

3-17-2011

Installing Archivematica v0.7 On A Custom-Sized Xubuntu v10.04.2 Virtual Machine Hosted in VirtualBox v4.0.4

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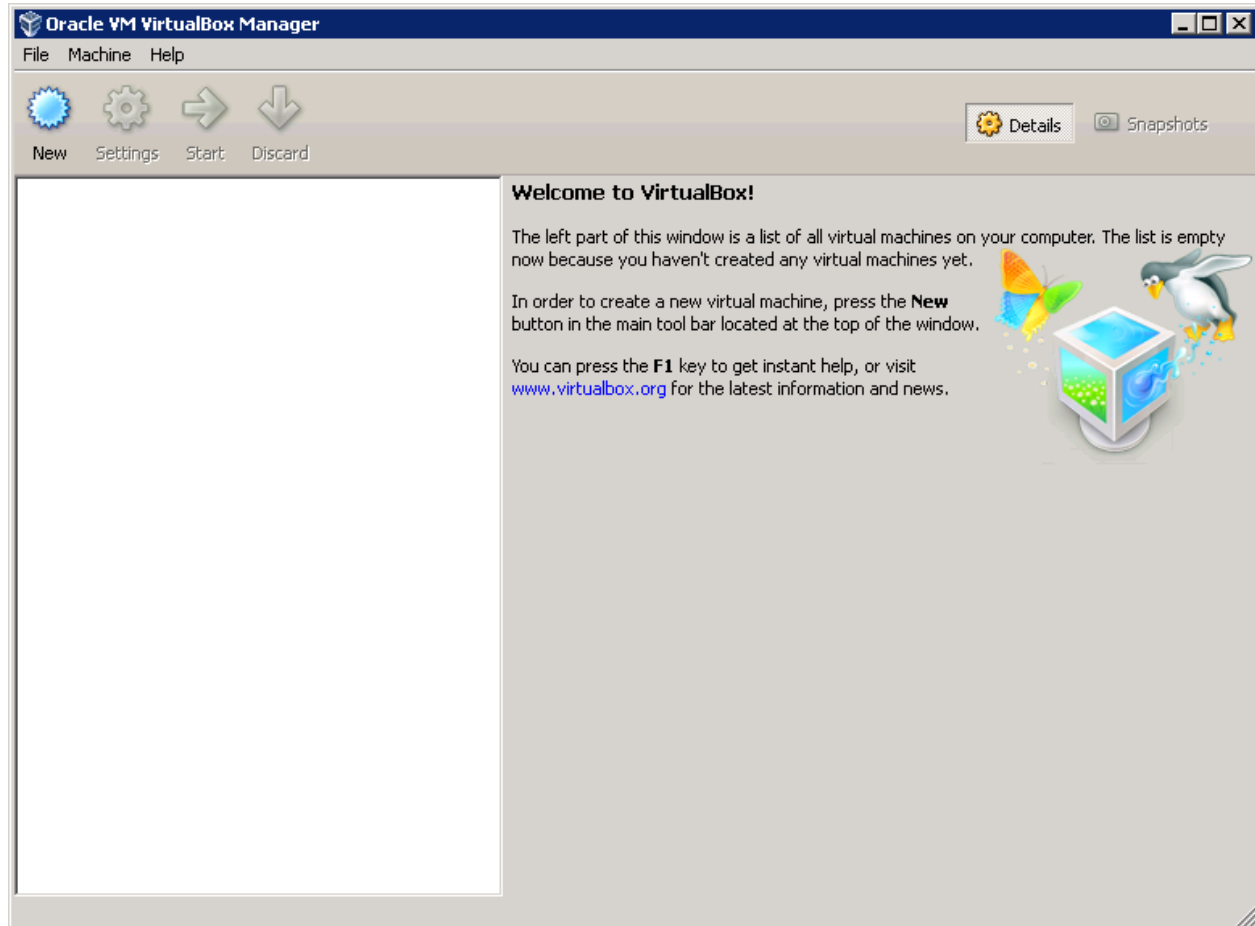
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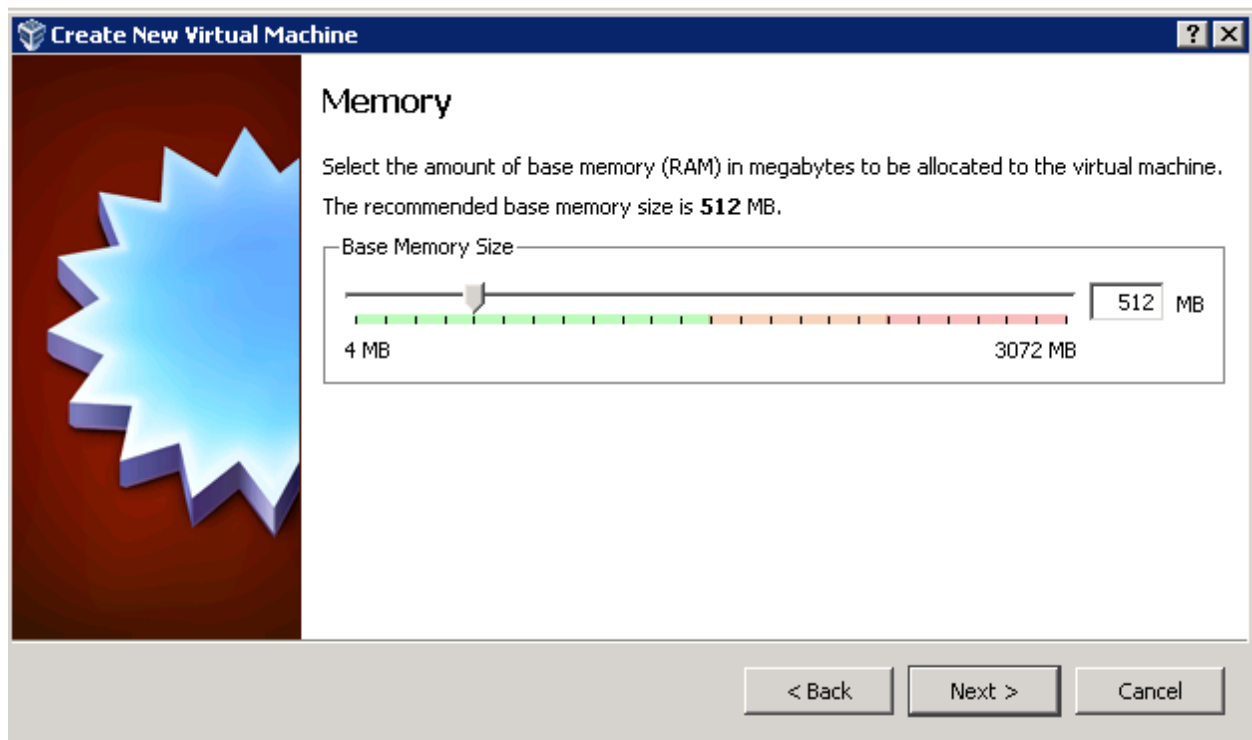
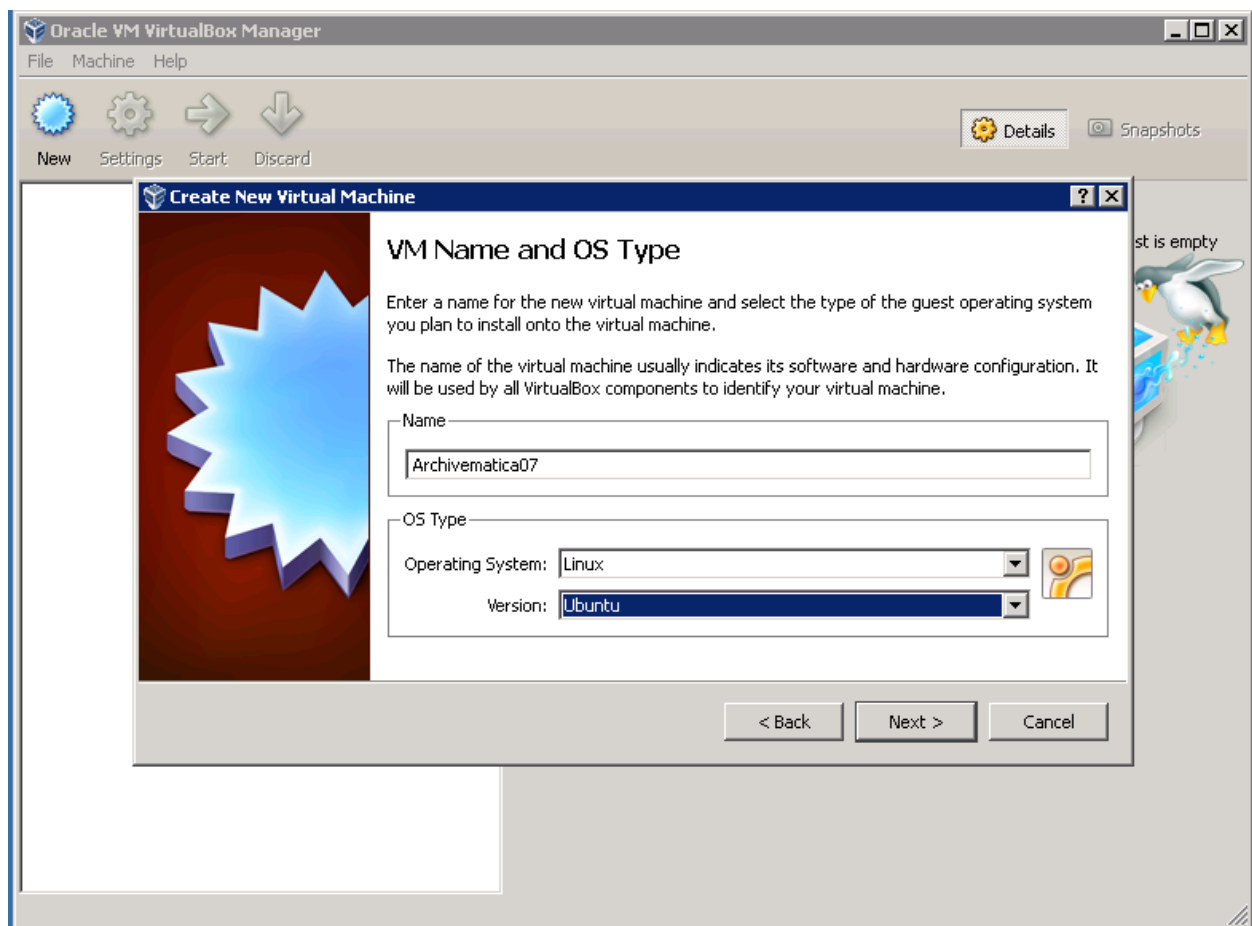
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Installing Archivematica v0.7 On A Custom-Sized Xubuntu v10.04.2 VM Server Hosted in VirtualBox v4.0.4

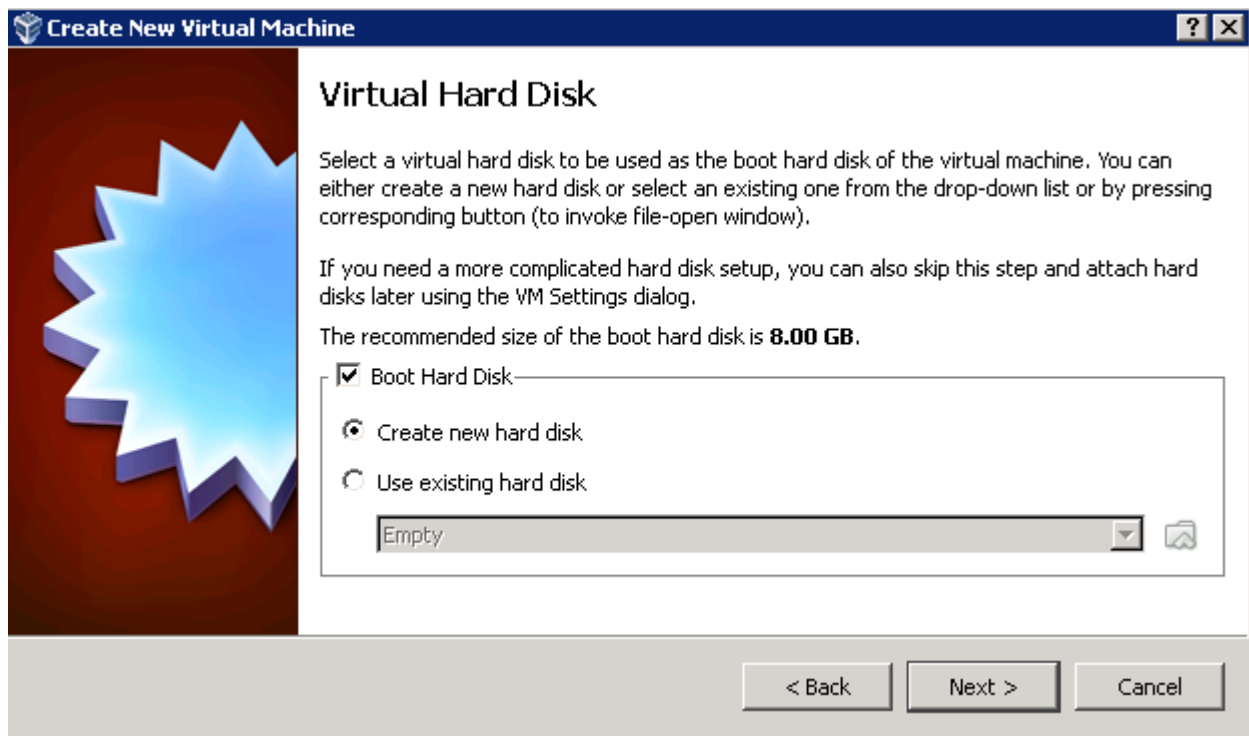
Michael J. Bennett
Digital Projects Librarian
University of Connecticut Libraries
3/13/11

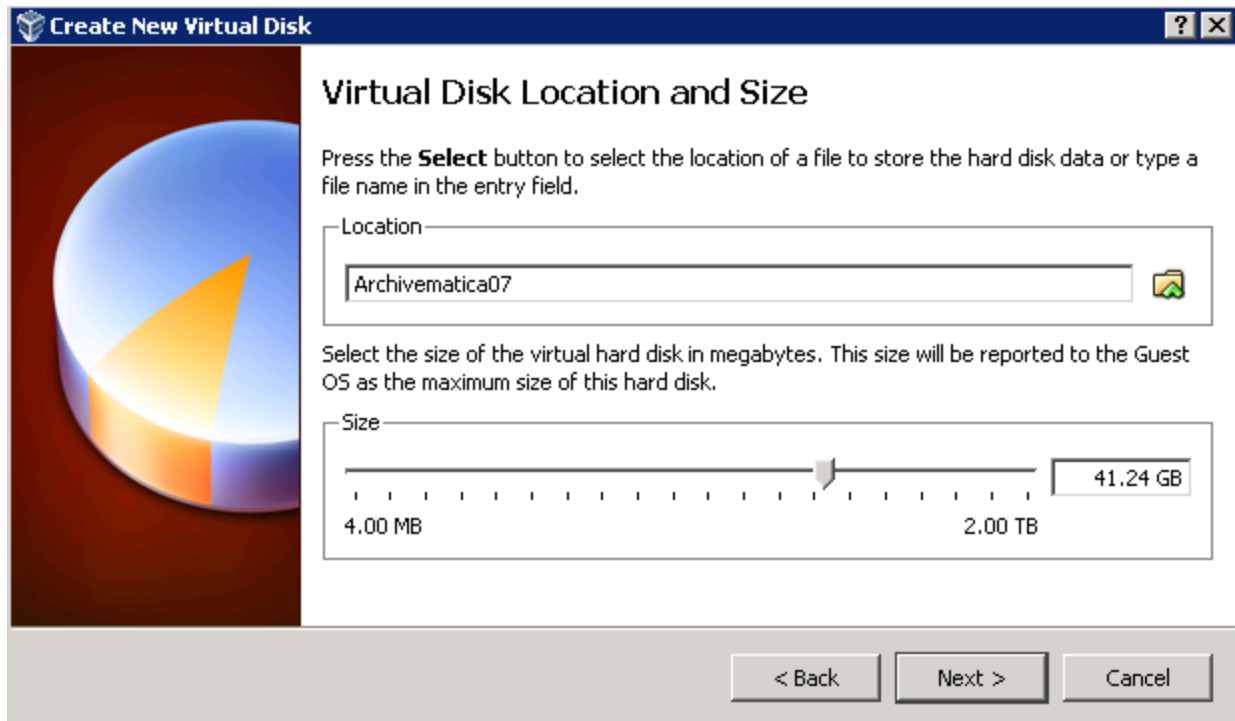


Download (<http://www.virtualbox.org/wiki/Downloads>), install, then open VirtualBox

