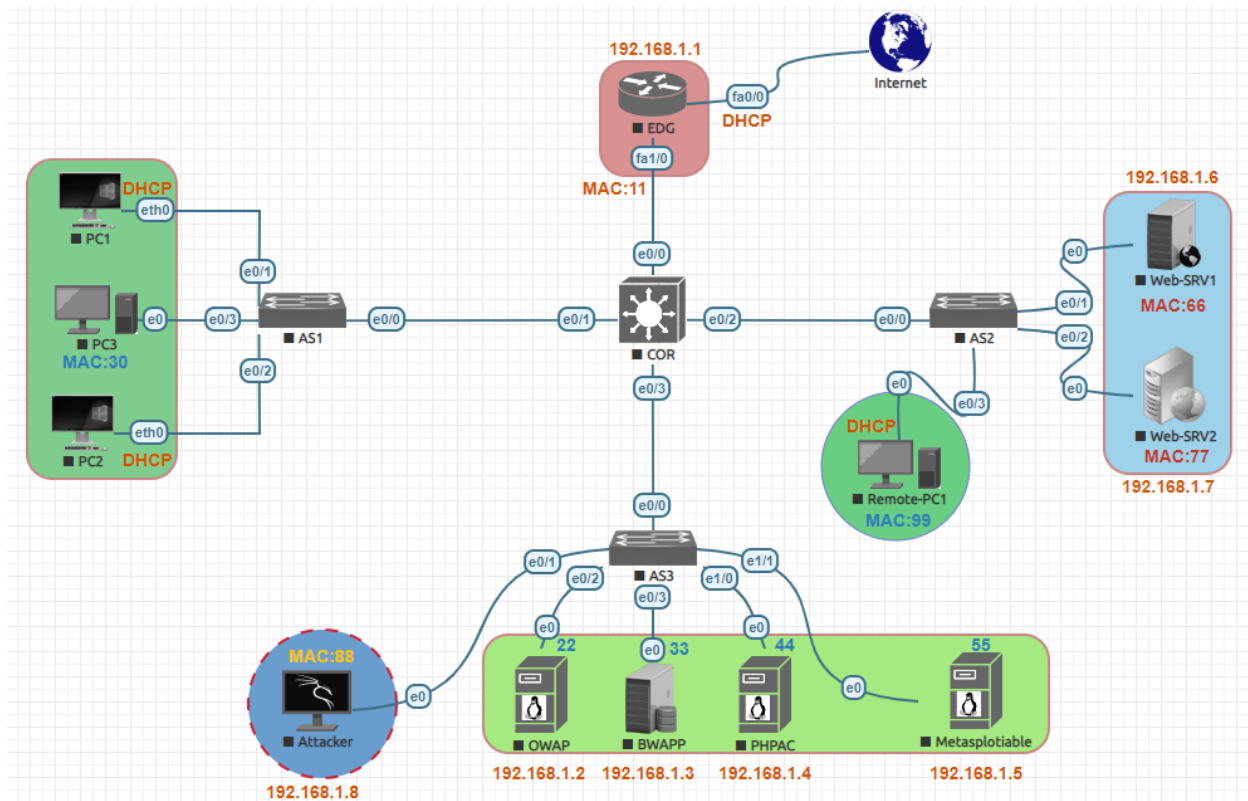


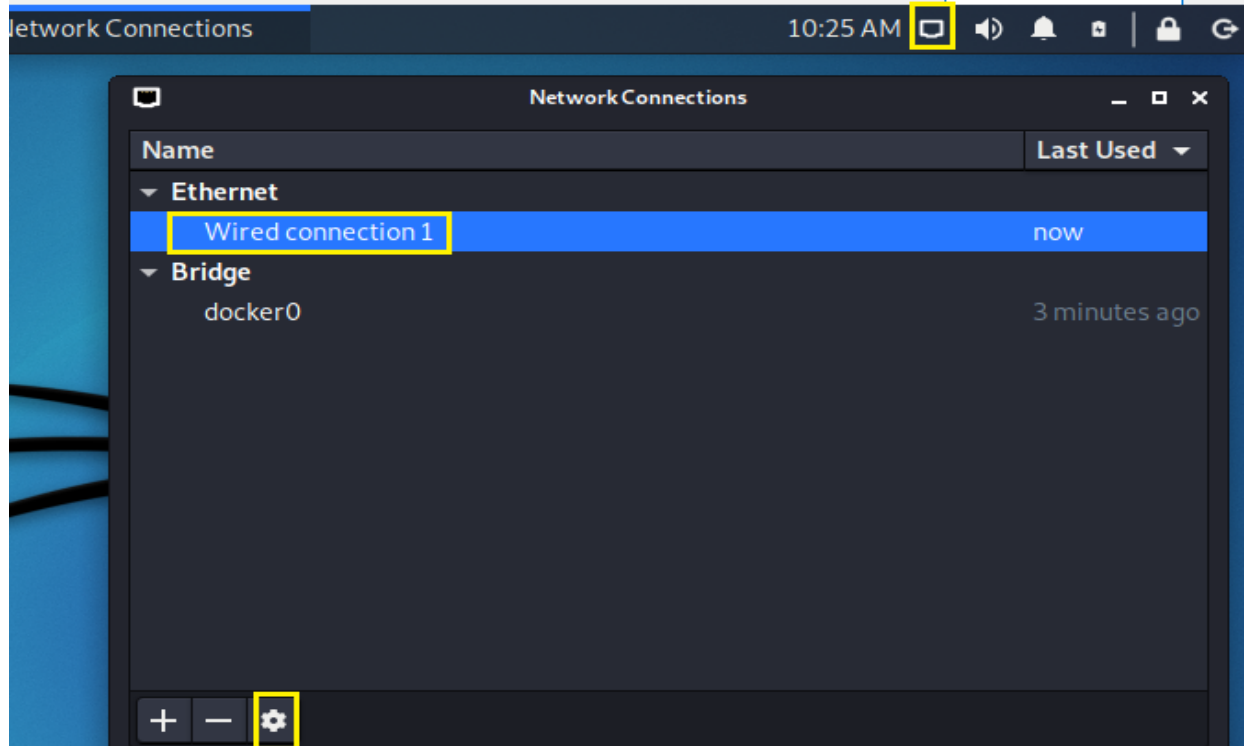
Vulnerable Servers Configuration:



