

Video 1.3

Docker CLI Commands





In this Video, we are going to take a look at...

- Commands to pull images and run containers
- Commands to modify or inspect running containers
- Commands to save container state as images and publish these images

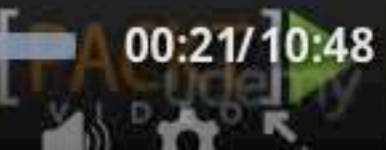


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00:21/10:48

```
→ ~ docker-machine ls
```

NAME	ACTIVE	DRIVER	STATE	URL	SWARM	DOCKER	ERRORS
aws-sigalrm	-	amazonec2	Running	tcp://52.204.118.222:2376		v1.11.2	
dev	*	virtualbox	Running	tcp://192.168.99.100:2376		v1.11.0	
k8s	-	virtualbox	Stopped			Unknown	

```
→ ~
```

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→ ~
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```
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```

```
→ ~ docker run -it ubuntu /bin/bash
```

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→ ~ docker images

REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
node	5.11.1	sha256:6300c	6 weeks ago	647.6 MB
mongo-express	latest	sha256:4381f	7 weeks ago	251.9 MB
redis	latest	sha256:be9c5	8 weeks ago	184.9 MB
mongo	latest	sha256:a55d8	9 weeks ago	313.1 MB
alpine	latest	sha256:d7a51	3 months ago	4.798 MB
gaetan/dockercraft	latest	sha256:a85b3	4 months ago	842.7 MB

→ ~

→ ~

→ ~

→ ~ docker images -q

sha256:6300c

sha256:4381f

sha256:be9c5

sha256:a55d8

sha256:d7a51

sha256:a85b3

→ ~

→ ~

→ ~

→ ~ docker rmi \$(docker images -q)

}

Deleted: sha256:2cbf4119470ef114d4c5a5a49c98bf2419026d9ef52a6a19107892a370b70ba4
Deleted: sha256:c7f499e257ea216f6dfa001a5b74a3dbbfb39c2c30a81e47f8973f387310ec86
Deleted: sha256:fd11b5f197b7b4f69808239260ac74514d582fd38e17e38b3157e0012d42c51b
Deleted: sha256:cb3b4400aecc8f365196288596a47917f01d29de6e9c655297b495360dd0b8a0
Deleted: sha256:6aa8439ff97a9b1eca13764a0b4b5cd37fcbdbffe76fa48f48dfa3f00c14bd3a
Deleted: sha256:36c2f1e12a202d93b0ff6c0f490597884e4563cb8bb8976e6dd299980eb7d924
Deleted: sha256:6b52ba000500eb012f6cba6bc6a1859edf21f0a908942b6eeae373d02124c00f
Deleted: sha256:4118dd8a6a0befdc46f6a3827fd44e887856180414c2dbf37d8ccd54ff385ca3
Deleted: sha256:8017608bdc7907c7661411e69d45955845be1f2733d72d35b780b7205361a1a5
Deleted: sha256:0106192c514f8fe3299e259daad2924386b767448051e55196a86f9c05f6b6bf
Deleted: sha256:6fe29b0e3ee6cdc01466c2db9b24df1069dda1554063320fa13a3313e08f6015
Deleted: sha256:8f32fe02d2d60794c7629f11db1cc7ca79ce8d23ff8ef5dedc75a61da3ea17ce
Deleted: sha256:c08cac8e8425a1c6f6abc6e7a1e7de85e8e713dbddf1c430cd2ce8a2768ca36e
Deleted: sha256:ddef881aeaffef528aa8fec090a9b68dd4fabb6f653c3c1b689c133b07e38b0
Untagged: redis:latest
Deleted: sha256:be9c5a74669967bf81cb9225c21fa7d18d6b1183f9ab3c276733a72861bb774e
Deleted: sha256:298dd01f826e4187b2beeed877654a592dc79f023f2e5f8163ce142c5a659b62
Deleted: sha256:7a824843fe24e890869af0f0cf8aabbf0560be7597a5ad74dfb629a97927b66a
Deleted: sha256:e62197130fc253a11bd56e33f716e95d882afeaa0e424769d481c4494d3294e3
Deleted: sha256:252441bf4d385f3ff3ebfdb35dd61a296b2c2eb6a8d3d4a85afb450797f69af
Deleted: sha256:4fb9432e25c50e0351feb6467632c4e550dada9b3c24af841bb8909843db8ea3
Deleted: sha256:b61f85a583a2f2ffde7021b6166dafb6f92548b0d70b8b01a66e36f5f4e310fe
Deleted: sha256:c2db81a922d1a3546e163217b1cf348106fec64cee38c8e52e7aa170875780f0
Deleted: sha256:3184bb23b3023d75ba2636d75bdde70e9b29278732179ce57a2d906b4218c0f6
Deleted: sha256:0cab58961a87bc2749555362f4a2623577d02827cafd8a87be8f69f52b56d4
Deleted: sha256:13af18117b02e95c41fed662282109a219701747e794d9ee4d5f397cf5113969
Deleted: sha256:f4e6f26f2828635e46af740749c605f1965b6e2d9a35d19bcdea410ffcc00974
Deleted: sha256:46fe8e843d6321e698d8c89e26ee55ab62b8f21c449f289238a25407051083ab
Deleted: sha256:a2276ab235e93c6e2743216377953b777a9fab971eea11371a9dafa76204019d
Deleted: sha256:b955fc21c6b0a8ed070f9643008d8da2f02d8f28e71196bf5c06d2b301dc7fc1
Deleted: sha256:63679fe35dce987c5501a4f51aef4e8a1243a872d5b12dbc2e15f787bd7005c3
Deleted: sha256:f7cf774ed4094c199f554927b7b01690920b834f118e702ff2643560549f27fc
Deleted: sha256:6eb35183d3b8bb6aee54874076fb1ad77b5259c93b330986b0cbcaa44cbbbc00


```
→ ~ docker network create familiar
```