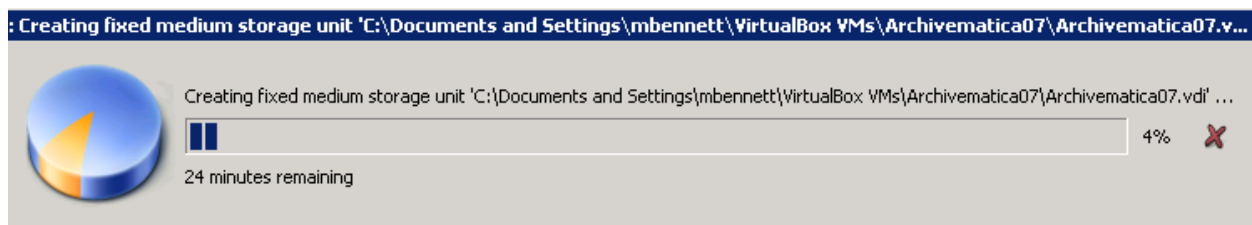
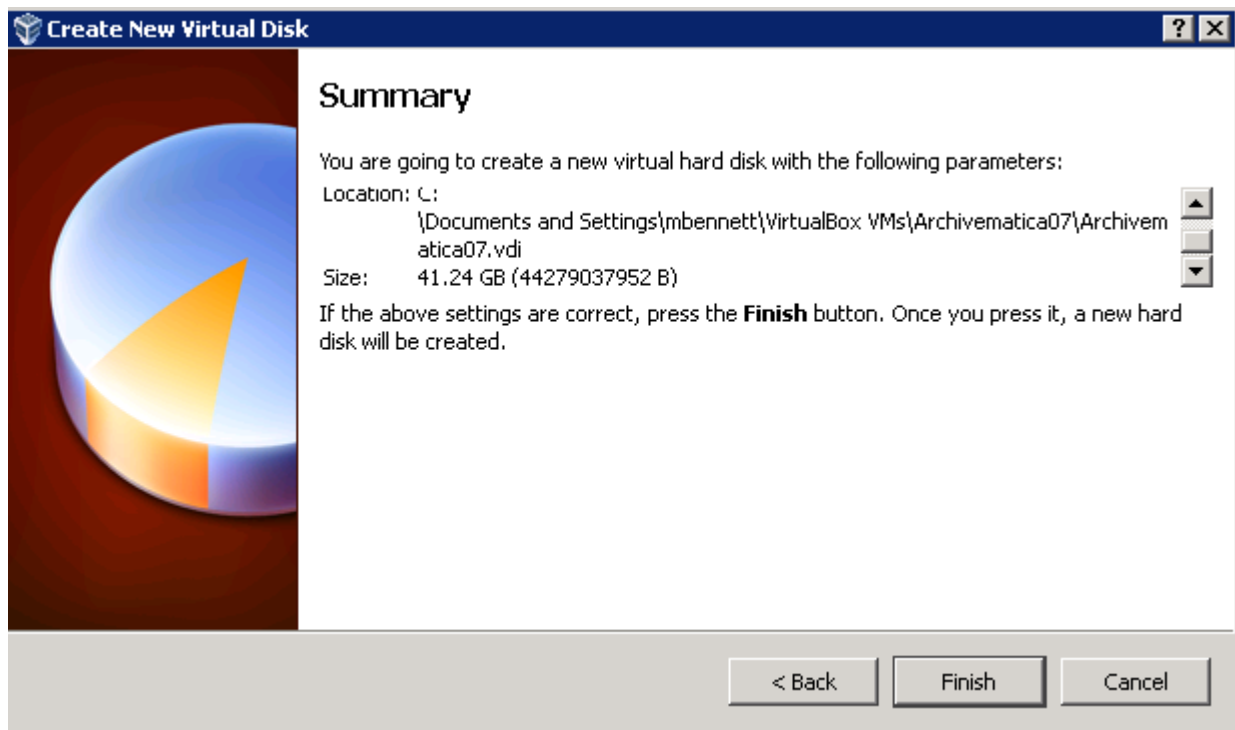


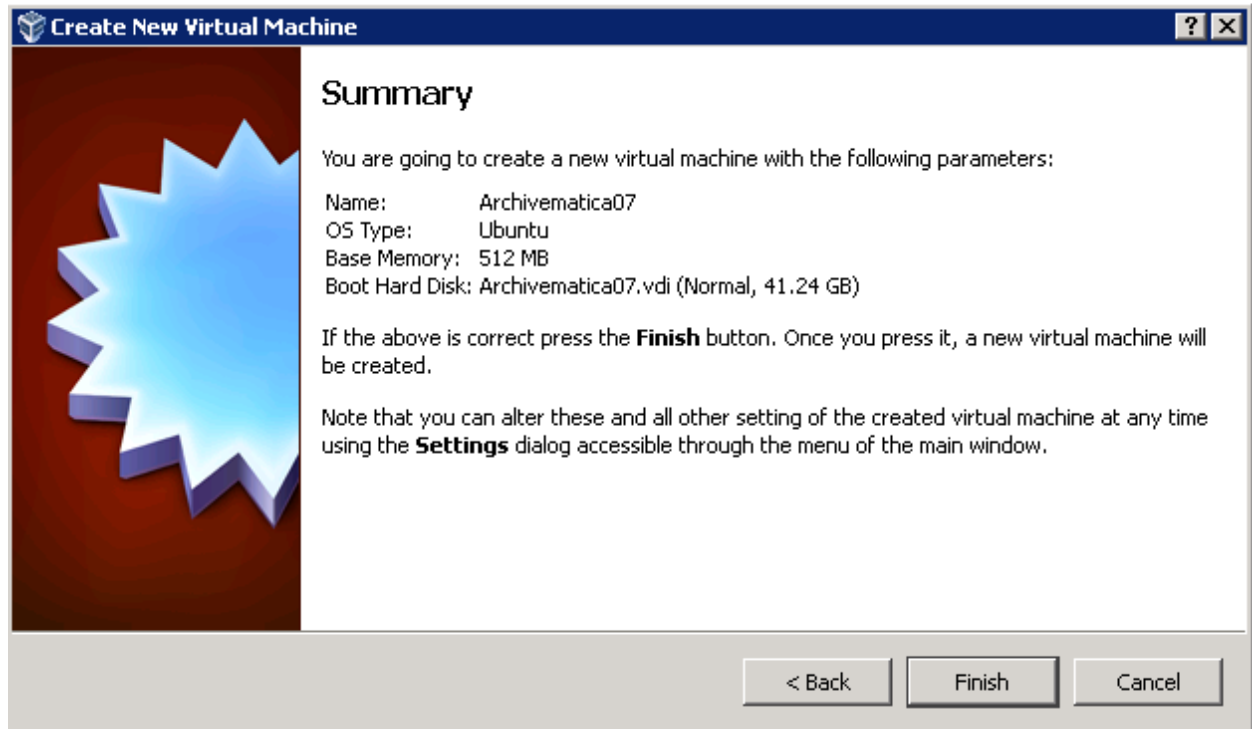
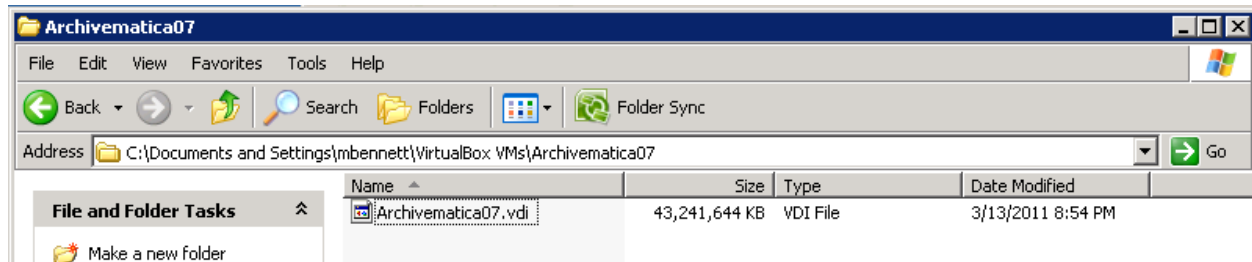
RAM can normally be raised to around 1GB without problems. If the RAM is too high, the Virtual Machine (VM) won't run.



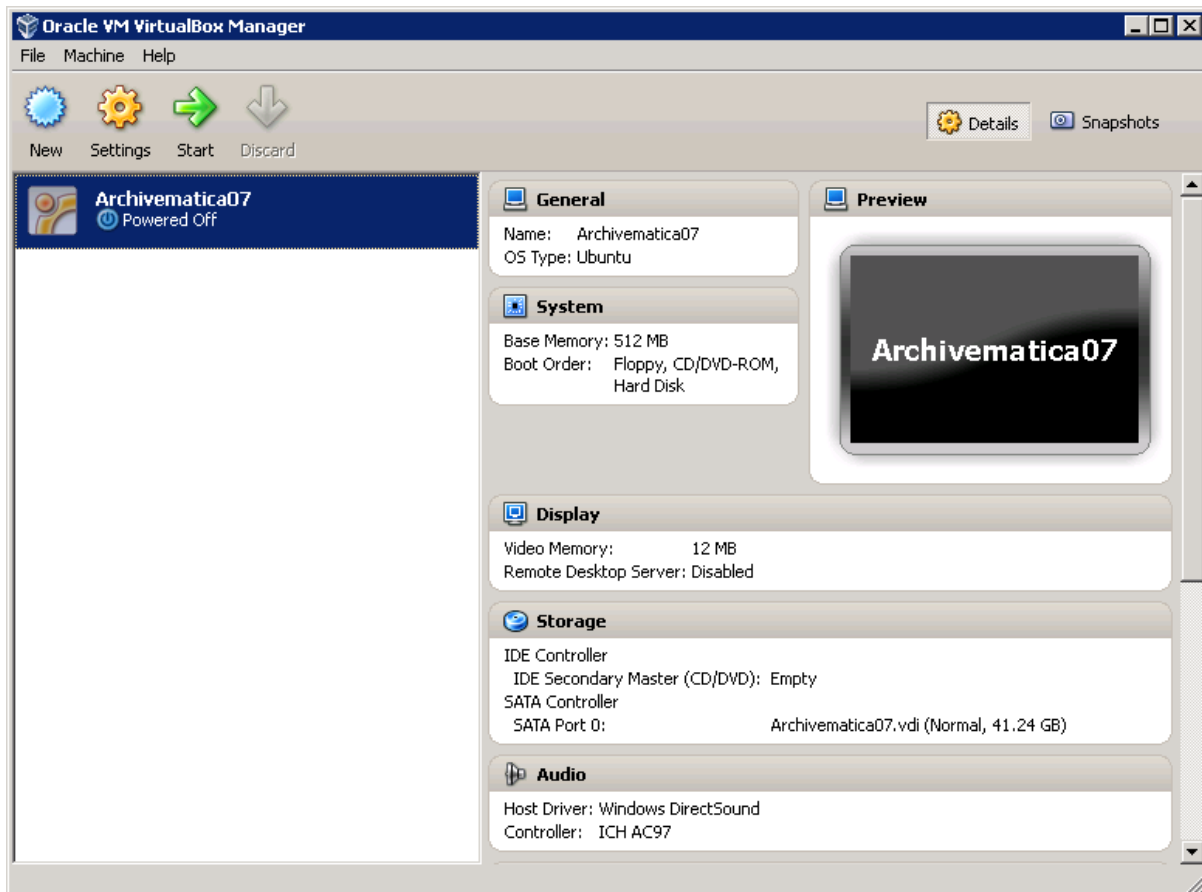


Here is where you customize the total amount of space the VM will occupy. Calculate this based roughly upon the largest SIP you will ingest and multiply that figure by approx 5-6. *This assumes that you have the actual physical space on the host machine.* See the following for how and where VirtualBox doles out such space with its default settings...

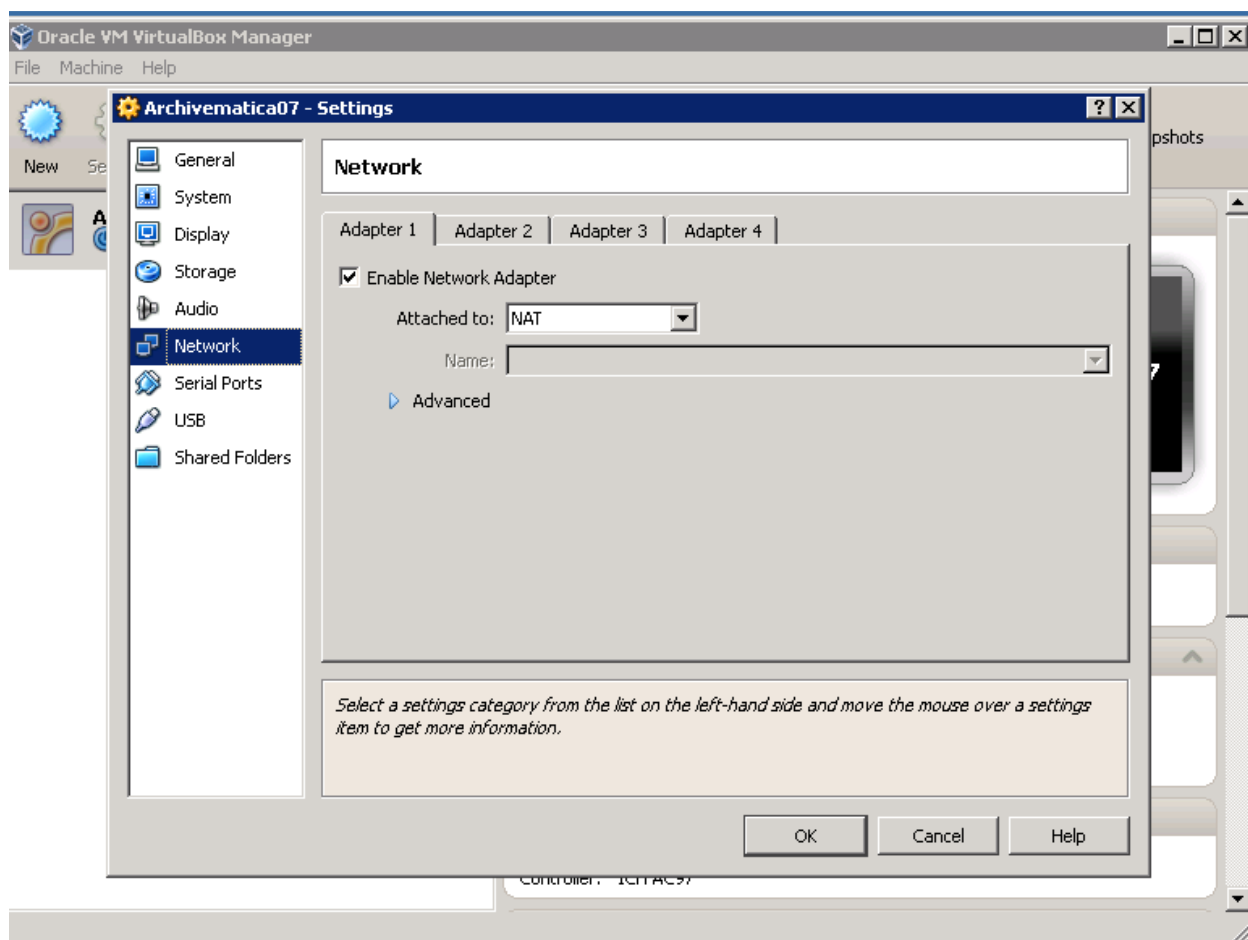




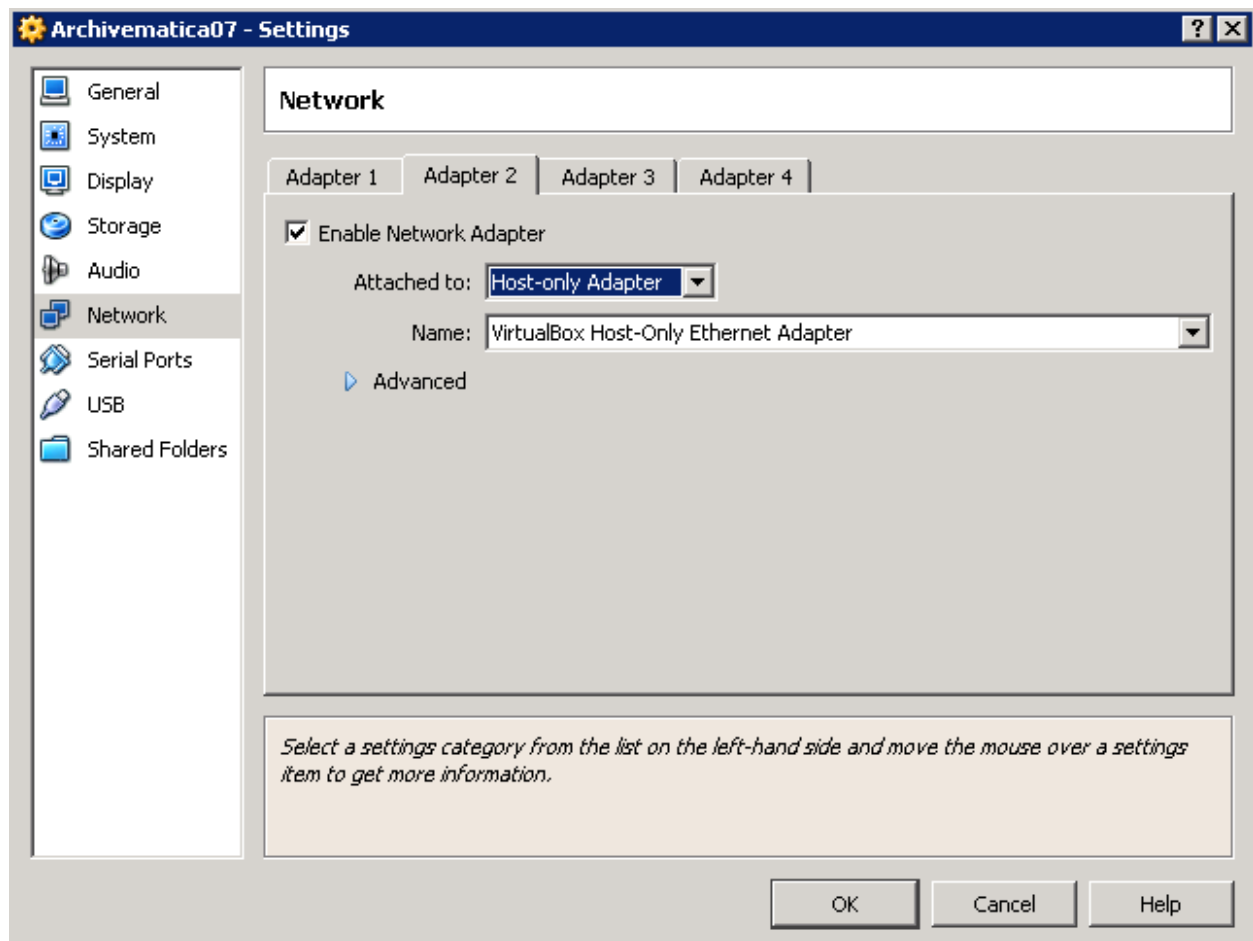
At this point, download Xubuntu 10.04 at <http://cdimage.ubuntu.com/xubuntu/releases/10.04/release/> and save the resulting .iso image. It will be used in the following steps...