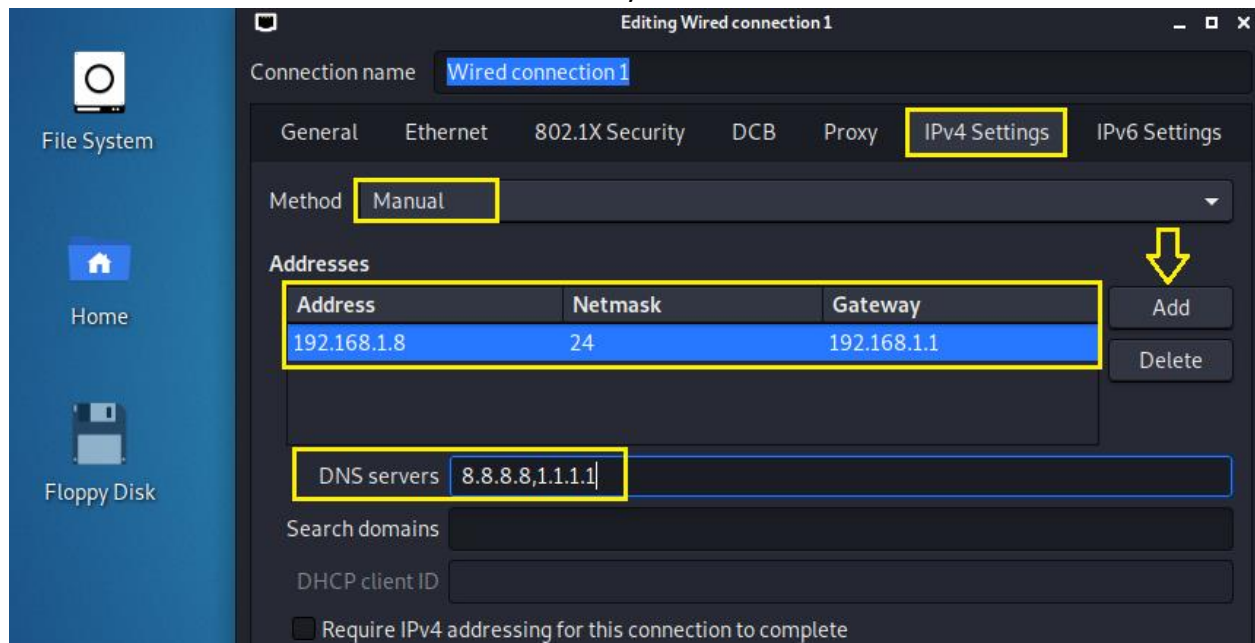
OWAP	OWASP_Broken_Web_Apps_VM_1.2
BWAPP	bee-box_v1.6
PHPAC	PHP Auction 2.1
Metasploitable	Metasploitable 2
Attacker Image	Kali Linux 2022.1
OWAP Server IP Address	192.168.1.2
BWAPP Server IP Address	192.168.1.3
PHPAC Server IP Address	192.168.1.4
Metasploitable Server IP Address	192.168.1.5
Attacker IP Address	192.168.1.8
OWAP Server MAC Address	AA:AA:AA:AA:AA:22
BWAPP Server MAC Address	AA:AA:AA:AA:AA:33
PHPAC Server MAX Address	AA:AA:AA:AA:AA:44
Metasploitable Server MAC Address	AA:AA:AA:AA:AA:55
Attacker MAC Address	AA:AA:AA:AA:AA:88

Kali Linux Attacker Configuration:

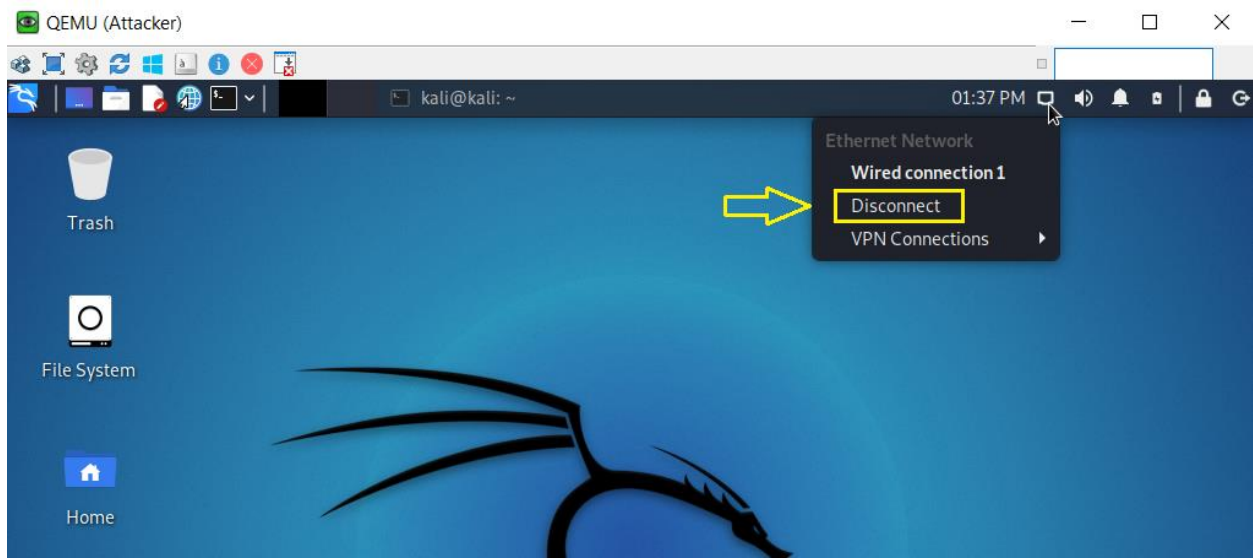
Next to the clock, right-click on the **network connections** icon. In the context menu that opens, click on “**Edit Connections...**”. Select the network for which you want to configure a static IP address and click the gear icon.