|

'familiar' can be replaced with any other name

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Installation/Debian/Jessie

**»» Note**

You may also use [diaspora-installer package](#), which is easier, but this method is not recommended yet.

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<https://wiki.diasporafoundation.org/Installation/debian/Jessie>

- 9 Database setup
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Before you start

You need to choose if you want a production setup or development setup. Diaspora has three development trees: master, stable and develop. The master tree always contains the current release. The stable tree is where new features and bug fixes are added before a new minor version is released. The develop tree is where new features and bug fixes are added before a new major version is released. Therefore if you want a development setup you should run from develop. But it isn't guaranteed to be in a good state, so it's not recommended to run a production setup from it.

Diaspora is written in Ruby on Rails and therefore knows different running modes. These have nothing to do with running from the master or the develop tree. Nonetheless we recommend the development mode for development setups and production mode for production setups. The difference is, apart from a slightly different default configuration, speed. The development mode reloads the code on each request, so it speeds up your development. The production mode doesn't do that, so pages load significantly faster. That's the only major difference you need to care about. To emphasize it one more time: Running a production setup in development mode gains you nothing.

Lastly you can choose between running on MySQL/MariaDB or PostgreSQL, in our experience PostgreSQL achieves a better performance.

Versions of this guide



»» Note

Important! Make sure to use the correct version of the guide, see below.

The current guide is for a **production setup with PostgreSQL as database.**

You can change them below:

Database: [MySQL](#) | **[PostgreSQL](#)** | [MariaDB](#)

Running mode: **[Production](#)** | [Development](#)

Requirements

Hardware

For running an average-sized pod, your server should have *at the very least* 512MB of RAM (+1GB swap space) and a decent multi-core CPU. The amount of hard disk space required largely depends on how many images you expect your users to upload. If you plan to run the database server on the same host you should allow for at least double the amount of RAM and disk space.

