

If when running commands to either update the odroid or install a new tool on the odroid you get a message similar to the following, where the IP for ports.archive.ubuntu appears unreachable, refer to this document. You will also apply the change to the VM as well.

```
odroid@odroid:~$ sudo apt update --fix-missing
Ign:1 http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates InRelease
Err:2 http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates Release
      404 Not Found [IP: 91.189.91.39 80]
0% [Connecting to ports.ubuntu.com (91.189.88.150)]
```

```
odroid@odroid:~$ sudo apt update --fix-missing
Ign:1 http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates InRelease
Err:2 http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates Release
      404 Not Found [IP: 91.189.91.39 80]
0% [Connecting to ports.ubuntu.com (91.189.88.150)]^C
odroid@odroid:~$ sudo apt update --fix-missing
Ign:1 http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates InRelease
Err:2 http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates Release
      404 Not Found [IP: 91.189.91.38 80]
Err:3 http://ports.ubuntu.com/ubuntu-ports xenial InRelease
      Could not connect to ports.ubuntu.com:80 (91.189.88.150), connection timed out
Err:4 http://ports.ubuntu.com/ubuntu-ports xenial-updates InRelease
      Unable to connect to ports.ubuntu.com:http:
Err:5 http://ports.ubuntu.com/ubuntu-ports xenial-backports InRelease
      Unable to connect to ports.ubuntu.com:http:
Err:6 http://ports.ubuntu.com/ubuntu-ports xenial-security InRelease
      Unable to connect to ports.ubuntu.com:http:
Reading package lists... Done
E: The repository 'http://ports.archive.ubuntu.com/ubuntu-ports xenial-updates Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
odroid@odroid:~$
```

The IP 91.189.88.150 is unreachable but is also listed in your odroids /etc/hosts file as the address for ports.ubuntu.com used by apt-get when updating the odroid. The current contents of that file will look like this:

```
127.0.0.1      odroid
127.0.0.1      localhost
::1           localhost ip6-localhost ip6-loopback
ff02::1       ip6-allnodes
ff02::2       ip6-allrouters
91.189.88.150 ports.ubuntu.com
```

You can either comment out the final line or replace with the IP with the correct one (using `sudo nano /etc/hosts` to edit the file):

```
127.0.0.1      odroid
127.0.0.1      localhost
::1           localhost ip6-localhost ip6-loopback
ff02::1       ip6-allnodes
ff02::2       ip6-allrouters
185.125.190.39 ports.ubuntu.com
185.125.190.39 ports.archive.ubuntu.com
```

If you comment out the above lines (those that hard code the IP address for `ports.ubuntu.com` and `ports.archive.ubuntu.com`) instead and rely on DNS to resolve the issue, you will need to change the DNS server used by the odroid/VM as well. This change is also necessary in lab 13, but the lab instructions there will cover it as well. If you want to change the DNS server now do the following:

```
sudo nano /etc/resolv.conf
```

Make the following change:

```
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
#nameserver 69.1.30.42
#nameserver 69.1.30.43
nameserver 146.229.1.200
nameserver 146.229.56.2
```

We do not have service with the previous DNS server anymore and 146.229.1.200 and 146.229.56.2 are UAH's current DNS server. You may alternatively use 8.8.8.8 and 8.8.4.4 (Google's public DNS server).

On the VM you will also change the DNS server:

```
## Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
#nameserver 127.0.1.1
nameserver 146.229.1.200
nameserver 146.229.56.2
```