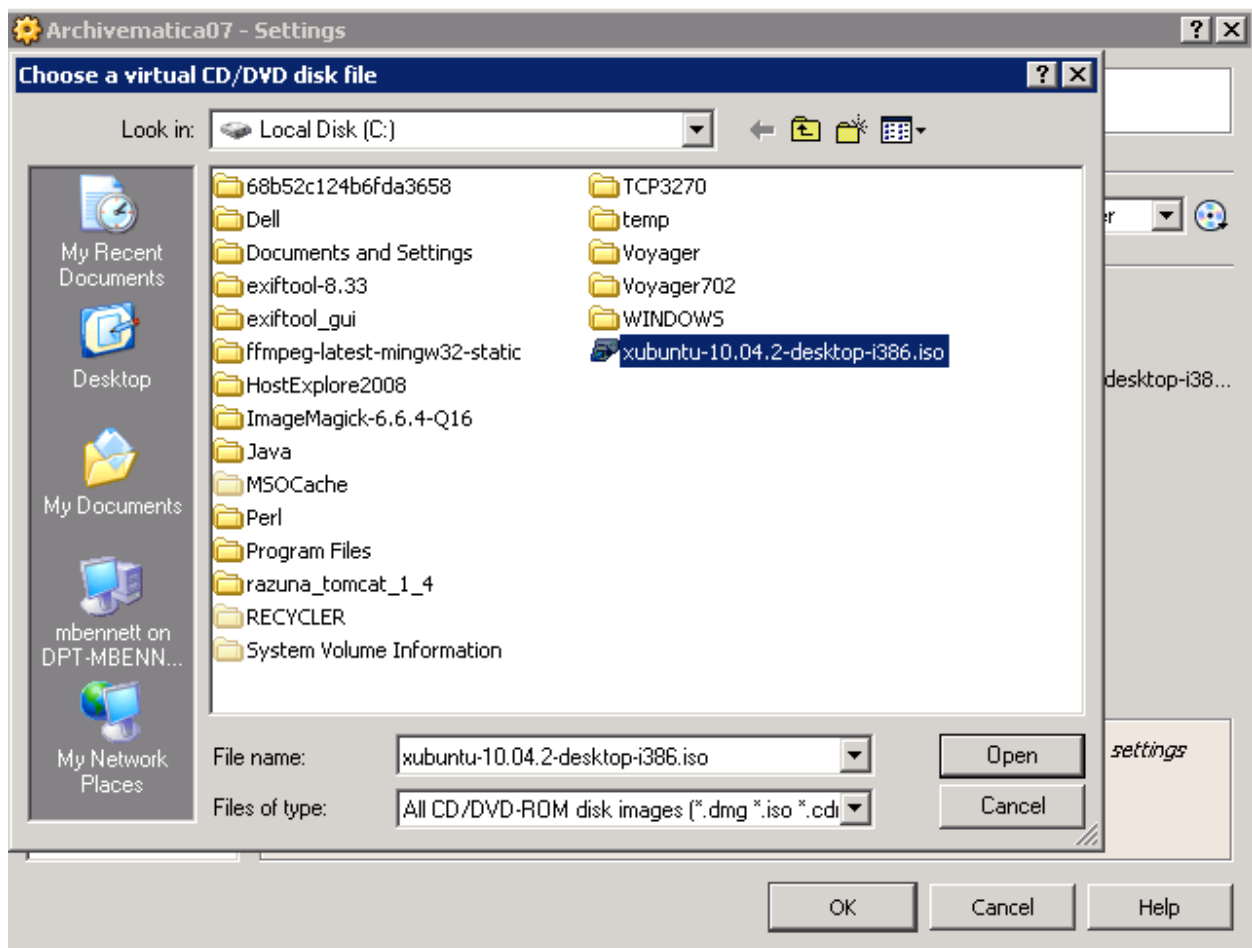
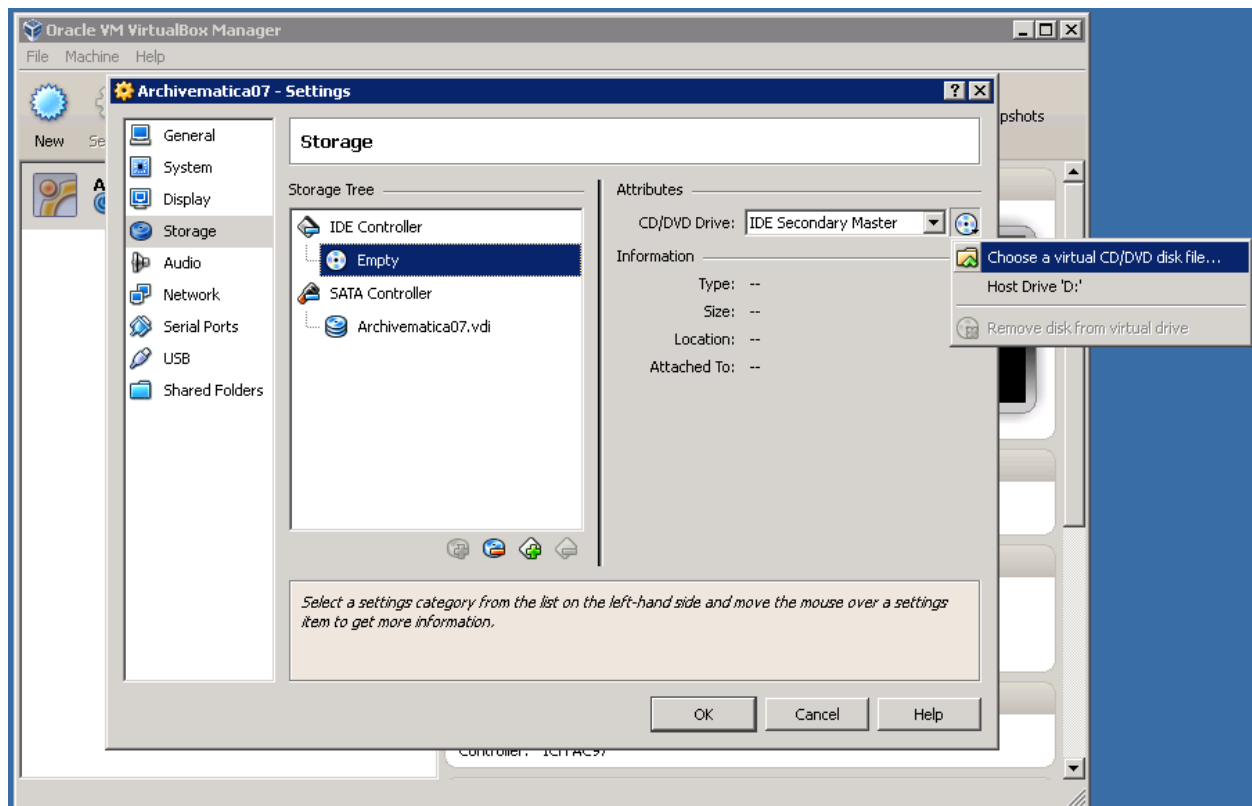
Click "Settings"



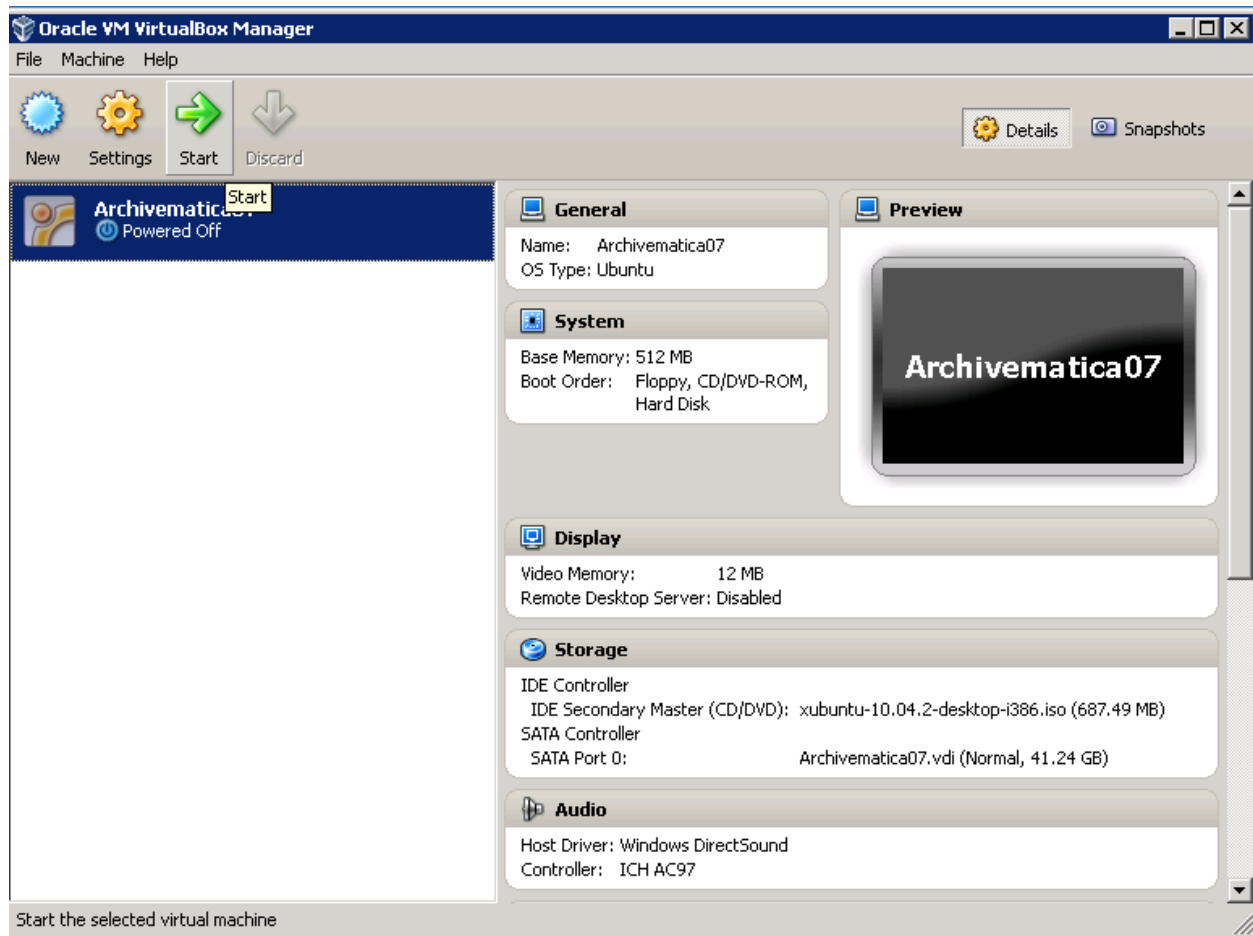
Under Network, this setting allows the VM to get out the Internet



This setting prepares for SFTP



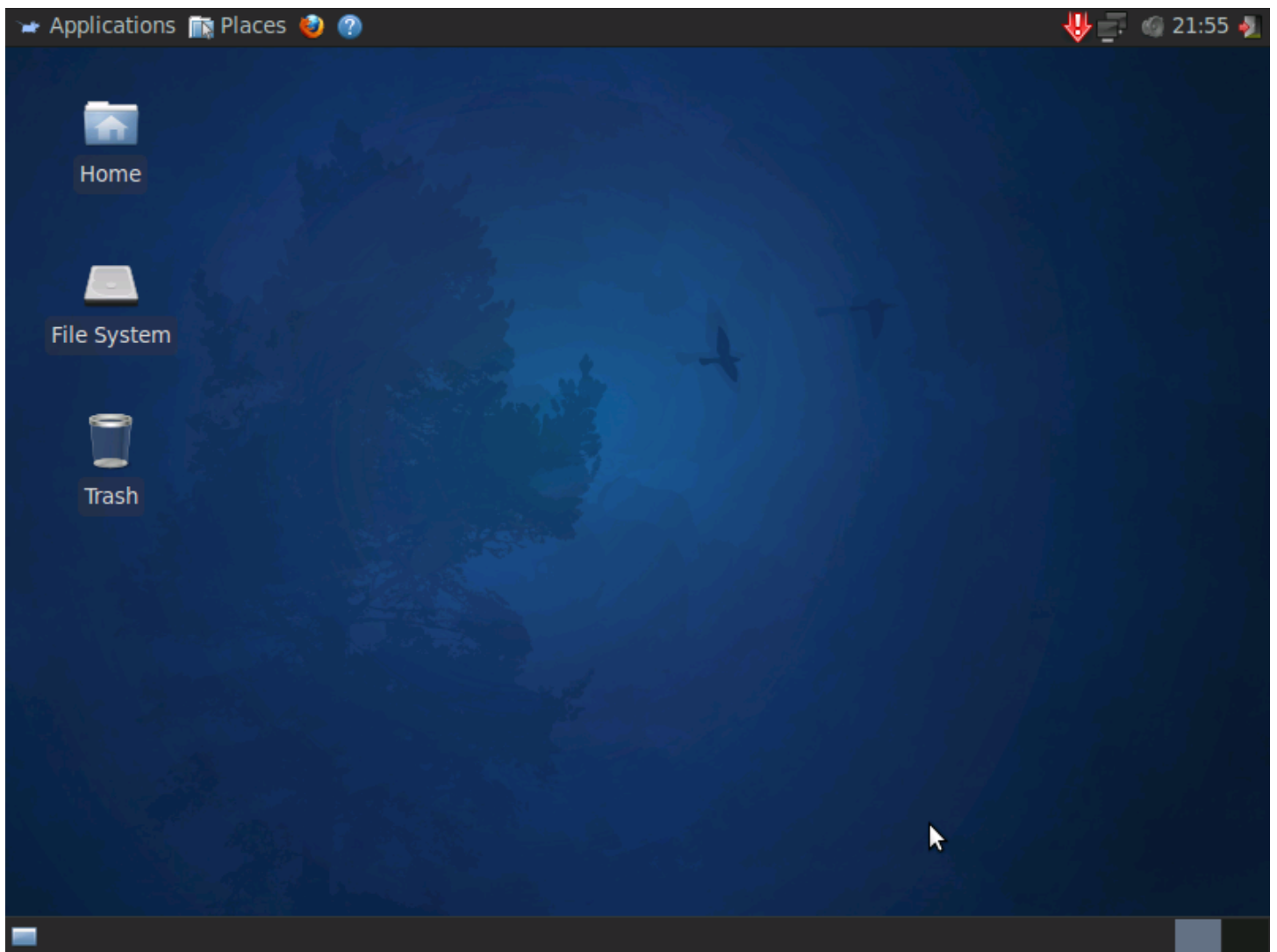
Prepping for the VM's first boot up from the xubuntu iso image.



