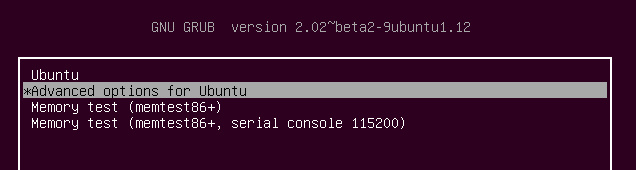
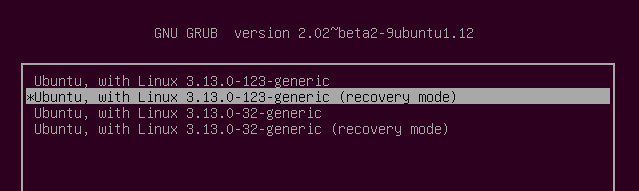
**Chapter7 - Troubleshooting your System**

**Recovering the super user password :-**

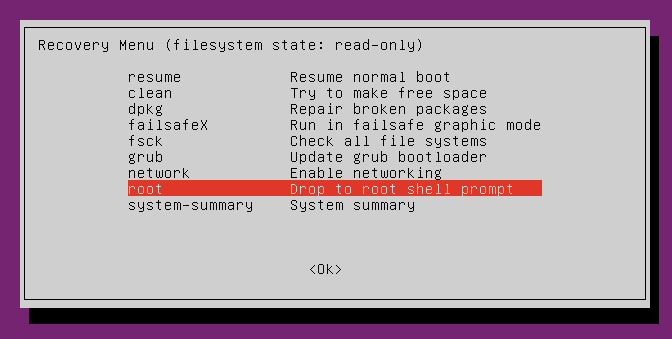
**Step 1:-** When you start your system, press "ESC" key continuously to get the grub loader screen. Select 2nd option .You will then be prompted by a menu that looks something like this.



**Step 2:-** Select recovery mode.



**Step 3:-** Now you should see this menu.



**Step 4:-** Using the arrow keys scroll down to “ **root “** and then hit Enter.You should now see a root prompt, something like this: - root@ubuntu:~#

After that you can change the password using passwd Command

**Reparing the boot loader (GRUB) :-**

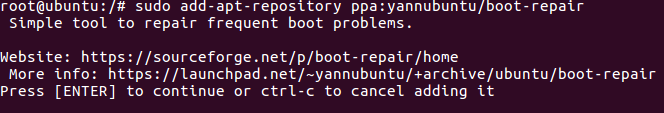
Grub (GRand Unified Bootloader) is the default boot loader application for most Linux/Unix systems. It lets users choose from multiple operating systems (provided you have more than one operating systems installed on your system) or boot into different kernel versions if your computer system is running only Linux operating system. If there is any corruption with this application, your computer system will depict errors during boot process and most probably it won’t boot your into your operating system(s). It is not uncommon to encounter Grub’s corruptions, if you see your system complaining about boot/boot loader errors, the only fix is to repair or re-install your system’s Grub boot loader. If followed properly, this process won’t cause any data loss on your hard disk. Today, we will learn how to repair/re-install Grub Boot loader on Ubuntu system. The below mentioned process was followed on Ubuntu 16.04, but it should work on any previous or newer versions of Ubuntu too. We will be using a well known tool “Boot Repair” to accomplish this task.

**Installing Boot Repair on Ubuntu**

Boot Repair is the most commonly used tool to fix errors regarding Grub boot loader. First of all arrange a Live CD/DVD/ USB for Ubuntu and boot your system using this media (If you are looking to repair Grub, chances are you are already on the stage where system is un-bootable into current operating system, so yes its a valid request to use Live CD/DVD/USB at this point ).

Once you are logged into your system using Live disk, run following command to add “Boot Repair” tool’s PPA to your system.

# sudo add-apt-repository ppa:yannubuntu/boot-repair

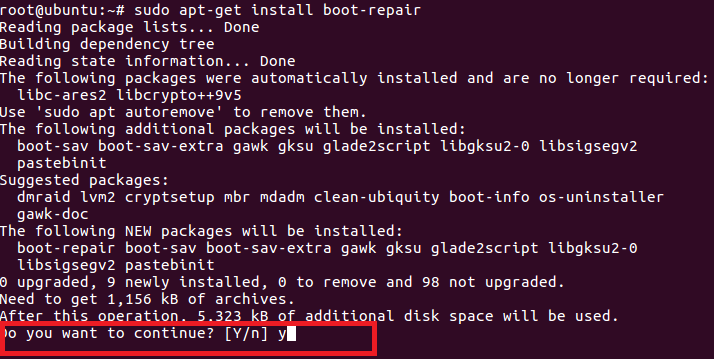


Once PPA has been added, run following command to update APT package manager.

# sudo apt-get update

Run following command to install Boot Repair tool now.

