

## Skills Assessment - Zeek

### Intrusion Detection With Zeek: Detecting Gootkit's SSL Certificate

PCAP source: <https://www.malware-traffic-analysis.net/2016/07/08/index.html>

Attack description and possible detection points: <https://www.malware-traffic-analysis.net/2016/07/08/index.html>

<-- Focus on the SSL certificate parts.

**Neutrino**, a notorious exploit kit, and **Gootkit**, a potent banking trojan, collaborated in the past to perpetrate cyberattacks.

The **Neutrino** exploit kit opened the gate, and then **Gootkit** began to communicate over the network using SSL/TLS encryption. It's within these encrypted communications that we encountered a particularly striking detail - the SSL certificates used by **Gootkit** contained the Common Name (CN) "**My Company Ltd.**".

Cybercriminals frequently employ self-signed or non-trusted CA issued certificates to foster encrypted communication. These certificates often feature bogus or generic details. In this case, the common name **My Company Ltd.** stands out as an anomaly we can use to identify this specific **Gootkit** infection delivered via the **Neutrino** exploit kit.

Review the previously referenced resource that discusses the network traces resulting from **Gootkit** communications, and then proceed to address the following question.

#### VPN Servers

**Warning:** Each time you "Switch", your connection keys are regenerated and you must re-download your VPN connection file.

All VM instances associated with the old VPN Server will be terminated when switching to a new VPN server.

Existing PwnBox instances will automatically switch to the new VPN server.

US Academy 3

Medium Load

#### PROTOCOL

☒ UDP 1337 ☐ TCP 443

DOWNLOAD VPN CONNECTION FILE



#### Connect to Pwnbox

Your own web-based Parrot Linux instance to play our labs.

Pwnbox Location

UK

164ms

⏸ Terminate Pwnbox to switch location

? Go to Questions

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Suricata Fundamentals



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Snort Fundamentals



Snort Rule Development



#### Zeek

Zeek Fundamentals



Intrusion Detection With Zeek



#### Skills Assessment

Skills Assessment - Suricata



Skills Assessment - Snort



Skills Assessment - Zeek



#### My Workstation

OFFLINE

Start Instance

1 / 1 spawns left

Start Instance

∞ / 1 spawns left

Waiting to start...

☐ Enable step-by-step solutions for all questions ⓘ ✨

## Questions

Answer the question(s) below to complete this Section and earn cubes!

Download VPN  
Connection File

Target(s): [Click here to spawn the target system!](#)

SSH to with user **"htb-student"** and password **"HTB\_@cademy\_stdnt!"**

+ 1 📦 There is a file named `neutrino_gootkit.pcap` in the `/home/htb-student/pcaps` directory, which contains network traffic related to the Neutrino exploit kit sending Gootkit malware. Enter the `x509.log` field name that includes the "MyCompany Ltd." trace as your answer.

`certificate.subject`

Submit

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Finish

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