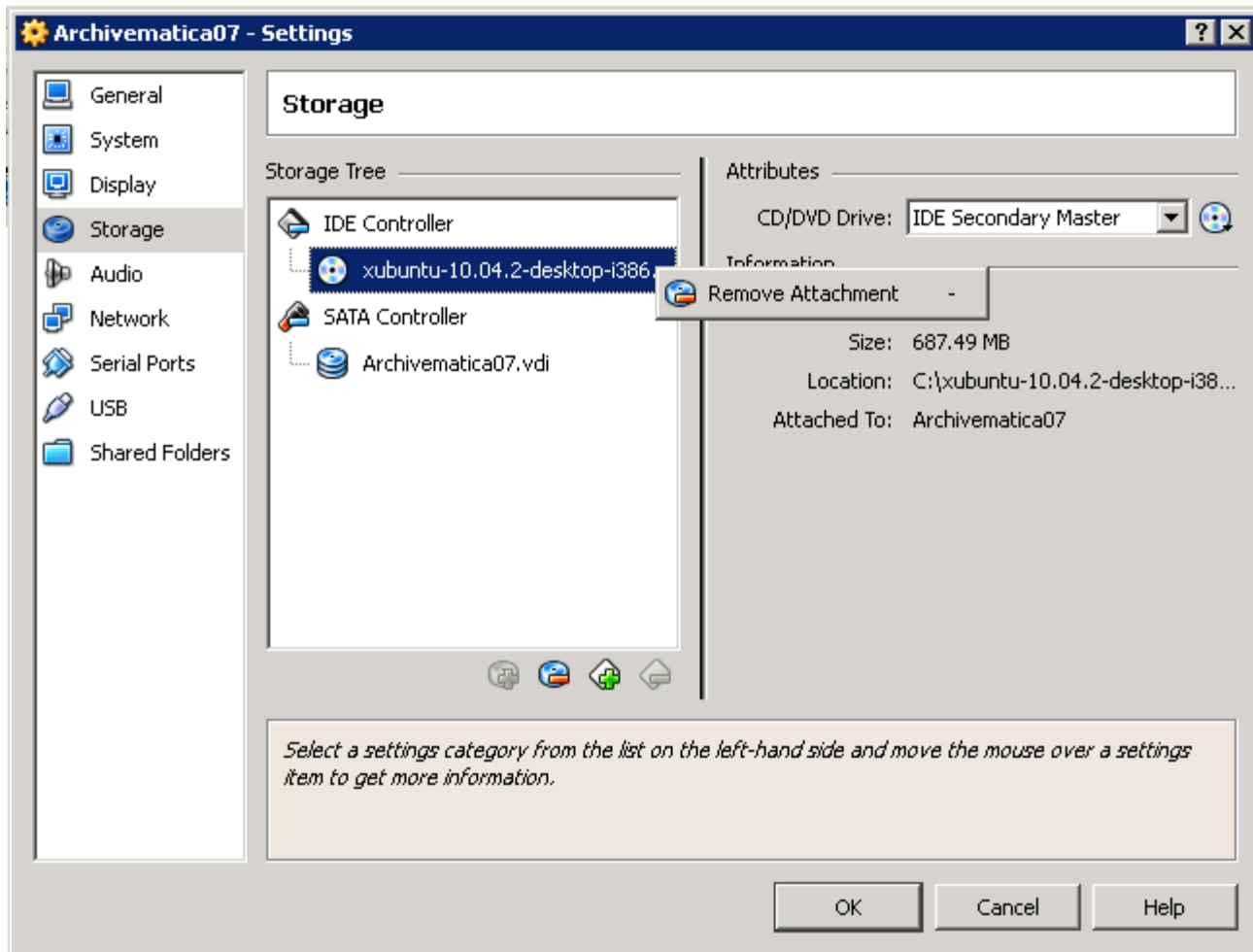
Install Xubuntu (as if you were installing it from a bootable CD) and follow the install wizard.

On Wizard Step #5 when asked, “Who are you?” during the installation, be sure to set user “demo” with password “demo” and scroll down to choose, “Log in automatically”

Re-start Xubuntu VM (note to press ENTER in terminal to get past CD tray warning)



Xubuntu!!!



Before starting machine for the second time, remember to remove CD attachment. Otherwise the VM will try to boot from the xubuntu iso image again.

Ubuntu Repository Package

We provide stable Ubuntu release packages as well as nightly build packages. These are available from the [Archivematica Launchpad PPA](#) (tested on x86, however 64-bit packages are available, testers welcome).

These packages are used to create the Archivematica/Xubuntu virtual appliance available above.

A dedicated Xubuntu 10.04 machine(s) or partition is recommended for a production installation. A fresh Xubuntu 10.04 install is required to install Archivematica from the repository packages. [Download Xubuntu 10.04](#)

To add the Archivematica PPAs, run the following commands in terminal:

```
sudo add-apt-repository ppa:archivematica/release
sudo add-apt-repository ppa:archivematica/externals
```

install archivematica-shotgun(remember your mysql password, or leave blank for ease/demo):

```
sudo aptitude update
sudo aptitude upgrade
sudo aptitude install archivematica-shotgun
```

run vmInstaller-environment.sh(you will be asked for your mysql password[the mcp db exists error is ignorable]):

```
sudo /usr/share/archivematica/vm-includes/vmInstaller-environment.sh
```

On a machine running Thunar (xubuntu 10.04). Run this to include the right click scripts.

```
/usr/share/archivematica/thunarUCA/addArchivematicaGUIScripts.sh
```

Add Crontab for quarantine check(opens a text editor, if given choice choose nano)

```
sudo crontab -e
```

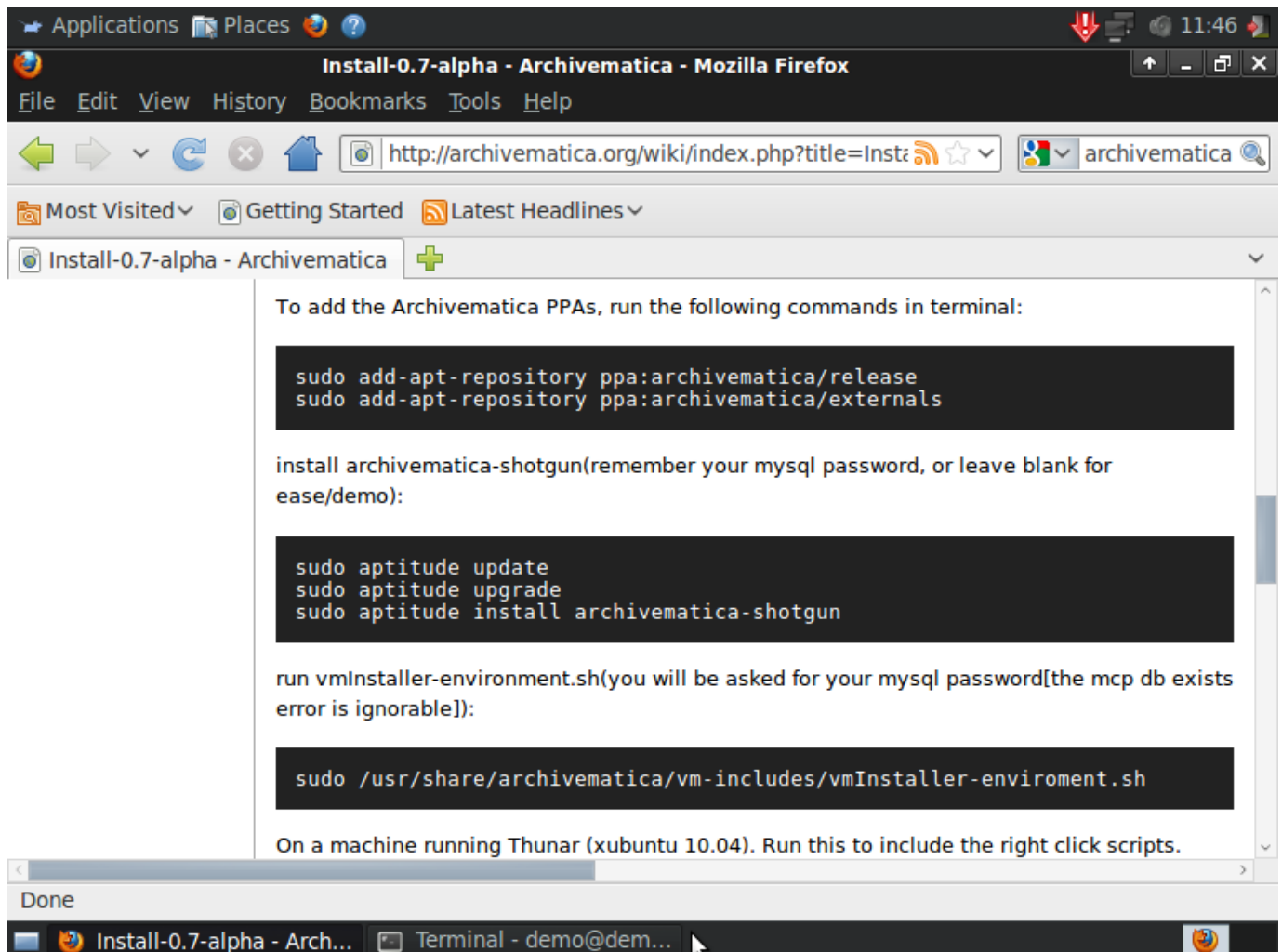
add the following to the bottom of the file, then exit and save(60 is the number of seconds to quarantine files) :

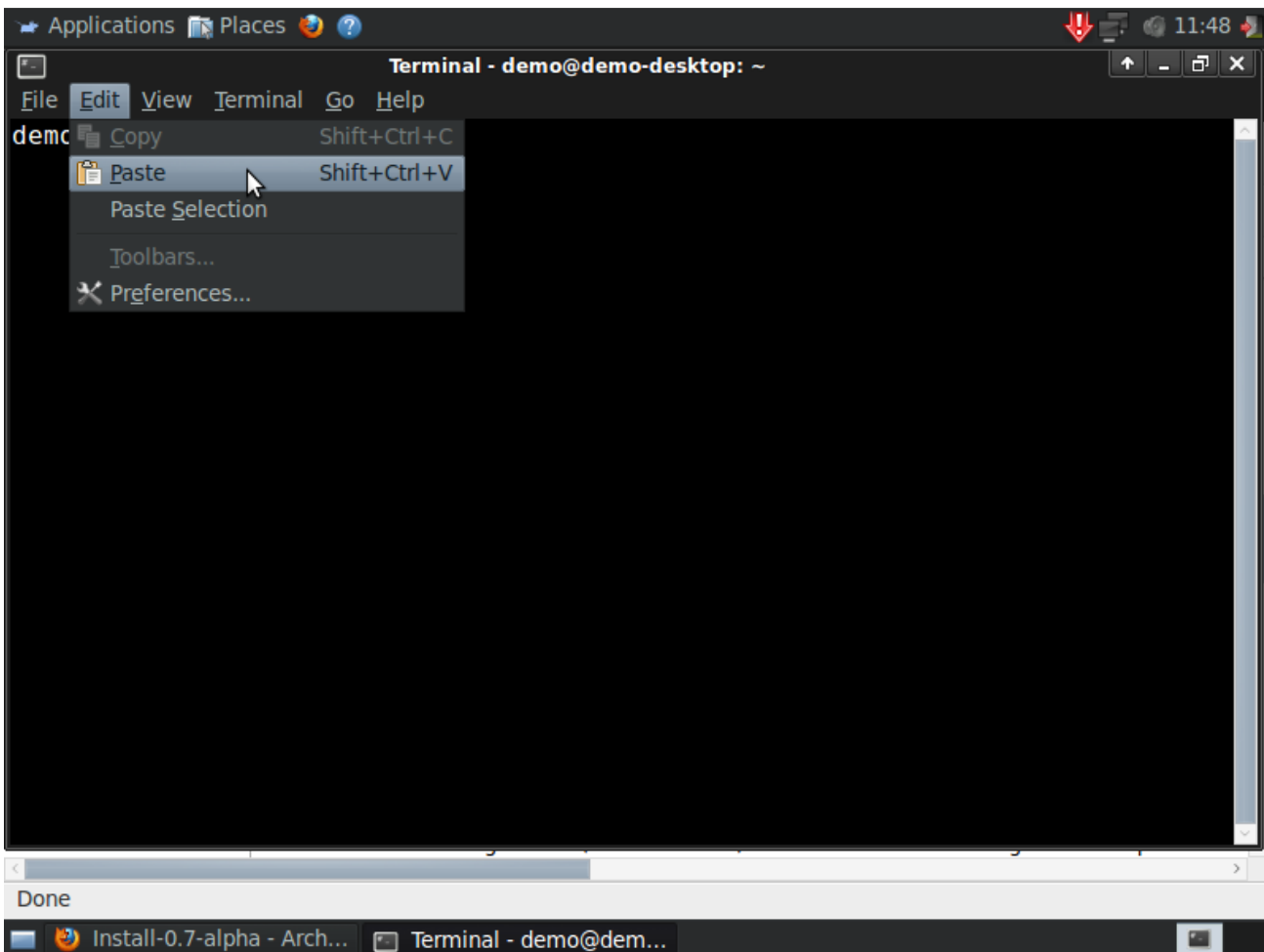
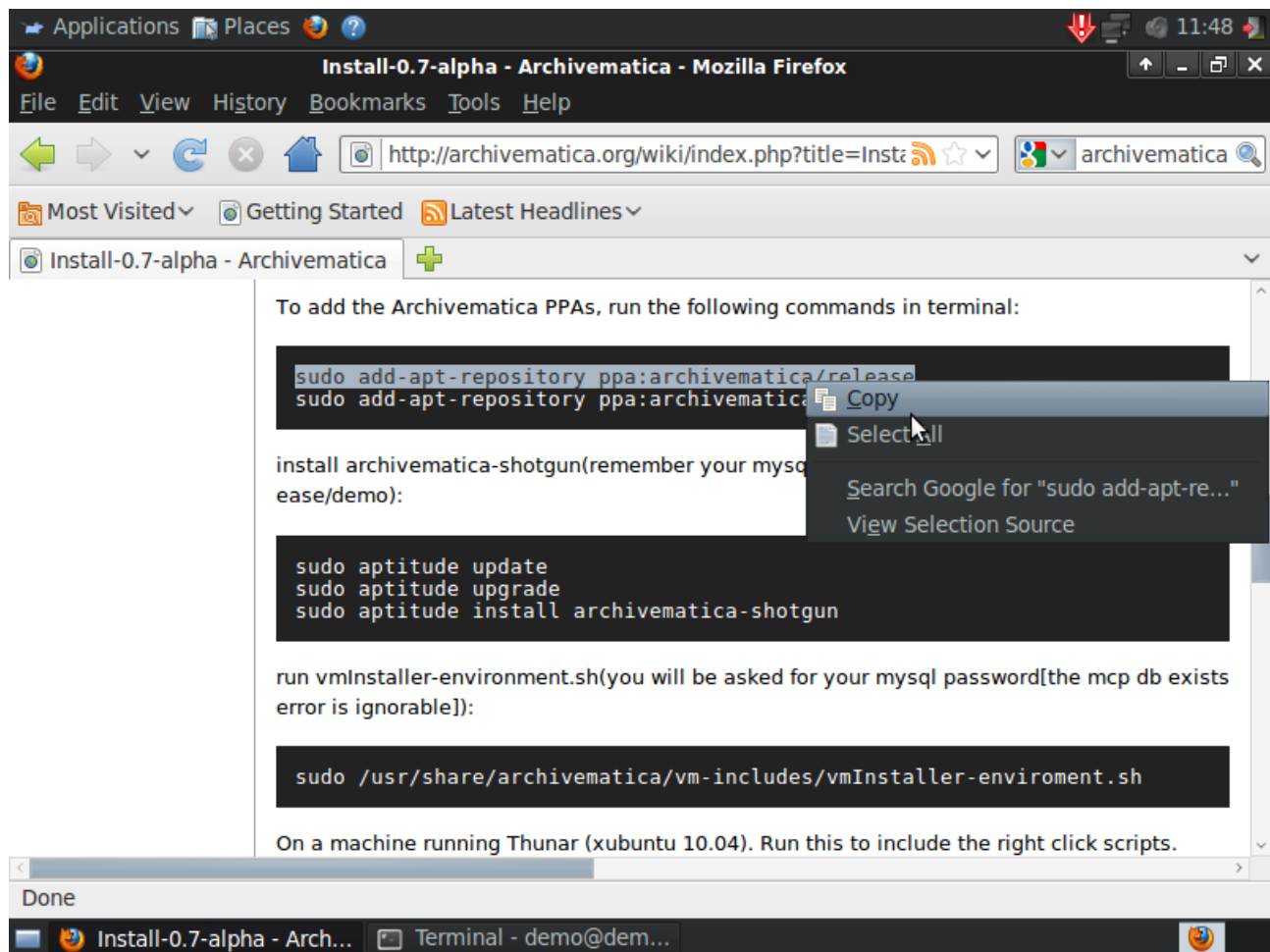
```
* * * * * flock -xn /var/lock/quarantine.lock /usr/lib/archivematica/MCPServer/delay/delay.py 60 "/var/archivematica/sharedDirectory/watchedDirectories/quarantined"
```

