Docker Hub

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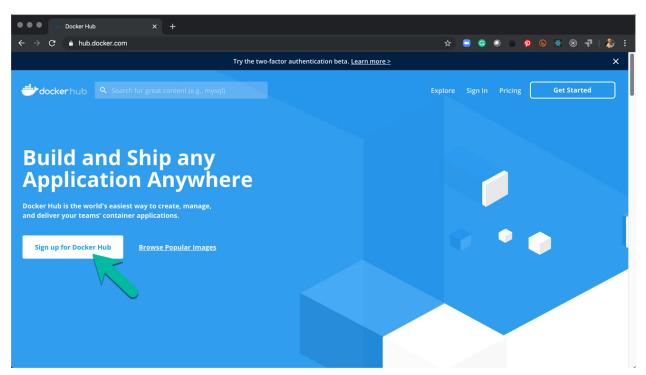
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Docker Hub

This document covers the using Docker Hub (https://hub.docker.com/) to find images that will help as a starting point for the software container fthat will run your application.

Create an Account

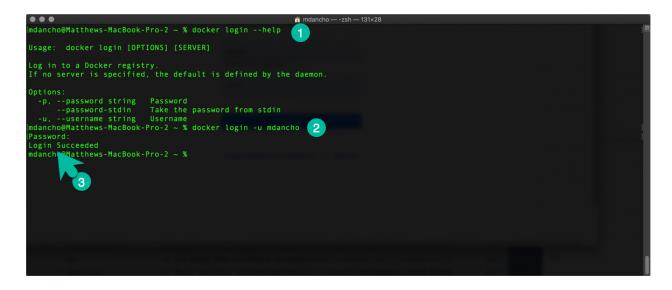
Create an account at Docker Hub (https://hub.docker.com/) to be able to push and pull Docker Hub images.



Log Into Docker via Command Line

Use docker login to log into DockerHub via the commandline.

- 1. docker login --help Use this to see the options for logging in
- 2. docker login -u your_user_name The -u option allows us to pass our user name.
- 3. Password The prompt will request our password for DockerHub



Searching Docker Hub

Use docker search to search for containers related to our project. Alternatively we can search on the DockerHub website.

- 1. docker search shiny Searches all instances where "shiny" is present. Sorts by DockerHub Stars.
- 2. NAME Docker registry name
- 3. STARS Docker Hub Star count



Pulling an Image

Use docker pull to pull an image from the DockerHub (remote) to your EC2 Server.

- 1. docker pull rocker/shiny-verse Pulls an image that contains shiny server and the tidyverse R packages
- 2. docker pull rocker/tidyverse (Not shown) Pulls an image that contains RStudio server and tidyverse R packages

```
mdanchoeMatthews-MacBook-Pro-2 ~ % docker pull rocker/shiny-verse Using default tag: latest latest: Pulling from rocker/shiny-verse 844c33c7e6ea: Already exists 28542e213b6b: Downloading [======== ] 35.45MB/205.7MB d082e33d961f: Downloading [======== ] 22.55MB/100.5MB la8fe00760ae: Downloading [======== ] 22.01MB/121.7MB 9c40cbe2ded7: Waiting alded3142aaa: Waiting
```

List the Docker Images

- 1. docker image 1s List the local docker images installed on the EC2 Server.
 - Note that you will likely have fewer images
 - Size If you install many images, you can quickly eat up server space

Wrapup

Now you have the following Docker Images successfully installed on your EC2 Server:

- 1. rocker/shiny-verse Contains shiny server and the tidyverse R packages
- 2. rocker/tidyverse Contains rstudio server and the tidyverse R packages