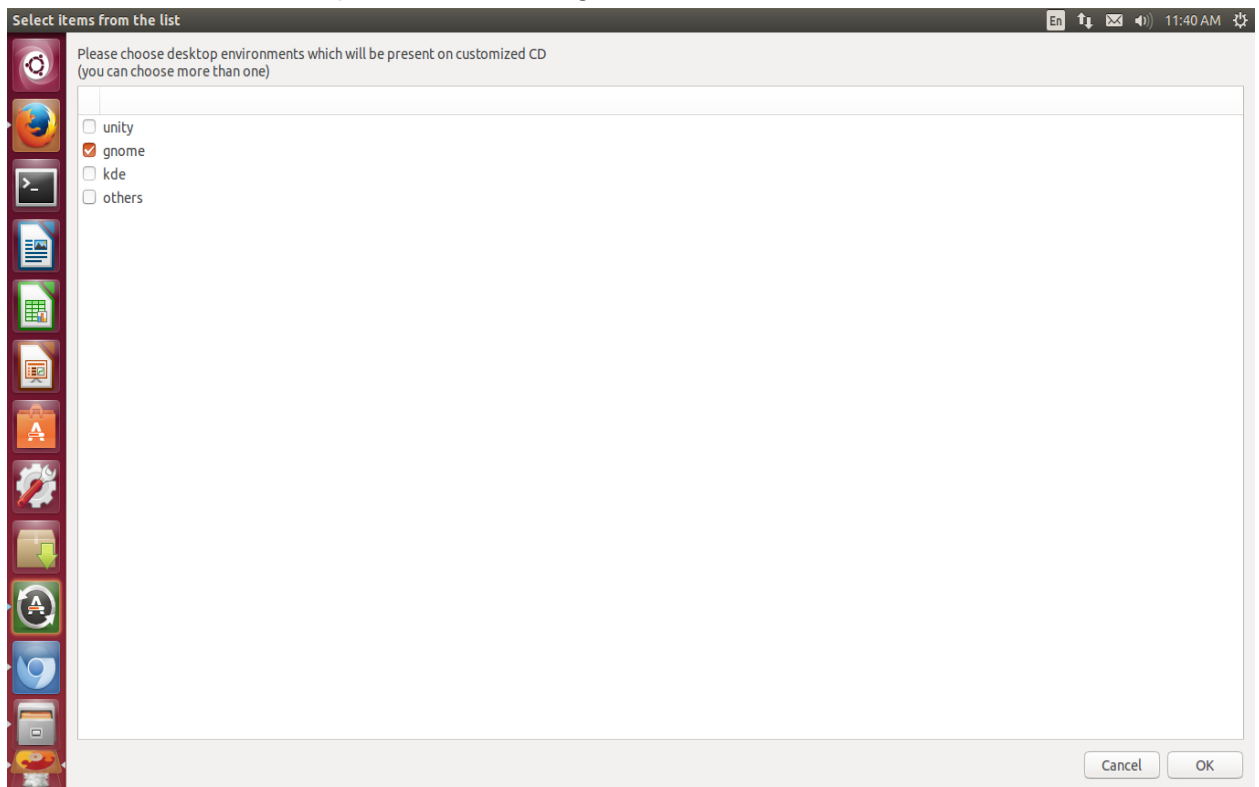


We will require following two tools to build the customized bootable USB Stick of Ubuntu. Please install them on your machine.

- Ubuntu Customization Kit (To make the customized iso)
- Unetbootin (To make a bootable pendrive of the iso)

Steps involved :

1. Download the base image, eg. ubuntu-13.10-desktop-amd64.iso
2. Start ubuntu customization kit.
3. Choose the language as 'en' for English
4. After that, choose desktop environment as gnome.