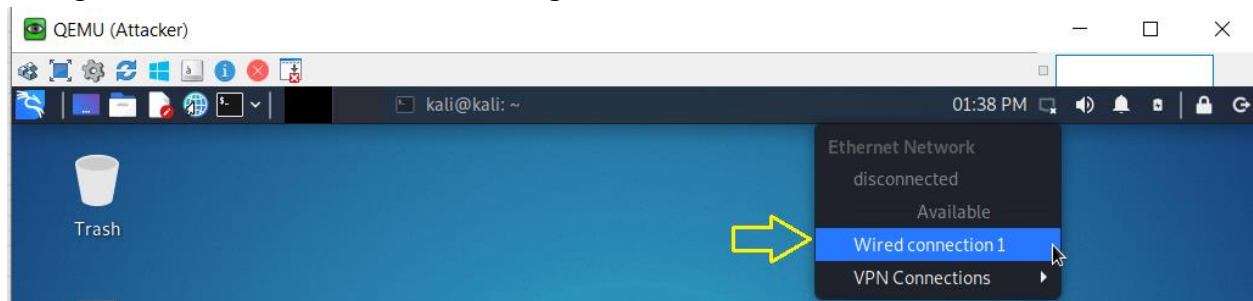
In the window that opens, go to the “**IPv4 Settings**” tab. Select “**Manual**” for the “**Method**”. Then click the **Add** button and enter the values you want. Click the “**Save**” button.



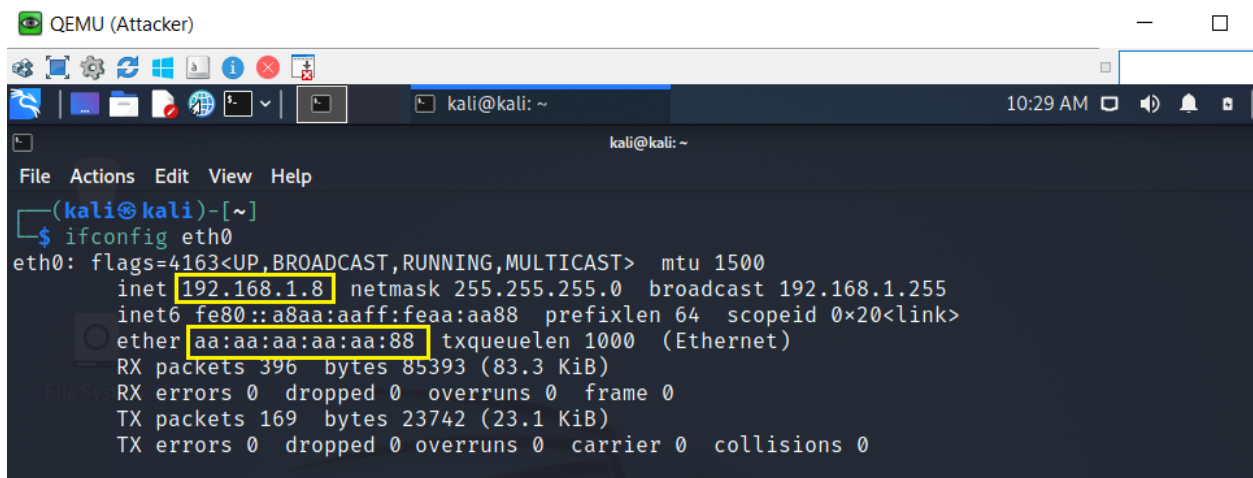
Changes will take effect after reconnecting to the network. Click on **Disconnect**.



Changes will take effect after reconnecting to the network. Click on **Wired connection 1**.



Let's verify the IP Address and details using the CLI command **ifconfig**



OWAP Configuration:

In CLI edit the interfaces file `vi /etc/network/interfaces`

`auto eth0`

`iface eth0 inet static`

`address 192.168.1.2`

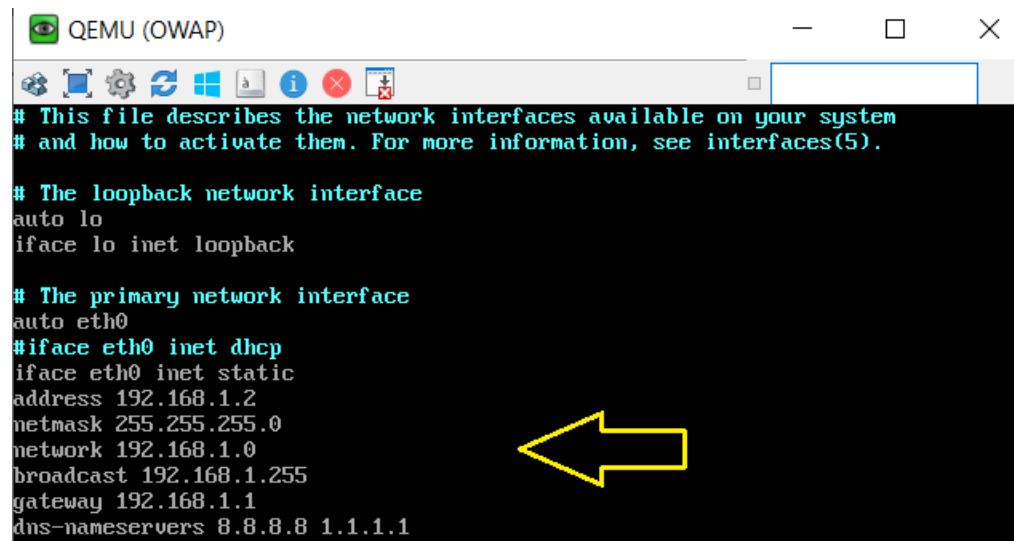
`netmask 255.255.255.0`

`network 192.168.1.0`

`broadcast 192.168.1.255`

`gateway 192.168.1.1`

`dns-nameservers 8.8.8.8 1.1.1.1`



```
QEMU (OWAP)
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

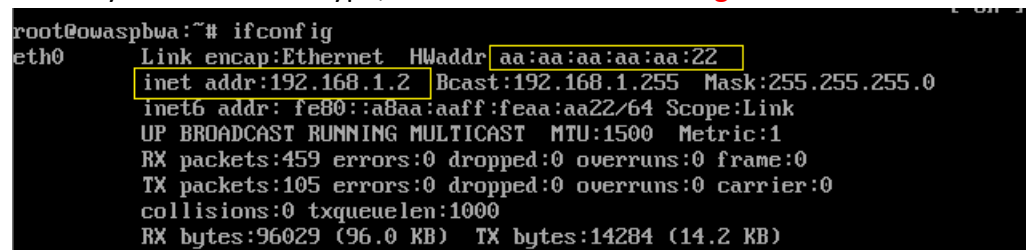
# The primary network interface
auto eth0
#iface eth0 inet dhcp
iface eth0 inet static
address 192.168.1.2
netmask 255.255.255.0
network 192.168.1.0
broadcast 192.168.1.255
gateway 192.168.1.1
dns-nameservers 8.8.8.8 1.1.1.1
```

`: wq`

Restart networking

`sudo /etc/init.d/networking restart`

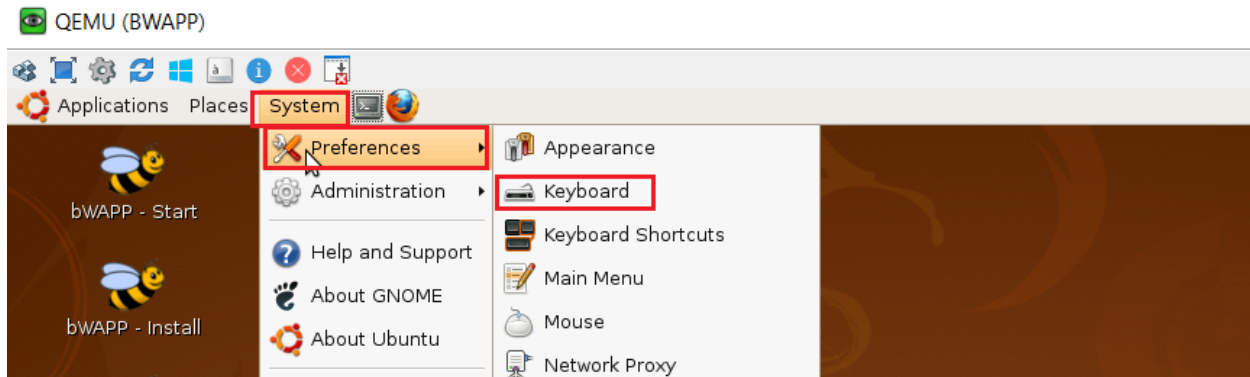
to verify the IP Address type, the CLI Command `ifconfig`



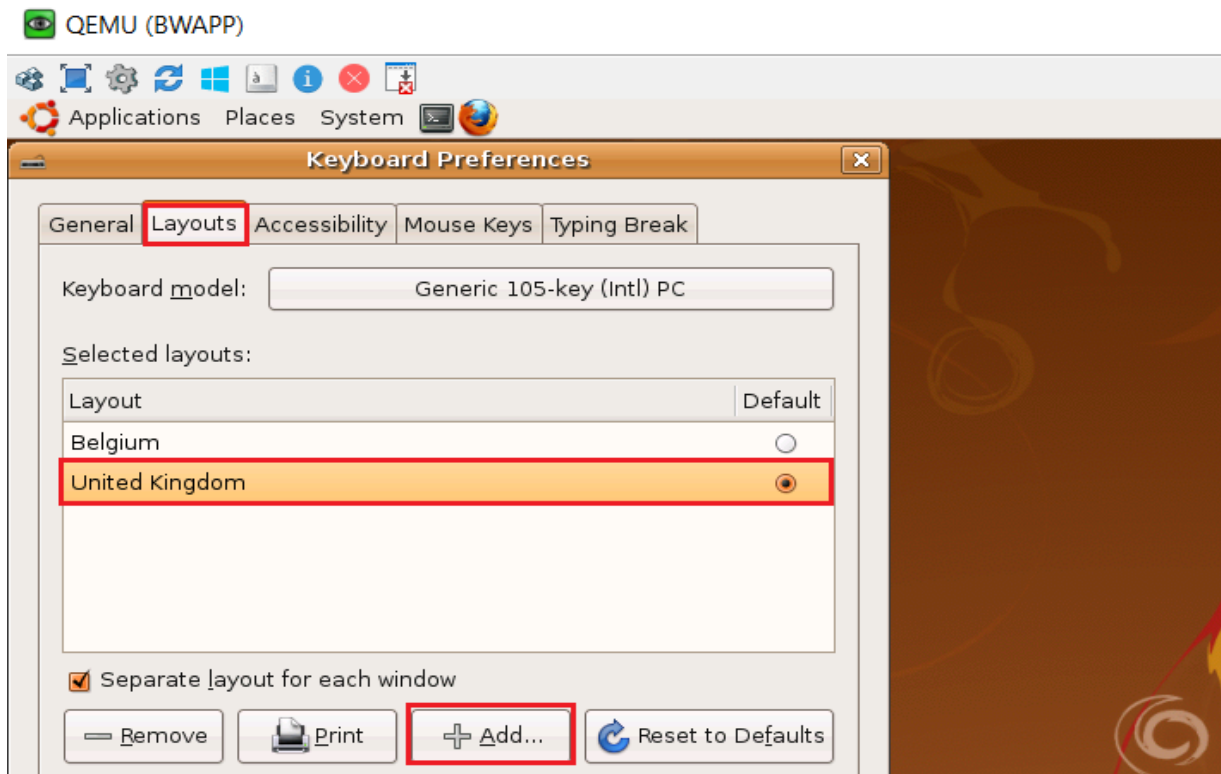
```
root@owaspbwa:~# ifconfig
eth0      Link encap:Ethernet  HWaddr aa:aa:aa:aa:aa:22
          inet addr:192.168.1.2  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::a8aa:aaff:feaa:aa22/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:459 errors:0 dropped:0 overruns:0 frame:0
          TX packets:105 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:96029 (96.0 KB)  TX bytes:14284 (14.2 KB)
```