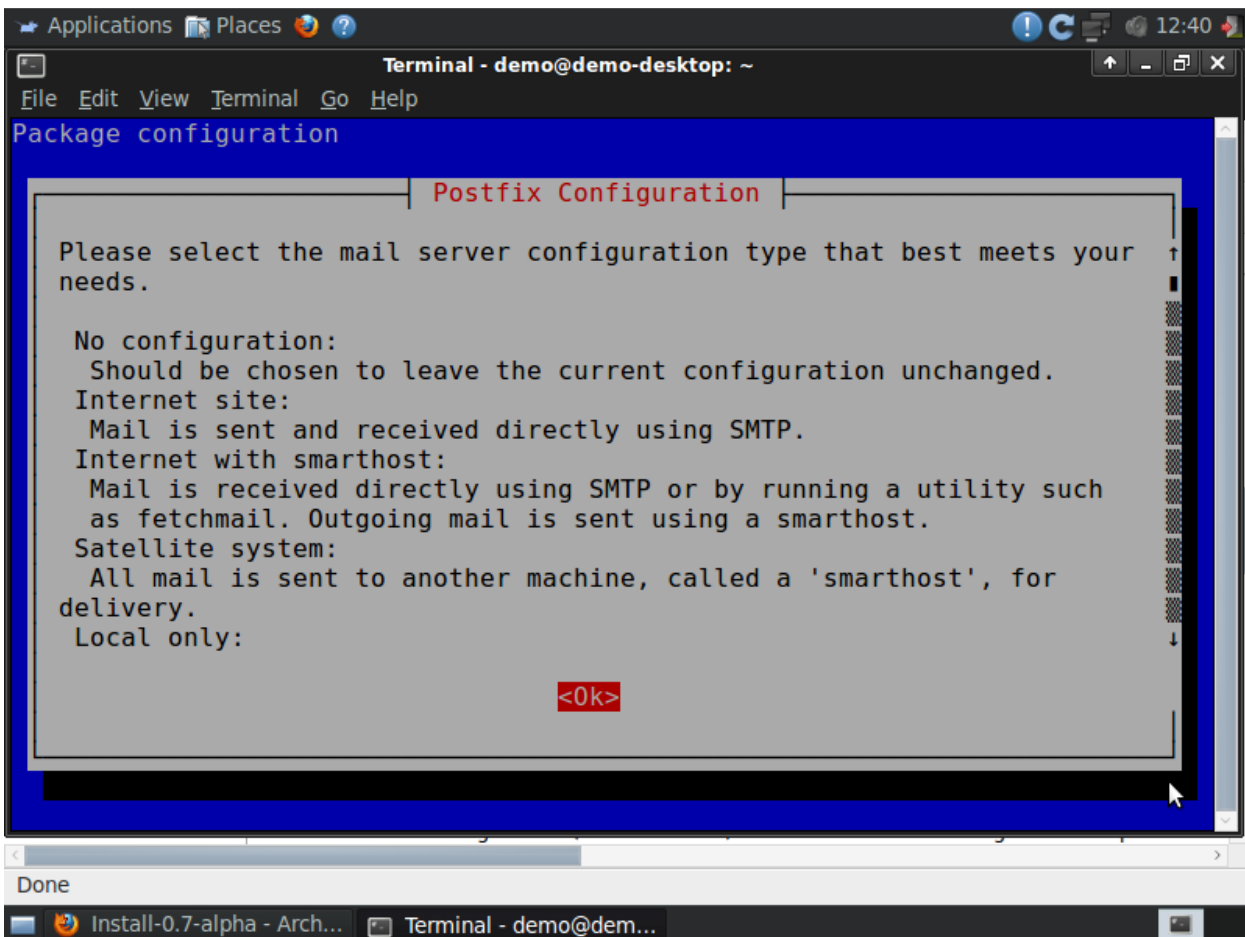
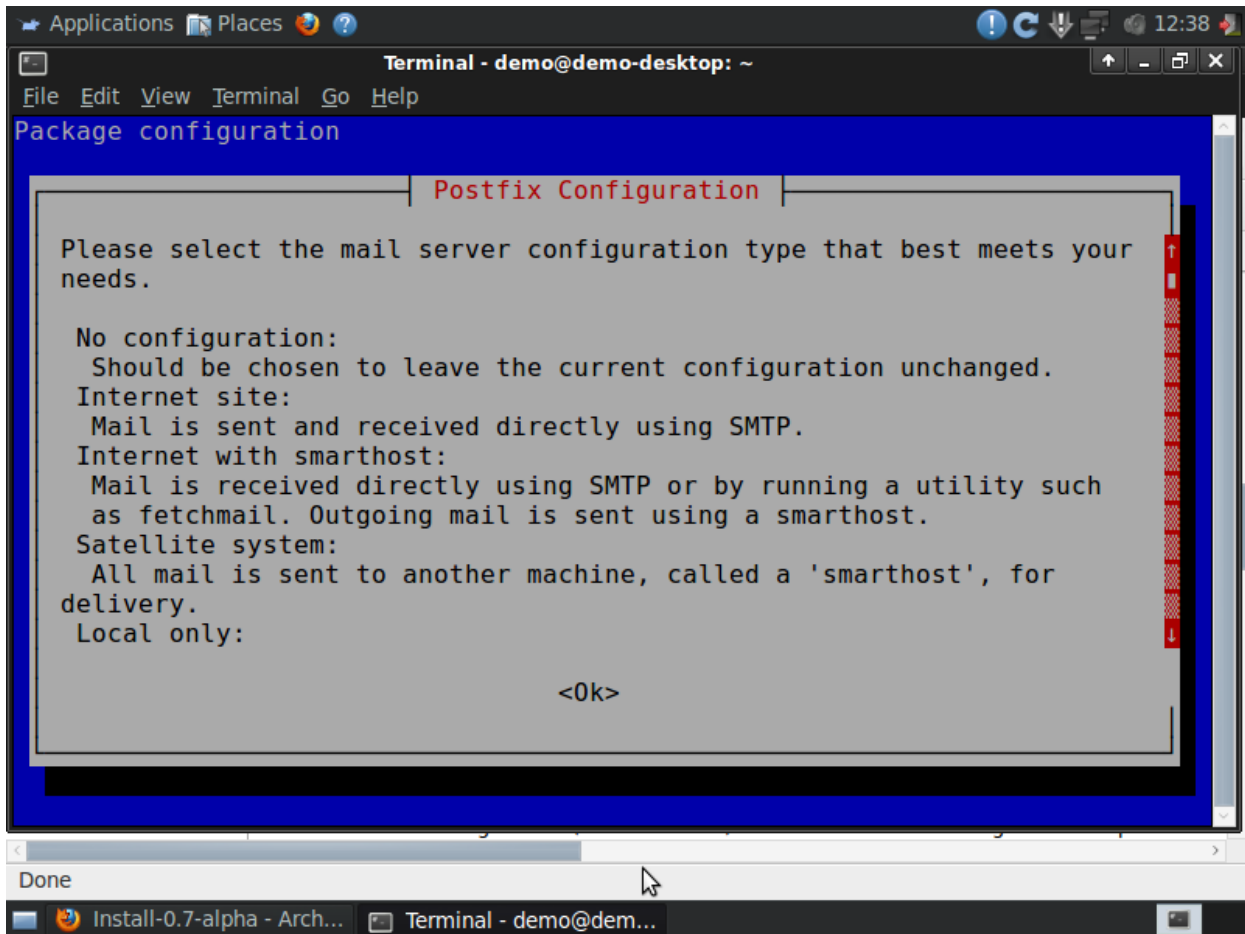
reboot machine:

```
sudo reboot
```

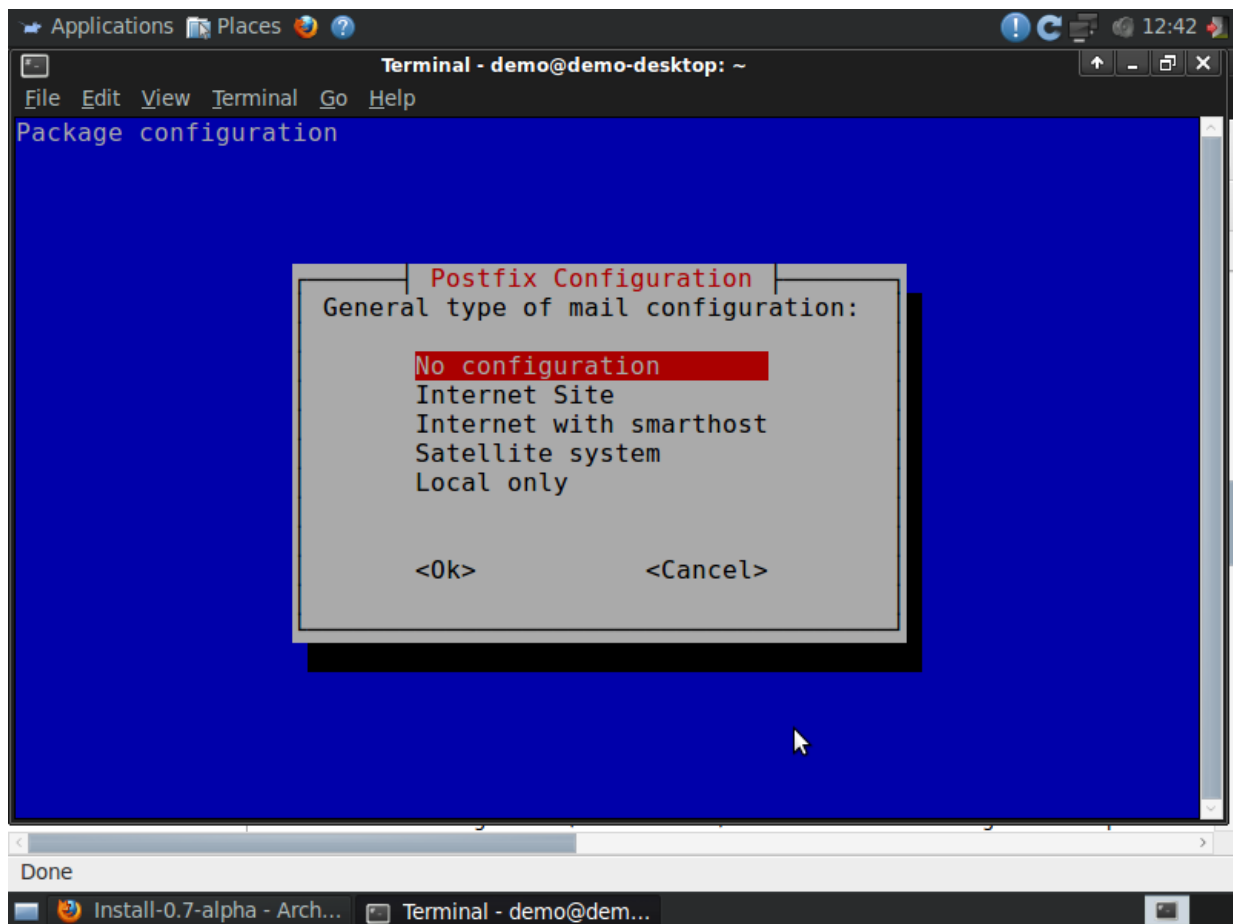
Go to <http://archivematica.org/wiki/index.php?title=Install-0.7-alpha> and follow Archivematica 0.7 installation instructions. Below, here are the initial steps followed by some of the more problematic ones along the way...



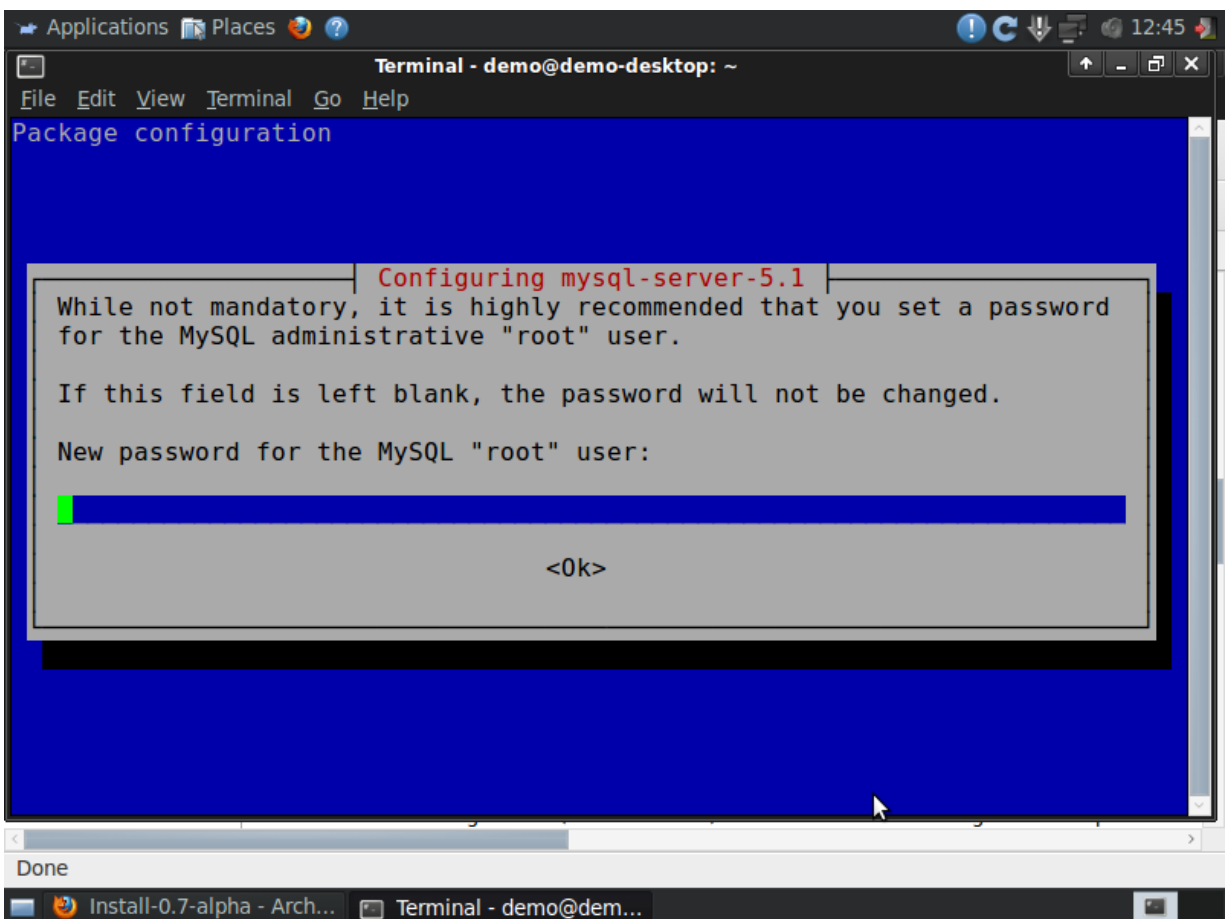




Hit TAB to highlight Ok and press enter to accept.



Up and down arrow to choose a configuration. Tab to Ok, hit enter to accept.