Software

2. shrikrishna@Shrikrishna-Holla: ~ (zsh)

```
→ ~ docker run -d --net familiar --name db postgres:latest
```

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```

    default=none)
    #pid: '/run/diaspora/diaspora.pid'
@@ -173,7 +173,7 @@
    ## Rails environment (default='development').
    ## The environment in which the server should be started by default.
    ## Change this to 'production' if you wish to run a production
    environment.
-   #rails_environment: 'development'
+   rails_environment: 'development'

    ## Write unicorn stderr and stdout log.
    #stderr_log: '/usr/local/app/diaspora/log/unicorn-stderr.log'
@@ -225,7 +225,7 @@

    ## Start built-in XMPP server (default=true).
    ## In case you want to run your own server, you should disable it.
-   #enabled: false
+   enabled: false

    ## Set the directory in which to look for virtual hosts TLS
    certificates.
    ## Check documentation on how to generate or configure your existing
@@ -419,6 +419,7 @@
    ## Pod name (default="diaspora*")
    ## The pod name displayed in various locations, including the header.
    #pod_name: "diaspora*"
+   pod_name: "familiar"

    ## Allow registrations (default=true)
    ## Set this to false to prevent people from signing up to your pod

```

config/diaspora.yml.diff


```
--- config/database.yml.example 2016-01-03 20:04:31.000000000 +0530
+++ config/database.yml 2016-04-14 17:26:07.000000000 +0530
@@ -1,20 +1,20 @@
 postgresql: &postgresql
   adapter: postgresql
-  host: localhost
+  host: db
   port: 5432
   username: postgres
   password:
   encoding: unicode

-mysql: &mysql
-  adapter: mysql2
-  host: "localhost"
-  port: 3306
-  username: "root"
-  password: ""
+# mysql: &mysql
+#   adapter: mysql2
+#   host: "localhost"
+#   port: 3306
+#   username: "root"
+#   password: ""
+  # socket: /tmp/mysql.sock
-  encoding: utf8mb4
-  collation: utf8mb4_bin
+  # encoding: utf8mb4
+  # collation: utf8mb4_bin

# Comment the the mysql line and uncomment the postgres line
```

config/database.yml.diff

→ ~ docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
78c5d50a3e91	postgres:latest	"/docker-entrypoint.s"	18 minutes ago	Up 18 minutes	5432/tcp	db

→ ~

→ ~

→ ~

→ ~

→ ~ docker run -it --net familiar --name web \

-p 3000:3000 --env RAILS_ENV=development --env DB=postgres --env PORT=3000 \

debian:jessie /bin/bash

root@e110863740ef:/#

→ ~ docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
78c5d50a3e91	postgres:latest	"/docker-entrypoint.s"	18 minutes ago	Up 18 minutes	5432/tcp	db

→ ~

→ ~

→ ~

→ ~

→ ~ docker run -it --net familiar --name web \

-p 3000:3000 --env RAILS_ENV=development --env DB=postgres --env PORT=3000 \
debian:jessie /bin/bash

root@e110863740ef:/# ping db

PING db (172.19.0.2): 56 data bytes

64 bytes from 172.19.0.2: icmp_seq=0 ttl=64 time=0.065 ms

64 bytes from 172.19.0.2: icmp_seq=1 ttl=64 time=0.060 ms

64 bytes from 172.19.0.2: icmp_seq=2 ttl=64 time=0.062 ms

--- db ping statistics ---

3 packets transmitted, 3 packets received, 0% packet loss

round-trip min/avg/max/stddev = 0.060/0.062/0.065/0.000 ms

root@e110863740ef:/#

root@e110863740ef:/#

root@e110863740ef:/#


```
root@e110863740ef:/# apt-get update && apt-get install -y --fix-missing \
> build-essential \
> libssl-dev \
> libcurl4-openssl-dev \
> libxml2-dev \
> libxslt-dev \
> imagemagick \
> ghostscript \
> git \
> cmake \
> curl \
> libpq-dev \
> libmagickwand-dev \
> nodejs \
> gawk \
> libreadline6-dev \
> libyaml-dev \
> libsqlite3-dev \
> sqlite3 \
> autoconf \
> libgdbm-dev \
> libncurses5-dev \
> automake \
> bison \
> libffi-dev
```

