

# VirtualBox Resources

## Ubuntu 14.04 VM

2015.11.26 by anthony

### Sources

<https://www.virtualbox.org/wiki/Downloads>

The main ubuntu download link was very slow, so I used a mirror, which was very fast:

<http://mirror.pnl.gov/releases/trusty/>

<http://askubuntu.com/questions/64915/how-do-i-install-ubuntu-on-a-virtualbox-client-from-an-iso-image>

<https://help.ubuntu.com/community/VirtualBox>

### Increasing screen resolution

The VM originally had a 640×480 resolution, which is tiny.

Found several message board posts giving incorrect information. This one gave correct answer, although it includes a typo:

<https://forums.virtualbox.org/viewtopic.php?f=3&t=63825#p299936>

From the post, with the typo corrected (replaced dkms for dkmd).

```
We don't support the Ubuntu fork of the guest additions.
```

```
I would suggest that you remove them and install the official ones from your VirtualBox.
```

```
Start the guest and install the following packages then click on the device tab and click insert guest additions.
```

```
sudo apt-get install dkms build-essential linux-headers-generic
```

## Adjusting size of VDI (virtual disk)

Initially made an 8GB primary partition, which filled up after installing only a few things! Increased to 15GB resizing the VDI using the VirtualBox vboxmanage tools on the OSX command line, installing gparted on Ubuntu, deleting the swap partition, resizing the primary partition, and then recreating the same sized swap partition. So far so good.

Chose “dynamically allocated” storage option when I set up the VM, but I still don't understand or see any evidence of it adjusting itself.

<https://www.virtualbox.org/manual/ch08.html#vboxmanage-modifyvdi>

<http://osxdaily.com/2015/04/07/how-to-resize-a-virtualbox-vdi-or-vhd-file-on-mac-os-x/>

<https://forums.virtualbox.org/viewtopic.php?f=6&t=46814>

## Shared folders

<https://help.ubuntu.com/community/VirtualBox/SharedFolders>

This is the page the finally solved my problem:

<http://lifecs.likai.org/2014/04/virtualbox-shared-folder-linux-notes.html>

```
120 sudo mount -t vboxsf -o uid=$UID,gid=$(id -g) acate /media/sf_acate
121 dmesg | tail
125 sudo updatedb
127 locate mount.vboxsf
128 ll `locate mount.vboxsf`
134 cat /etc/modules
135 echo `locate mount.vboxsf`
136 ln -sf `locate mount.vboxsf` /sbin/mount.vboxsf
137 sudo ln -sf `locate mount.vboxsf` /sbin/mount.vboxsf
148 sudo mount -t vboxsf -o uid=$UID,gid=$(id -g) acate /media/sf_acate
154 mount
158 cat /etc/fstab
159 sudo pico /etc/fstab
163 sudo pico /etc/modules
```

## Changed permissions on shared folder

<2016-01-14>

On 2015 Macbook Air laptop.

Permissions had always been `root:root`, which was very inconvenient. So Anthony set them to be `anthony:anthony` by changing `/etc/fstab`:

The relevant line now reads:

```
acate /media/sf_acate vboxsf uid=1000,gid=1000 0 1
```

(Reboot required after change).

Found instructions from these links:

<http://ubuntuforums.org/showthread.php?t=1398340>

<https://askubuntu.com/questions/365346/virtualbox-shared-folder-mount-from-fstab-fails-works-once-boo-tup-is-complete>

<https://askubuntu.com/questions/113733/how-do-i-correctly-mount-a-ntfs-partition-in-etc-fstab>

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## Keyboard

<http://askubuntu.com/questions/368437/how-do-i-remap-my-ubuntu-keyboard-shortcuts-to-match-osx>

<https://pubs.vmware.com/fusion-5/index.jsp?topic=%2Fcom.vmware.fusion.help.doc%2FGUID-AFA596FD-7F5F-472F-BA5C-D54F84A61554.html>

<http://blog.nostopbutton.com/2013/08/24/setup-copy-and-paste-between-os-x-and-linux-virtualbox/>

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## Exporting/importing

This process is slightly different from cloning, apparently, and uses what Virtualbox calls “appliances” that can hold multiple VMs.

Anthony took advice from these links:

<https://askubuntu.com/questions/588426/how-to-export-and-import-virtualbox-vm-images>

<https://srackham.wordpress.com/cloning-and-copying-virtualbox-virtual-machines/>

<https://superuser.com/questions/633431/whats-the-recommended-way-to-move-a-virtualbox-vm-to-another-computer>

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## Maintenance Notes

[Ubuntu 14.04 VM maintenance notes](#)

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<https://wiki.anthonycate.org/> - **Visual Cognitive Neuroscience**

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