BWAPP Configuration:

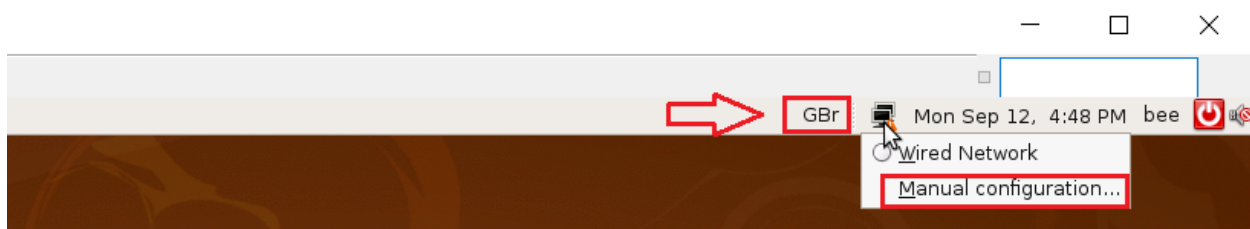
First let's configure Keyboard Language to English navigate to **System>Preferences>Keyboard**



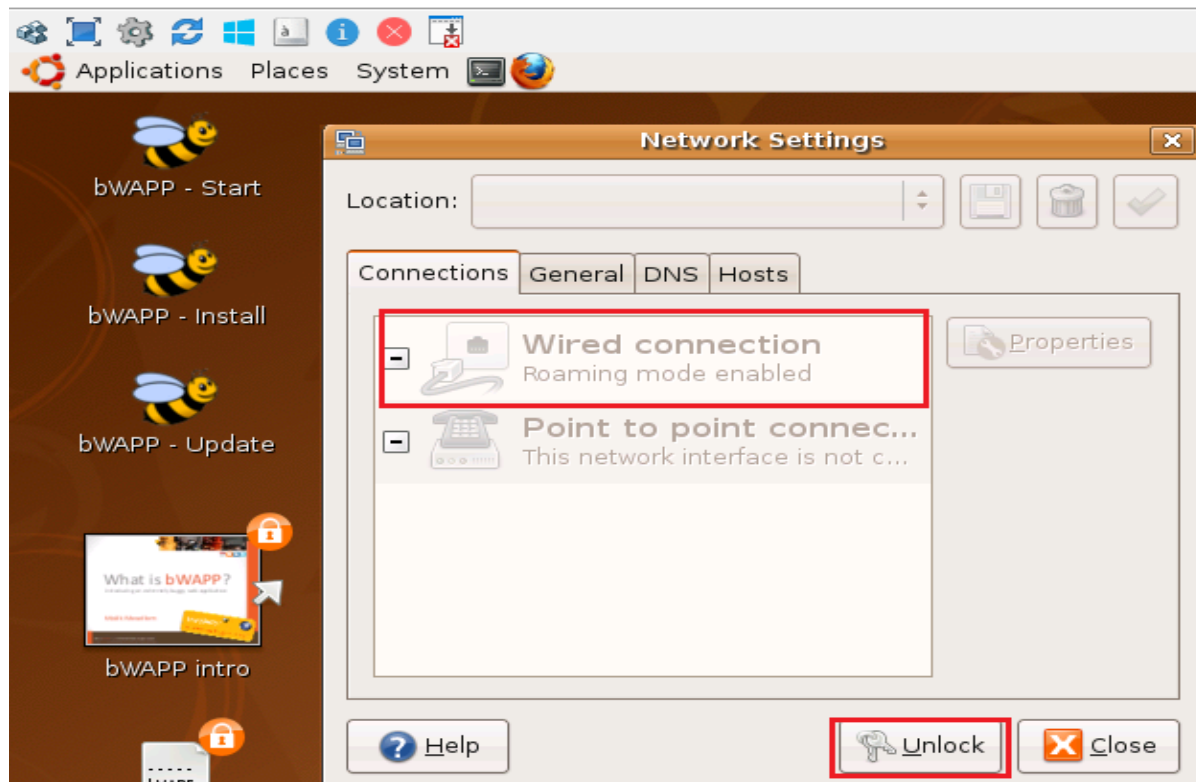
Navigate to **Layouts>Add >** Choose United Kingdom make it default click **OK**.