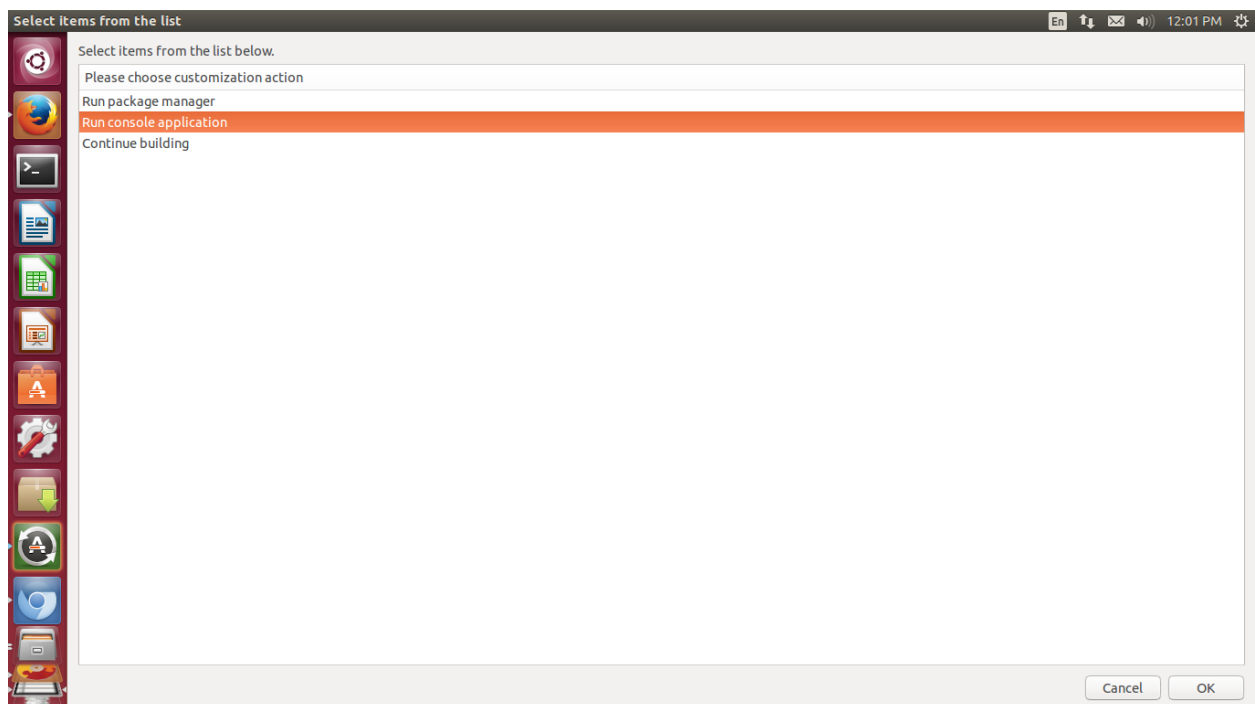


5. Then select the base image, which you downloaded in step one.
6. Choose 'yes' for the option Do you want to customize the CD manually during building (using packages).
7. Select 'yes' on the next window. Do you want to delete all windows related files from the CD
8. Select 'yes' on the next window. Do you want to generate a hybrid image(ISO/USB)
9. Your new iso image will be created in
 ~/tmp/remaster-new-files/livecd.iso
 Click OK to start the process.
10. The terminal will ask for the password.

