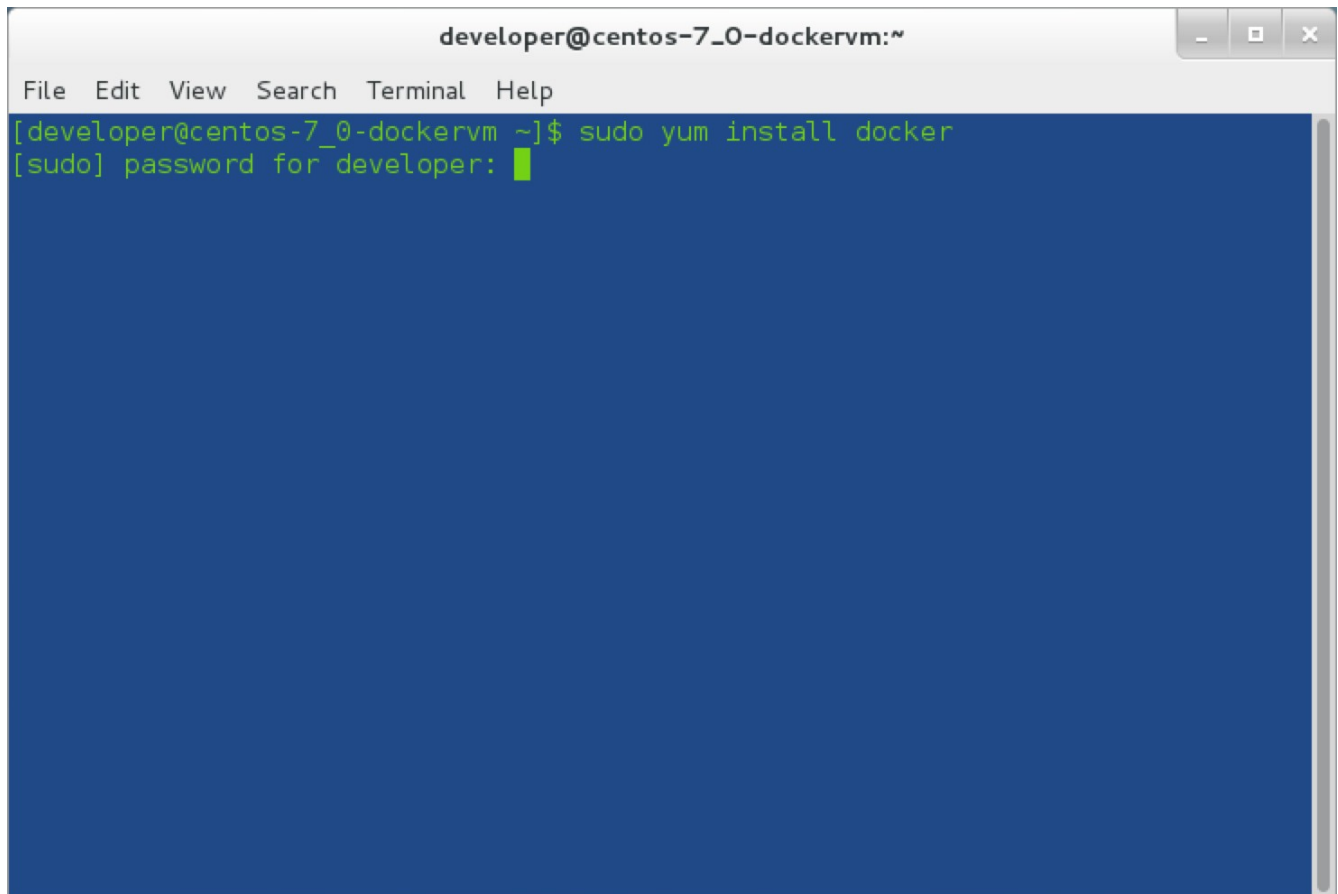


# Installing Docker on CentOS 7.0

## Install Docker

This is as simple as running `sudo yum install docker` in the terminal:

A terminal window titled "developer@centos-7\_0-dockervm:~" with standard window controls. The terminal has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The command prompt shows the user running "sudo yum install docker". The next line shows the sudo prompt "password for developer:" followed by a green cursor. The rest of the terminal area is empty blue space.

