

# Transfer/Move Docker

## Sample: osslab-dekiwiki

```
docker run -d -p 8880:80 \  
-v /etc/localtime:/etc/localtime:ro \  
-v $PWD/vol/data:/data \  
-v $PWD/vol/var-lib-mysql:/var/lib/mysql \  
-v $PWD/vol/var-log-httpd:/var/log/httpd \  
-v $PWD/vol/var-log-dekiwiki:/var/log/dekiwiki \  
-v $PWD/vol/var-www-dekiwiki-attachments:/var/www/dekiwiki/attachments \  
-v $PWD/vol/var-www-dekiwiki-bin-cache:/var/www/dekiwiki/bin/cache \  
--name $NAME \  
osslab-dekiwiki \  
/bin/bash
```

## Using Save Command

### Save Image

```
# osslab-dekiwiki is image name  
docker save osslab-dekiwiki > osslab-dekiwiki.tar  
  
ls -l
```

```
-rw-r--r-- 1 root root 2519701504 Feb 27 19:19 osslab-dekiwiki.tar
```

### Load Image

```
docker load < osslab-dekiwiki.tar
```

## Using Export Command

Run the instance in detach mode

```
docker run -it --detach --name osslab-mig osslab-dekiwiki
```

```
docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
673f45c27a8b	osslab-dekiwiki	"/bin/sh -c /startup..."	5 seconds ago	Up 4 seconds
80/tcp	osslab-mig			

## Export Docker Container

```
docker export 673f45c27a8b > osslab-mig.tar
```

```
ls -l
```

```
-rw-r--r-- 1 root root 1143085568 Feb 27 14:21 osslab-mig.tar
```

## Import Docker Container to the target machine

```
tar -c osslab-mig.tar | docker import - osslab-dekiwiki
```

## Move Container

```
## Stop the container
```

```
docker stop <container-name>
```

```
## Save container image
```

```
docker commit <container-name> mycontainerimage
```

```
docker save mycontainerimage | gzip > mycontainerimage.tar.gz
```

```
## Load container image to destination host
```

```
gunzip -c mycontainerimage.tar.gz | docker load
```

```
## Transfer image without creating a file
```

```
docker save mycontainerimage | gzip | ssh root@203.0.113.1 'gunzip | docker load'
```

## Backup & Restore Volume

### Backup volume

```
# Backup
cd /root/osslab
docker stop osslab-dekiwiki
docker rm osslab-dekiwiki
tar czf osslab-val.tar.gz vol

# Restore to target machine
cd /root/osslab
tar xpf osslab-val.tar.gz
```

## FAQ

Q: Import ???????? container?

“ Error response from daemon: OCI runtime create failed:  
container\_linux.go:380: starting container process caused: exec: "/bin/sh":  
stat /bin/sh: no such file or directory: unknown  
Error: failed to start containers: osslab

Solution: ???? Export-Import ?? Save-Load ?????

Q: ?? docker load ?????

“ open /var/lib/docker/tmp/docker-import-863867335/bin/json: no such file or  
directory

Solution: ?? Save ? image ????? `docker load` ?Export ? image ???? `docker import` ?