

RE110

NETWORKS AND SECURITY

Cybersecurity: Prevention and Detection of Intrusions

 Laboratory course**DURATION**
2 DAYS**REGULAR FEE**
955 \$**PREFERENTIAL FEE**
860 \$

Objectives

To provide the knowledge and skills required to identify the various types of intrusions and attacks on TCP/IP networks as well as the mechanisms which can be used to detect them, and to choose among the available detection tools.

Targeted audience

Network specialists (other than DBAs) .

Prerequisite

[Knowledge of TCP/IP](#) (Course RE102).

Content

- Uses of intrusion detection systems
- Common security threats: examples and characteristics of certain attacks
- Security problems with TCP/IP: fragmentation, ICMP, OS fingerprinting, DNS, denial of service, etc.
- Principles of vulnerability identification, presentation of tools for detecting intrusions and analyzing vulnerability: commercial and free software, and examples of use (TCPdump, Wireshark, Snort 2.9.X, Kali, Nessus, DenyAll and Nikto)
- Architecture of an intrusion detection system: IDS vs. IPS, physical and logical location in the network, system disturbance analysis and system abuse detection, alarms, logging, link with the security gateway (Firewall)
- Errors to avoid, false positives and false negatives
- Securing servers and workstations
- Trace analysis
- Autopsies (Forensic)
- Managing security incidents: preparing an action plan for handling intrusions
- Administering an intrusion detection system
- Trace analysis case studies and exercises

440 René-Lévesque West Blvd, 5th Floor, Montreal (Quebec) H2Z 1V7

Phone: 514 380 0380 | toll free: 514 380 0380 (Mtl) / 418 681 0865 (Qc) / 1 877 380 8228

<http://www.technologia.com/en/information-technology/networks-and-security/it-security/cybersecurity-prevention-and-detection-of-intrusions/>

Contact Us: formation@technologia.ca

© 2020 All rights reserved Groupe informatique Technologia inc.

Select the training date*

Quebec City	September 28 to September 29 2020
Montreal	October 19 to October 20 2020