



Network Security Laboratory – Lecture 1

INTRODUCTION & GNS3 CONFIGURATION

Laboratory course overview

- ▶ GNS3 Laboratory configuration
- ▶ Symmetric Cryptography
 - Example of symmetric cryptography / Exercises
- ▶ Asymmetric Cryptography (SSL)
 - Self-signed Certificate
 - Authentic Certificate with Let's Encrypt
- ▶ WEP and WPA Cracking
 - With dictionary and rainbow tables

Laboratory course overview.. pt.2

- ▶ Layer 2 attacks
 - MAC Flooding / ARP poisoning – MAC spoofing / MITM with L2 attacks
- ▶ Layer 3 attacks
 - IP Spoofing / DHCP Spoofing / DNS Spoofing / Phishing
- ▶ SSL Strip
- ▶ 802.1x attacks
- ▶ Password Storage attacks

Today's lecture

- ▶ Install and configure GNS3 Laboratory
- ▶ This laboratory will be used on the course for most of the exercises
- ▶ On the course website there are the guides for gns3 and hosts configuration



Questions?



The lesson is over.

Thank you!