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Masterclass: Windows Security and Infrastructure Management

Duration: 4 Days Course Code: WSI Delivery Method: Company Event

Overview:

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.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

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

Testing and Certification

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.

Content:

e) Kernel-mode debugging	a) Windows Server Core Improvements in Windows Server 2019
f) User-mode debugging	b) AppLocker implementation scenarios
g) Setting up kernel debugging with a virtual machine as the target	c) Advanced BitLocker implementation techniques (provisioning, Standard User
h) Debugging the boot process	Rights and Network Unlock?
i) Crash dump analysis	d) Advanced Security Configuration Wizard
j) Direct Kernel Object Manipulation	e) IPSec
k) Finding hidden processes	f) Advanced GPO Management
I) Rootkit Detection	g) Practicing Diagnostic and Recovery Toolkit
Module 5: Memory Analysis	h) Tools
a) Memory acquisition techniques	Module 9: Layered Network Services
b) Finding data and activities in memory	a) Network sniffing techniques
c) Step-by-step memory analysis techniques	b) Fingerprinting techniques
d) Tools and techniques to perform memory forensic	c) Enumeration techniques
Module 6: Storage Management	d) Networking Services Security (DNS, DHCP, SNMP, SMTP and other)
a) Securing and monitoring Files and Folders	e) Direct Access
b) Protecting Shared Files and Folders by	f) High Availability features: cluster improvements and SMB ?Scale – Out File
	Server)
	g) Network Load Balancing
	Module 10: Monitoring and Event Tracing
e) Implementing FSRM, managing Quotas, File Screens, and Storage Reports	a) Windows Diagnostic Infrastructure
f) Implementing Classification and File Management Tasks, Dynamic Access Control	b) Building auditing
	 f) User-mode debugging g) Setting up kernel debugging with a virtual machine as the target h) Debugging the boot process i) Crash dump analysis j) Direct Kernel Object Manipulation k) Finding hidden processes i) Rootkit Detection Module 5: Memory Analysis a) Memory acquisition techniques b) Finding data and activities in memory c) Step-by-step memory analysis techniques d) Tools and techniques to perform memory forensic Module 6: Storage Management a) Securing and monitoring Files and Folders b) Protecting Shared Files and Folders by Using Shadow Copies c) Implementing iSCSI e) Implementing FSRM, managing Quotas, File Screens, and Storage Reports f) Implementing Classification and File

		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	
h) User Account Control Virtualization	a) Boot Process overview	 e) Auditing tools, techniques and 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 Security
m) Biometric framework for user authentication	e) Last Known Good configuration	
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
	h) Troubleshooting Boot and Startup	e) Man-in-the Middle attacks
b) Working with symbols	Problems	f) Services security
c) Windows Global Flags	Module 8: Infrastructure Security Solutions	
d) Process debugging		

c) Expression based audit policies

Additional Information:

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!

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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