



Network Security Laboratory Session 1

INTRODUCTION & GNS3 LAB CONFIGURATION

About me

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Laboratory course overview – part 1

- ▶ 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 – part 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
- ▶ In case of need, download the GNS3 lab configuration guide on the course website along with the hosts configuration files



Let's start together