Just hit enter whenever this prompt comes up to leave the MySQL password blank.

```
Applications Places 13:13
Terminal - demo@demo-desktop: ~
File Edit View Terminal Go Help
Processing triggers for python-support ...
Reading package lists... Done
Building dependency tree
Reading state information... Done
Reading extended state information
Initializing package states... Done
Writing extended state information... Done

Adding user demo to group archivematica

===PLEASE REBOOT TO ENABLE NEW GROUP SETTINGS===

demo@demo-desktop:~$ /usr/share/archivematica/thunarUCA/addArchivematicaGUIScripts.sh
Creating /home/demo/.config/Thunar/uca.xml.
demo@demo-desktop:~$ sudo crontab -e
no crontab for root - using an empty one

Select an editor. To change later, run 'select-editor'.
 1. /bin/ed
 2. /bin/nano          <---- easiest
 3. /usr/bin/vim.tiny

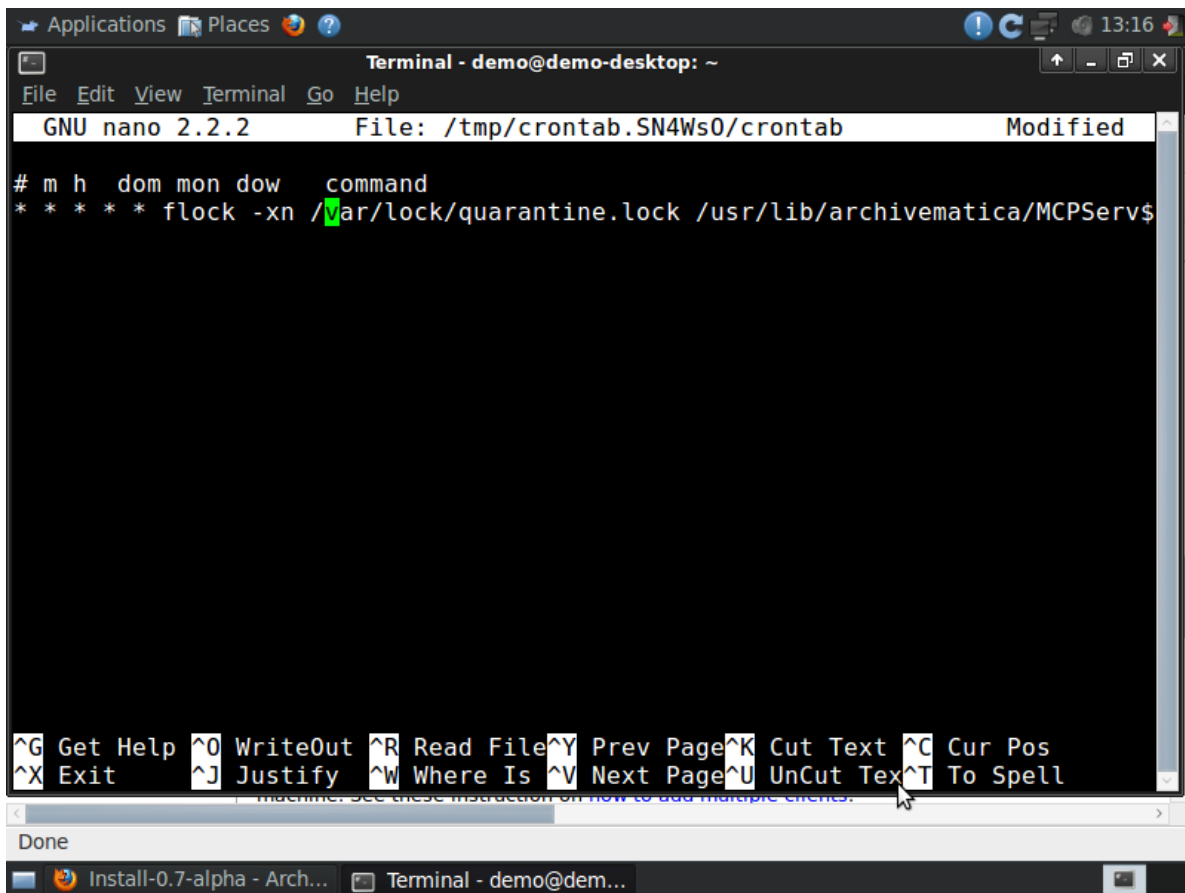
Choose 1-3 [2]:
```

```
Applications Places 13:15
Terminal - demo@demo-desktop: ~
File Edit View Terminal Go Help
GNU nano 2.2.2 File: /tmp/crontab.SN4Ws0/crontab Modified

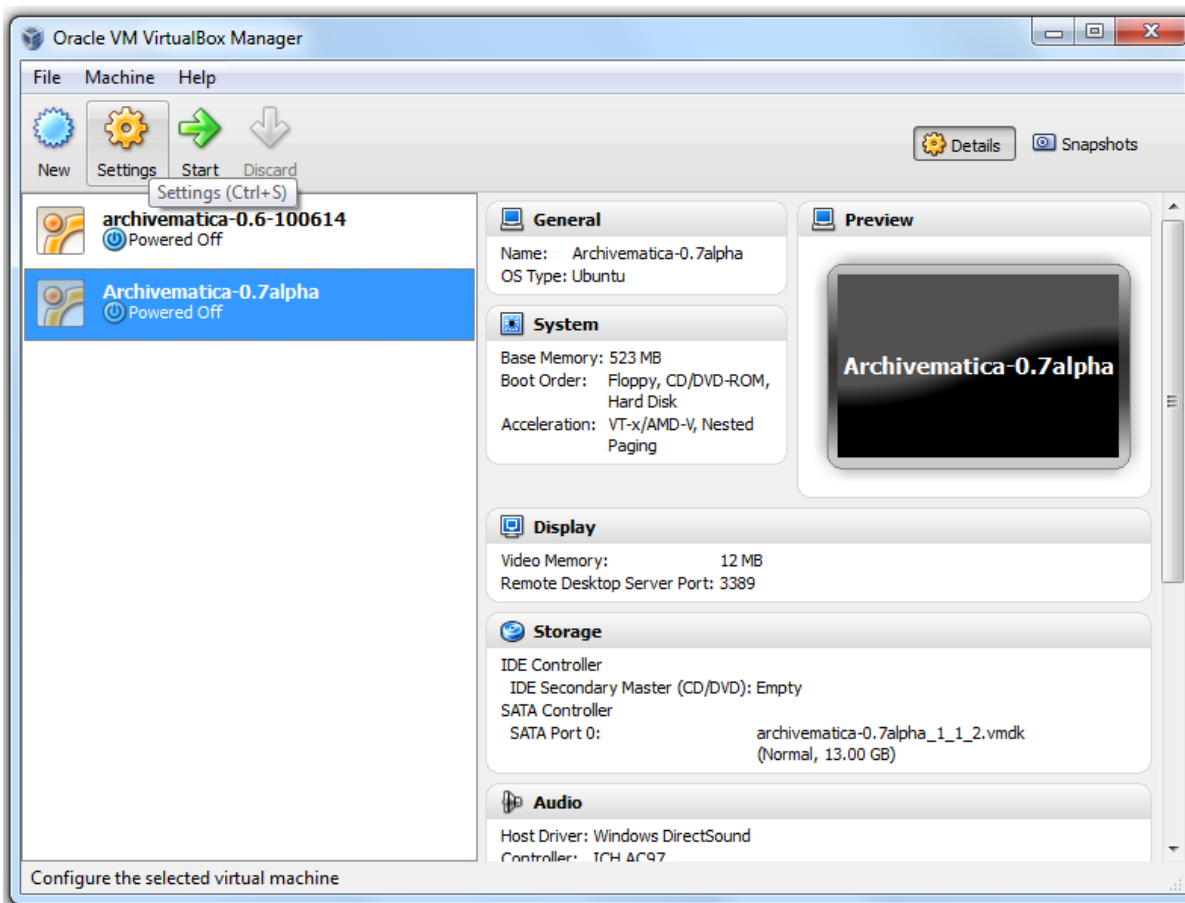
# m h dom mon dow    command
$DDirectories/quarantined"

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit     ^J Justify  ^W Where Is ^V Next Page ^U UnCut Tex ^T To Spell
```

When inserting the flock call, it will appear as if you haven't pasted everything. But if you take the scroll bar and scroll to the left you will see the full copy...

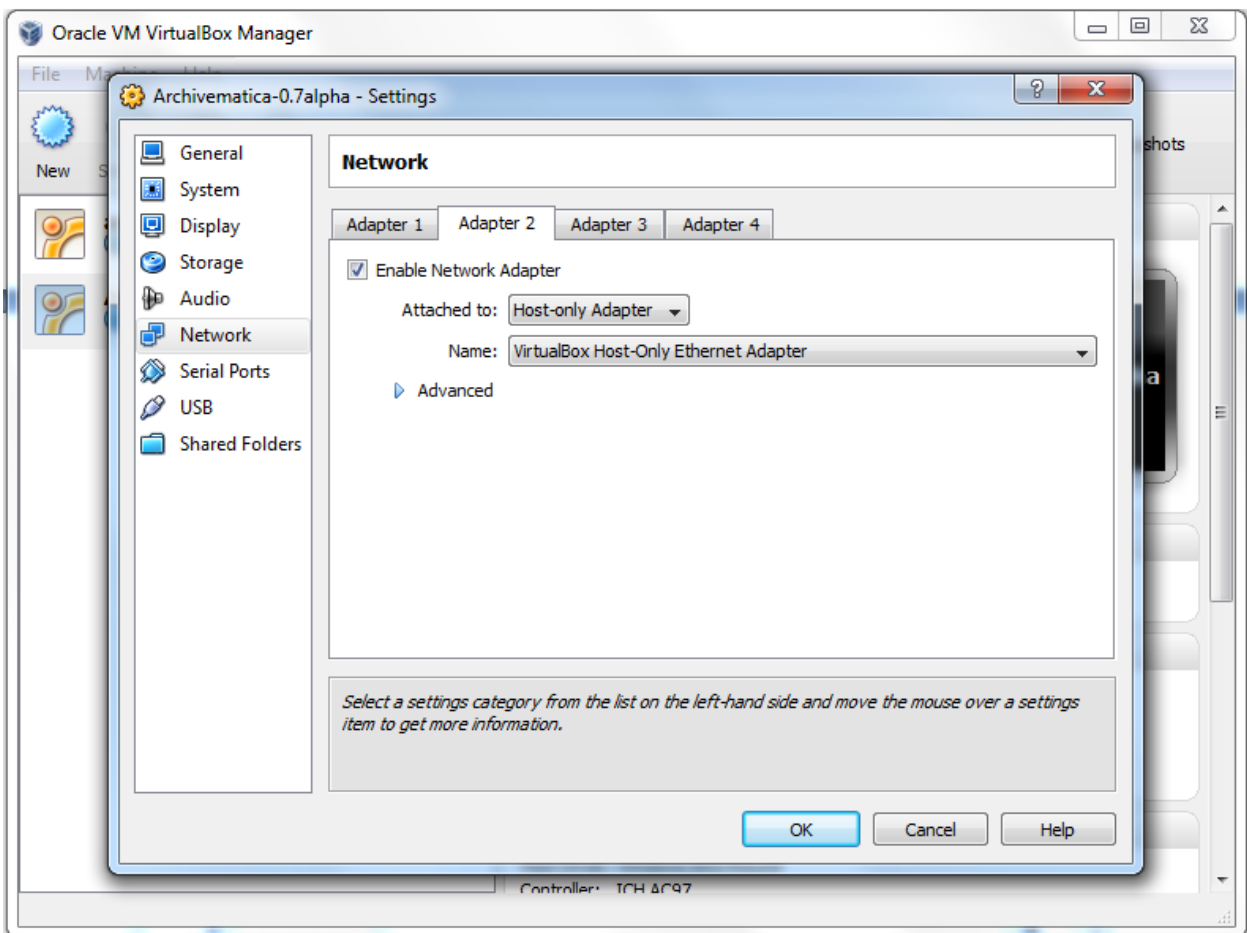
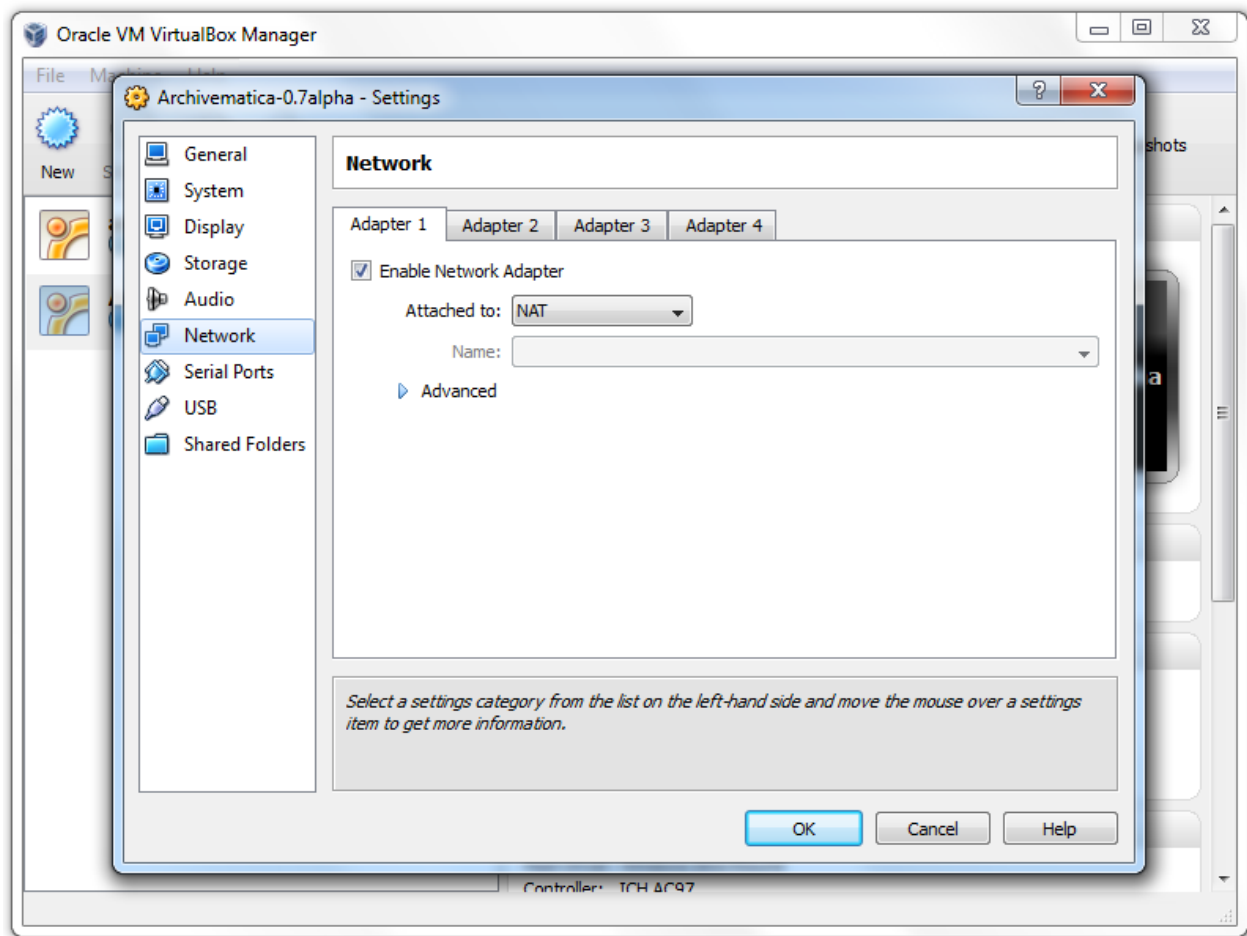


Hit Ctrl-X to Exit. Then save with given default filename when prompted. Then reboot, “sudo reboot”

