

Cyber Security Professionals

Cyber Security courses aims to equip students with the knowledge and skills required to defend the computer operating systems, networks and data from cyber-attacks.

Cyber Security as a profession is evolving over the years, reason being the increasing rate of cyber-crimes. Any industry that transacts online or carries sensitive data is in need of a Cyber Security professional to safeguard its date from such delinquents. Cyberspace being a common platform which is accessed anyone from every corner of the world, the scope of cybersecurity is equally spread across the globe.



Other Courses offered by Network Rhinos

Module 1: Security Risk Assessment (Ethical Hacking)

Introduction to Ethical Hacking

What is Hacking
What is Ethical Hacking
What is Penetration Testing
What is Vulnerability Auditing

Footprinting

What is FootPrinting
Footprinting Techniques
Footprinting Website & Tools

Scanning

What is Network scanning
Types of Scanners

Vulnerability Scanner Tools

Proxy

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ORK RHINOS

What is a proxy server
Types of proxies
What is a Darkweb
Why hackers prefer to use Darkweb

Hacking Web Servers & Web Applications

What is a web server Types of web attacks

Session Hijacking

What is session hijacking Session hijacking Techniques Session hijacking Tools

Denial of Service

What is a DoS and DDoS attack
DoS attack techniques
DoS attack Tools

System Hacking

What is System Hacking
What is Password Cracking
Password Cracking techniques
Password Cracking Website & Tools

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Sniffers

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What is a sniffer Sniffing Techniques Sniffing Tools

Phishing

What is Phishing Phishing Techniques Phishing Tools

Malware

What is malware

Types of malware Malware creation Tools USB password stealers

Wireless Hacking

Types of wireless networks Wireless Hacking Techniques Wireless Hacking Tools

Kali Linux

What is Kali Linux Kali Linux Tools

Module 2 Web Application Penetration Testing

Introduction to Pen testing

WAPT Methodology
Phases of Pen Testing
WAPT Standards
OWASP
SANS
WASC

Introduction to Web Applications

Working of web applications

HTT Protocol

HTTP Request

HTTP Response

HTTP Methods

HTP Status Codes

Client Server Communication

HTTP Security (HTTPS)

Web servers

Application servers

Burp Suite

Introduction to Burp Suite

Lab Setup

Working of proxy in Burp Suite

Working of Intruder in Burp suite

Working of Repeater in Burp Suite

Different Attack Types(sniper, Battering Ram, Pitch Fork and cluster bomb)

Encoders

Extender

Engagement Tools

SQL Injection

Introduction to SQL

SQL Map

Practical POC

Authentication Bypass WORK RHINOS

Practical POC

Blind SQL Injection

Network Experts Practical POC 1 2

Time Based SQL Injection

Practical POC

SQL Injection in Burp Suite

Practical POC

Authentication Bypass in Burp Suite

Practical POC

Challenges: Authentication Bypass

HTML Injection

Introduction to HTML

HTML Tags

Working of Iframe

Types of HTML Injections

Stored HTML Injection

Practical POC

Reflected HTML Injection

Practical POC

Iframe injection

Practical POC

Click Jacking

Practical POC

Command Injection

Introduction to Command Injection

Command injection on DVWA

Practical POC

Broken Authentication and Session Management

Introduction to Session id's

Cookies

Browser Storage Mediums

Local Storage and Session storage

HTTP only Flag

Secure Flag

Broken Authentication

Session Hijacking

Practical Poche Network Experts

WORK RHINOS

Session Replay

Practical POC

Session Fixation

Practical POC

Browser cache weakness

Practical POC

Testing for Account Lock out policy and strong password policies

Practical POC

XSS Cross Site Scripting

Introduction to XSS

Introduction to Java Script

Types of XSS

Stored XSS

Practical POC

Reflected XSS

Practical POC

DOM based XSS

Practical POC

Payload Writing

IDOR – Insecure Direct Object Reference

Introduction to IDOR Vulnerabilities

Web root Directories

Directory Traversal

Practical POC

File Upload Vulnerability

Practical POC

Introduction to Netcat

Working of Netcat

File Inclusions

Practical POC

Security Misconfiguration

Introduction to Security Misconfiguration R H 105

Directory Listing

Dirbuster The Network Experts

Practical POC

Sensitive Information Disclosure through error messages

Practical POC

Unwanted Services running on the server

Nmap scanning

Practical POC

Sensitive Data Exposure

Introduction to sensitive data Exposure

Qualys SSL Labs

Heart beat request

Heart bleed Vulnerability

Poodle attack

HTTP Arbitrary Methods

Practical POC

Missing Function Level Access Control

Introduction to Missing function Level Access Control Authorization checks Practical POC

CSRF – Cross Site Request Forgery

Introduction to CSRF CSRF Vulnerability Anti CSRF tokens JTokens Same Origin Policy Practical POC 1 Practical POC 2

Using components with known Vulnerabilities

Introduction to using components with known vulnerabilities

Wappalyzer

Practical POC he Network Experts

Practical POC 2

Unvalidated Redirects and Forwards

Introduction to Unvalidated Redirects and Forwards Host Header Injection Practical POC Cross Origin Resource sharing Vulnerability Practical POC

Remote File Inclusions

Introduction to Remote File Inclusions RFI Attacks Practical POC

XML Injections

Introduction to XML XML Injections Practical POC

Security Headers

Strict-Transport-Security
Content-Security-Policy
X-Frame-Options
X-Content-Type-Options
Referrer-Policy
Feature-Policy

Vulnerability Analysis

Introduction to CVSS Scoring
CVSS Calculation
Risk Rating
Severity level analysis Network Experts
Color coding

Vulnerability Scanners

Demo: Nessus

Demo: Burp Suite Professional

Demo: OWASP ZAP

Demo: Qualys SSL Scanner Demo: SQL Map Tool

Mitigations

SQL Injection Mitigations Stored Procedure Parameterized procedure Input Validation

Mitigations to HTML Injection

Mitigations to XSS

Mitigations to Directory Traversal

Mitigations to File Upload Vulnerability

Mitigations to File Inclusion

Mitigation to security Misconfiguration

Mitigation to Sensitive Data Exposure

Mitigations to Host Header Injection

Mitigations to CROS

Mitigations to RFI

Mitigations to XML Injection

Report Writing

Detailed Reporting of Vulnerabilities with Risk Rating

Findings

Mitigations

Steps to Reproduce

Support Evidence

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