb.debian.org/debian stretch-updates/main amd64 Packages [8431 B]
Get:7 http://cdn-fastly.deb.debian.org/debian stretch Release.gpg [2434 B]
Get:8 http://cdn-fastly.deb.debian.org/debian stretch/main amd64 Packages [9531 kB]
Fetched 10.2 MB in 1min 20s (127 kB/s)
Reading package lists... Done
root@1344ed1b0748:/# apt-get install php5
Reading package lists... Done
Building dependency tree
```

```
root@lab309b3-OptiPlex-3020: /home/lab309b-3/MyDockerImg
root@1344ed1b0748:/# apt-get install python
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  file libmagic-mgc libmagic1 libpython-stdlib libpython2.7-minimal
  libpython2.7-stdlib mime-support python-minimal python2.7 python2.7-minimal
Suggested packages:
  python-doc python-tk python2.7-doc binfmt-support
The following NEW packages will be installed:
  file libmagic-mgc libmagic1 libpython-stdlib libpython2.7-minimal
  libpython2.7-stdlib mime-support python python-minimal python2.7
  python2.7-minimal
0 upgraded, 11 newly installed, 0 to remove and 0 not upgraded.
Need to get 4600 kB of archives.
After this operation, 22.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://deb.debian.org/debian stretch/main amd64 libpython2.7-minimal amd64 2.7.13-2+deb9u2 [389 kB]
Get:2 http://deb.debian.org/debian stretch/main amd64 python2.7-minimal amd64 2.7.13-2+deb9u2 [1382 kB]
Get:3 http://deb.debian.org/debian stretch/main amd64 python-minimal amd64 2.7.13-2 [40.5 kB]
Get:4 http://deb.debian.org/debian stretch/main amd64 mime-support all 3.60 [36.
```

```

root@lab309b3-OptiPlex-3020: /home/lab309b-3/MyDockerImg
root@lab309b3-OptiPlex-3020:/home/lab309b-3/MyDockerImg# docker commit 1344ed1b0
7481355e0910cf32d540e60d1ec15661f8575a41949161eb8bf2800 nginx-template
sha256:4bd1c9e6ebf68ea29c7683c05aa7228adf5708e326930f21d1a97a2cca4e5e8b
root@lab309b3-OptiPlex-3020:/home/lab309b-3/MyDockerImg# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED
nginx-template      latest             4bd1c9e6ebf6       6 second
s ago               346MB
myubuntuimage       latest             e7b658e8af17       27 minut
es ago              159MB
nginx               latest             e548f1a579cf       2 weeks
ago                 109MB
wordpress           latest             ef4787e1820e       3 weeks
ago                 410MB
repository/ubuntu-with-apache latest             734b1f2dc5fe       3 weeks
ago                 112MB
wordpress           <none>             02d7de3efc5a       4 weeks
ago                 410MB
repository/sb        latest             77189255c4b0       5 weeks
ago                 200MB
ubuntu              16.04              0458a4468cbc       5 weeks
ago                 112MB
ubuntu              latest             0458a4468cbc       5 weeks
ago                 112MB

```

```

lab309b-3@lab309b3-OptiPlex-3020: ~/MyDockerImg
lab309b-3@lab309b3-OptiPlex-3020:~$ cd MyDockerImg
bash: cd: MyDockerImg: No such file or directory
lab309b-3@lab309b3-OptiPlex-3020:~$ mkdir MyDockerImg
lab309b-3@lab309b3-OptiPlex-3020:~$ cd /MyDockerImg
bash: cd: /MyDockerImg: No such file or directory
lab309b-3@lab309b3-OptiPlex-3020:~$ cd MyDockerImg
lab309b-3@lab309b3-OptiPlex-3020:~/MyDockerImg$ touch Dockerfile
lab309b-3@lab309b3-OptiPlex-3020:~/MyDockerImg$ gedit Dockerfile
lab309b-3@lab309b3-OptiPlex-3020:~/MyDockerImg$ docker build -t myubuntuimage .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM ubuntu
--> 0458a4468cbc
Step 2/3 : RUN apt-get update
--> Running in 0dc5d3ac4cc5
Get:1 http://archive.ubuntu.com/ubuntu xenial InRelease [247 kB]
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:4 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial/universe Sources [9802 kB]
Get:6 http://security.ubuntu.com/ubuntu xenial-security/universe Sources [73.2 k
B]
Get:7 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [587
kB]
Get:8 http://security.ubuntu.com/ubuntu xenial-security/restricted amd64 Package

```

```
lab309b-3@lab309b3-OptiPlex-3020: ~/MyDockerImg
Running hooks in /etc/ca-certificates/update.d...
done.
Removing intermediate container e63201b2c34b
--> e7b658e8af17
Successfully built e7b658e8af17
Successfully tagged myubuntuimage:latest
lab309b-3@lab309b3-OptiPlex-3020:~/MyDockerImg$ docker images
```

REPOSITORY	SIZE	TAG	IMAGE ID	CREATED
myubuntuimage		latest	e7b658e8af17	32 secon
ds ago	159MB			
wordpress		latest	ef4787e1820e	3 weeks
ago	410MB			
repository/ubuntu-with-apache		latest	734b1f2dc5fe	3 weeks
ago	112MB			
wordpress		<none>	02d7de3efc5a	4 weeks
ago	410MB			
repository/sb		latest	77189255c4b0	5 weeks
ago	200MB			
ubuntu		16.04	0458a4468cbc	5 weeks
ago	112MB			
ubuntu		latest	0458a4468cbc	5 weeks
ago	112MB			
snehalb/ubuntu		latest	0458a4468cbc	5 weeks