



TUTORIAL 6 – NETWORKS & NETWORK SECURITY

1) Firewalls

Note: A firewall is a hardware or software device that implements a security policy. Packet Filtering is a technique used to analyse packets entering or leaving a network.

Video Link: Moodle (Packet Filtering)

<https://www.coursera.org/> Real-time Cyber Threat Detection Course, New York University

Activity: Configure Windows Firewall

Activity Video (Moodle - Configure Windows Firewall)

<https://www.coursera.org/> Cisco Networking Essentials

2) DNS Resolution

Note: The DNS (Domain Name Service / System) resolves domain names to IP addresses.

Activity Link: Lab - Observing DNS Name Resolution (Moodle)

<https://www.coursera.org/> Cisco Networking Essentials

3) Web Protocols

Note: This activity will track the flow of traffic that happens when a web page is requested, how the IP address of the web page is resolved and the web page is delivered.

Activity1 Link: Lab – Packet Tracer - Client Interaction

Activity 2 Link: Lab – Packet Tracer – Observing Web Requests

4) Securing Wireless Networks

Video Link: Securing Wireless Networks (Moodle)

Activity Link: Configure Basic Wireless Security (Packet Tracer activity)



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REFERENCES:

1. [CISCO Networking Basics Specialization, \(2019\), Data Communications and Network Services, Coursera](#)
2. <https://www.netacad.com/>