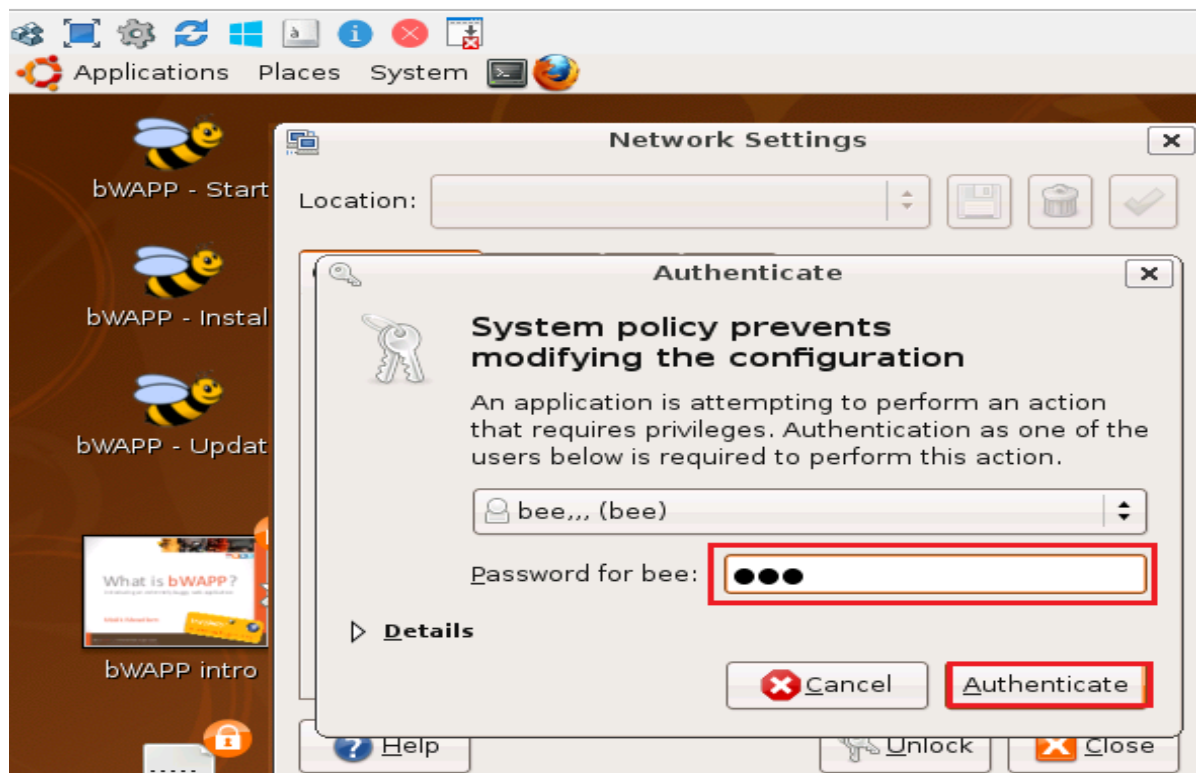
Change the Language from top bar to **GBr** and click on **Manual Configuration**



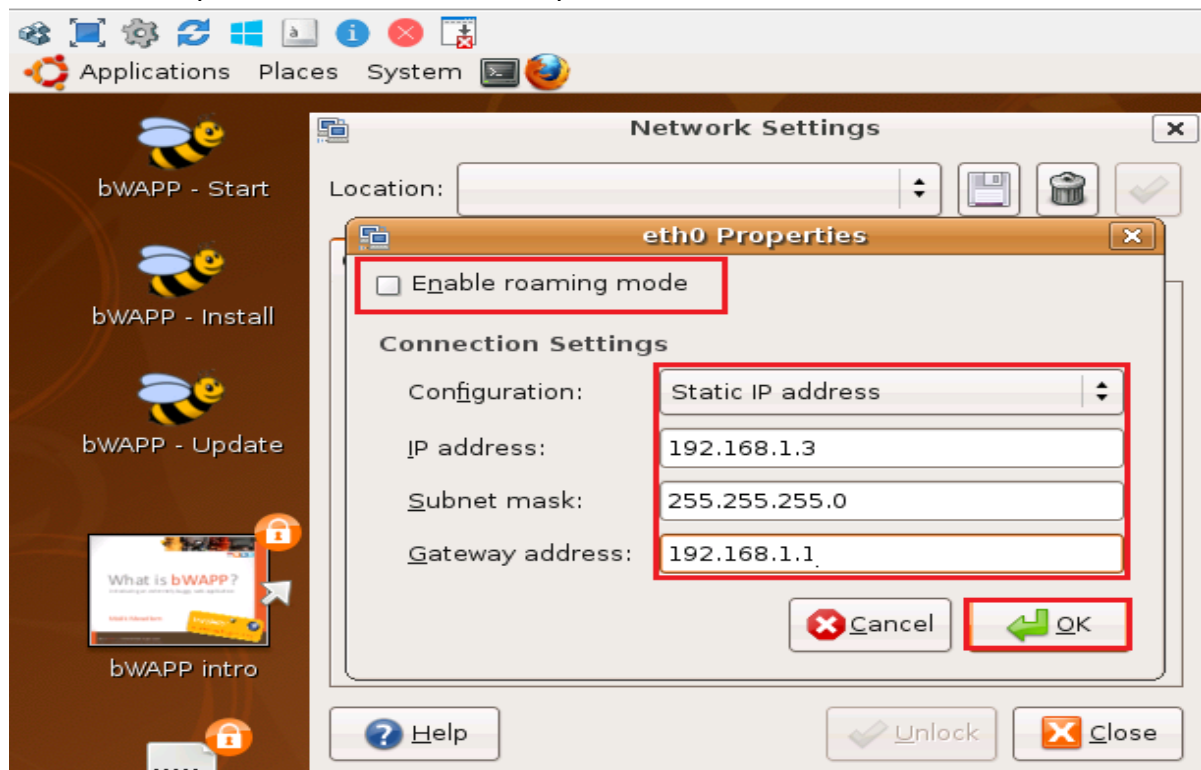
In **Network Settings > Connections > Wired connection** click on **Unlock**.



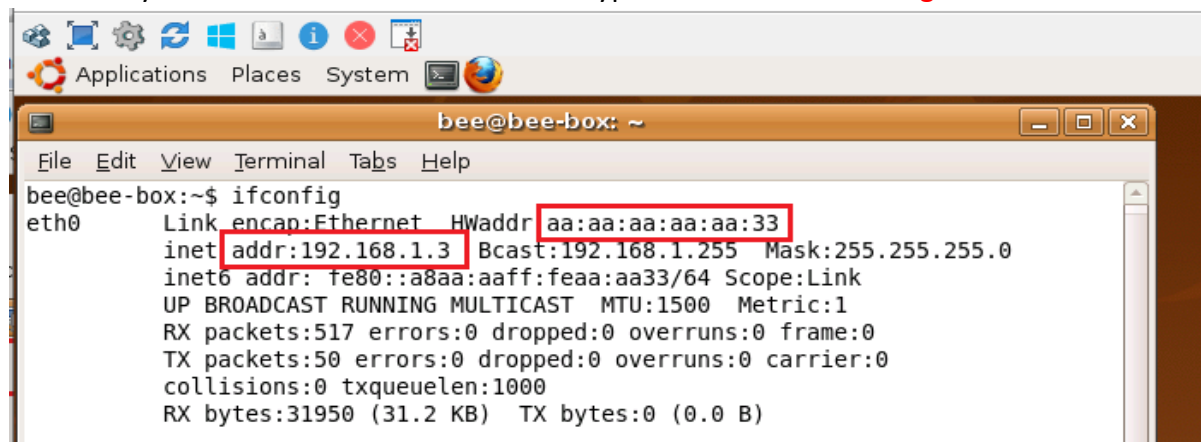
Type the password **bug** and click on **Authenticate**