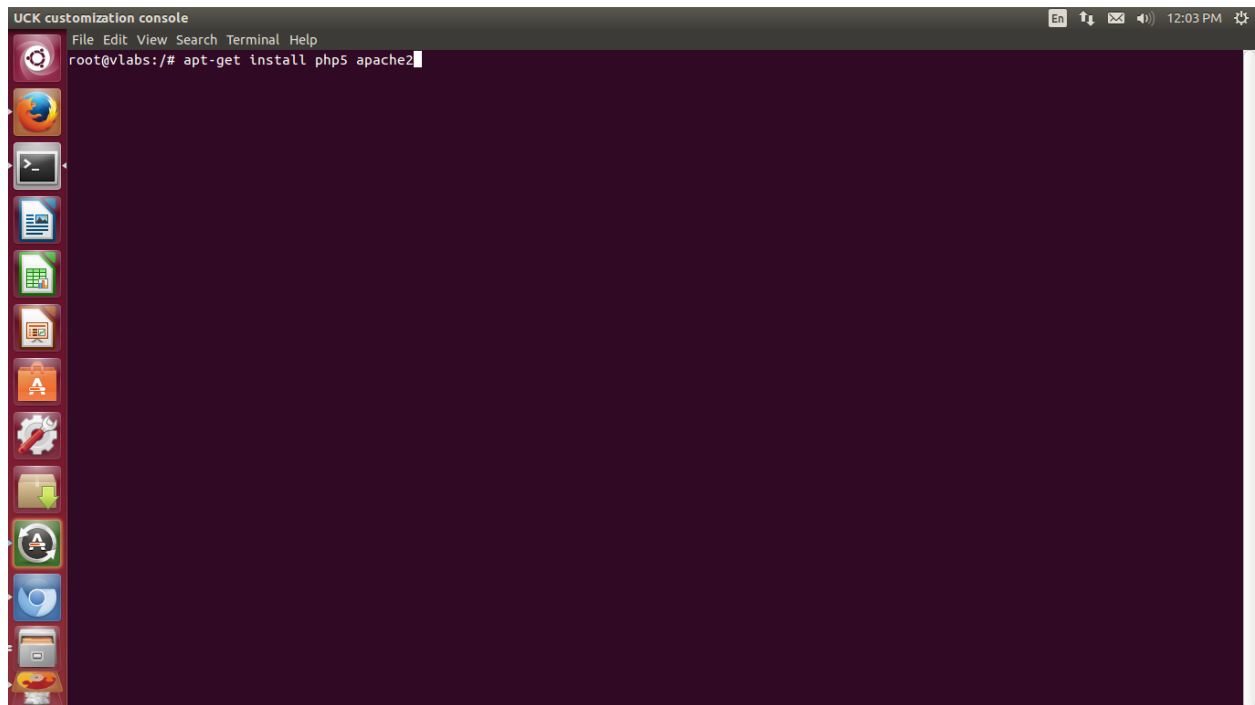


The files will be extracted from the base image, and it will mount the image. This step will take some time.

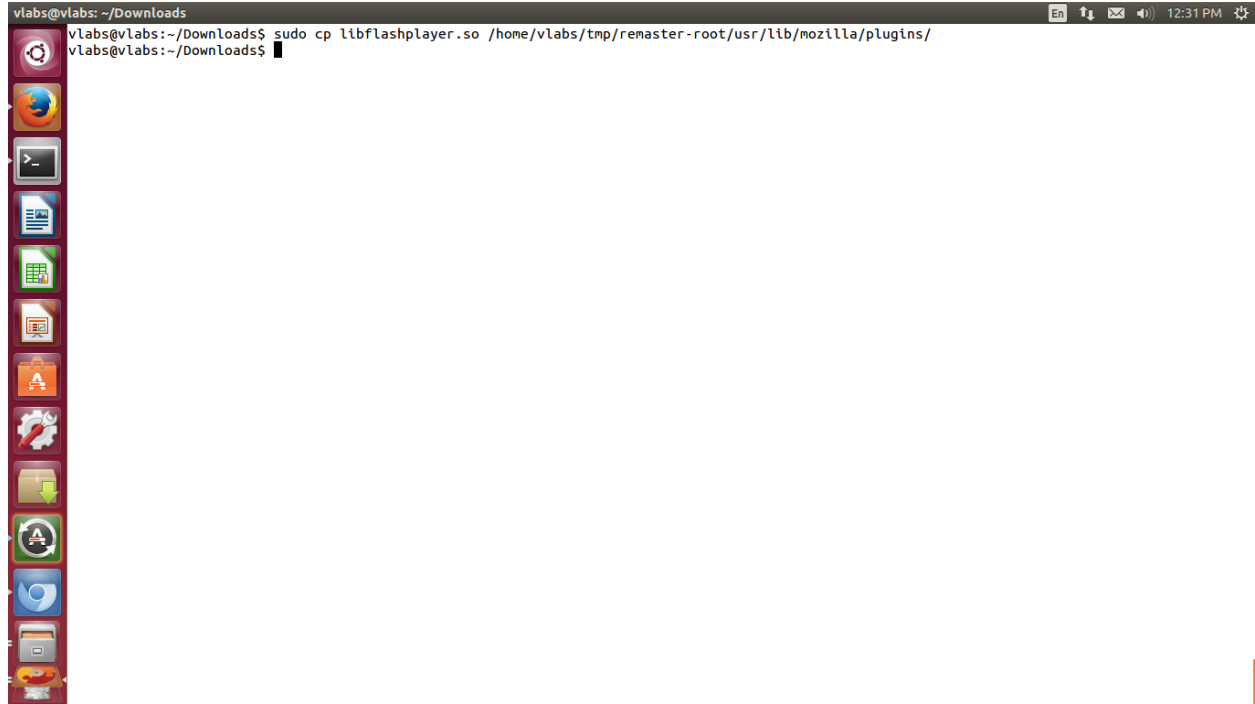
11. Once it extracts all the files, following window pops up, select the option “Run console application”.