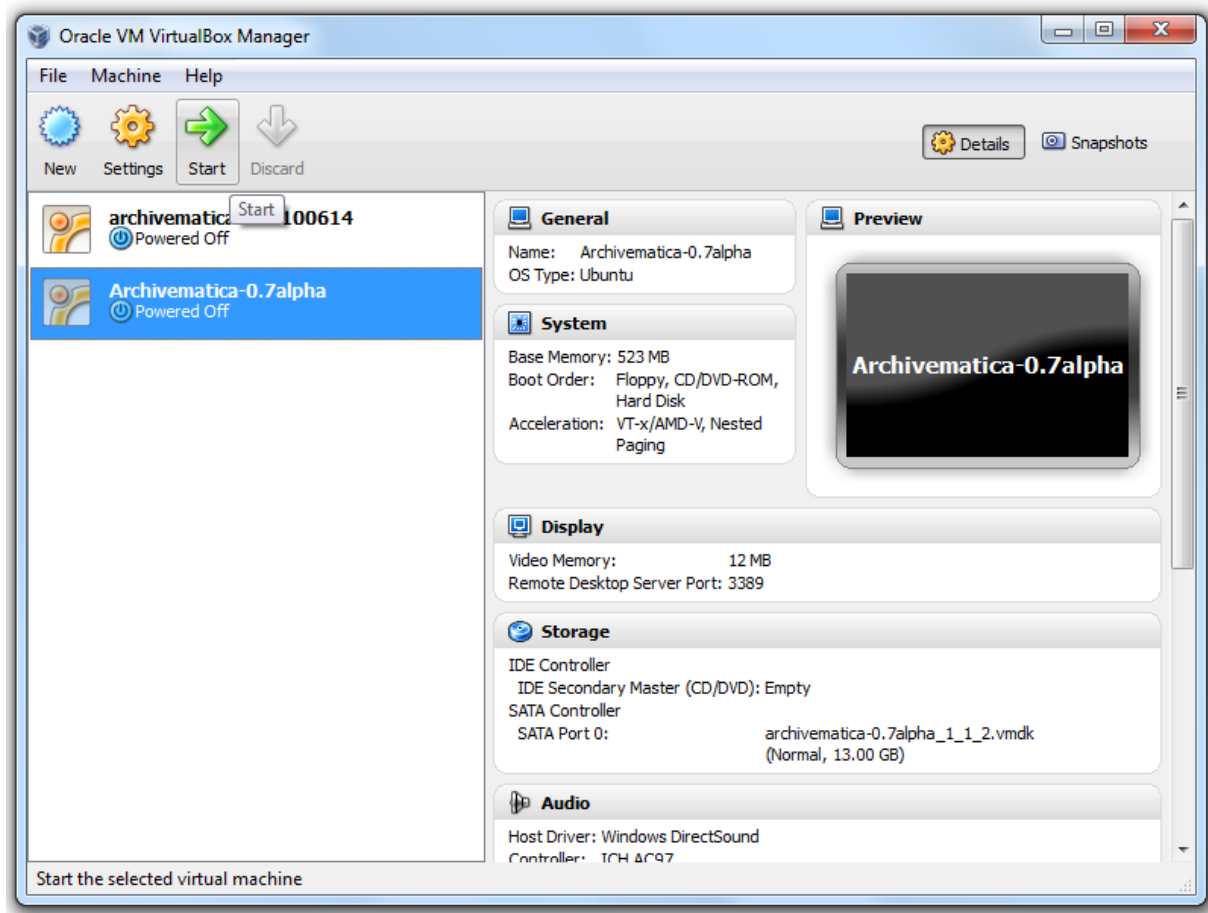


Loading Archivematica

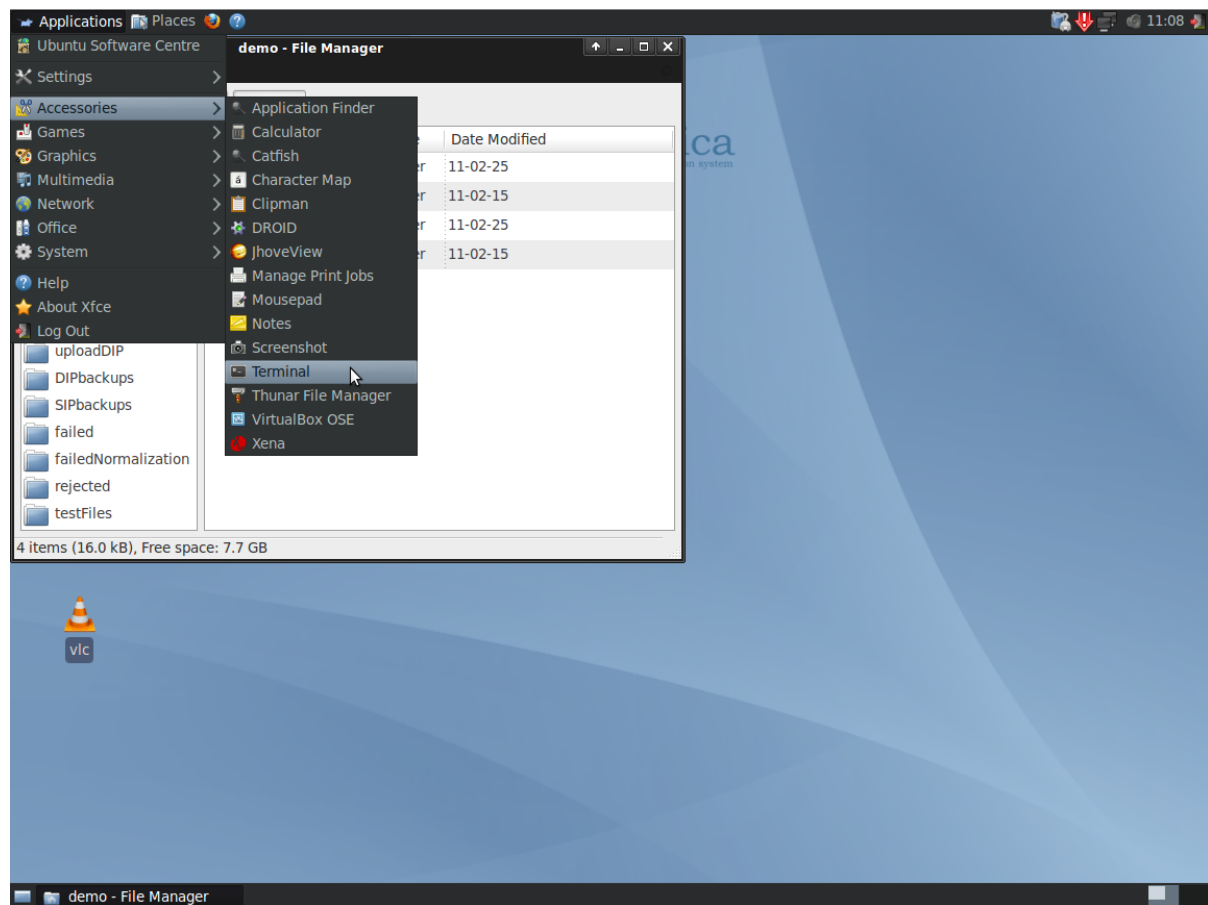
Step 1: Open Virtual Server Settings



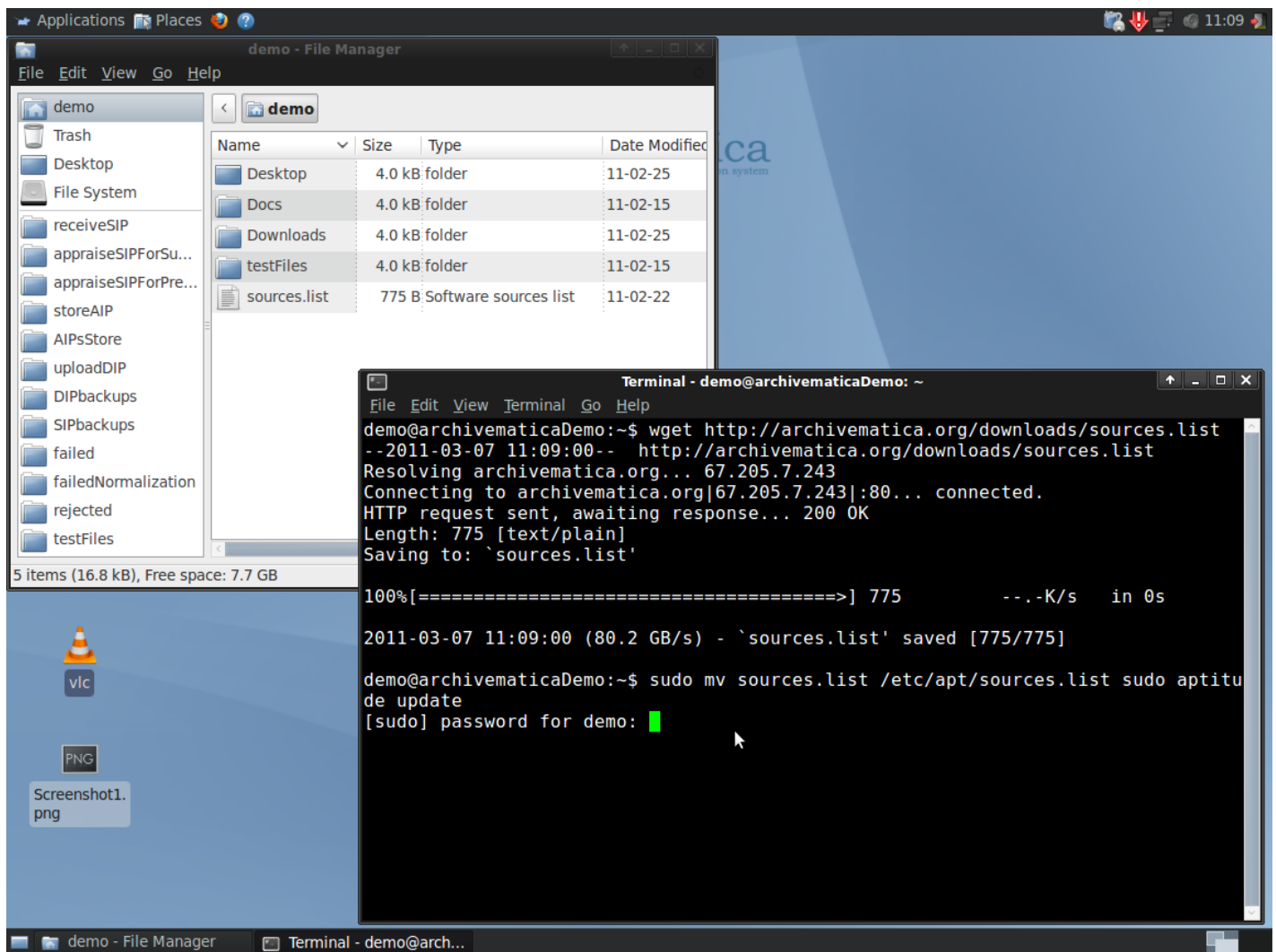
Step 2: Configure Network Adapters #1 (to get to Internet) and Adapter #2 (SFTP) if not already set up correctly



Step 3: Start Virtual Server



Step 4: Open a Terminal session in virtual Archivematica



Step 5: Run the following commands:

```
sudo -s
```

```
mv /etc/apt/sources.list /etc/apt/sources.list.backup
```

```
wget http://archivematica.org/downloads/sources.list
```

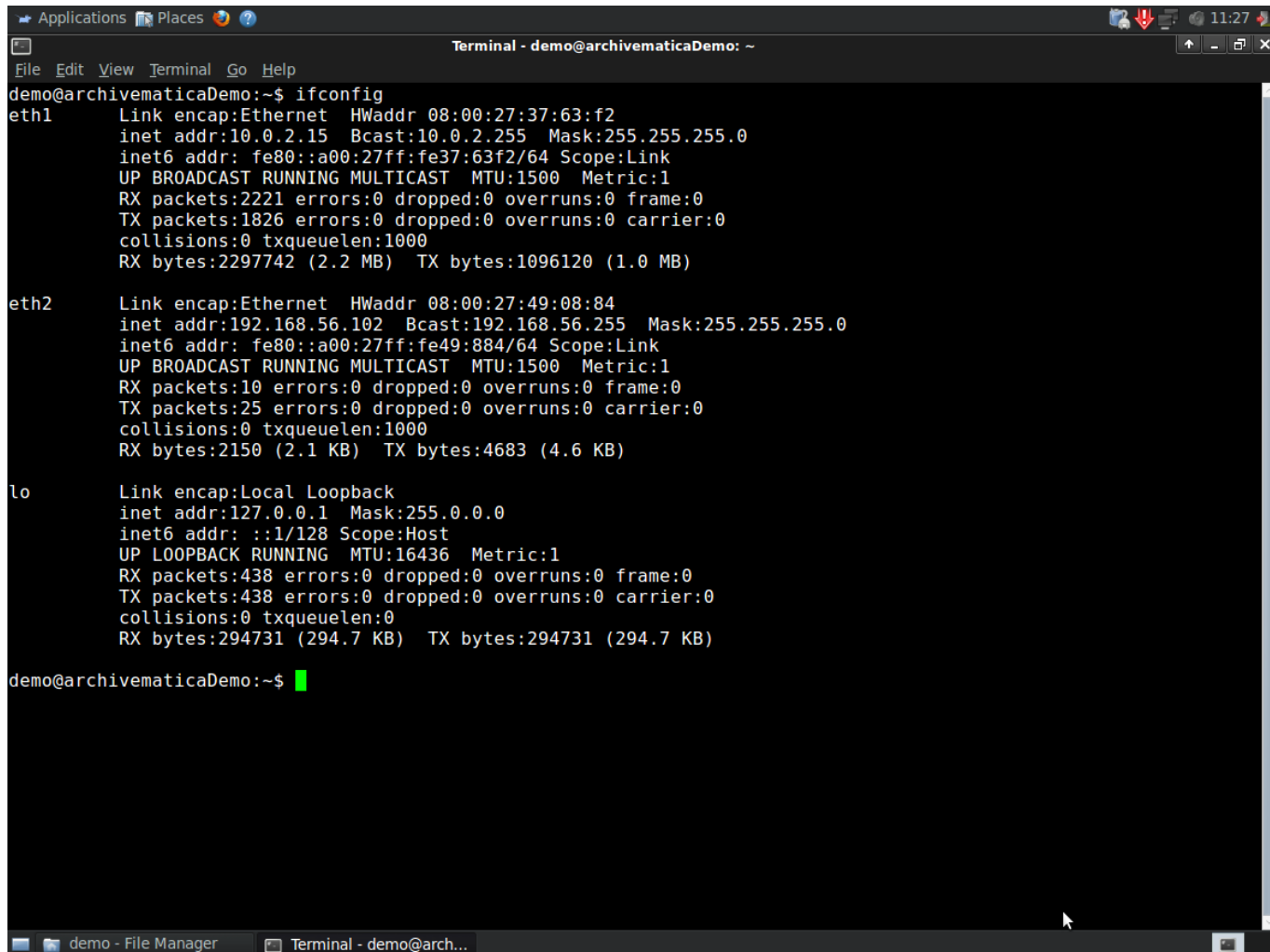
```
mv ./sources.list /etc/apt/sources.list
```

```
aptitude update
```

(see http://archivematica.org/wiki/index.php?title=Virtual_appliance_instructions for more info)

