

# Practical Network Defense

Third Assignment - University “La Sapienza”

**Group 27:** Nicola Bartoloni \*\*\*\*\* - Valerio Trenta 1856471

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## 1 Scope and Initial Considerations

The scope of this assignment is to setup a **Virtual Private Network** through **OpenVPN** in **OPNSense** to allow three authenticated *Road Warriors* to access the internal subnetworks of **ACME Co.**, and to grant the usage of a **proxy server** the very same authenticated internal clients of the network to reach the **WAN** outside the **Main Firewall**.

Since these tasks are going to allow connections from the outside - even if authenticated and thus probably secured - it is a good idea to make sure, as a first step, that every user on each of the internal machines is protected by a strong password, and we will probably also have to confirm that the SSH protocol on each machine behaves as we expect it to behave - some of the *root* accounts are already disabled by SSH on some machines, but some are still accepting connections based on basic authentication.