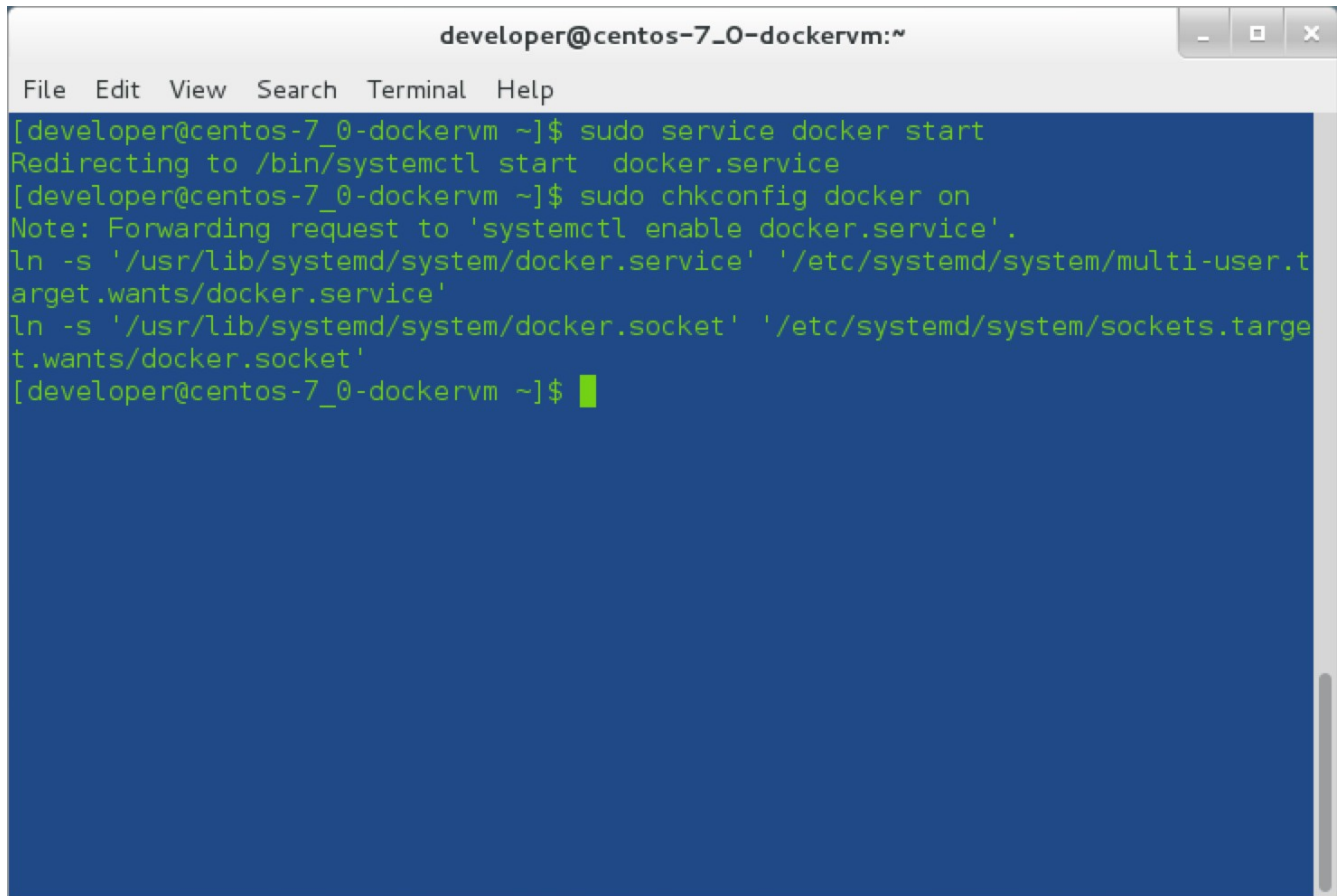
```
developer@centos-7_0-dockervm:~  
File Edit View Search Terminal Help  
[developer@centos-7_0-dockervm ~]$ sudo yum install docker  
[sudo] password for developer: █
```

