



# Network Security Laboratory – Lecture 7

VPN, DNS SPOOFING, PHISHING

Dott. Andrea Baffa  
email: [abaffa94@servizimicrosoft.unical.it](mailto:abaffa94@servizimicrosoft.unical.it)

# Virtual Private Network (VPN)

- ▶ VPN extends the concept of private network across internet
- ▶ It can be established using an encrypted layered tunneling protocol
- ▶ Data inside the tunnel will be encrypted
- ▶ The tunnel is established in a point2point connection between an host and a VPN Server
- ▶ Outside the tunnel the data is transferred normally

# DNS Spoofing

- ▶ The DNS spoofing attack allow to redirect the victim to rogue websites where data is vulnerable
- ▶ The aim of this attack is to enstablish a Rogue DNS server that sent fake replies to Victim
- ▶ The victim try to go to legitimate site but will be redirected to a site hosted by the attacker
- ▶ This put the attacker in position to manipulate victim's data

# Phishing

- ▶ The Phishing attack allow to clone a legitimate website
- ▶ Used with DNS Spoofing this attack allow the attacker to stole precious data from the victim (like email and password)
- ▶ Victim will se a website that is quite identical to the real one and will not be able to see the difference

# Exercises

- ▶ On course website there is a guide for creating a VPN connection using SSH
  - ▶ Try to create a tunnel between two hosts in our lab
- ▶ Also on course website, using the guides available, try to replicate the attacks
  - ▶ DNS Spoofing
  - ▶ Phishing



Questions?



The lesson is over.

Thank you!