```
root@e110863740ef:/#  
root@e110863740ef:/#  
root@e110863740ef:/#  
root@e110863740ef:/# adduser --disabled-login --gecos "" diaspora  
Adding user `diaspora' ...  
Adding new group `diaspora' (1000) ...  
Adding new user `diaspora' (1000) with group `diaspora' ...  
Creating home directory `/home/diaspora' ...  
Copying files from `/etc/skel' ...  
root@e110863740ef:/#
```

→ ~ docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAM
ES						
e110863740ef	debian:jessie	"/bin/bash"	About an hour ago	Up About an hour	0.0.0.0:3000->3000/tcp	web
78c5d50a3e91	postgres:latest	"/docker-entrypoint.s"	About an hour ago	Up About an hour	5432/tcp	db

→ ~

→ ~

→ ~ docker cp /Users/shrikrishna/projects/diaspora web:/home/diaspora/diaspora

→ ~ █

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```
diasp0ra@e110863740ef:/$ gpg --keyserver hkp://keys.gnupg.net --recv-keys 409B6B1796C275462A1703113804BB82D39DC0E3
gpg: directory `/home/diaspora/.gnupg' created
gpg: new configuration file `/home/diaspora/.gnupg/gpg.conf' created
gpg: WARNING: options in `/home/diaspora/.gnupg/gpg.conf' are not yet active during this run
gpg: keyring `/home/diaspora/.gnupg/secring.gpg' created
gpg: keyring `/home/diaspora/.gnupg/pubring.gpg' created
gpg: requesting key D39DC0E3 from hkp server keys.gnupg.net
gpg: /home/diaspora/.gnupg/trustdb.gpg: trustdb created
gpg: key D39DC0E3: public key "Michal Papis (RVM signing) <mpapis@gmail.com>" imported
gpg: no ultimately trusted keys found
gpg: Total number processed: 1
gpg:         imported: 1 (RSA: 1)
diasp0ra@e110863740ef:/$
```

```
loading https://github.com/rvm/rvm/archive/1.27.0.tar.gz
loading https://github.com/rvm/rvm/releases/download/1.27.0/1.27.0.tar.gz.asc
Signature made Tue Mar 29 13:49:47 2016 UTC using RSA key ID BF04FF17
Good signature from "Michal Papis (RVM signing) <mpapis@gmail.com>"
WARNING: This key is not certified with a trusted signature!
There is no indication that the signature belongs to the owner.
Primary key fingerprint: 409B 6B17 96C2 7546 2A17 0311 3804 BB82 D39D C0E3
Subkey fingerprint: 62C9 E5F4 DA30 0D94 AC36 166B E206 C29F BF04 FF17
Verified '/home/diaspora/.rvm/archives/rvm-1.27.0.tgz'
```

```
Installing RVM to /home/diaspora/.rvm/
Adding rvm PATH line to /home/diaspora/.profile /home/diaspora/.mkshrc /home/diaspora/.bashrc /home/diaspora/.zshrc.
Adding rvm loading line to /home/diaspora/.profile /home/diaspora/.bash_profile /home/diaspora/.zlogin.
Installation of RVM in /home/diaspora/.rvm/ is almost complete:
```

To start using RVM you need to run `source /home/diaspora/.rvm/scripts/rvm``
In all your open shell windows, in rare cases you need to reopen all shell windows.

diaspora,

Thank you for using RVM!
We sincerely hope that RVM helps to make your life easier and more enjoyable!!!

Michal Papis, Michal & team.

For more information or to report a problem: <https://rvm.io/help> and https://twitter.com/rvm_io

```
dra@e110863740ef:/$
dra@e110863740ef:/$
dra@e110863740ef:/$
dra@e110863740ef:/$
```


Signature made Tue Mar 29 13:49:47 2016 UTC using RSA key ID BF04FF17

Good signature from "Michal Papis (RVM signing) <mpapis@gmail.com>"

WARNING: This key is not certified with a trusted signature!

There is no indication that the signature belongs to the owner.