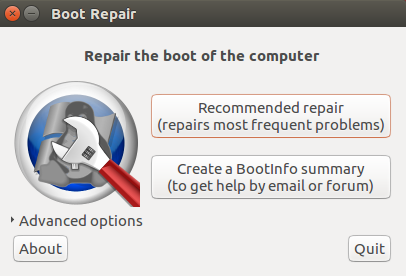
# sudo apt-get install -y boot-repair



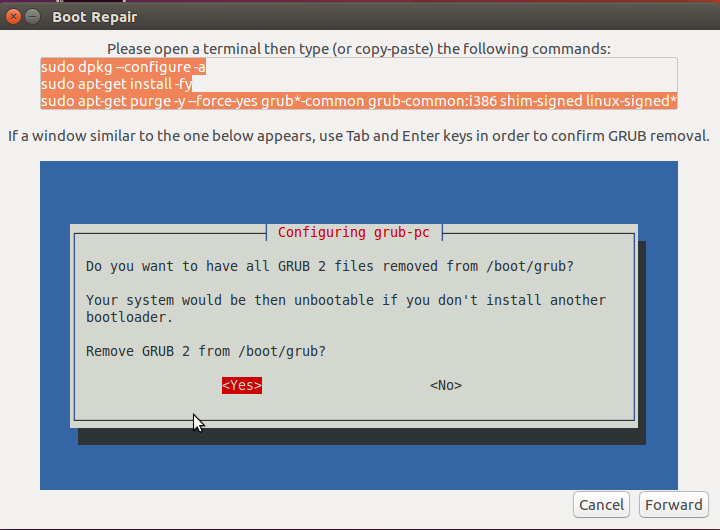
That’s it, Boot Repair has been installed successfully now. Launch it from Applications > Boot Repair option.



One Boot Repair tool is launched from Unity > Applications > Boot Repair option, here is the welcome screen you should see.



The very first option (Recommended repair) should fix the Grub loader for you, hit it and it should initiate the repair/re-install process for you. Here is the first screen it will display.



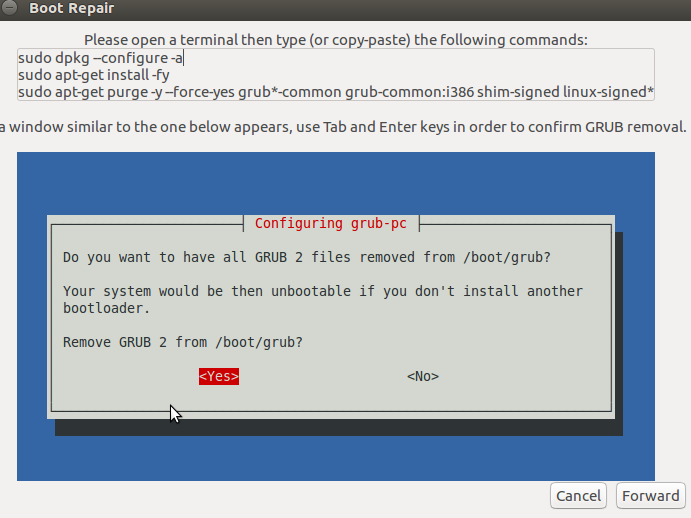
As instructed in the above screenshot, launch your system’s terminal and run following three commands in order.

# sudo dpkg --configure -a

# sudo apt-get install -fy

# sudo apt-get install -y --force-yes grub-pc linux-generic

Once above mentioned command’s execution complete, click “Forward” to take the repair process to the next step. Here is what you will be seeing on next step.



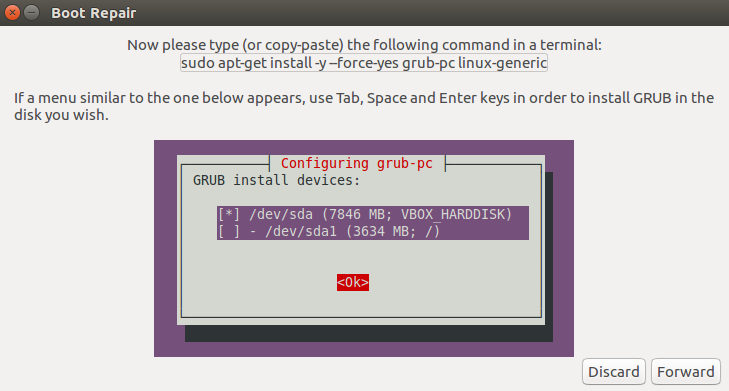
As instructed, run following three commands on the terminal in proper order.  During this step, it will load a pop up to confirm Grub 2 removal, choose “Yes” from the pop up you see here.

# sudo dpkg --configure -a

# sudo apt-get install -fy

# sudo apt-get install -y --force-yes grub-pc linux-generic

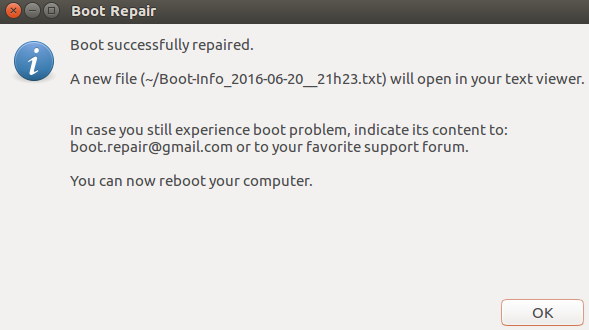
Click “Forward” once this process completes, here is the screenshot of the next step.



As instructed, run following command on the terminal and choose hard disk to install grub on when prompted.

# sudo apt-get install -y --force-yes grub-pc linux-generic

That’s it, it will take couple of minutes to perform the required operations and you should see the following success message upon completion ; congratulations! Grub has been repaired now.



Reboot your system and it should boot fine and boot loader related errors should be gone now.