13. The new terminal will open up, write
 `apt-get install php5 apache2`
to install php and apache packages in your customized CD.



14. Then also install firefox, with following command on the terminal
 `apt-get install firefox`
15. Now we need to install the flash plugin in firefox. Download the file
 `install_flash_player_11_linux.x86_64.tar.gz`
from official adobe's website or from any site hosting it.
16. Then extract the files from above .gz file. So from the directory where 'libflashplayer.so' file is located, copy it to `~/tmp/remaster-root/usr/lib/mozilla/plugins/`



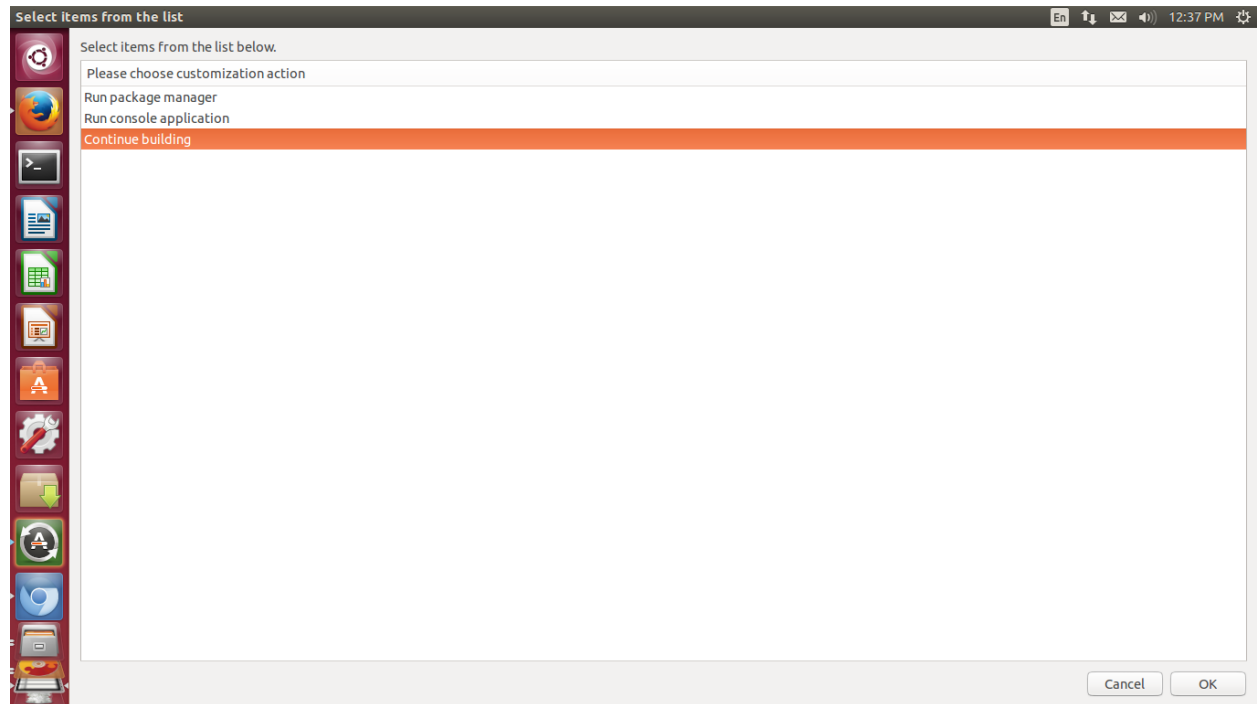
17. Now we have apache, php, firefox and flash installed in our CD. Next we need to copy the labs to ~/tmp/remaster-root/var/www/

and check for the read, write and execute permissions on the labs being copied.

Else change them to 775 by following

chmod 775 -R cse01/

18. After copying all the required labs, exit from the terminal. Which will bring you to following window, select continue building and press OK



Your livecd.iso will be created and you can find it in ~/tmp/remaster-new-files

Create Bootable Pendrive from ISO

Now to create the bootable pendrive from above iso, insert a 8 GB USB stick and start the unetbootin software. And select your customized image i.e. livecd.iso, rest of the steps are self explanatory.