Uncheck **Enable roaming mode**, Configuration: Static IP address type the IP address, Subnet Mask, Gateway address and click **OK** finally closed the windows.



Let's Verify the IP Address and other Details type CLI Command **ifconfig**



PHP Auction Configuration:

In CLI edit the interfaces file `vi /etc/network/interfaces`

`auto eth0`

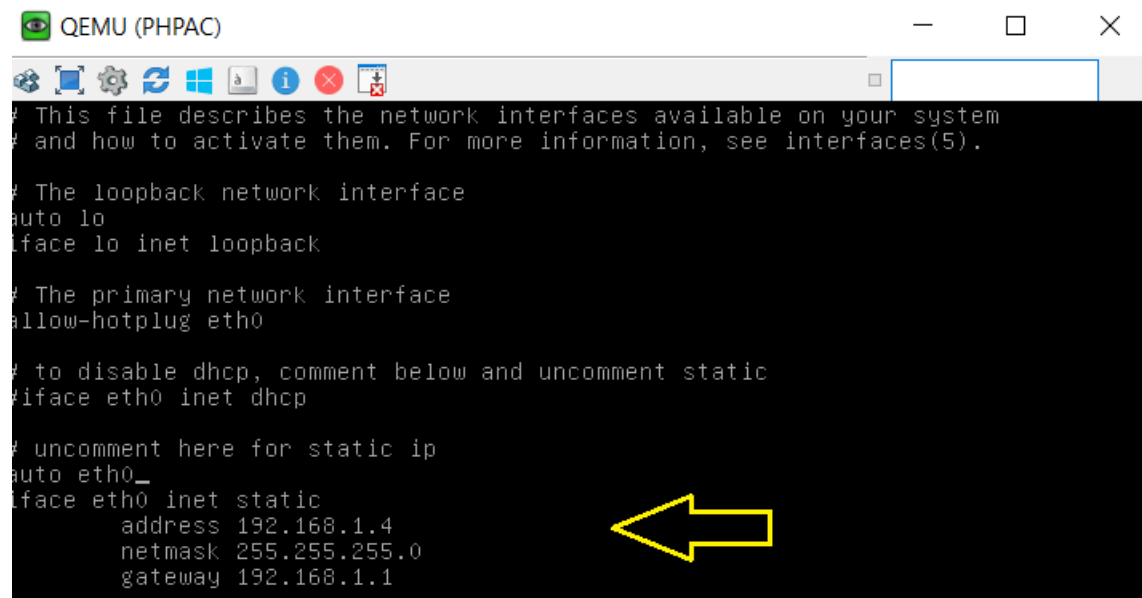
`iface eth0 inet static`

`address 192.168.1.4`

`netmask 255.255.255.0`

`gateway 192.168.1.1`

`dns-nameservers 8.8.8.8 1.1.1.1`



```
QEMU (PHPAC)
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug eth0

# to disable dhcp, comment below and uncomment static
#iface eth0 inet dhcp

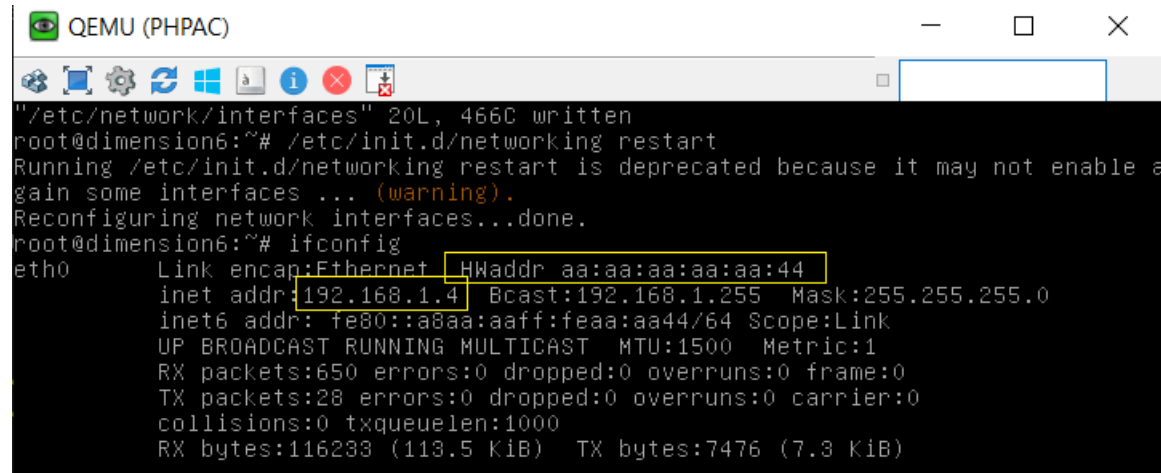
# uncomment here for static ip
auto eth0_
iface eth0 inet static
    address 192.168.1.4
    netmask 255.255.255.0
    gateway 192.168.1.1
```

