

Tutorial for 12/01, Virtual Home Lab Setup Basics – Pfsense firewall and Docker.

Prerequisites:

1. Virtual Box installed, installing the extensions is optional but will make your life easier.

<https://www.virtualbox.org/wiki/Downloads>

2. Image of Kali Linux Vbox Image:

<https://www.offensive-security.com/kali-linux-vm-vmware-virtualbox-image-download/>

GRAB THE ONE FOR VIRTUALBOX, NOT VMWARE!

3. Pfsense ISO:

<https://www.pfsense.org/download/>

4. Linux of your choice installed in VirtualBox (optional, debian based will be easiest if you want to follow along)

Tutorial Phase:

Step 1: Set up and install Pfsense with two network adapters.

Step 2: Configure Pfsense to bridge traffic from WLAN to internal LAN for lab network.

Step 3: Install Docker

Step 4: How to install virtualbox extensions in Ubuntu.

Step 5: Brief intro to what docker is using Nginx container and a simple web site.

Step 6: Pull and Deploy the DVWA from docker.

Step 7: Perform basic file inclusion.

Step 8: Answer questions.