Primary key fingerprint: 409B 6B17 96C2 7546 2A17 0311 3804 BB82 D39D C0E3

Subkey fingerprint: 62C9 E5F4 DA30 0D94 AC36 166B E206 C29F BF04 FF17

Verified '/home/diaspora/.rvm/archives/rvm-1.27.0.tgz'

Installing RVM to /home/diaspora/.rvm/

Adding rvm PATH line to /home/diaspora/.profile /home/diaspora/.mkshrc /home/diaspora/.bashrc /home/diaspora/.zshrc.

Adding rvm loading line to /home/diaspora/.profile /home/diaspora/.bash_profile /home/diaspora/.zlogin.

Installation of RVM in /home/diaspora/.rvm/ is almost complete:

To start using RVM you need to run `source /home/diaspora/.rvm/scripts/rvm`

in all your open shell windows, in rare cases you need to reopen all shell windows.

diaspora,

Thank you for using RVM!

We sincerely hope that RVM helps to make your life easier and more enjoyable!!!

Michal Papis, Michal & team.

For more information or to report a problem: <https://rvm.io/help> and https://twitter.com/rvm_io

diaspora@e110863740ef:/\$

diaspora@e110863740ef:/\$

diaspora@e110863740ef:/\$

diaspora@e110863740ef:/\$ /bin/bash -l -c 'source "\$HOME/.rvm/scripts/rvm" && rvm autolibs read-fail && rvm install 2.2.1'

Installing for binary rubies, this might take some time.


```
diaspora@e110863740ef:/$ source $HOME/.rvm/scripts/rvm
diaspora@e110863740ef:/$ cd /home/diaspora/diaspora
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$ gem install bundler --no-ri --no-rdoc && bundle install --without test development --with postgresql
Fetching: bundler-1.12.5.gem (100%)
Successfully installed bundler-1.12.5
1 gem installed
There was an error while trying to write to `/home/diaspora/diaspora/.bundle/config`. It is likely that you need to grant write permissions for that path.
diaspora@e110863740ef:~/diaspora$ exit
exit
root@e110863740ef:/# chown -R diaspora /home/diaspora
root@e110863740ef:/# su diaspora
diaspora@e110863740ef:/$ source $HOME/.rvm/scripts/rvm
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$ cd /home/diaspora/diaspora
diaspora@e110863740ef:~/diaspora$ chown -R diaspora /home/diaspora^C
diaspora@e110863740ef:~/diaspora$ gem install bundler --no-ri --no-rdoc && bundle install --without test development --with postgresql
```

If you get permission errors at any time,
grant write access to /home/diaspora


```
diaspora@e110863740ef:/$ source $HOME/.rvm/scripts/rvm
diaspora@e110863740ef:/$ cd /home/diaspora/diaspora
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$ gem install bundler --no-ri --no-rdoc && bundle install --without test development --with postgresql
Fetching: bundler-1.12.5.gem (100%)
Successfully installed bundler-1.12.5
1 gem installed
There was an error while trying to write to `/home/diaspora/diaspora/.bundle/config`. It is likely that you need to grant write permissions for that path.
diaspora@e110863740ef:~/diaspora$ exit
exit
root@e110863740ef:/# chown -R diaspora /home/diaspora
root@e110863740ef:/# su diaspora
diaspora@e110863740ef:/$ source $HOME/.rvm/scripts/rvm
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$ cd /home/diaspora/diaspora
diaspora@e110863740ef:~/diaspora$ chown -R diaspora /home/diaspora^C
diaspora@e110863740ef:~/diaspora$ gem install bundle --no-ri --no-rdoc && bundle install --without test development --with postgresql
Successfully installed bundler-1.12.5
1 gem installed
```

```
diaspora@e110863740ef:/$ source $HOME/.rvm/scripts/rvm
diaspora@e110863740ef:/$ cd /home/diaspora/diaspora
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$ gem install bundler --no-ri --no-rdoc && bundle install --without test development --with postgresql
Fetching: bundler-1.12.5.gem (100%)
Successfully installed bundler-1.12.5
1 gem installed
There was an error while trying to write to `~/home/diaspora/diaspora/.bundle/config`. It is likely that you need to grant write permissions for that path.
diaspora@e110863740ef:~/diaspora$ exit
exit
root@e110863740ef:/# chown -R diaspora /home/diaspora
root@e110863740ef:/# su diaspora
diaspora@e110863740ef:/$ source $HOME/.rvm/scripts/rvm
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$
diaspora@e110863740ef:/$ cd /home/diaspora/diaspora
diaspora@e110863740ef:~/diaspora$ chown -R diaspora /home/diaspora^C
diaspora@e110863740ef:~/diaspora$ gem install bundler --no-ri --no-rdoc && bundle install --without test development --with postgresql
Successfully installed bundler-1.12.5
1 gem installed
```



```
diaspora@e110863740ef:~/diaspora$ echo 'source "$HOME/.rvm/scripts/rvm"' >> ~/.bashrc  
diaspora@e110863740ef:~/diaspora$
```

```
diaspora@e110863740ef:~/diaspora$ echo 'source "$HOME/.rvm/scripts/rvm"' >> ~/.bashrc
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$ rake db:create db:schema:load
```