`: wq`

Restart networking

`sudo /etc/init.d/networking restart`

Let's Verify IP Address and other Details type CLI Command `ifconfig`



```
QEMU (PHPAC)
"/etc/network/interfaces" 20L, 466C written
root@dimension6:~# /etc/init.d/networking restart
Running /etc/init.d/networking restart is deprecated because it may not enable a
gain some interfaces ... (warning).
Reconfiguring network interfaces...done.
root@dimension6:~# ifconfig
eth0      Link encap:Ethernet  HWaddr aa:aa:aa:aa:aa:44
          inet addr:192.168.1.4  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::a8aa:aaff:feaa:aa44/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:650 errors:0 dropped:0 overruns:0 frame:0
          TX packets:28 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:116233 (113.5 KiB)  TX bytes:7476 (7.3 KiB)
```


Metasplotiable Configuration:

In CLI edit the interfaces file `vi /etc/network/interfaces`

`auto eth0`

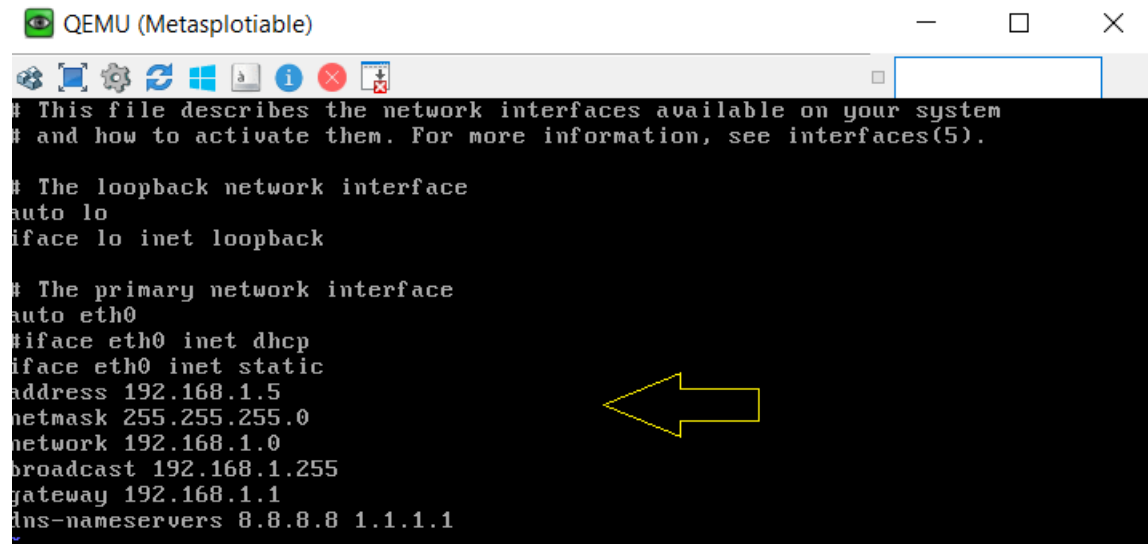
`iface eth0 inet static`

`address 192.168.1.5`

`netmask 255.255.255.0`

`gateway 192.168.1.1`

`dns-nameservers 8.8.8.8 1.1.1.1`



```
QEMU (Metasplotiable)
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

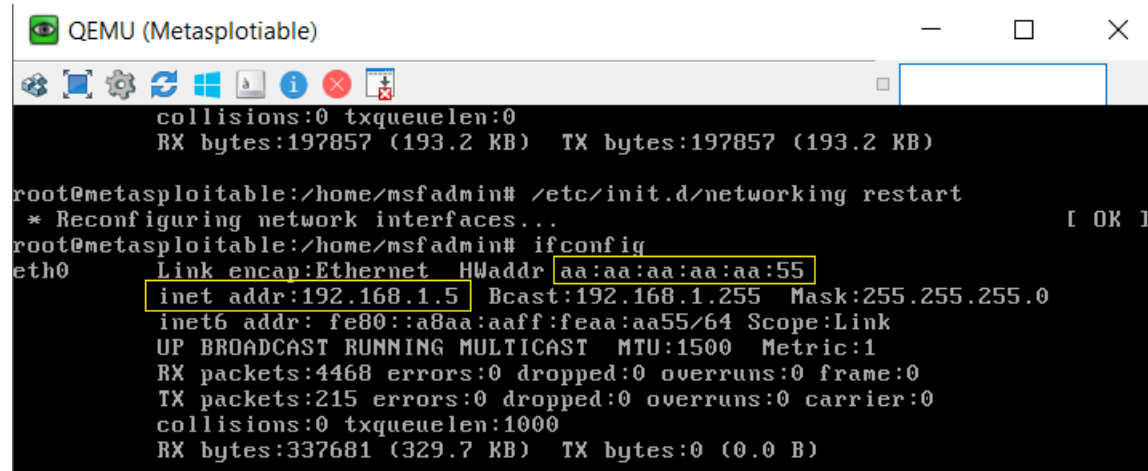
# The primary network interface
auto eth0
#iface eth0 inet dhcp
iface eth0 inet static
address 192.168.1.5
netmask 255.255.255.0
network 192.168.1.0
broadcast 192.168.1.255
gateway 192.168.1.1
dns-nameservers 8.8.8.8 1.1.1.1
```

`: wq`

Restart networking

`sudo /etc/init.d/networking restart`

Let's Verify IP Address and other Details type CLI Command `ifconfig`



```
QEMU (Metasplotiable)
collisions:0 txqueuelen:0
RX bytes:197857 (193.2 KB) TX bytes:197857 (193.2 KB)

root@metasploitable:/home/msfadmin# /etc/init.d/networking restart
* Reconfiguring network interfaces... [ OK ]
root@metasploitable:/home/msfadmin# ifconfig
eth0: Link encap:Ethernet HWaddr aa:aa:aa:aa:aa:55
      inet addr:192.168.1.5 Bcast:192.168.1.255 Mask:255.255.255.0
      inet6 addr: fe80::a8aa:aaff:feaa:aa55/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:4468 errors:0 dropped:0 overruns:0 frame:0
      TX packets:215 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:337681 (329.7 KB) TX bytes:0 (0.0 B)
```