When all is done the installation will say it's complete:

```
developer@centos-7_0-dockervm:~  
File Edit View Search Terminal Help  
warning: /var/cache/yum/x86_64/7/extras/packages/docker-1.2.0-1.8.el7.centos.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY  
Public key for docker-1.2.0-1.8.el7.centos.x86_64.rpm is not installed  
docker-1.2.0-1.8.el7.centos.x86_64.rpm | 5.5 MB 00:06  
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7  
Importing GPG key 0xF4A80EB5:  
  Userid      : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"  
  Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5  
  Package     : centos-release-7-0.1406.el7.centos.2.3.x86_64 (@anaconda)  
  From        : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7  
Is this ok [y/N]: y  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
  Installing : docker-1.2.0-1.8.el7.centos.x86_64 1/1  
  Verifying  : docker-1.2.0-1.8.el7.centos.x86_64 1/1  
  
Installed:  
  docker.x86_64 0:1.2.0-1.8.el7.centos  
  
Complete!  
[developer@centos-7_0-dockervm ~]$
```

## Start the Docker Service

There's a couple of things you need to do here. One is to get the Docker daemon running and the other is to ensure the Docker daemon is running when you restart. Run `sudo service docker start` to start the Docker daemon. Then run `sudo chkconfig docker on` to ensure the Docker daemon is running when you restart your system.

A terminal window titled 'developer@centos-7\_0-dockervm:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output shows the following commands and their results:

```
[developer@centos-7_0-dockervm ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[developer@centos-7_0-dockervm ~]$ sudo chkconfig docker on
Note: Forwarding request to 'systemctl enable docker.service'.
ln -s '/usr/lib/systemd/system/docker.service' '/etc/systemd/system/multi-user.target.wants/docker.service'
ln -s '/usr/lib/systemd/system/docker.socket' '/etc/systemd/system/sockets.target.wants/docker.socket'
[developer@centos-7_0-dockervm ~]$
```

## Docker User Configuration

All Docker commands must be run as root by default, meaning you must continually use `sudo` to run Docker commands. This can be changed by adding yourself, in this example `developer`, to the `docker` group like so:

```
$ sudo usermod -a -G docker developer
```

