

Install pip in docker

Asked 8 years, 4 months ago Modified 5 months ago Viewed 284k times

▲ I'm not able to install pip in Docker.

70

Here's my Dockerfile:

```
FROM ubuntu:14.04

# Install dependencies
RUN apt-get update -y
RUN apt-get install -y git curl apache2 php5 libapache2-mod-php5 php5-mcrypt
php5-mysql python3.4 python-pip
```

When building, I get:

```
Sending build context to Docker daemon 109.6 kB
Step 1 : FROM ubuntu:14.04
----> b549a9959a66
Step 2 : RUN apt-get update -y
----> Using cache
----> 84577471562c
Step 3 : RUN apt-get install -y git curl apache2 php5 libapache2-mod-php5 php5-
mcrypt php5-mysql python3.4 python-pip
----> Running in 49252a6d0eb1
Reading package lists...
Building dependency tree...
Reading state information...
python3.4 is already the newest version.
The following extra packages will be installed:
```



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Suggested packages:

```
apache2-bin apache2-data binutils build-essential ca-certificates cpp
git-8 git-man krb5-locales
libalgorithm-merge-perl
libaprutil1-ldap libasan0
libatomic-dev libcloog-isl4 libcurl3
libperl libfakeroot
libgomp1 libgssapi-krb5-2
libidn1-heimdal
libisl10 libitm1
libkrb5-3 libkrb5support0
libsqlite3 libpython-stdlib
libpython-math0 libroken18-heimdal
libpython-modules-db libstdc++-4.8-dev
libx11-6 libx11-data libxau6
libx-libs-dev lsof make
libssl openssl patch php5-cli
python python-chardet
python-pama-whl python-distlib
python-lib-whl python-minimal
python-tests python-requests-whl
python-six python-six-whl
python2.7 python2.7-minimal
python-kauth xml-core xz-utils
```

```

www-browser apache2-doc apache2-suexec-pristine apache2-suexec-custom ufw
apache2-utils binutils-doc cpp-doc gcc-4.8-locales debian-keyring
g++-multilib g++-4.8-multilib gcc-4.8-doc libstdc++6-4.8-dbg gcc-multilib
autoconf automake1.9 libtool flex bison gdb gcc-doc gcc-4.8-multilib
libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg libasan0-dbg
libtsan0-dbg libquadmath0-dbg gettext-base git-daemon-run
git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-arch
git-bzr git-cvs git-mediawiki git-svn php-pear glibc-doc krb5-doc krb5-user
libmcrypt-dev mcrypt libsasl2-modules-otp libsasl2-modules-ldap
libsasl2-modules-sql libsasl2-modules-gssapi-mit
libsasl2-modules-gssapi-heimdal libstdc++-4.8-doc make-doc man-browser
ssh-askpass libpam-ssh keychain monkeysphere ed diffutils-doc
php5-user-cache python-doc python-tk python-genshi python-lxml
python-distribute python-distribute-doc python2.7-doc binfmt-support
python3-setuptools openssh-server sgml-base-doc openssl-blacklist debhelper

```

Recommended packages:

ssh-client python-dev-**all**

The following NEW packages will be installed:

```

apache2 apache2-bin apache2-data binutils build-essential ca-certificates
cpp cpp-4.8 curl dpkg-dev fakeroot g++ g++-4.8 gcc gcc-4.8 git git-man
krb5-locales libalgorithm-diff-perl libalgorithm-diff-xs-perl
libalgorithm-merge-perl libapache2-mod-php5 libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap libasan0 libasn1-8-heimdal
libatomic1 libc-dev-bin libc6-dev libcloog-isl4 libcurl3 libcurl3-gnutls
libdpkg-perl libedit2 liberror-perl libfakeroot libfile-fcntllock-perl
libgcc-4.8-dev libgmp10 libgomp1 libgssapi-krb5-2 libgssapi3-heimdal
libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal
libhx509-5-heimdal libidn11 libisl10 libitm1 libk5crypto3 libkeyutils1
libkrb5-26-heimdal libkrb5-3 libkrb5support0 libldap-2.4-2 libmcrypt4
libmpc3 libmpfr4 libmysqlclient18 libpython-stdlib libpython2.7-minimal
libpython2.7-stdlib libquadmath0 libroken18-heimdal librtmp0 libsasl2-2
libsasl2-modules libsasl2-modules-db libstdc++-4.8-dev libtimedate-perl
libtsan0 libwind0-heimdal libx11-6 libx11-data libxau6 libxcb1 libxdmcp6
libxext6 libxml2 libxmuu1 linux-libc-dev lsof make manpages manpages-dev
mysql-common openssh-client openssl patch php5 php5-cli php5-common
php5-json php5-mcrypt php5-mysql php5-readline psmisc python python-chardet
python-chardet-whl python-colorama python-colorama-whl python-distlib
python-distlib-whl python-html5lib python-html5lib-whl python-minimal
python-pip python-pip-whl python-pkg-resources python-requests

```



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```

tuptools-whl python-six
python-wheel python2.7
sgml-base ssl-cert xauth

```

4 not upgraded.

space will be used.
tes/main libroken18-heimdal

tes/main libasn1-8-heimdal

city/main python2.7 amd64

dal/libroken18-

```
heimdal_1.6-git20131207+dfsg-1ubuntu1.1_amd64.deb Could not resolve
'archive.ubuntu.com'

E: Failed to fetch
http://archive.ubuntu.com/ubuntu/pool/main/h/heimdal/libasn1-8-
heimdal_1.6-git20131207+dfsg-1ubuntu1.1_amd64.deb Could not resolve
'archive.ubuntu.com'

E: Failed to fetch
http://archive.ubuntu.com/ubuntu/pool/main/k/krb5/libkrb5support0_1.12+dfsg-
2ubuntu5.2_amd64.deb Could not resolve 'archive.ubuntu.com'

E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/s/ssl-cert/ssl-
cert_1.0.33_all.deb Could not resolve 'archive.ubuntu.com'

E: Unable to fetch some archives, maybe run apt-get update or try with --fix-
missing?
The command '/bin/sh -c apt-get install -y git curl apache2 php5 libapache2-
mod-php5 php5-mcrypt php5-mysql python3.4 python-pip' returned a non-zero code:
100
```

Having read [this answer](#), I tried adding the line `RUN "sh" "-c" "echo nameserver 8.8.8.8 >> /etc/resolv.conf"` - the error this time is:

```
...
...
Reading state information...
E: Unable to locate package php5-mcrypt
E: Unable to locate package python-pip
The command '/bin/sh -c apt-get install -y git curl apache2 php5 libapache2-
mod-php5 php5-mcrypt php5-mysql python3.4 python-pip' returned a non-zero code:
100
```

What am I doing wrong? I've seen some claims that I should try a different version of Ubuntu, but switching to 13.1 didn't change anything.



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at 12:17

Bot

asked Apr 13, 2016 at 23:02



scubbo

5,624 ● 10 ● 44 ● 81

orted by: Highest score (default) ⇅

olving 'archive.ubuntu.com', I think the
the packages `php5-mcrypt` and `python-`

84

`pip`. Nevertheless, the reduced Dockerfile of you with just these two packages worked for me (using Debian 8.4 and Docker 1.11.0), but I'm not quite sure if that could be the case because my host system is different than yours.



```
FROM ubuntu:14.04

# Install dependencies
RUN apt-get update && apt-get install -y \
    php5-mcrypt \
    python-pip
```

However, according to [this answer](#) you should think about installing the `python3-pip` package instead of the `python-pip` package when using Python 3.x.

Furthermore, to make the `php5-mcrypt` package installation working, you might want to add the universe repository like it's shown [right here](#). I had trouble with the `add-apt-repository` command missing in the Ubuntu Docker image so I installed the package `software-properties-common` at first to make the command available.

Splitting up the statements and putting `apt-get update` and `apt-get install` into one `RUN` command is also recommended [here](#).

Oh and by the way, you actually don't need the `-y` flag at `apt-get update` because there is nothing that has to be confirmed automatically.

Finally:

```
FROM ubuntu:14.04
```



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updated in the future.

t 19:31

answered Apr 14, 2016 at 0:01



Neuron

5,673 ● 5 ● 42 ● 61



mxscho

2,140 ● 2 ● 17 ● 28

2 Thanks for the response! I'm on Mac OS X (10.11.4), if that makes any difference (though I thought the whole point of Docker was that it ran independently of the underlying system? I'm quite new to this, so I might be wrong...). I'll try your suggestions now. – [scubbo](#) Apr 14, 2016 at 11:29

1 @CharlieParker `apt-get update` updates the locally cached information about packages in the repository (e.g. where to download them or which versions are available). Without, you could e.g. run into installing outdated packages. See also: [askubuntu.com/questions/337198/...](https://askubuntu.com/questions/337198/) I also edited the `apt-get update` and the `apt-get install` to be in one `RUN` command as recommended here: [docs.docker.com/engine/userguide/eng-image/...](https://docs.docker.com/engine/userguide/eng-image/) – [mxscho](#) Dec 9, 2016 at 23:28

`apt-get update` is required to prevent caching when building the container, see docker docs. `-y` is to prevent the prompt that says 'yes', download, to prevent errors on build – [Jason](#) Mar 8, 2018 at 21:55

This will not install a specific version. It is wrong answer I think. Need specific versions. So pick stale old python, then how to install pip for that stale old python? – [safetyduck](#) Jul 27, 2022 at 10:36



This command worked fine for me:

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```
RUN apt-get -y install python3-pip
```



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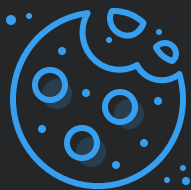
answered Dec 31, 2020 at 13:07



Amin Shojaei

6,273 ● 2 ● 40 ● 49

Try this:



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```
DOCKER_OPTS="--dns 8.8.8.8 --dns
```

start

DNS settings.

at 12:17

Bot

answered Apr 13, 2016 at 23:56



T. Arboreus

1,040 ● 1 ● 9 ● 18

tem (Mac OS X) – [scubbo](#) Apr 14, 2016 at

Sorry, tapped out on this one – [T. Arboreus](#) Apr 14, 2016 at 15:14



You might want to change the DNS settings of the Docker daemon. You can edit (or create) the configuration file at `/etc/docker/daemon.json` with the dns key, as

0



```
{
  "dns": ["your_dns_address", "8.8.8.8"]
}
```



In the example above, the first element of the list is the address of your DNS server. The second item is the Google's DNS which can be used when the first one is not available.

Before proceeding, save daemon.json and restart the docker service.

```
sudo service docker restart
```

Once fixed, retry to run the build command.

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[edited Aug 28, 2018 at 14:04](#)



[Peter Kühne](#)

3,254 ● 1 ● 21 ● 24

[answered Aug 28, 2018 at 13:58](#)



[Rishich Mishra](#)

1



An alternative is to use the Alpine Linux containers, e.g. `python:2.7-alpine`. They offer `pip` out of the box (and have a smaller footprint, but beware of [possible python problems](#)).

0

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[edited Jan 10, 2023 at 17:56](#)

[answered Jun 17, 2019 at 18:34](#)

[serv-inc](#)

37.6k ● 9 ● 186 ● 205



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, `pip install nextcloud-api-wrapper` , `pip`

[answered Mar 31 at 9:07](#)



- 1 Please format your answer so that the code is contained in codeblocks. Currently it is hard to follow. Also, given that this question has an accepted answer which has been verified by the SO community, it is expected that you add some text explaining how your solution differs from all the other answers. Thanks
– [L Tyrone](#) Mar 31 at 10:04



You can try: `sudo apt-get install python-pip python-dev`

-2

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answered Jul 29, 2022 at 13:45



[Walk](#)

1,619 ● 21 ● 23



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