

Cybersecurity series

The Art of Hacking Bootcamp

This introductory/intermediate technical class brings together Infrastructure Security and Web Application Security into a 5-day "Art of Hacking" class designed to teach the fundamentals of hacking. This class teaches attendees a wealth of techniques to compromise the security of various operating systems, networking devices and web application components. The class starts from the very basic and builds up to the level where attendees can not only use the tools and techniques to hack various components involved in infrastructure and web hacking, but also gain solid understanding of the concepts on which these tools are based. This class combines a formal hacking methodology with a variety of tools to teach the core principles of ethical hacking.

Securing customer data is often crucial when deploying and managing web applications and network infrastructure. As such, IT administrators and web developers require security knowledge and awareness in order to secure their environment. Due to this requirement, operational staff often require hands-on training and experience to identify, control and prevent organisational threats.

CLASS NAME		The Art of Hacking Bootcamp			
•	CONTEXT	This hands-on training was written to address the market need around the world for a real hands- on, practical and hacking experience that focuses on what is really needed when conducting a penetration test. This class teaches attendees a wealth of techniques to compromise the security of various operating systems, networking devices and web application components. The class starts from the very basic and builds up to the level where attendees can not only use the tools and techniques to hack various components involved in infrastructure and web hacking, but also gain solid understanding of the concepts on which these tools are based. This class combines a formal hacking methodology with a variety of tools to teach the core principles of ethical hacking.			
		This class will teach students:			
		 Approaches attackers take when targeting organisations Conducting penetration testing engagements step by step and leveraging open source and publicly available tools to gain access to vulnerable systems Understanding how to exploit your own network before attackers do 			
► TARGET		 System Administrators who are interested in learning how to exploit Windows and Linux systems Web Developers who want to find and exploit common web application vulnerabilities Network Engineers who want to secure and defend their network infrastructure from malicious attacks Security enthusiasts new to the information security field who wants to learn the art of ethical hacking Security Consultants looking to relearn and refresh their foundational knowledge 			

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PREREQUISITES				
	Prerequisite knowledge	Prerequisite knowledge		
	 Basic familiarity with Windows and Linux systems e.g. how to view a system's IP address, installing software, file management Basic understanding of Network fundamentals e.g. IP addressing, knowledge of protocols such as ICMP, HTTP and DNS Basic understanding of HTTP fundamentals e.g. Structure of an HTTP request,HTTP method verbs, HTTP response codes The above requirements are not mandatory but are recommended due to the pace of the class. The Hacking 101 class by NotSoSecure can be undertaken as a prerequisite to this class. 			
	Hardware requirements			
	Students should bring their own laptop, and must have administrative access to perforr tasks such as software installations, disable antivirus etc. Devices that don't have an Ethernet connection (e.g. MacBook Air, tablets etc.) are not supported.			
	Software requirements			
	Windows 7 or 10 operating systems are recommended for the class. Students will be required to install OpenVPN client, an SSH client such as Putty and Mozilla Firefox. Installation instructions will also be provided on the first day of the class			
	On Completion of this class Attendees will be able to:			
GENERAL OBJECTIVES	Discover and fingerprint sy	stems and services available w		
GENERAL OBJECTIVES	 Discover and fingerprint sy Be able to discover and ex of well-known vulnerabilitie Conduct password brute for Hacking application server customer data Conduct client-side attacks 	stems and services available w ploit Windows and Linux opera s orce attacks to compromise ser s and Content Management sy s and execute code on a victim cation vulnerabilities and introd	ting systems through a variety vices and gain access to a hos estems to gain access to 's machine	
 GENERAL OBJECTIVES CLASS OUTLINE 	 Discover and fingerprint sy Be able to discover and ex of well-known vulnerabilitie Conduct password brute for Hacking application server customer data Conduct client-side attacks Identify common web appli 	stems and services available w ploit Windows and Linux opera s orce attacks to compromise ser s and Content Management sy s and execute code on a victim cation vulnerabilities and introd	ting systems through a variety vices and gain access to a hos rstems to gain access to 's machine duce security within their	
	 Discover and fingerprint sy Be able to discover and ex of well-known vulnerabilitie Conduct password brute for Hacking application server customer data Conduct client-side attacks Identify common web appli software development life- 	stems and services available w ploit Windows and Linux opera s orce attacks to compromise ser s and Content Management sy s and execute code on a victim cation vulnerabilities and introc cycle in a practical manner	ting systems through a variety vices and gain access to a hos estems to gain access to 's machine	
	 Discover and fingerprint sy Be able to discover and ex of well-known vulnerabilitie Conduct password brute for Hacking application server customer data Conduct client-side attacks Identify common web appli software development life- Module 1 TCP/IP Basics The Art of Port Scanning Target Enumeration Brute-Forcing 	stems and services available w ploit Windows and Linux opera s orce attacks to compromise ser s and Content Management sy s and execute code on a victim cation vulnerabilities and introd cycle in a practical manner Module 2 • Password Cracking • Hacking Unix systems • Hacking Application Servers on Unix • Hacking Third Party	ting systems through a variety vices and gain access to a hos stems to gain access to 's machine duce security within their Module 3 • Windows Enumeration • Client-Side Attacks • Hacking Application Servers on Windows • Post Exploitation • Hacking Windows	

MATERIALS

Students will receive:

- A PDF copy of all class materials used during the class including instructor slide deck, tool cheat sheets and walkthrough guides
- Access to NotSoSecure's Art of Hacking lab for 30 days after class completion