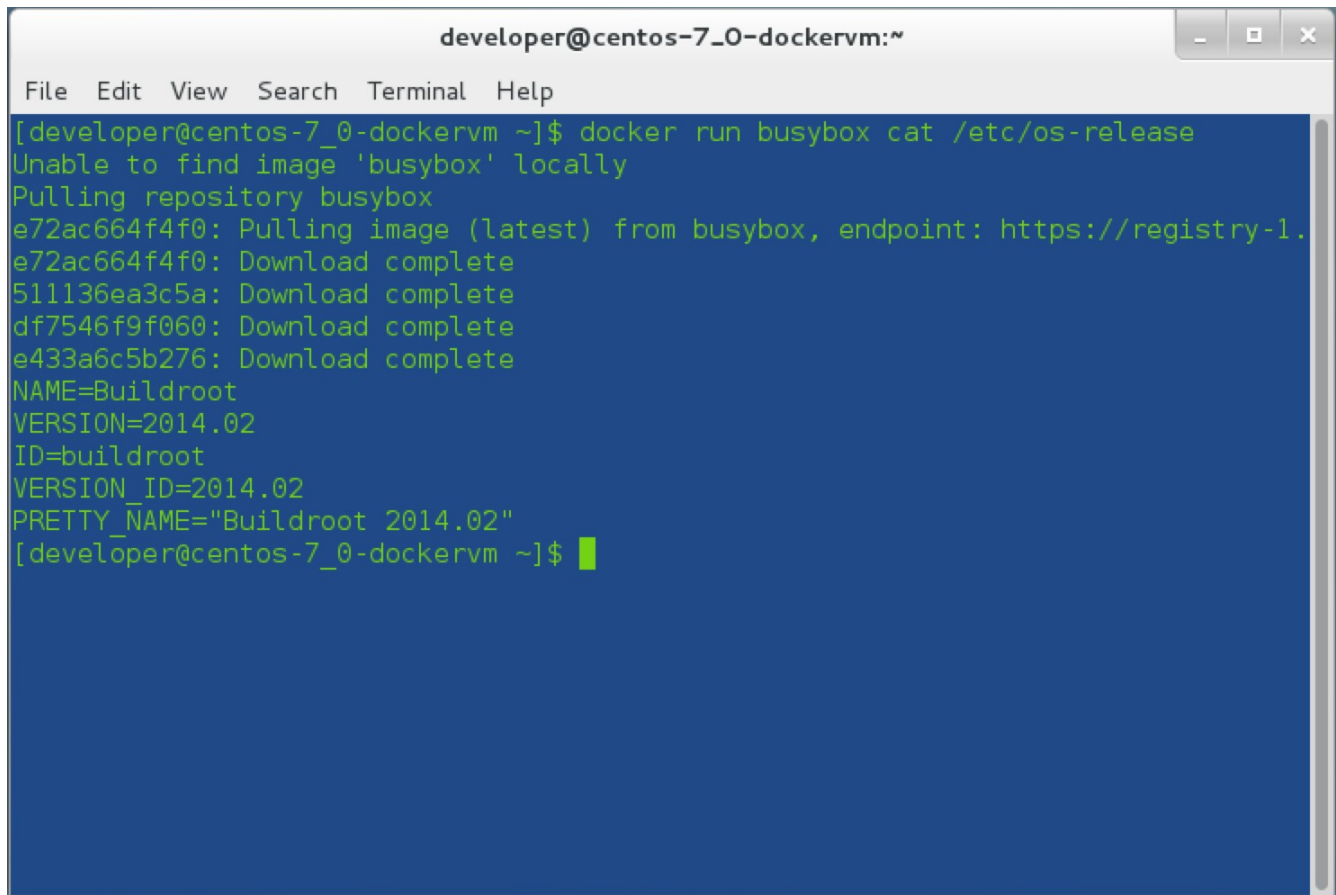
You'll have to logout and re-login for the changes to take effect.

## Test Docker Installation

Now that you have Docker installed, configured and running let's test the installation to ensure everything is running properly. To do so run the following in the terminal:

```
$ docker run busybox cat /etc/os-release
```

If everything is running properly you should see results similar to this:

A screenshot of a terminal window titled 'developer@centos-7\_0-dockervm:~'. The terminal has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The command '[developer@centos-7\_0-dockervm ~]\$ docker run busybox cat /etc/os-release' has been executed. The output shows that Docker pulled the 'busybox' image from the registry, displaying various hashes and download status. It then outputs the contents of '/etc/os-release' for the 'buildroot' system, including the name, version (2014.02), ID, and pretty name. The prompt returns to the user.

```
developer@centos-7_0-dockervm:~  
File Edit View Search Terminal Help  
[developer@centos-7_0-dockervm ~]$ docker run busybox cat /etc/os-release  
Unable to find image 'busybox' locally  
Pulling repository busybox  
e72ac664f4f0: Pulling image (latest) from busybox, endpoint: https://registry-1.  
e72ac664f4f0: Download complete  
511136ea3c5a: Download complete  
df7546f9f060: Download complete  
e433a6c5b276: Download complete  
NAME=Buildroot  
VERSION=2014.02  
ID=buildroot  
VERSION_ID=2014.02  
PRETTY_NAME="Buildroot 2014.02"  
[developer@centos-7_0-dockervm ~]$
```

Congratulations! You now have Docker successfully installed and running on your system.