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Installing Docker Version of Sandbox on Mac

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Installing Docker Version of Sandbox on Mac

Labels

Docker

Hortonworks Data Platform (HDP)



myoung Guru

Created on 10-08-2016 04:17 PM

Objective

This tutorial walks you through the process of installing the Docker version of the HDP 2.5 Hortonworks Sandbox on a Mac. This tutorial is part one of a two part series. The second article can be found here:[HCC Article](#)

Prerequisites

- You should already have installed Docker for Mac. (Read more here [Docker for Mac](#))
- You should already have downloaded the Docker version of the Hortonworks Sandbox (Read more here [Hortonworks Sandbox](#))

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Scope

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This tutorial was tested using the following environment and components:

- Mac OS X 10.11.6

- HDP 2.5 on Hortonworks Sandbox (Docker Version)

- Docker for Mac 1.12.1

NOTE: You should adjust your Docker configuration to provide at least 8GB of RAM. I personally find things are better with 10-12GB of RAM. You can follow this article for more information:

<https://hortonworks.com/tutorial/sandbox-deployment-and-install-guide/section/3/#for-mac>

Steps

1. Ensure the Docker daemon is running. You can verify by typing:

```
$ docker images
```

You should see something similar to this:

```
$ docker images
REPOSITORY          TAG          IMAGE ID        CREATED
```

If your Docker daemon is not running, you may see the following:

```
$ docker images
Error response from daemon: Bad response from Docker engine
```

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2. Load the Hortonworks sandbox image into Docker:

```
$ docker load < HDP_2.5_docker.tar.gz
```

You should see something similar to this:

```
$ docker load < HDP_2.5_docker.tar.gz
b1b065555b8a: Loading layer [=====]
0b547722f59f: Loading layer [=====]
99d7327952e0: Loading layer [=====]
294b1c0e07bd: Loading layer [=====]
fd5c10f2f1a1: Loading layer [=====]
6852ef70321d: Loading layer [=====]
517f170bb07f: Loading layer [=====]
065eddb80fc0: Loading layer [=====]
Loaded image: sandbox:latest
```

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3. Verify the image was successfully imported:

```
$ docker images
```

You should see something similar to this:

```
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED
sandbox             latest             fc813bdc4bdd       3 days ago
```

4. Start the container: The first time you start the container, you need to create it via the run command. The run command both creates and starts the container.



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```
$ docker run -v hadoop:/hadoop --name sandbox --hostname "sandbox.hortonw
-p 6080:6080 \
-p 9090:9090 \
-p 9000:9000 \
-p 8000:8000 \
-p 8020:8020 \
-p 42111:42111 \
-p 10500:10500 \
-p 16030:16030 \
-p 8042:8042 \
-p 8040:8040 \
-p 2100:2100 \
-p 4200:4200 \
-p 4040:4040 \
-p 8050:8050 \
-p 9996:9996 \
-p 9995:9995 \
-p 8080:8080 \
-p 8088:8088 \
-p 8886:8886 \
-p 8889:8889 \
-p 8443:8443 \
-p 8744:8744 \
-p 8888:8888 \
-p 8188:8188 \
-p 8983:8983 \
-p 1000:1000 \
-p 1100:1100 \
-p 11000:11000 \
-p 10001:10001 \
-p 15000:15000 \
-p 10000:10000 \
-p 8993:8993 \
-p 1988:1988 \
-p 5007:5007 \
-p 50070:50070 \
-p 19888:19888 \
-p 16010:16010 \
-p 50111:50111 \
-p 50075:50075 \
```

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```

-p 50095:50095 \
-p 18080:18080 \
-p 60000:60000 \
-p 8090:8090 \
-p 8091:8091 \
-p 8005:8005 \
-p 8086:8086 \
-p 8082:8082 \
-p 60080:60080 \
-p 8765:8765 \
-p 5011:5011 \
-p 6001:6001 \
-p 6003:6003 \
-p 6008:6008 \
-p 1220:1220 \
-p 21000:21000 \
-p 6188:6188 \
-p 61888:61888 \
-p 2181:2181 \
-p 2222:22 \
sandbox /usr/sbin/sshd -D

```



Note: Mounting local drives to the sandbox

If you would like to mount local drives on the host to your sandbox, you need to add another **-v** option to the command above. I typically recommend creating working directories for each of your docker containers, such as **/Users/<username>/Development/sandbox** or

/Users/<username>/Development/hdp25-demo-sandbox. In doing this, you can copy the docker run command above into a script called **create_container.sh** and you simply change the **--name** option to be unique and correspond to the directory the script is in.

