1   Decide on 32 or 64 bit system.
  1.1   32 bit installs have fewer problems than the 64 bit.
  1.2   64 bit drivers not always available. For example the 64bit Wheezy release did not include the postgresql 9.1 Slony replication drivers.
2   Decide on stable or testing release
  2.1   Stable recommended but does not always work on newly purchased computers.
  2.2   Testing release has latest drivers for computer NIC, video.
3   Download Debian Installation Guide
  3.1   32 bit wheezy stable: https://www.debian.org/releases/stable/i386/
  3.2   64 bit wheezy stable: https://www.debian.org/releases/stable/amd64/
  3.3   32 bit jessie testing: https://www.debian.org/releases/testing/i386/
  3.4   64 bit jessie testing: https://www.debian.org/releases/testing/amd64/
4   Download Debian install via the Internet. This is the recommended method. Download and burning a DVD install image take a long time and is soon obsolete.
  4.1   Installing Debian via the Internet: https://www.debian.org/distrib/netinst
    4.1.1   32bit wheezy stable: http://cdimage.debian.org/debian-cd/7.7.0/i386/iso-cd/debian-7.7.0-i386-netinst.iso
    4.1.2   64bit wheezy stable: http://cdimage.debian.org/debian-cd/7.7.0/amd64/iso-cd/debian-7.7.0-amd64-netinst.iso
    4.1.3   32bit jessie testing: http://cdimage.debian.org/cdimage/jessie_di_beta_2/i386/iso-cd/debian-jessie-DI-b2-i386-netinst.iso
    4.1.4   64bit jessie testing: http://cdimage.debian.org/cdimage/jessie_di_beta_2/amd64/iso-cd/debian-jessie-DI-b2-amd64-netinst.iso
  4.2   Burn a 700MB CD with install image.
5   Install Debian on computer
  5.1   Boot from install CD.
  5.2   Choose Graphical install
    5.2.1   This will verify that your mouse, keyboard, and video work.
  5.3   Select language: English
  5.4   Select location: United States
  5.5   Configure keyboard: American English
  5.6   Detect and mount CD, Load installer components from CD
  5.7   Detect network hardware
    5.7.1   If the stable version does not detect the NIC, retry with the testing version
    5.7.2   If the hardware need a non-free firmware file, you can load it from a USB stick. A zipped copy of this folder is in your home folder at HydroLynx. Install an unzipped copy on your USB stick root with the folder name firmware. Insert your USB stick, press Enter to continue and you should see the USB stick read. If it works then the install continues. If not then you will need to find the firmware files on the internet and copy them to the USB firmware folder.

5.8   Configure the network. Choose the eth0 port.
    5.8.1   The install will attempt a DHCP IP address assignment.
    5.8.2   If you do not have a DHCP server then enter the network IP information manually.
5.9   Enter the host name for the system. I use novastar5a but this is not critical and can be changed later.
5.10   Enter the domain name.
5.11   Enter the root password and confirm. Write this down.
5.12   Set up users and passwords. This will be your log in account for future service.
5.13   Configure the clock. This will test the internet time service.
    5.13.1   If your network blocks it you will have to setup the time server.
    5.13.2   Select the time zone
5.14   Detect disks. You should never have problems with this step.
5.15   Partition disks. The possible disk configurations are:
    5.15.1   Single hard disk: choose Guided – use entire disk
    5.15.2   Dual hard disks with software raid: choose Manual
    5.15.3   Dual hard disks with hardware raid: choose Guided – use entire disk
5.16   Guided – use entire disk:
    5.16.1   Select disk to partition
    5.16.2   All files in one partition
    5.16.3   Partition table is displayed, modify if needed. You must have:
        5.16.3.1   Primary partition showing size f ext4 /
        5.16.3.2   Logical partition showing size f swap swap
    5.16.4   Finish partitioning and write changes to disk
    THE HARD DISK WILL BE PARITIONED AND FORMATTED!
5.17   Manual partition for two disk software RAID
    5.17.1   Create partitions in both hard disk with All files in one partition.
    5.17.2   Set both primary and logical partition type to physical volume for RAID
    5.17.3   Configure software RAID
    5.17.4   Set up RAID for primary partitions and swap partitions
    5.17.5   Finish partitioning and write changes to disk
    THE HARD DISK WILL BE PARITIONED AND FORMATTED!
5.18   Install the base system
5.19   Configure the package manager
5.20   Select and install software
    5.20.1   Install the Desktop but no web server, sql server, or anything else.
        5.20.1.1   For a quicker install, skip the Desktop but then you will work from a command line prompt with no GUI.
    5.20.2   The network install will commence and will take up to 1 hour depending on your network bandwidth.
5.21   Install the GRUB boot loader on hard disk.
5.22   Finish installation. Remove boot CD, USB stick, and reboot.
5.23   Login to desktop with your log in name and password.
5.24   Copy the NovaStar 5 install program to your computer.

5.24.1 32bit OS: novastar5install-i386.exe

5.24.2 64bit OS: novastar5install-iamd64.exe

5.25   Execute the novastar5 install program.

5.25.1 Enter the root password when prompted.

5.25.2 The postgresql, tomcat and other required software will be downloaded and installed before NovaStar 5 is installed.

5.25.3 NovaStar 5 is installed.

5.25.4 NovaStar 5 icon is copied to your desktop.

5.26   Execute the NovaStar 5 icon to start the Iceweasel web browser with the NovaStar 5 welcome page.