Step 6: In same Terminal session now run:

```
sudo aptitude install ssh
```



```
demo@archivematicaDemo:~$ ifconfig
eth1      Link encap:Ethernet  HWaddr 08:00:27:37:63:f2
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe37:63f2/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:2221 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1826 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:2297742 (2.2 MB)  TX bytes:1096120 (1.0 MB)

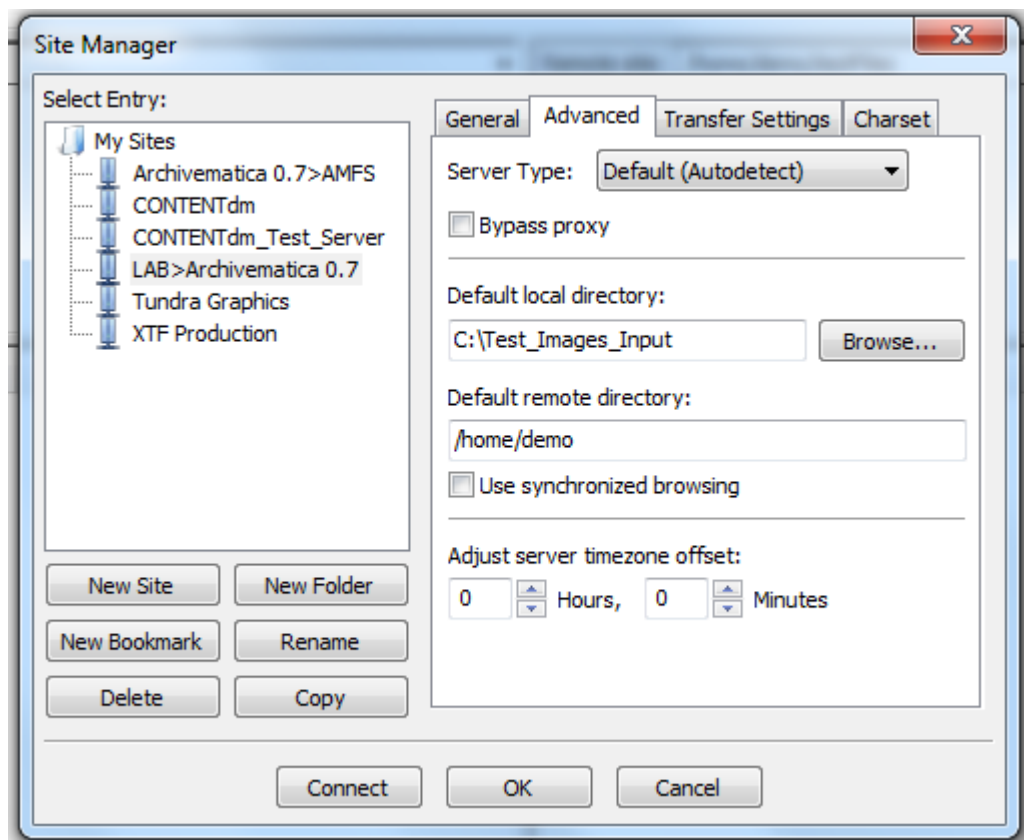
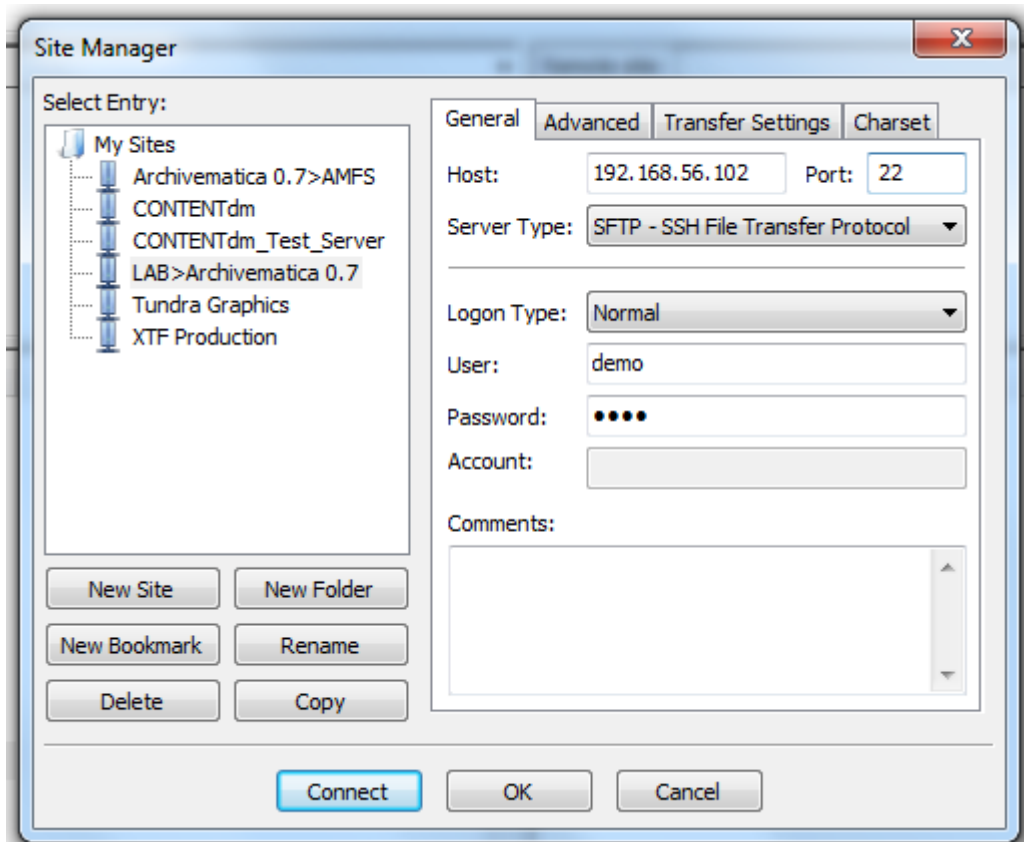
eth2      Link encap:Ethernet  HWaddr 08:00:27:49:08:84
          inet addr:192.168.56.102  Bcast:192.168.56.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe49:884/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:10 errors:0 dropped:0 overruns:0 frame:0
          TX packets:25 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:2150 (2.1 KB)  TX bytes:4683 (4.6 KB)

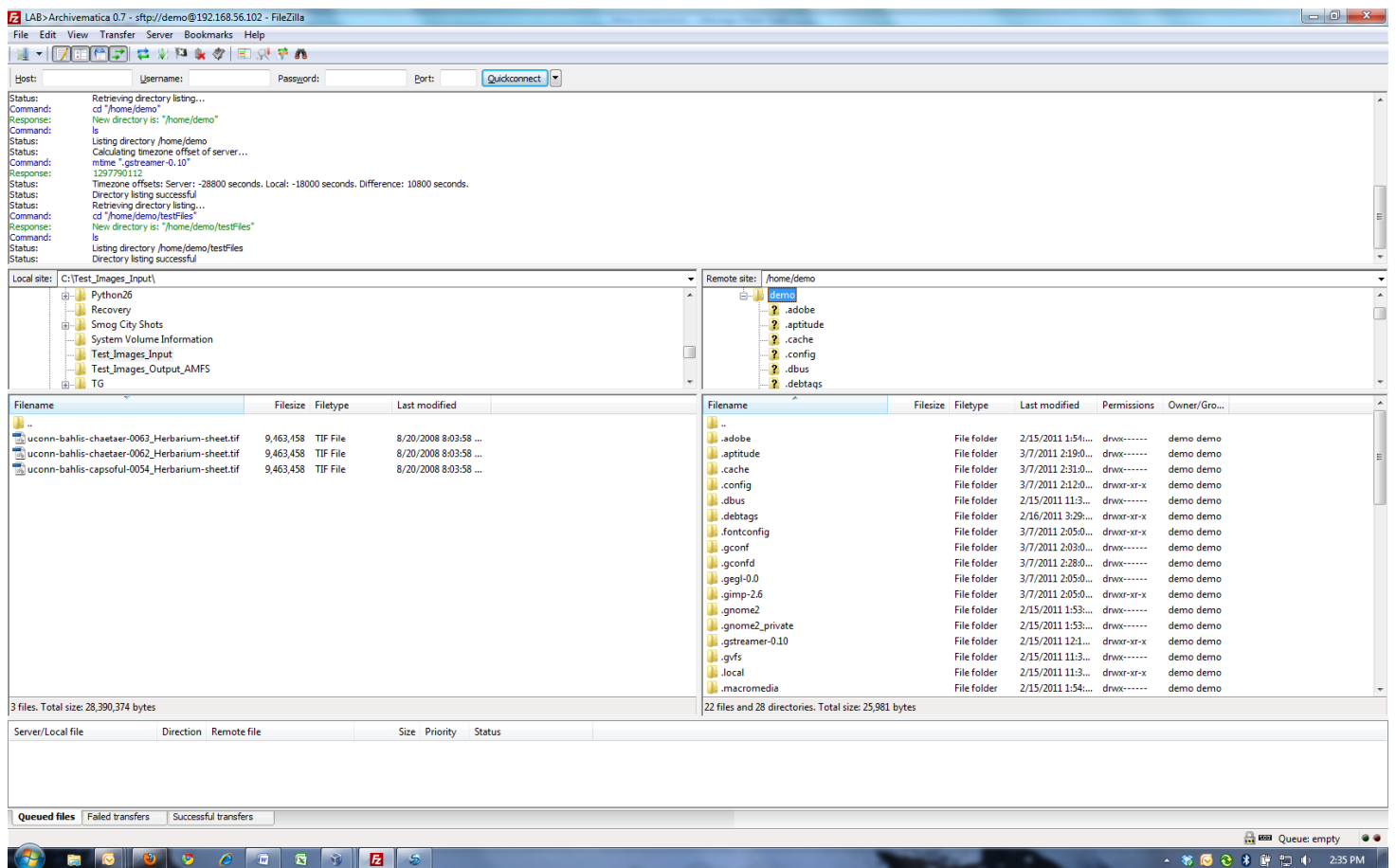
lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:438 errors:0 dropped:0 overruns:0 frame:0
          TX packets:438 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:294731 (294.7 KB)  TX bytes:294731 (294.7 KB)

demo@archivematicaDemo:~$
```

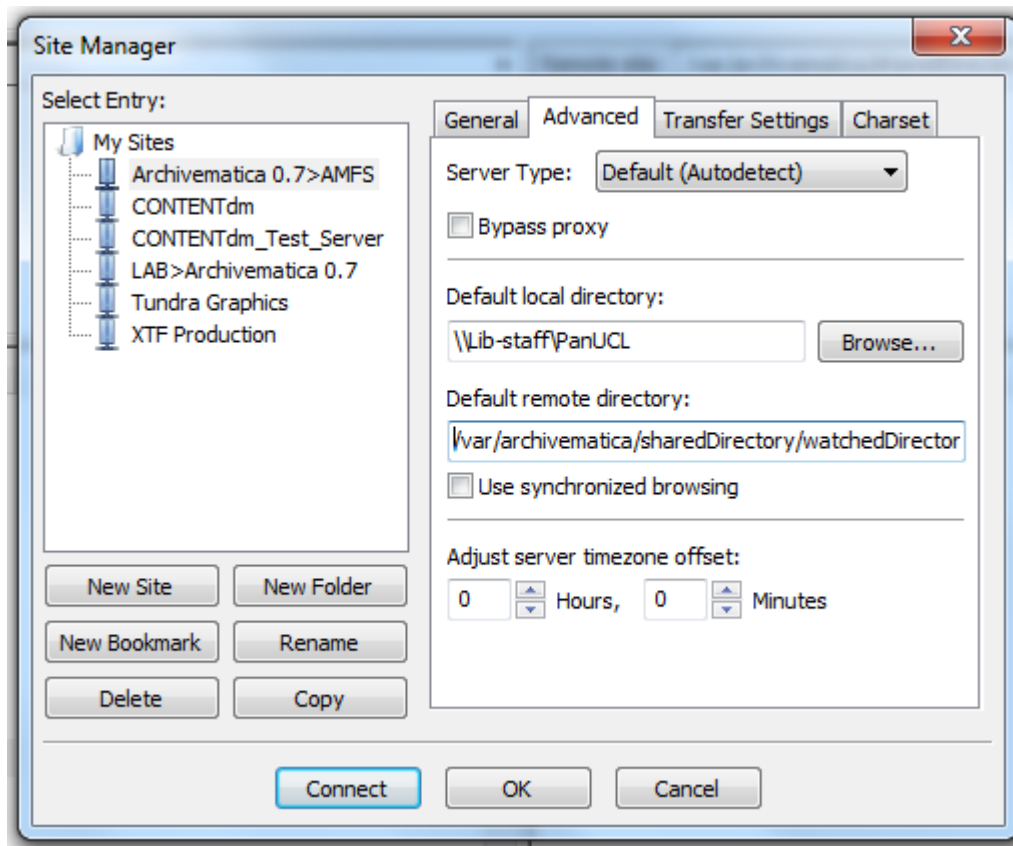
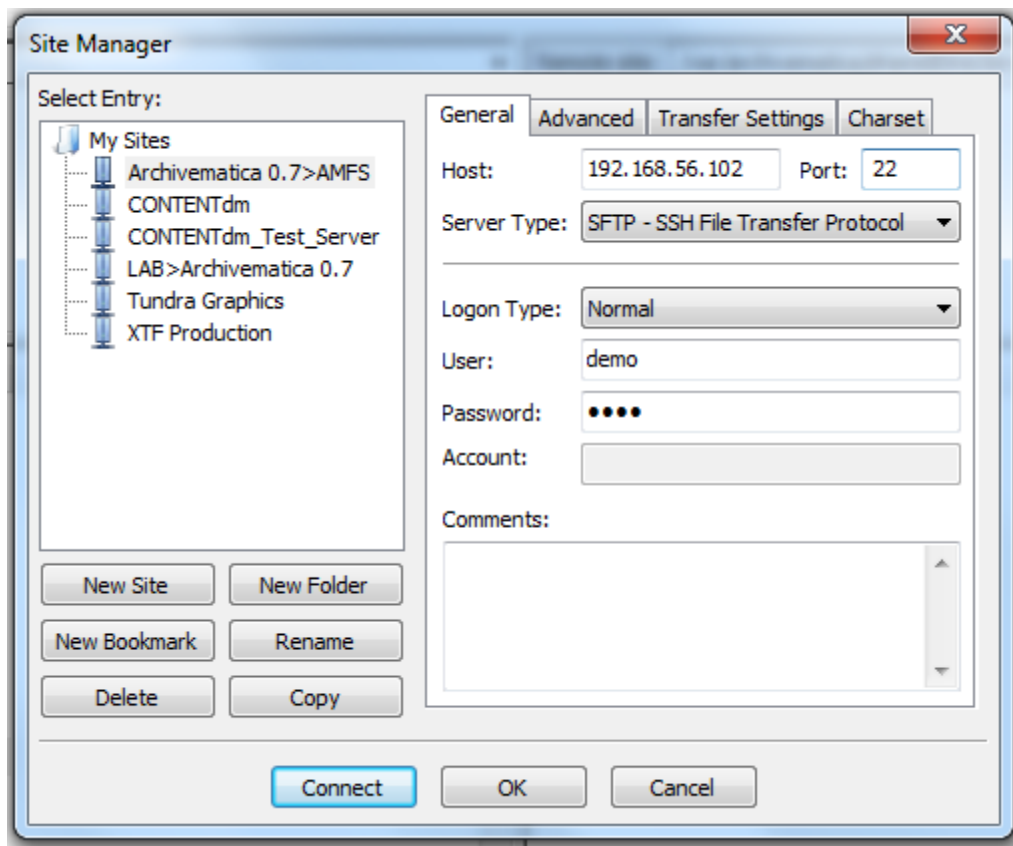
Step 7: In same Terminal, run
ifconfig

Note inet address for eth2: this will be the ip address used to SFTP into virtual machine (in this example 192.168.56.102) through an SFTP client (like FileZilla)...

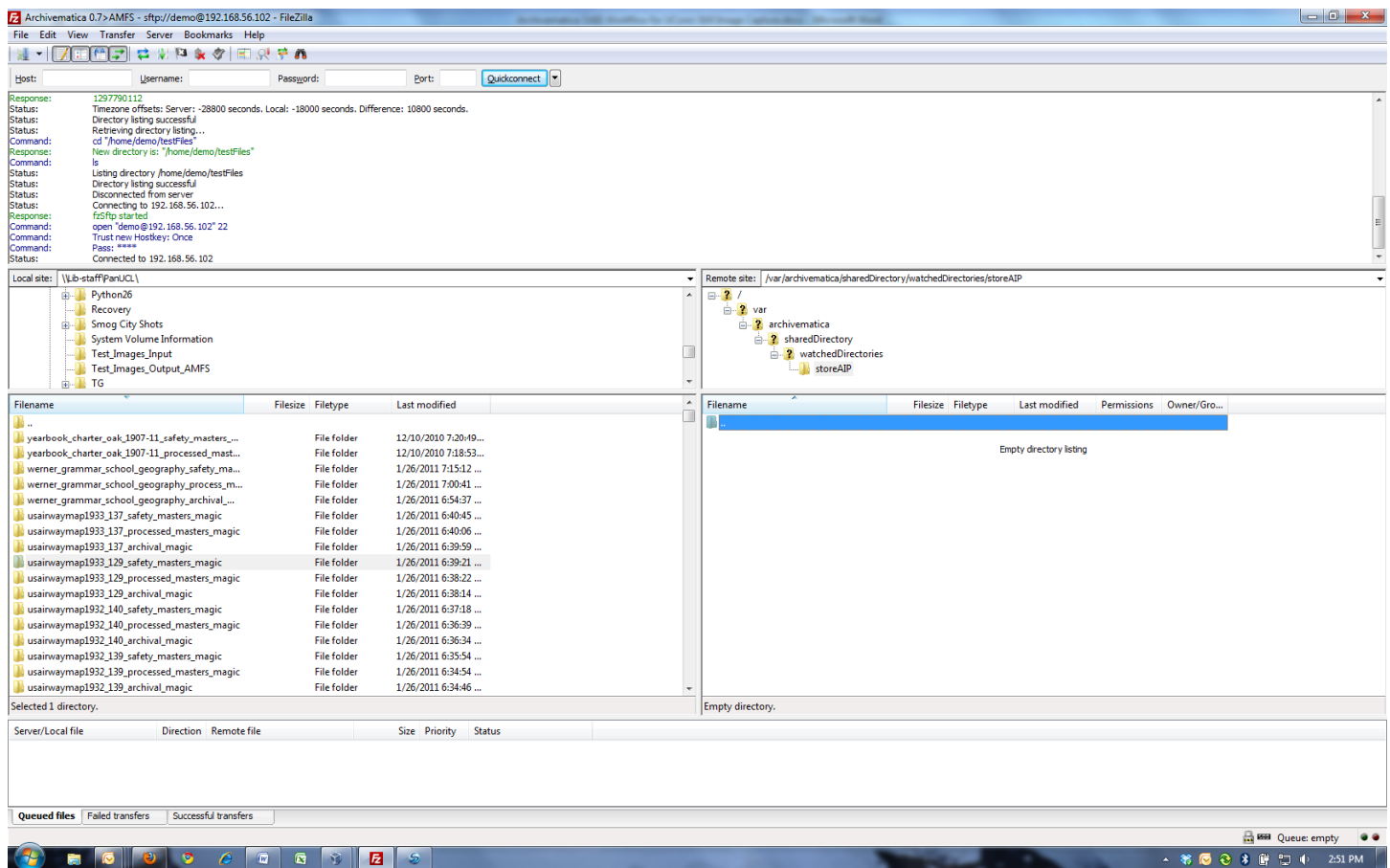




Step 7: Set up SFTP client to ingest as shown in the above three screen captures (in this case ingest files on conversion lab client are at C:\Test_Images_Input\ and the destination for them on the virtual Archivematica server is /home/demo). Files may now be uploaded from Win client to Linux server and in turn be processed by Archivematica: SIP creation > storeAIP. Disconnect SFTP client and close.



Step 8: Once AIP is created in Archivemata and placed in storeAIP, re-connect to SFTP client to the virtual server with the above settings (full default local path: \\Lib-staff\PANUCL, remote directory path: /var/archivemata/sharedDirectory/watchedDirectories/storeAIP).



Any newly-created AIPs should be now ready to download to an archival storage space (in this example the network location \\Lib-staff\\PANUCL). Un-zip Baggit AIPs once completely downloaded to archival storage.