

```
controlplane $ mkdir env-arg-exercise
controlplane $ cd env-arg-exercise
controlplane $ touch Dockerfile
controlplane $ ls -al
total 8
drwxr-xr-x 2 root root 4096 Feb 27 13:02 .
drwx----- 6 root root 4096 Feb 27 13:02 ..
-rw-r--r-- 1 root root    0 Feb 27 13:02 Dockerfile
controlplane $ █
```

```
controlplane $ vim Dockerfile █
```

```
## ENV and ARG example
ARG TAG=latest
FROM ubuntu:$TAG
LABEL maintainer=luigi@mydomain.com
ENV PUBLISHER=packt APP_DIR=/usr/local/app/bin
CMD ["env"]
```

~

~

```
controlplane $ docker image build -t env-arg --build-arg TAG=19.04 .
```

```
controlplane $ docker image build -t env-arg --build-arg TAG=19.04 .
Sending build context to Docker daemon 2.048kB
Step 1/5 : ARG TAG=latest
Step 2/5 : FROM ubuntu:$TAG
19.04: Pulling from library/ubuntu
4dc9c2fff018: Pull complete
0a4ccbb24215: Pull complete
c0f243bc6706: Pull complete
5ff1eaecba77: Pull complete
Digest: sha256:2adeae829bf27a3399a0e7db8ae38d5adb89bcaf1bbef378240bc0e6724e8344
Status: Downloaded newer image for ubuntu:19.04
---> c88ac1f841b7
Step 3/5 : LABEL maintainer=luigi@mydomain.com
---> Running in cc0452f17d06
Removing intermediate container cc0452f17d06
---> 064455a94e6c
Step 4/5 : ENV PUBLISHER=packt APP_DIR=/usr/local/app/bin
---> Running in 1ffb8ee6516f
Removing intermediate container 1ffb8ee6516f
---> b66311a2eb84
Step 5/5 : CMD ["env"]
---> Running in 3e009e0b466c
Removing intermediate container 3e009e0b466c
---> 9b0fd71dc7fe
Successfully built 9b0fd71dc7fe
Successfully tagged env-arg:latest
```

```
controlplane $ docker container run env-arg
```

```
controlplane $ docker container run env-arg
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
HOSTNAME=015891a90fa8
PUBLISHER=packt
APP_DIR=/usr/local/app/bin
HOME=/root
```

```
controlplane $ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
env-arg	latest	9b0fd71dc7fe	9 minutes ago	70MB
ubuntu	19.04	c88ac1f841b7	3 years ago	70MB

```
controlplane $ docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: crills
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
```

```
controlplane $ docker tag env-arg crills/test-repository:01
controlplane $ docker push crills/test-repository:01
The push refers to repository [docker.io/crills/test-repository]
311180c0cfcf: Mounted from library/ubuntu
8ac4be6e0e4b: Mounted from library/ubuntu
363295e4406a: Mounted from library/ubuntu
873cbe4bd21e: Mounted from library/ubuntu
01: digest: sha256:4b4c688d00bfd9d98f655c35188b17068dd8a3247f640142bab67c33c88689d3 size: 1152
```

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crills

crills > Repositories > test-repository > General

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crills / test-repository

### Description

This repository does not have a description



Last pushed: 2 minutes ago

### Docker commands

Public View

To push a new tag to this repository,

```
docker push crills/test-repository:tagname
```

### Tags

IMAGE ANALYSIS INACTIVE [Activate](#)

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
01		Image	---	2 minutes ago

[See all](#)

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# crills/test-repository:01

Delete Tag

DIGEST: sha256:4b4c688d00bfd9d98f655c35188b17068dd8a3247f640142bab67c33c88689d3

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE
linux/amd64	26.37 MB	2 minutes ago by <a href="#">crills</a>	Image

Image Layers

Vulnerabilities

## IMAGE LAYERS ⓘ

1	ADD file ... in /	26.34 MB
2	/bin/sh -c [ -z "\$(apt-get	30.27 KB
3	/bin/sh -c set -xe &&	861 B
4	/bin/sh -c mkdir -p /run/systemd	163 B
5	CMD ["/bin/bash"]	0 B
6	LABEL maintainer=luigi@mydomain.com	0 B
7	ENV PUBLISHER=packt APP_DIR=/usr/local/app/bin	0 B
8	CMD ["env"]	0 B

## Command

```
ADD file:98c7df2bed4738dded17ef3fc4dd8f3b1e1d1d742a0245c9f1e518daea8e445e in /
```

```
controlplane $ docker tag env-arg crills/test-repository:env-arg01
controlplane $ docker push crills/test-repository:env-arg01
The push refers to repository [docker.io/crills/test-repository]
311180c0cfcf: Layer already exists
8ac4be6e0e4b: Layer already exists
363295e4406a: Layer already exists
873cbe4bd21e: Layer already exists
env-arg01: digest: sha256:4b4c688d00bfd9d98f655c35188b17068dd8a3247f640142bab67c33c88689d3 size: 1152
```

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**i** Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

[Update](#)

## crills / test-repository

### Description

This repository does not have a description

Last pushed: a few seconds ago

### Docker commands

[Public View](#)

To push a new tag to this repository,

```
docker push crills/test-repository:tagname
```

### Tags

IMAGE ANALYSIS INACTIVE  
[Activate](#)

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
env-arg01		Image	---	a few seconds ago
01		Image	---	5 minutes ago

[See all](#)

[Go to Advanced Image Management](#)

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crills Repositories test-repository env-arg01



## crills/test-repository:env-arg01

Delete Tag

DIGEST: sha256:4b4c688d00bfd9d98f655c35188b17068dd8a3247f640142bab67c33c88689d3

OS/ARCH	COMPRESSED SIZE	LAST PUSHED	TYPE
linux/amd64	26.37 MB	2 minutes ago by <a href="#">crills</a>	Image

Image Layers

Vulnerabilities

### IMAGE LAYERS

1	ADD file ... in /	26.34 MB
2	/bin/sh -c [ -z "\$(apt-get	38.27 KB
3	/bin/sh -c set -xe &&	861 B
4	/bin/sh -c mkdir -p /run/systemd	163 B
5	CMD ["/bin/bash"]	0 B
6	LABEL maintainer=luigi@mydomain.com	0 B
7	ENV PUBLISHER=packt APP_DIR=/usr/local/app/bin	0 B
8	CMD ["env"]	0 B

### Command

```
ADD file:98c7df2bed4738dded17ef3fc4dd8f3b1e1d1d742a0245c9f1e518daea8e445e in /
```



