

Migrate image from host to another

```
[root@dev adhamdockers]# vim app.py
[root@dev adhamdockers]#
[root@dev adhamdockers]#
[root@dev adhamdockers]# vim Dockerfile
[root@dev adhamdockers]#
```

```
FROM python:3.9

WORKDIR /APP
COPY app.py .

CMD ["python", "app.py"]
```

```
[root@dev adhamdockers]# docker build -t python-img .
[+] Building 0.2s (8/8) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 164B                             0.0s
=> [internal] load metadata for docker.io/library/python:3.9    0.0s
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                    0.0s
=> [1/3] FROM docker.io/library/python:3.9                     0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 266B                                  0.0s
=> [2/3] WORKDIR /APP                                           0.0s
=> [3/3] COPY app.py .                                          0.0s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:02d6150fb162f166d79a21025ad8bad04c799017eed50319f96d12b2d3052004 0.0s
=> => naming to docker.io/library/python-img                    0.0s
```

```
[root@dev adhamdockers]# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
python-img	latest	02d6150fb162	10 seconds ago	999MB
python	3.9	f327fe247a06	2 days ago	999MB
script_img	latest	ce734a89aaf1	3 days ago	7.8MB
<none>	<none>	b1bb1f89a847	3 days ago	7.8MB
<none>	<none>	61ff7744331a	3 days ago	7.8MB
health-img	latest	c2b63b0bf041	10 days ago	192MB
nginx	latest	66f8bdd3810c	10 days ago	192MB
mysql	latest	56a8c14e1404	7 weeks ago	603MB
centos	latest	5d0da3dc9764	3 years ago	231MB

```
[root@dev adhamdockers]#
```

Save image as tar file to be ready to transfer

```
[root@dev adhamdockers]# docker save -o migrate.tar python-img
[root@dev adhamdockers]#
[root@dev adhamdockers]# ls
adham.log    backup.sql    Dockerfile    final-bkp    log-cont.log  Main.java    share.txt
adham.sh     docker        Dockerfile2   frontend    logs-cont.log migrate.tar   storage4website
app.py       docker-compose.yml  file.tar      host.txt    main.go       nodeapp.js   storage-bind
backend      Docker-compose.yml  file.txt      index.html  main.java     save_perm_dirc storge4website
[root@dev adhamdockers]#
```

Transfer tar file(image) to target host

```
[root@dev adhamdockers]# scp migrate.tar root@192.168.88.139:/tmp
The authenticity of host '192.168.88.139 (192.168.88.139)' can't be established.
ED25519 key fingerprint is SHA256:+IudKsVVnIV5gkZMZsQWu4KZE/LUtZ4XSfMxaAoVM90.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.88.139' (ED25519) to the list of known hosts.
root@192.168.88.139's password:
migrate.tar                                                                100% 974MB 34.7MB/s 00:28
[root@dev adhamdockers]#
```

```
[root@man3 tmp]# ls
ansible_ansible.legacy.command_payload_1_1cg07c
ansible_ansible.legacy.command_payload_nz9lh6cr
ansible_ansible.legacy.dnf_payload_oi1hcp1k
ansible_dnf_payload_i60wd3nn
bkp
migrate.tar
perm.txt
systemd-private-4a7e4949f49248899156c08c3c91e46e-chrond.service-q5YTkS
systemd-private-4a7e4949f49248899156c08c3c91e46e-colord.service-xBdX2X
systemd-private-4a7e4949f49248899156c08c3c91e46e-dbus-broker.service-NkPDB1
systemd-private-4a7e4949f49248899156c08c3c91e46e-fwupd.service-hH6llx
systemd-private-4a7e4949f49248899156c08c3c91e46e-httpd.service-nRidQ4
systemd-private-4a7e4949f49248899156c08c3c91e46e-kdump.service-LItmuj
systemd-private-4a7e4949f49248899156c08c3c91e46e-ModemManager.service-57Lh8z
systemd-private-4a7e4949f49248899156c08c3c91e46e-mysqld.service-gICgxu
systemd-private-4a7e4949f49248899156c08c3c91e46e-power-profiles-daemon.service-Zl97ZH
systemd-private-4a7e4949f49248899156c08c3c91e46e-rtkit-daemon.service-gwbTB9
systemd-private-4a7e4949f49248899156c08c3c91e46e-switcheroo-control.service-nevPEP
systemd-private-4a7e4949f49248899156c08c3c91e46e-systemd-hostnamed.service-y2vpvN
systemd-private-4a7e4949f49248899156c08c3c91e46e-systemd-logind.service-t8CbAV
systemd-private-4a7e4949f49248899156c08c3c91e46e-upower.service-1LGSET
tmpshv4xt1f
vmware-root_753-4290035625
vmware-root_762-2998936571
vmware-root_763-4248287269
vmware-root_764-2999067644
vmware-root_767-4256479648
vmware-root_787-4290625459
```

Import the image from tar file

```
[root@man3 tmp]# docker load -i migrate.tar
301c1bb42cc0: Loading layer 121.4MB/121.4MB
0e82d78b3ea1: Loading layer 48.82MB/48.82MB
c81d4fdb67fc: Loading layer 181.9MB/181.9MB
0aeceb7c293d: Loading layer 597.1MB/597.1MB
8f9a13bfb118: Loading layer 18.36MB/18.36MB
24f0c2413cd7: Loading layer 53.33MB/53.33MB
fe5bbd4f8a42: Loading layer 5.12kB/5.12kB
4e3db9ec0926: Loading layer 1.536kB/1.536kB
c1f231719960: Loading layer 2.56kB/2.56kB
Loaded image: python-img:latest
[root@man3 tmp]#
[root@man3 tmp]# docker run -it -d --name migrate-cont -p 5000:5000 python-img
4f06c1218bce068ccb1ddf5c889d69e1cac511f8a3178375e9d7fc22fd9a60c7
[root@man3 tmp]#
```

Build container from image'

```
[root@man3 tmp]# docker run -it -d --name migrate-cont -p 5000:5000 python-img
4f06c1218bce068ccb1ddf5c889d69e1cac511f8a3178375e9d7fc22fd9a60c7
[root@man3 tmp]#
```