Network Security Laboratory – Lecture 1

INTRODUCTION & GNS3 CONFIGURATION

Introducing myself:

- Developer at NTT Data Italia S.P.A.
- Former student of Università della Calabria
- Master Degree in Computer Science, curriculum Network and Security
- My Thesis: AUTOMATIC NETWORK ACTIVITY DISCOVERY

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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!