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diaspora@e110863740ef:~/diaspora\$

diaspora@e110863740ef:~/diaspora\$

diaspora@e110863740ef:~/diaspora\$ bundle exec unicorn -c config/unicorn.rb

I


```

X diaspora@e1108637... 361 X ~ (zsh) 362
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$
diaspora@e110863740ef:~/diaspora$ bundle exec unicorn -c config/unicorn.rb
I, [2016-07-08T13:10:03.872887 #11782] INFO -- : Refreshing Gem list
[2016-07-08T13:10:11] INFO PID-11782 TID-15366500 DiasporaFederation: successfully configured the federation library
root ..... *debug -T
- <Appenders::Stdout:0x28cb084 name="stdout">
- <Appenders::RollingFile:0x287f634 name="file">
ActionMailer::Base ..... debug +A -T
ActiveRecord::Base ..... *debug +A -T
ActiveSupport::Cache::FileStore ..... debug +A -T
ActiveSupport::Dependencies ..... debug +A -T
DiasporaFederation ..... debug +A -T
Logging ..... *off -A -T
Rails ..... debug +A -T
XMLLogger ..... *info +A -T
I, [2016-07-08T13:10:12.785172 #11782] INFO -- : listening on addr=0.0.0.0:3000 fd=12
I, [2016-07-08T13:10:12.807011 #11782] INFO -- : master process ready
I, [2016-07-08T13:10:12.819156 #11793] INFO -- : worker=0 ready

```

```
→ ~ docker-machine ip dev  
192.168.99.100  
→ ~ █
```

In my case, it will be at 192.168.99.100:3000

Welcome, friend.

You're about to change the Internet. Let's get you set up, shall we?

Configure your pod



Look at `config/diaspora.yml.example` and `config/database.yml.example` for help.

Try it out



Start by [creating an account](#)

Make a contribution!



Make Diaspora even better! Fork the project on [Github](#) make some changes, and submit a pull request.

