

My Simple Networking Linux Guide

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Contents

1	Introduction	1
2	Software Used	1
3	Creating the Virtual Machines	1
4	Installing the Arch Linux operation system	2
5	Setting up a Secure Shell using Open SSH	2
6	Setting up a virtual private network using Open VPN	2
7	Service	2
8	Setting up the firewall	2



List of Figures



List of Tables



1 Introduction

In the following guide, you will learn how to set up, a simple connection between two linux machines.

2 Software Used

For this project the following external software are going to be used:

- Oracle VM VirtualBox Manager
- Arch Linux
- OpenSSH
- ...

This guide is not going to go into detail, on how to install the software “Oracle VM Virtual Box Manager”. As the ability to install this is less than the minimum requirement to understand this guide.

3 Creating the Virtual Machines

After you open up “Oracle VM Virtual Box Manager”, create two new virtual machines, for this you will need an Arch Linux ISO file, which you can download from the Arch Linux website. Once you have the ISO file, you can just press the Control and N key simultaneously or click the Star button. Here you will need to Name your virtual, locate and select the Arch Linux ISO file you downloaded and press continue. Afterwards you can leave everything on the default settings. The only specification that you will need to change is the RAM and in case you want to limit the storage space used, the storage space of your virtual machine, each of your virtual machines, should have at-least the following specifications:

- 2 Gigabytes of RAM
- 40 Gigabytes of storage space, in case of static storage



4 Installing the Arch Linux operation system

After creating the virtual machines, you can boot up said machines. Once here you will be greeted by the following image Here just choose the “Boot Arch Linux (x86_64)” option, by pressing the enter key. After doing so, you will see Arch Linux booting up, do not be scared, just wait for it to do its thing, you will know it is done, when you see the following scene Here you will first want to type in the command “lsblk”, this will show you all the so called block devices on the virtual machine, the important one for us here is going to be the one, with the type disk and the same Size, as your virtual machines storage space.

5 Setting up a Secure Shell using Open SSH

6 Setting up a virtual private network using Open VPN

7 Service

8 Setting up the firewall