Lets look at an example. In this scenario I'm going to create a directory called

/Users/<username>/Development/hdp25-demo-sandbox where I will create my **create_container.sh** script. Inside of that script I will have as the first line:

```
$ docker run -v `pwd`:`pwd` -v hadoop:/hadoop --name hdp25-demo-sandbox
```

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Once the container is running you will notice the container has

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/Users/<username>/Development/hdp25-demo-sandbox as a mount. This is similar in

nature/concept to the /vagrant mount when using Vagrant. This allows you to easily share data between the container and your host without having to copy the data around.

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Once the container is created and running, Docker will display a CONTAINER ID for the container. You should see something similar to this:

```
fe57fe79f795905daa50191f92ad1f589c91043a30f7153899213a0cadaa5631
```

For all future container starts, you only need to run the docker start command:

```
$ docker start sandbox
```

Notice that `sandbox` is the name of the container in the run command used above.

If you name the container the same name as the container project directory, like **hdp25-demo-sandbox** above, it will make it easier to remember what the container name is. However, you can always create a **start_container.sh** script that includes the above start command. Similarly you can create a **stop_container.sh** script that stops the container.

5. Verify the container is running:

```
$ docker ps
```

You should see something similar to this:

```
$ docker ps
CONTAINER ID          IMAGE          COMMAND                  CREATED
85d7ec7201d8         sandbox       "/usr/sbin/sshd -D"     31 seconds
```

Notice the CONTAINER ID is the shortened version of the ID displayed when you ran the run command.

6. To stop the container Once the container is running, you stop it using the following command:

```
$ docker stop sandbox
```

7. To connect to the container You connect to the container via ssh using the following command:

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```
$ ssh -p 2222 root@localhost
```

The first time you log into the container, you will be prompted to change the root password. The root password for the container is `hadoop`.



8. Start sandbox services The Ambari and HDP services do not start automatically when you start the Docker container. You need to start the processes with a script.

```
$ ssh -p 2222 root@localhost
$ /etc/init.d/startup_script start
```

You should see something similar to this (you can ignore any warnings):

```
# /etc/init.d/startup_script start
Starting tutorials... [ OK ]
Starting startup_script...
Starting HDP ...
Starting mysql [ OK ]
Starting Flume [ OK ]
Starting Postgre SQL [ OK ]
Starting Ranger-admin [ OK ]
Starting name node [ OK ]
Starting Ranger-usersync [ OK ]

Starting data node [ OK ]
Starting Zookeeper nodes [ OK ]
Starting Oozie [ OK ]
Starting Ambari server [ OK ]
Starting NFS portmap [ OK ]
Starting Hdfs nfs [ OK ]
Starting Hive server [ OK ]
Starting Hiveserver2 [ OK ]
Starting Ambari agent [ OK ]
Starting Node manager [ OK ]
Starting Yarn history server [ OK ]
Starting Resource manager [ OK ]
Starting Webhcat server [ OK ]
Starting Spark [ OK ]
Starting Mapred history server [ OK ]
Starting Zeppelin [ OK ]
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Safe mode is OFF
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Starting sandbox...
./startup_script: line 97: /proc/sys/kernel/hung_task_timeout_secs: No such file or directory
Starting shellinaboxd: [ OK ]
```

Feedback?

9. You can now connect to your HDP instance via a web browser at <http://localhost:8888>

 27,868 VIEWS  19 KUDOS

TAGS (6) [docker](#) [hdp-2.5.0](#) [how-to-tutorial](#) [How-ToTutorial](#) [Sandbox](#) [Sandbox & Learning](#)

Comments

Re: Installing Docker Version of Sandbox on Mac



ssen Contributor

Created on 10-08-2016 04:17 PM



Great step-by-step instruction. You can skip Step 2 and replace step 3 with
`docker load < HDP_2.5_docker.tar.gz`

Re: Installing Docker Version of Sandbox on Mac



myoung Guru

Created on 10-08-2016 04:17 PM

Feedback?

@Saptak Sen

Thank you for the feedback. I didn't realize that you could load the .tar.gz file directly.

Re: Installing Docker Version of Sandbox on Mac



tn New Contributor

Created on 01-24-2017 10:05 AM



I am trying to spin up the 2.5 sandbox on a VMware vSphere environment. I deploy the .ova with no issues but I need to set a static IP on it. Do I just modify the "docker run" command in the start_sandbox.sh? Thanks for any help.

Re: Installing Docker Version of Sandbox on Mac



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Created on 01-27-2017 05:22 PM

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Have trouble when I get to the part with

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```
docker run -v `pwd`:`pwd` -v hadoop:/hadoop --name hdp25-demo--s
```

It says "docker run requires at least 1 argument"...