<https://192.168.99.100:3000>

Useful Resources


```
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] INFO PID-11806 TID-15366500 Rails: Started GET "/assets/tag_following_list_tpl.js?body=1" for 192.168.99.1 at
2016-07-08 13:10:49 +0000
192.168.99.1 - - [08/Jul/2016:13:10:49 +0000] "GET /tag_following_list_tpl.js?body=1 HTTP/1.1" 200 - 0.0461
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] INFO PID-11806 TID-15366500 Rails: Started GET "/assets/branding/logos/logo.png" for 192.168.99.1 at 2016-07-0
8 13:10:49 +0000
192.168.99.1 - - [08/Jul/2016:13:10:49 +0000] "GET /branding/logos/logo.png HTTP/1.1" 200 - 0.0527
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] INFO PID-11806 TID-15366500 Rails: Started GET "/assets/landing/cog.png" for 192.168.99.1 at 2016-07-08 13:10:
49 +0000
192.168.99.1 - - [08/Jul/2016:13:10:49 +0000] "GET /landing/cog.png HTTP/1.1" 200 - 0.1052
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] INFO PID-11806 TID-15366500 Rails: Started GET "/assets/landing/smiley_laughing.png" for 192.168.99.1 at 2016-
07-08 13:10:49 +0000
192.168.99.1 - - [08/Jul/2016:13:10:49 +0000] "GET /landing/smiley_laughing.png HTTP/1.1" 200 - 0.0625
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] INFO PID-11806 TID-15366500 Rails: Started GET "/assets/landing/pen_write.png" for 192.168.99.1 at 2016-07-08
13:10:49 +0000
192.168.99.1 - - [08/Jul/2016:13:10:49 +0000] "GET /landing/pen_write.png HTTP/1.1" 200 - 0.0744
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] DEBUG PID-11806 TID-15366500 Rails:
[2016-07-08T13:10:49] INFO PID-11806 TID-15366500 Rails: Started GET "/assets/favicon.png" for 192.168.99.1 at 2016-07-08 13:10:49 +
0000
192.168.99.1 - - [08/Jul/2016:13:10:50 +0000] "GET /favicon.png HTTP/1.1" 200 - 0.0529
```



```
78c5d50a3e91      postgres:latest      "/docker-entrypoint.s"    About an hour ago    Up About an hour      5432/tcp      db
→ ~
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→ ~ docker cp /Users/shrikrishna/projects/diaspora web:/home/diaspora/diaspora
→ ~ docker-machine ip dev
192.168.99.100
→ ~ docker ps
CONTAINER ID      IMAGE               COMMAND                  CREATED           STATUS            PORTS              NAMES
e110863740ef     debian:jessie       "/bin/bash"             2 hours ago      Up 2 hours        0.0.0.0:3000->3000/tcp    web
78c5d50a3e91     postgres:latest     "/docker-entrypoint.s"  2 hours ago      Up 2 hours        5432/tcp            db
→ ~ docker diff web
```

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→ ~ docker commit --change "CMD /bin/bash -l -c \"cd /home/diaspora/diaspora && bundle exec unicorn -c config/unicorn.rb\"" --change "USER diaspora" web shrikrishna/familiar:cli

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→ ~ docker commit --change "CMD /bin/bash -l -c \"cd /home/diaspora/diaspora && bundle exec unicorn -c config/unicorn.rb\"" --change "USER diaspora" web shrikrishna/familiar:cli
sha256:7efbf1a18ea52ae34edfe70d9b818271018145eee68e0c75878354eee68d82fd

→ ~ docker images

REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
shrikrishna/familiar	cli	sha256:7efbf	18 seconds ago	1.618 GB
postgres	latest	sha256:7ee9d	4 weeks ago	275.3 MB
debian	jessie	sha256:1b088	4 weeks ago	125.1 MB

→ ~ █

→ ~ docker history shrikrishna/familiar:cli

IMAGE	CREATED	CREATED BY	SIZE	COMMENT
sha256:7efbf	2 days ago	/bin/bash	1.493 GB	
sha256:1b088	4 weeks ago	/bin/sh -c #(nop) CMD ["/bin/bash"]	0 B	
<missing>	4 weeks ago	/bin/sh -c #(nop) ADD file:76679eeb94129df23c	125.1 MB	

→ ~ █



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Choose a Docker Hub ID

Enter your email address

Choose a password

[Sign Up](#)

[Browse](#) Thousands of the most popular software tools in the Docker Image Library

