

# Lab 1: Network Device Simulation with GNS3

Rich Macfarlane 2013

## 1.1 Details

**Aim:** The aim of this lab is to begin using the GNS3 network simulator and configure Cisco virtual routers. Cisco Routers will be added to a virtual network, and basic networking and security configurations will be performed on the devices.

This will give a foundation to investigate practical network security using virtual network devices within a virtual lab environment in the weeks to come.

## 1.2 Activities

### 1.2.1 (Optional) Install the GNS3 Network Simulator

GNS3 is a graphical network simulator which can provide simulation/emulation of entire networks, containing many network devices as well as host machines.

To allow realistic Cisco network simulations, GNS3 uses Dynamips; software which enables Cisco device emulation using actual Cisco Operating Systems (OS). This means the virtual devices are running the real Cisco OSs with the full functionality.

GNS3 can also interface directly with network applications such as Wireshark, as shown in the screen shot below.



The GNS3 home page can be found at:  
<http://www.gns3.net/>



Figure 1 - GNS3 Graphical Network Simulator

# Lab 1 Network Device Simulation With Gns3 Napier

**G Orfield**



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