

NCC 210: Fundamentals of Information Security

Lab #	Lab Name
1	Securing the pfSense Firewall
2	Implementing NAT and Allowing Remote Access
3	Implementing Common Protocols and Services
4	Examining Wireless Networks
5	Implementing Security Policies on Windows and Linux
6	Data Backups in Windows, BSD, and Linux
7	Incident Response Procedures, Forensics, and Forensic Analysis
8	Crafting and Deploying Malware
9	Social Engineering
10	Exploiting Wireless Security
11	Deep Dive in Packet Analysis - Using Wireshark and Network Miner
12	Vulnerability Scanners and Penetration Testing
13	Patching, Securing Systems, and Configuring Anti-Virus
14	Using Active Directory in the Enterprise
15	Securing Data Using Encryption

NCC 214: Ethical Hacking & Systems Defense

Lab #	Lab Name
1	Performing Reconnaissance from the WAN
2	Scanning the Network on the LAN
3	Enumeration Hosts using Wireshark, Windows, and Linux Commands
4	Remote and Local Exploitation
5	Using the Dark Comet Remote Access Trojan (RAT)
6	Capturing and Analyzing Network Traffic Using a Sniffer
7	Using SET (Social Engineering Toolkit)
8	Performing a Denial of Service Attack from the WAN
9	Using Browser Exploitation to Take Over a Host's Computer
10	Attacking Webservers from the WAN
11	Exploiting a Vulnerable Web Application
12	Performing SQL Injection to Manipulate Tables in a Database
13	Breaking WEP and WPA and Decrypting the Traffic
14	Attacking the Firewall and Stealing Data over an Encrypted Channel
15	Using Public Key Encryption to Secure Messages

NCC 200: Networking Fundamentals

Lab #	Lab Name
1	Configuring Port Redirection
2	Implementing NAT and Allowing Remote Access
3	IPv4 vs IPv6 – Calculating, Configuring and Testing
4	Network Management

5	Business Continuity - Disaster Recovery
6	Exploiting Wireless Security
7	Closing Ports and Unnecessary Services
8	Implementing Security Policies on Windows and Linux
9	Network Security - Firewalls
10	Network Troubleshooting
11	TCP/IP Utilities
12	The OSI Model
13	TCP/IP Protocols - The Core Protocols
14	TCP/IP Protocols - Other Key Protocols
15	Types of Networks
16	Remote Access - RDP

NCC 215: Digital Forensics

Lab #	Lab Name
1	Introduction to File Systems
2	Common Locations of Windows Artifacts
3	Hashing Data Sets
4	Drive Letter Assignments in Linux
5	The Imaging Process
6	Introduction to Single Purpose Forensic Tools
7	Introduction to Autopsy Forensic Browser
8	The FAT File System
9	The NTFS File System
10	Browser Artifact Analysis
11	Communication Artifacts
12	User Profiles and the Windows Registry
13	Log Analysis
14	Memory Analysis
15	Forensic Case Capstone

NCC 204: Linux Server I: Linux Fundamentals

Lab #	Lab Name
1	CentOS Server Linux Installation
2	Ubuntu Desktop Linux Installation
3	Installing Packages and Shared Libraries on Fedora and Ubuntu
4	Displaying Hardware
5	Adding a New Partition
6	Managing Filesystem Quotas
7	Bootting and Restarting the System
8	Using the BASH Shell - 1
9	Using the BASH Shell - 2

10	Using the BASH Shell - 3
11	Using the BASH Shell - 4
12	Monitoring Processes
13	Working with Files
14	Managing Text Files - 1
15	Managing Text Files - 2
16	Managing Text Files - 3

NCC 205: Linux Server II: System Administration

Lab #	Lab Name
1	Configuring X Windows in CentOS and Fedora Desktop
2	Accessibility Technologies
3	User and Group Accounts
4	System Administration Tasks - 1
5	System Administration Tasks - 2
6	System Administration Tasks - 3
7	crontab and at
8	Configuring Locale and Time Zone Settings
9	Working with Email - 1
10	Working with Email - 2
11	Basic Network Configuration
12	Basic Security Administration
13	Securing Data with Encryption
14	Host Security
15	BASH shell features
16	BASH Scripting
17	Working with a SQL Database

NCC 212: Scripting Fundamentals

Lab #	Lab Name
1	Advanced Data Structure Usage
2	File I/O, String Parsing and Data Structures
3	Tuples(Arrays), Error handling and Secure Programming
4	Loops
5	Math in Python
6	Getting Started with Python on Ubuntu - Running from the Command Line
7	Introduction to Control Structures and Data Types
8	Getting Started with Python on Ubuntu - Writing Your First Program
9	Verifying a File Type with its Extention
10	Creating a Ping Scanner
11	Data Visualization
12	Pattern Matching

13	Extracting and Cleaning Data Using Python
14	Analysis with Kmeans
15	Inheritance

NCC 220: Network Security Fundamentals	
Lab #	Lab Name
1	Configuring a Windows based Firewall to Allow Incoming Traffic
2	Configuring a Linux based Firewall to Allow Incoming and Outgoing Traffic
3	Implementing Secure DHCP and DNS
4	Configuring a Linux based Firewall to Allow Outgoing Traffic
5	Configuring Access Control Lists on a Linux Based Firewall
6	Configuring a Virtual Private Network with PPTP
7	Configuring a Virtual Private Network with OpenVPN
8	Implementing RIP, RIPv2, and Securing RIP
9	Intrusion Detection using Snort
10	Writing Custom Rules
11	Host Based Firewalls
12	Configuring RADIUS
13	Domain Security
14	Configuring a Site to Branch a Virtual Private Network
15	Closing Security Holes

Capstone Labs	
Lab #	Lab Name
1	Provisioning a Web Server
2	Provisioning a MySQL Database
3	Provisioning PHP
4	SQL Injections (SQLi)
5	HTML Injections (HTMLi)
6	Reflected XSS
7	PHP Sessions and Cookies
8	Session Stealing (Remote Reflected XSS)
9	Vulnerable Forum
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