Re: Installing Docker Version of Sandbox on Mac



jwhitmore



Expert Contributor

Created on 01-30-2017 03:43 PM

@Jeffrey van Geete,

All of the lines in that code box have to be pasted together. The \ character at the end of each line is a continuation character and the shell appends the next line. I'm guessing you have to hit enter twice for it to give you the error. Just paste the whole window full of lines at the same time and it will run.

John

Re: Installing Docker Version of Sandbox on Mac



shailuk Explorer

Created on 10-01-2017 06:19 PM - edited 08-17-2019 09:30 AM

Hi.. i was following article to install sandbox on docker.

I was successfully able to complete step 3. when I execute the command **docker images** I am able to see - Sandbox-hdp.

I am stuck in step 4. I ran the command that you have in step 4. I get this error.

```
shailuk@MacBook-Pro:~$ docker run -v `pwd`:`pwd` -v hadoop:/hadoop --name sandbox --hostname "sandbox.hortonworks.com" --privileged -d -p 6000:6000 -p 9999:9999 -p 8080:8080 -p 8020:8020 -p 42111:42111 -p 18080:18080 -p 18030:18030 -p 8842:8842 -p 8040:8040 -p 2100:2100 -p 4200:4200 -p 4040:4040 -p 8050:8050 -p 9990:9990 -p 9991:9991 -p 8000:8000 -p 8001:8001 -p 8002:8002 -p 8003:8003 -p 8004:8004 -p 8005:8005 -p 8006:8006 -p 8007:8007 -p 8008:8008 -p 8009:8009 -p 8010:8010 -p 8011:8011 -p 8012:8012 -p 8013:8013 -p 8014:8014 -p 8015:8015 -p 8016:8016 -p 8017:8017 -p 8018:8018 -p 8019:8019 -p 8020:8020 -p 8021:8021 -p 8022:8022 -p 8023:8023 -p 8024:8024 -p 8025:8025 -p 8026:8026 -p 8027:8027 -p 8028:8028 -p 8029:8029 -p 8030:8030 -p 8031:8031 -p 8032:8032 -p 8033:8033 -p 8034:8034 -p 8035:8035 -p 8036:8036 -p 8037:8037 -p 8038:8038 -p 8039:8039 -p 8040:8040 -p 8041:8041 -p 8042:8042 -p 8043:8043 -p 8044:8044 -p 8045:8045 -p 8046:8046 -p 8047:8047 -p 8048:8048 -p 8049:8049 -p 8050:8050 -p 8051:8051 -p 8052:8052 -p 8053:8053 -p 8054:8054 -p 8055:8055 -p 8056:8056 -p 8057:8057 -p 8058:8058 -p 8059:8059 -p 8060:8060 -p 8061:8061 -p 8062:8062 -p 8063:8063 -p 8064:8064 -p 8065:8065 -p 8066:8066 -p 8067:8067 -p 8068:8068 -p 8069:8069 -p 8070:8070 -p 8071:8071 -p 8072:8072 -p 8073:8073 -p 8074:8074 -p 8075:8075 -p 8076:8076 -p 8077:8077 -p 8078:8078 -p 8079:8079 -p 8080:8080 -p 8081:8081 -p 8082:8082 -p 8083:8083 -p 8084:8084 -p 8085:8085 -p 8086:8086 -p 8087:8087 -p 8088:8088 -p 8089:8089 -p 8090:8090 -p 8091:8091 -p 8092:8092 -p 8093:8093 -p 8094:8094 -p 8095:8095 -p 8096:8096 -p 8097:8097 -p 8098:8098 -p 8099:8099 -p 8100:8100 -p 8101:8101 -p 8102:8102 -p 8103:8103 -p 8104:8104 -p 8105:8105 -p 8106:8106 -p 8107:8107 -p 8108:8108 -p 8109:8109 -p 8110:8110 -p 8111:8111 -p 8112:8112 -p 8113:8113 -p 8114:8114 -p 8115:8115 -p 8116:8116 -p 8117:8117 -p 8118:8118 -p 8119:8119 -p 8120:8120 -p 8121:8121 -p 8122:8122 -p 8123:8123 -p 8124:8124 -p 8125:8125 -p 8126:8126 -p 8127:8127 -p 8128:8128 -p 8129:8129 -p 8130:8130 -p 8131:8131 -p 8132:8132 -p 8133:8133 -p 8134:8134 -p 8135:8135 -p 8136:8136 -p 8137:8137 -p 8138:8138 -p 8139:8139 -p 8140:8140 -p 8141:8141 -p 8142:8142 -p 8143:8143 -p 8144:8144 -p 8145:8145 -p 8146:8146 -p 8147:8147 -p 8148:8148 -p 8149:8149 -p 8150:8150 -p 8151:8151 -p 8152:8152 -p 8153:8153 -p 8154:8154 -p 8155:8155 -p 8156:8156 -p 8157:8157 -p 8158:8158 -p 8159:8159 -p 8160:8160 -p 8161:8161 -p 8162:8162 -p 8163:8163 -p 8164:8164 -p 8165:8165 -p 8166:8166 -p 8167:8167 -p 8168:8168 -p 8169:8169 -p 8170:8170 -p 8171:8171 -p 8172:8172 -p 8173:8173 -p 8174:8174 -p 8175:8175 -p 8176:8176 -p 8177:8177 -p 8178:8178 -p 8179:8179 -p 8180:8180 -p 8181:8181 -p 8182:8182 -p 8183:8183 -p 8184:8184 -p 8185:8185 -p 8186:8186 -p 8187:8187 -p 8188:8188 -p 8189:8189 -p 8190:8190 -p 8191:8191 -p 8192:8192 -p 8193:8193 -p 8194:8194 -p 8195:8195 -p 8196:8196 -p 8197:8197 -p 8198:8198 -p 8199:8199 -p 8200:8200 -p 8201:8201 -p 8202:8202 -p 8203:8203 -p 8204:8204 -p 8205:8205 -p 8206:8206 -p 8207:8207 -p 8208:8208 -p 8209:8209 -p 8210:8210 -p 8211:8211 -p 8212:8212 -p 8213:8213 -p 8214:8214 -p 8215:8215 -p 8216:8216 -p 8217:8217 -p 8218:8218 -p 8219:8219 -p 8220:8220 -p 8221:8221 -p 8222:8222 -p 8223:8223 -p 8224:8224 -p 8225:8225 -p 8226:8226 -p 8227:8227 -p 8228:8228 -p 8229:8229 -p 8230:8230 -p 8231:8231 -p 8232:8232 -p 8233:8233 -p 8234:8234 -p 8235:8235 -p 8236:8236 -p 8237:8237 -p 8238:8238 -p 8239:8239 -p 8240:8240 -p 8241:8241 -p 8242:8242 -p 8243:8243 -p 8244:8244 -p 8245:8245 -p 8246:8246 -p 8247:8247 -p 8248:8248 -p 8249:8249 -p 8250:8250 -p 8251:8251 -p 8252:8252 -p 8253:8253 -p 8254:8254 -p 8255:8255 -p 8256:8256 -p 8257:8257 -p 8258:8258 -p 8259:8259 -p 8260:8260 -p 8261:8261 -p 8262:8262 -p 8263:8263 -p 8264:8264 -p 8265:8265 -p 8266:8266 -p 8267:8267 -p 8268:8268 -p 8269:8269 -p 8270:8270 -p 8271:8271 -p 8272:8272 -p 8273:8273 -p 8274:8274 -p 8275:8275 -p 8276:8276 -p 8277:8277 -p 8278:8278 -p 8279:8279 -p 8280:8280 -p 8281:8281 -p 8282:8282 -p 8283:8283 -p 8284:8284 -p 8285:8285 -p 8286:8286 -p 8287:8287 -p 8288:8288 -p 8289:8289 -p 8290:8290 -p 8291:8291 -p 8292:8292 -p 8293:8293 -p 8294:8294 -p 8295:8295 -p 8296:8296 -p 8297:8297 -p 8298:8298 -p 8299:8299 -p 8300:8300 -p 8301:8301 -p 8302:8302 -p 8303:8303 -p 8304:8304 -p 8305:8305 -p 8306:8306 -p 8307:8307 -p 8308:8308 -p 8309:8309 -p 8310:8310 -p 8311:8311 -p 8312:8312 -p 8313:8313 -p 8314:8314 -p 8315:8315 -p 8316:8316 -p 8317:8317 -p 8318:8318 -p 8319:8319 -p 8320:8320 -p 8321:8321 -p 8322:8322 -p 8323:8323 -p 8324:8324 -p 8325:8325 -p 8326:8326 -p 8327:8327 -p 8328:8328 -p 8329:8329 -p 8330:8330 -p 8331:8331 -p 8332:8332 -p 8333:8333 -p 8334:8334 -p 8335:8335 -p 8336:8336 -p 8337:8337 -p 8338:8338 -p 8339:8339 -p 8340:8340 -p 8341:8341 -p 8342:8342 -p 8343:8343 -p 8344:8344 -p 8345:8345 -p 8346:8346 -p 8347:8347 -p 8348:8348 -p 8349:8349 -p 8350:8350 -p 8351:8351 -p 8352:8352 -p 8353:8353 -p 8354:8354 -p 8355:8355 -p 8356:8356 -p 8357:8357 -p 8358:8358 -p 8359:8359 -p 8360:8360 -p 8361:8361 -p 8362:8362 -p 8363:8363 -p 8364:8364 -p 8365:8365 -p 8366:8366 -p 8367:8367 -p 8368:8368 -p 8369:8369 -p 8370:8370 -p 8371:8371 -p 8372:8372 -p 8373:8373 -p 8374:8374 -p 8375:8375 -p 8376:8376 -p 8377:8377 -p 8378:8378 -p 8379:8379 -p 8380:8380 -p 8381:8381 -p 8382:8382 -p 8383:8383 -p 8384:8384 -p 8385:8385 -p 8386:8386 -p 8387:8387 -p 8388:8388 -p 8389:8389 -p 8390:8390 -p 8391:8391 -p 8392:8392 -p 8393:8393 -p 8394:8394 -p 8395:8395 -p 8396:8396 -p 8397:8397 -p 8398:8398 -p 8399:8399 -p 8400:8400 -p 8401:8401 -p 8402:8402 -p 8403:8403 -p 8404:8404 -p 8405:8405 -p 8406:8406 -p 8407:8407 -p 8408:8408 -p 8409:8409 -p 8410:8410 -p 8411:8411 -p 8412:8412 -p 8413:8413 -p 8414:8414 -p 8415:8415 -p 8416:8416 -p 8417:8417 -p 8418:8418 -p 8419:8419 -p 8420:8420 -p 8421:8421 -p 8422:8422 -p 8423:8423 -p 8424:8424 -p 8425:8425 -p 8426:8426 -p 8427:8427 -p 8428:8428 -p 8429:8429 -p 8430:8430 -p 8431:8431 -p 8432:8432 -p 8433:8433 -p 8434:8434 -p 8435:8435 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```

Re: Installing Docker Version of Sandbox on Mac



nigel1 Explorer

Created on 12-13-2017 03:30 PM



The image is now called sandbox-hdp ie:

```
cloudusr@dev2:~/hdp$ sudo docker load < ./HDP_2.6.3_docker_10_11_2017.tar
e00c9229b481: Loading layer
[=====>]
202.7MB/202.7MB
6d029676b777: Loading layer
[=====>]
12.25GB/12.25GB
8f8f12de0582: Loading layer
[=====>] 2.56kB/2.56kB
Loaded image: sandbox-hdp:latest
Therefore if you use the command documented (cut/pasted into my script):
```

```
cloudusr@dev2:~/hdp$ sudo ./runhdp.sh
Unable to find image 'sandbox:latest' locally
docker: Error response from daemon: pull access denied for sandbox, repository does
not exist or may require 'docker login'.
See 'docker run --help'.
```



Feedback?

The fix is to use 'sandbox-hdp' for the name of the docker image - this is the nearly last parameter to the docker command, just before sshd (the -name can be left as is)

Re: Installing Docker Version of Sandbox on Mac



pzampino



Cloudera Employee

Created on 12-15-2017 03:58 PM



Change 'sandbox' to whatever the image name is in your local image repository.

Alternatively, you can specify the container ID.

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Re: Installing Docker Version of Sandbox on Mac

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kp_jyothish Not applicable
Created on 07-16-2018 05:03 AM



I could not see the startup_script start script in /etc/init.d/ folder. Please help me!

Re: Installing Docker Version of Sandbox on Mac



kp_jyothish Not applicable
Created on 07-16-2018 08:02 AM



Can you update the Guide with correct latest steps?

Re: Installing Docker Version of Sandbox on Mac



ecigar New Contributor
Created on 09-08-2019 09:49 PM



Can you update the guide? The new sandbox 3.0.1 comes with a script but after installing it, I can't access the ports at all. Ambari also cannot start. Something must have gone wrong and it seems no one cares to update the guides.

I'm trying to learn hadoop and it's becoming too difficult just get it running.



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VERSION HISTORY

Last update: 10-08-2016
04:17 PM

Updated by:  myyoung

CONTRIBUTORS



 myyoung

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-  [Docker storage drivers overview](#)  
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