<https://hub.docker.com>

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→ ~ docker commit --change "CMD /bin/bash -l -c \"cd /home/diaspora/diaspora && bundle exec unicorn -c config/unicorn.rb\"" --change "
USER diaspora" web shrikrishna/familiar:cli
sha256:7efbf1a18ea52ae34edfe70d9b818271018145eee68e0c75878354eee68d82fd
→ ~ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             VIRTUAL SIZE
shrikrishna/familiar cli                sha256:7efbf       18 seconds ago     1.618 GB
postgres            latest             sha256:7ee9d       4 weeks ago        275.3 MB
debian              jessie             sha256:1b088       4 weeks ago        125.1 MB
→ ~ docker login
Username (shrikrishna):
WARNING: login credentials saved in /Users/shrikrishna/.docker/config.json
Login Succeeded
→ ~ █
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→ ~ docker commit --change "CMD /bin/bash -l -c \"cd /home/diaspora/diaspora && bundle exec unicorn -c config/unicorn.rb\"" --change "
USER diaspora" web shrikrishna/familiar:cli
sha256:7efbf1a18ea52ae34edfe70d9b818271018145eee68e0c75878354eee68d82fd
→ ~ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             VIRTUAL SIZE
shrikrishna/familiar cli                sha256:7efbf       18 seconds ago     1.618 GB
postgres            latest             sha256:7ee9d       4 weeks ago        275.3 MB
debian              jessie             sha256:1b088       4 weeks ago        125.1 MB
→ ~ docker login
Username (shrikrishna):
WARNING: login credentials saved in /Users/shrikrishna/.docker/config.json
Login Succeeded
→ ~ docker push shrikrishna/familiar:cli
The push refers to a repository [docker.io/shrikrishna/familiar]
cfd8b095aa21: Preparing
42755cf4ee95: Preparing
```


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→ ~ docker images

REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
shrikrishna/familiar	cli	sha256:7efbf	3 minutes ago	1.618 GB
postgres	latest	sha256:7ee9d	4 weeks ago	275.3 MB
debian	jessie	sha256:1b088	4 weeks ago	125.1 MB

→ ~ docker save shrikrishna/familiar:cli > familiar.cli.tar

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→ ~ docker images

REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
shrikrishna/familiar	cli	sha256:7efbf	3 minutes ago	1.618 GB
postgres	latest	sha256:7ee9d	4 weeks ago	275.3 MB
debian	jessie	sha256:1b088	4 weeks ago	125.1 MB

→ ~ docker save shrikrishna/familiar:cli > familiar.cli.tar

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→ ~ docker load -i familiar.cli.tar




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→ ~ docker help
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I

images	List images
import	Import the contents from a tarball to create a filesystem image
info	Display system-wide information
inspect	Return low-level information on a container or image
kill	Kill a running container
load	Load an image from a tar archive or STDIN
login	Register or log in to a Docker registry
logout	Log out from a Docker registry
logs	Fetch the logs of a container
network	Manage Docker networks
pause	Pause all processes within a container
port	List port mappings or a specific mapping for the CONTAINER
ps	List containers
pull	Pull an image or a repository from a registry
push	Push an image or a repository to a registry
rename	Rename a container
restart	Restart a container
rm	Remove one or more containers
rmi	Remove one or more images
run	Run a command in a new container
save	Save an image(s) to a tar archive
search	Search the Docker Hub for images
start	Start one or more stopped containers
stats	Display a live stream of container(s) resource usage statistics
stop	Stop a running container
tag	Tag an image into a repository
top	Display the running processes of a container
unpause	Unpause all processes within a container
version	Show the Docker version information
volume	Manage Docker volumes
wait	Block until a container stops, then print its exit code

Run 'docker COMMAND --help' for more information on a command.

→ ~ █

Welcome to the Docker Documentation



Docker for Mac

A native application using the OS X sandbox security model which delivers all Docker tools to your Mac.



Docker for Windows

A native Windows application which delivers all Docker tools to your Windows computer.



Docker for Linux

Install Docker on a computer which already has a Linux distribution installed.



Docker Engine

Create Docker images and run Docker containers.

As of v1.12.0-rc1, Engine includes **swarm mode** container orchestration features.



Docker Compose

Defines applications built using multiple containers.



Docker Hub

A hosted registry service for managing and building images.



Docker Cloud

A hosted service for building, testing, and deploying images to your hosts.

<https://docs.docker.com>



Docker Trusted Registry



Docker Universal Control Plane

Next Video

Scripting Primer

