**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.