

## About Course

This course is a foundational training to Intect's line of penetration testing courses.

It teaches you to think like a hacker. You will learn the value of vulnerability assessments, how malwares and viruses work, how an attacker attacks and most importantly how to implement counter response and preventative measures when it comes to a network or an application hack.

This course ensures rock solid foundations of Information Security & terminologies used in the industry.

## Learning Outcomes

- Lay the foundation to attack like an adversary
- Learn Linux & Windows basics from Cybersecurity point of view
- Learn to implement & avoid social engineering attacks, Virus, Malwares and Ransomware
- The ability to secure and protect any network from hackers and loss of data



# Let's Get Started

SHALL WE?



# About Us

Intect ( a unit of Hion Security Private Limited) is a business consulting firm specialising in building and transforming cybersecurity postures to enable business and mitigate risks.

Our focus is on strengthening security resilience by reducing the likelihood of attacks, threats, and accidents, in order to advance change, innovate, and accelerate growth the way a business wants.



# WHY TRAIN WITH US

## SECURITY IN OUR DNA

We have been serving top organisations in India, US, Middle East for their cybersecurity needs. Tapping such a market with ever growing risks is only possible when the R&D behind our services is well built. You'll get a chance to experience what we deliver and how we deliver so that you know what's expected of you when you enter this market.

## WALK THE TALK

You'll be trained by experts who are actively working with us as security consultants and delivering top-notch services to our clients. No trainer is hired especially to deliver this training. What we are at our core, is what we want to deliver to our trainees.

## GUEST LECTURES

Being in the industry for so long, we are fortunate enough to build such a huge network of professionals who are champions in what they do! We'll bring them onboard for guest lectures so that you directly hear from horse's mouth.

## BE OUR GUEST

After finishing up with the course, you'll get a chance to join us an intern for 3-6 months, learn and work with us on industry projects.

## *Introduction to Hacking & Cybersecurity*

- Definition of Information & Data
- Why to Secure?
- What are Threats?
- Difference b/w Cybersecurity & Information Security
- Three Principles of Cybersecurity
- What is Security Breach?
- Risk & Risk Management
- Hacking & a Hacker
- Types of Hacker
- Basic Terminology in Cybersecurity
- Definition of Countermeasures
- Top 5 Hollywood movies to watch if you love hacking

## *Legalisation & Cyber Laws*

- IT Act 2000
- Original Act
- Major Amendment
- Revised Act
- Ethics & Legal Issues
- Responsibilities of Knowledge & Power
- Ethical Disclosure

## *Internet & Internet Censorship*

- How Internet Works
- What is Internet Censorship
- How do Different Countries Censor the Internet (India, China, South Korea)

## *Basics of Web & Computer Networking*

- Networking
- Types of Networking & Switching
- How the Web Works?
- How a Web Browser Builds & Displays Pages?
- Networking Topologies
- OSI Model
- Transport & Internet Protocol
- Concept of IP
- Common Ports & Port Numbers
- SSL Handshake
- Routers and Routing Protocols
- Application Protocols

## *Deep & Dark Web*

- Introduction to Deep and Dark Web
- Difference between Deep, Dark & Surface Web
- History of Deep Web
- Common Myths
- TOR Browser
- Introduction to Cryptocurrency
- Deep Web Links
- Dark Net Markets
- Exploring the Markets

## *Introduction to Malwares & Different Types of Cyber Attack*

- What is Malware
- Viruses v/s Worms
- Lifecycle of a Virus
- Polymorphic Virus
- Trojan
- Keyloggers
- Backdoor
- Ransomware & Spyware
- Rootkits
- Bot & Botnets

### *Introduction to Digital Wallets, Going Cashless, Cryptocurrency*

- Introduction to Digital Payments & Wallets, Payment Gateways, etc
- UPI & How it Works
- Risks of Being Cashless
- UPI Frauds
- Cryptocurrency

### *Introduction to Cloud Computing*

- Traditional Architecture
- What is Cloud Computing
- Cloud service models - IaaS, PaaS, SaaS
- Benefits of cloud over traditional deployment - Rapid Elasticity, Resource
- Pooling, Broad Network Access

### *Introduction to Cloud Computing*

- Confidentiality
- Integrity
- Availability

### *Some Basics of Linux*

- Linux Architecture
- Linux File Types
- Linux File Hierarchy
- Getting Help
- Working with Directories
- Working with Files
- Working with File contentC
- Filters & Searching Files

### *Reconnaissance - Surveying the Attack Surface*

- Recon Types & Goals
- Active & Passive Recon
- Google Dorks
- Scanning & Enumeration
- Shodan
- Identifying Active Hosts
- Identifying Active Service
- Demo : Maltego, Harvester, Recon -  
ng
- OS & Server Fingerprinting
- Demo Nmap & Masscan

### *Introduction to Web Security*

- Introduction to Web Hacking
- Web Security Architecture -  
Firewalls, DMZ, etc
- Introduction to OWASP
- Introduction to OWASP Top 10
- Basics of Attacking the Web Server
- Basics of Attacking the Platform
- Basics of Attacking the Technology
- Tools and Methodology
- Introduction to SQL Injection
- Different Types of SQL Injection
- Introduction to Exploit DB

### *Damn Vulnerable Apps*

- Installing Multidilae, OWASP ZAP,  
DVWA
- Demo: SQL Injection
- Demo: SQLMap
- Demo: Authentication Bypass
- Demo: IDOR
- Demo: Command Injection
- Demo: XSS
- Demo: Burp Automated Scanner
- Demo: OWASP Top 10

### *How to Stay Safe & Vigilant*

- Browser Safety Threats
- Email
- Online Ticket Booking
- Online Banking
- Social media like Facebook, Whatsapp
- How to Lockdown Your Facebook Privacy
- Digital Wallets
- Online Games
- Mobile Safety
- Parenting in Digital Age
- Cyber Bullying/Cyber Harassment
- Other Cybersecurity Hygiene

### *How to Know if You Have Been Hacked?*

- Have I Been Pwned
- GhostProject
- SpyCloud

### *Bonus Content*

- Resources and Tools
- Sweet Little Hacks
- Parting Words

### **THIS COURSE INCLUDES**

- 30 hours of live sessions
- Certificate of Completion
- Downloadable Resources
- Access to our cybersecurity community
- Q & A
- Career Guidance

Visit us:

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