

Project Bouncer

Installation Guide Version 1

May 17, 2019

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How to install Bouncer onto a Netgate Appliance

1.1 Installing Debian Onto a Netgate Appliance

The operating system that is loaded from the factory onto the Netgate appliance is pFsense, which runs on FreeBSD. To get Bouncer to work, it will need to be installed onto Debian. To install Debian onto the Netgate appliance, follow the instructions below.

- 1. Download the newest version of Debian and create a bootable USB drive from it.
- 2. Plug the bootable USB drive into one of the USB slots on the front of the appliance.
- 3. Connect one end of the provided USB console cable to the appliance and the other end to your USB on your PC.
- 4. Open up Putty and input the settings below:
 - a. Connection Type: Serial
 - b. Speed: 115200
 - c. Serial Line: This will depend on which COM port your computer is using. Generally, try COM1-COM4.

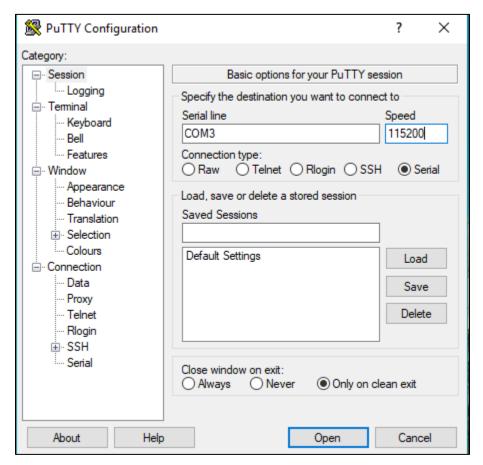
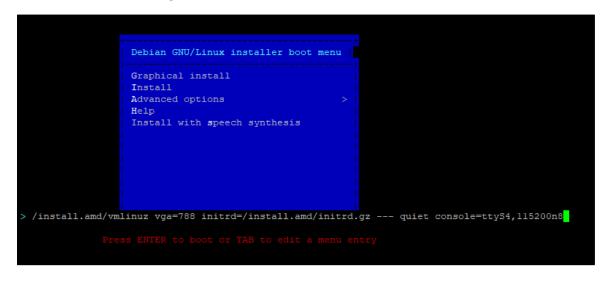


Figure 1: PuTTY Configuration

- 5. Power on the appliance.
- 6. Once the boot menu appears, highlight the "Install" option.

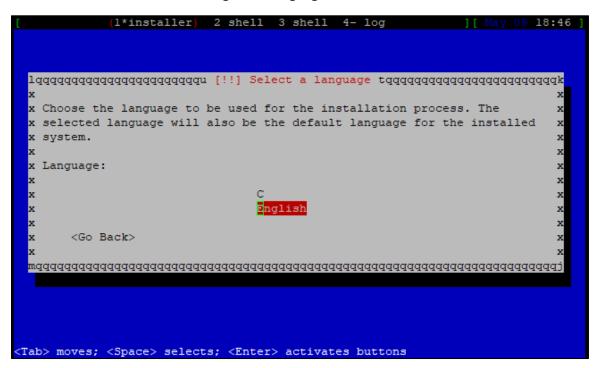
- 7. Hit Tab and insert the following command at the end
 - a. console=ttyS4,115200n8.
 - b. Note: change the ttyS4 to an output that works for you. Example, ttyS3, ttyS2. It is usually the serial COM port you used to connect with Putty plus 1. For me, I used COM3 so my output is ttyS4.
 - c. Hit Enter.

Figure 2: Debian GNU/Linux installer boot menu



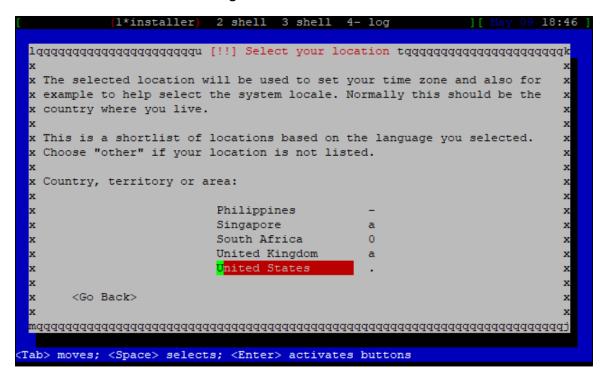
8. Select language of your choice.

