

Masterclass: Windows Security and Infrastructure Management

Cursusduur: 5 Dagen Cursuscode: WSI Trainingsmethode: Maatwerk

Beschrijving:

This is an international Live Virtual Class, which means you will share the learning experience in a group of IT pros from around the world! The class is taught in English by Cybersecurity Experts! Remember that this course is limited to 12 participants total to ensure the highest quality and unique learning experience.

During this course you will have an opportunity to interact with the instructor and get their help with any problems you might encounter, just as if it was a regular class. About the course The secure infrastructure configuration should be the most important line of defense in every organization. Unfortunately, people, the most valuable resource, are not always aware of the level of security in their companies, possible points of entry, how operating systems are attacked, and how to protect the infrastructure from successful attacks which are sometimes caused by configuration mistakes.

Understanding internal OS protection mechanisms and services/roles completely provides a huge impact on the whole infrastructure security level. Unfortunately, the problem is... rarely anyone has this impact! Advanced access rights, password mechanisms, windows internals, PowerShell usage for security purposes, gaining unauthorized access, advanced DNS configuration and common configuration mistakes, Active Directory security, IIS Security, debugging, advanced monitoring and troubleshooting and much more! Topics covered during this training will help you to walk in hackers' shoes and evaluate your infrastructure from their point of view.

Doelgroep:

Enterprise administrators, infrastructure architects, security professionals, systems engineers, network administrators, IT professionals, security consultants and other people responsible for implementing network and perimeter security.

Examens en certificering

What is wonderful about our certification is that it is lifetime valid with no renewal fees – the technology changes, but fundamentals and attitude remain mostly the same. Our Virtual Certificates, which entitle you to collect CPE Points, are issued via Accredible.

Cursusinhoud:

Module 1: Windows Internals ; System Architecture	e) Kernel-mode debugging	a) Windows Server Core Improvements in Windows Server 2019
a) Introduction to the Windows 10 and Windows Server 2019 security concepts	f) User-mode debugging	b) AppLocker implementation scenarios
b) Architecture overview and terms	g) Setting up kernel debugging with a virtual machine as the target	c) Advanced BitLocker implementation techniques (provisioning, Standard User
c) Key System Components i. Processes, Threads and Jobs ii. Services, Functions and Routines iii. Sessions iv. Objects and Handles v. Registry	h) Debugging the boot process	Rights and Network Unlock? d) Advanced Security Configuration Wizard
	i) Crash dump analysis	e) IPSec
d) Advanced Local Procedure Call	j) Direct Kernel Object Manipulation	f) Advanced GPO Management
e) Information gathering techniques i. Windows Debugging ii. Performance Monitor iii. Windows	k) Finding hidden processes	g) Practicing Diagnostic and Recovery Toolkit
Driver Kit iv. Other useful tools	I) Rootkit Detection	h) Tools
Module 2: Process and Thread Management	Module 5: Memory Analysis	Module 9: Layered Network Services
a) Process and thread internals	a) Memory acquisition techniques	a) Network sniffing techniques
b) Protected processes	b) Finding data and activities in memory	b) Fingerprinting techniques
c) Process priority management	c) Step-by-step memory analysis techniques	c) Enumeration techniques
d) Examining Thread Activity	d) Tools and techniques to perform memory forensic	d) Networking Services Security (DNS,
e) Process and thread monitoring and troubleshooting techniques (advanced usage of Process Explorer, Process Monitor, and other	Module 6: Storage Management	DHCP, SNMP, SMTP and other)
tools)	a) Securing and monitoring Files and Folders	e) Direct Access
Module 3: System Security Mechanisms	b) Protecting Shared Files and Folders by Using Shadow Copies	f) High Availability features: cluster improvements and SMB ?Scale – Out File Server)
a) Integrity Levelsb) Session Zero	c) Implementing Storage Spaces	g) Network Load Balancing
c) Privileges, permissions and rights	d) Implementing iSCSI	Module 10: Monitoring and Event Tracing
d) Passwords security (techniques for getting	e) Implementing FSRM, managing Quotas, File Screens, and Storage Reports	a) Windows Diagnostic Infrastructure
and cracking passwords) e) Registry Internals	f) Implementing Classification and File Management Tasks, Dynamic Access Control	b) Building auditing

		c) Expression-based audit policies
f) Monitoring Registry Activity	g) Configuring and troubleshooting Distributed File System	d) Logging Activity for Accounts and processes
g) Driver signing (Windows Driver Foundation)	Module 7: Startup and Shutdown	e) Auditing tools, techniques and
h) User Account Control Virtualization	a) Boot Process overview	improvements
i) System Accounts and their functions	b) BIOS Boot Sector and Bootmgr vs. the	f) Auditing removable storage devices
j) Boot configuration	UEFI Boot Process	Module 11: Points of Entry Analysis
k) Services architecture	c) Booting from iSCSI	a) Offline access
I) Access tokens	d) Smss, Csrss, and Wininit	b) Kali Linux /other tools vs. Windows
m) Biometric framework for user authentication	e) Last Known Good configuration	Security
Module 4: Debugging ; Auditing	f) Safe Mode capabilities	c) Unpatched Windows and assigned attacks
a) Available debuggers	g) Windows Recovery Environment (WinRE)	d) Domain Controller attacks
b) Working with symbols	h) Troubleshooting Boot and Startup Problems	e) Man-in-the Middle attacks
		f) Services security
c) Windows Global Flags	Module 8: Infrastructure Security Solutions	
d) Process debugging		

Extra informatie:

Loads of Knowledge

The course is an intense workshop! During these 4 days we recommend a good cup of coffee – this course is really intense and in order not to miss a thing you MUST stay awake! Exercises All exercises are based on Windows Server 2016 and 2019, Windows 10 and Kali Linux. This course is based on practical knowledge from tons of successful projects, many years of real world experience and no mercy for misconfigurations or insecure solutions! Remember that the hybrid identity lab environment will stay online for an extra three weeks so you may practice even more after the training is completed!

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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