



# Network Security Laboratory – Lecture 6

LAYER 3 ATTACKS

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# IP Spoofing

- ▶ This attack is quite similar to ARP spoofing but it relies on using IP address of a victim host
- ▶ There are some technique to perform this attack but the most common is to use an ARP poisoner
- ▶ In this case the ARP poisoner will send ARP reply associating our MAC address to the victim IP Address
- ▶ So when the router forward the package it will send it to us

# Man In The Middle (MITM)

- ▶ The attacks that we built until now are part of MITM
- ▶ A MITM attacks is an attack where an Host is able to capture, read and forward packets of other hosts
- ▶ This attacks can be done starting of the attacks that we have already saw
- ▶ We will perform a full-duplex MITM, based on ARP Spoofing, with ettercap

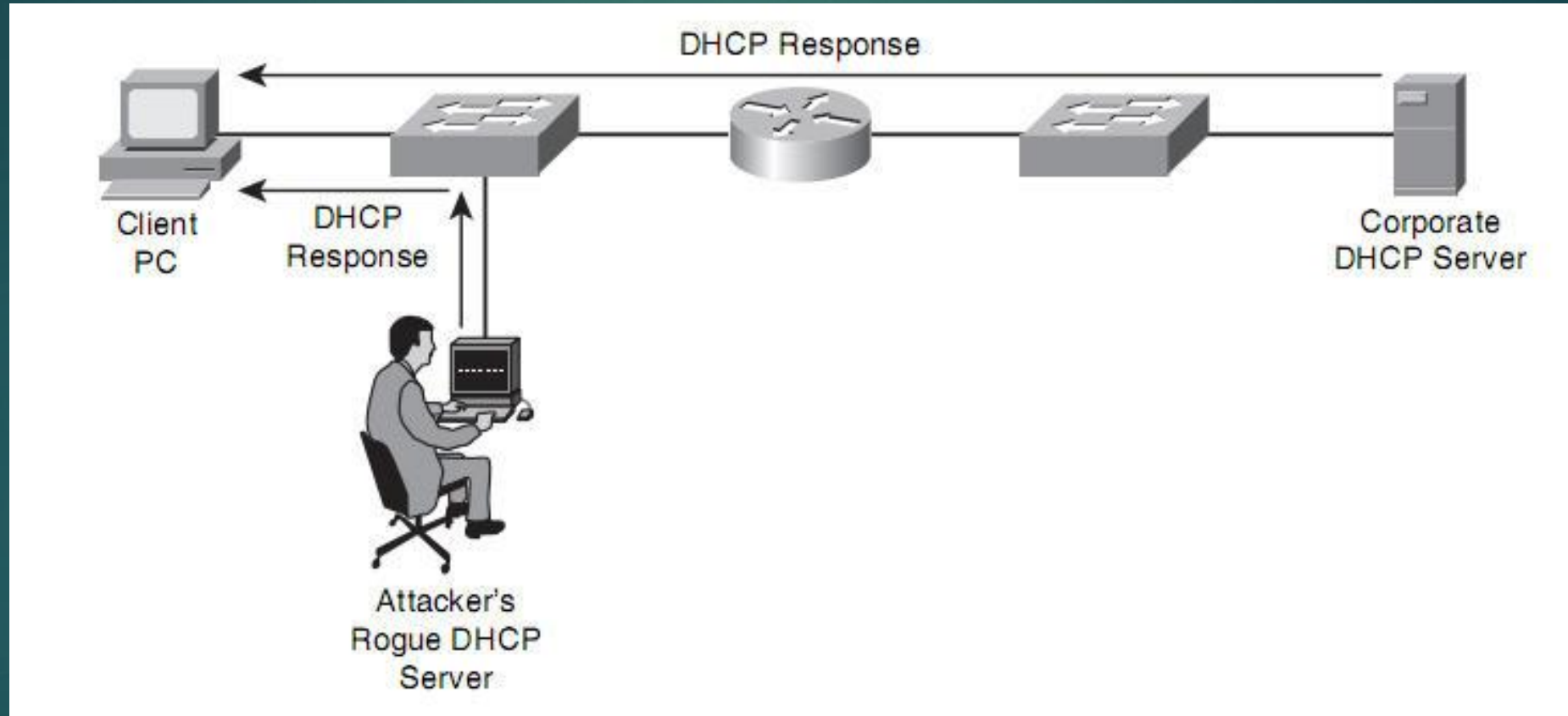
# Ettercap

- ▶ Ettercap is a well-known tool for MITM attacks
- ▶ There are some techniques to perform it
- ▶ We will focus on ARP spoofing
- ▶ On course website there is a guide to perform this attacks on our laboratory

# DHCP Spoofing

- ▶ The DHCP Spoofing attack is the most reliable MITM attack
- ▶ A victim will receive an IP address from the Rogue DHCP server and will be connected to its subnet
- ▶ All traffick will be captured from the Rogue server
- ▶ Will be active until the victim obtain a valid IP Address from the legitimate DNS server

# DHCP Spoofing





Questions?



The lesson is over.

Thank you!