Figure 3: Language selection



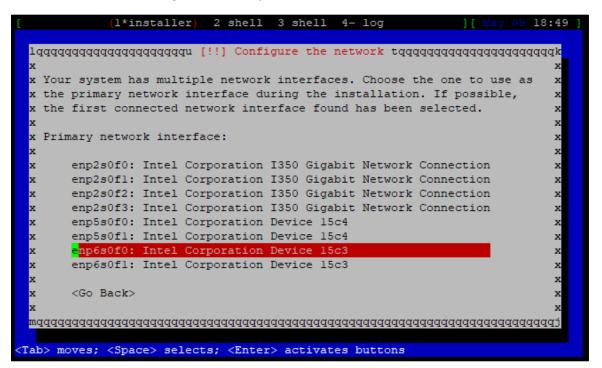
9. Select your location.

Figure 4: Location selection



10. Select the primary network interfaces.

Figure 5: Primary network interface selection

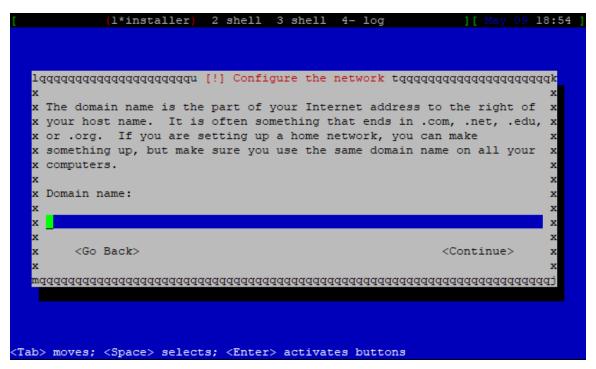


11. Type in a hostname for the appliance.

Figure 6: Enter hostname

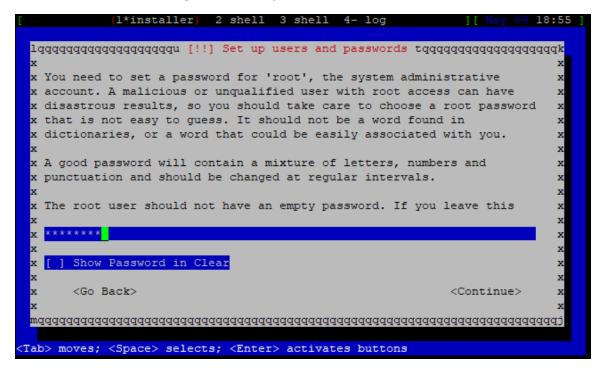
12. Type in a domain name if you require it.

Figure 7: Enter domain name



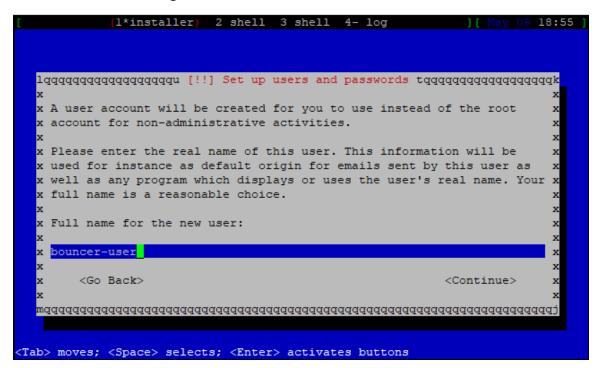
13. Create a password for the "root" account.

