

Instructions for cloning the VM (Ubuntu)

No, there's no strong reason for cloning as opposed to just running an install for a new VM – EXCEPT if you've already installed SOLR or Zookeeper and want to clone as a way to avoid having to install multiple times. Obviously, if you want to upgrade the OS to a later version, installing is the way to go.

1. If the one you want to clone is running, shut it down.
`sudo poweroff`
2. In VirtualBox, right click the one you want to clone and select "clone"
3. Select the option to reinitialize the MAC address of all network cards
4. Change the name to something appropriate and click continue
5. Select "Full Clone" if it isn't already selected and click continue
6. Select "Current Machine State" and click "Clone"
7. Wait for the progress bar to finish
8. Consider adding a "hosts" entry for this machine to whatever your "main" controller box is. In this case, my Mac.
<http://www.tekrevue.com/tip/edit-hosts-file-mac-os-x/>
(easy path - use Finder --> Go --> Go to folder (/private/etc) -- then drag and drop hosts to the desktop.)

Edit the file while it's on your desktop and add entry (entries) for the VM(s) you are creating.

Drag it back to /private/etc/hosts when done editing.

Or: `sudo nano /private/etc/hosts`

```
/private/etc/hosts -- add something like
#SOLR 5.4 VM's
192.168.56.15 solr5
```

Instructions for "fixing" the differences between the clone and the original machine

1. If you have scripts for starting the machines or other things that reference them, you might want to change these now.

NOTE: At this point the VM will have the SAME IP ADDRESS as the machine you cloned it from.

Either open it with VirtualBox (not preferred because iTerm is so much nicer to use) or remember

that you have to SSH in to the "wrong" IP address (the one for the cloned VM) while you fix things and reboot.

It will help if the original machine you cloned from IS NOT RUNNING!

2. Change the name of the machine

```
sudo nano /etc/hostname
```

Change the name in here to be something short and useful

solr5 or something similar.

It does NOT need to match the more descriptive name in VirtualBox.

3. Fix the networking

```
sudo nano /etc/network/interfaces
```

Change the line with the ip address from the cloned machine to be the correct ip you want for this machine. Thus:

address 192.168.56.2 becomes:

address 192.168.56.15 -- or something similar.

Naturally this won't take effect unless you restart the networking, but hold on, one more thing.

3. Fix the hosts file and add any other machines as appropriate

```
sudo nano /etc/hosts
```

The machine this one was cloned from will be correctly represented in this file - you need to change things so that the loopback host name (127.0.1.1) has the correct name

(This is Ubuntu Server 14.x, so your mileage may vary.)

4. Restart the networking OR just reboot the VM

```
ifconfig eth1 down
```

```
ifconfig eth1 up
```

Or, just reboot because if you're ssh'd in, your connection will drop when you issue the ifconfig eth1 down command.