Figure 8: Create password for root account



14. Create a user name for a standard account.

Figure 9: Enter username for standard account

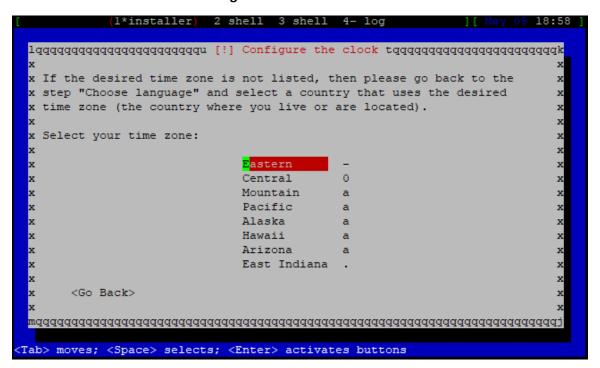


15. Create a password for the standard user.

Figure 10: Create password for standard user

16. Select the timezone for the clock.

Figure 11: Select timezone



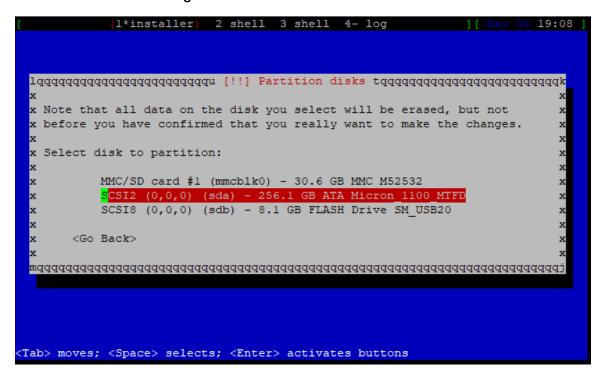
17. Select the disk configuration. If you do not need to partition it, choose "use the entire disk."

Figure 12: Select disk configuration

```
(1*installer) 2 shell 3 shell 4-log
 x The installer can guide you through partitioning a disk (using
 x different standard schemes) or, if you prefer, you can do it
 x manually. With quided partitioning you will still have a chance later
 x to review and customise the results.
x If you choose guided partitioning for an entire disk, you will next
 x be asked which disk should be used.
x Partitioning method:
         Guided - use the largest continuous free space
         Guided - use entire disk
                                                   n
         Guided - use entire disk and set up LVM
         Guided - use entire disk and set up encrypted LVM
     <Go Back>
 Tab> moves; <Space> selects; <Enter> activates buttons
```

18. Select the hard drive you wish to install Debian on. Make sure to select the correct drive and not the built in flash. The correct drive should be the larger one.

Figure 13: Select hard drive for installation

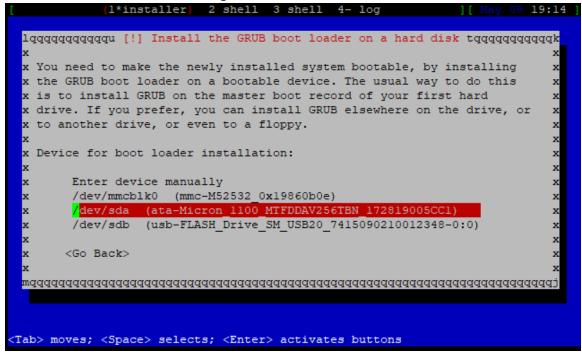


19. Select the partitioning scheme for the disk.

Figure 14: Select partitioning scheme

- 20. The Debian OS install will now begin.
- 21. Select the boot drive to install GRUB on. It is usually the "sda" device.

Figure 15: Select boot drive



22. After installation is finished. Unplug the USB drive and reboot the appliance.

1.2: Installing Bouncer onto the Netgate Appliance

- 1. Once Debian OS is installed, Git will need to be installed so the appliance is able to download the Bouncer software directly from the Github repository.
- 2. Under the root account, install git by executing the command below:

```
apt-get install git
```

```
root@bouncer-appliance:/home/bouncer-user# apt-get install git
```

3. Clone the official Bouncer repsository from Github to the appliance with the command below:

```
git clone https://github.com/nmfta-repo/nmfta-bouncer
```

4. Install the following requirements for Bouncer

```
apt-get install ufw python3-pip
```

5. Navigate to the Bouncer directory. Execute packager.sh with the following command in the bouncer directory:

./packager.sh

```
root@bouncer-appliance:/home/bouncer-user/nmfta-bouncer# ./packager.sh
```

6. Install Bouncer with the following command in the bouncer directory:

dpkg -1 bouncer.deb

root@bouncer-appliance:/home/bouncer-user/nmfta-bouncer# dpkg -i bouncer.deb

7. Bouncer is now installed.