



SIMPLIFYING  
TECHNOLOGY

# Cryptch

Making you ready  
for the Technology  
Driven World.



- HARDWARE
- NETWORKING
- ETHICAL HACKING
- CCNA & CCNP
- CLOUD
- IOT

Visit us at [www.cryptch.tech](http://www.cryptch.tech)

# Office & Contact details



## REGISTERED OFFICE

335, Rudraksh Park Society  
Near Rani Durgawati School  
Ganga Nagar, Jabalpur,  
Madhya Pradesh 482001



## CORPORATE OFFICE

120, South Civil Lines, Jabalpur,  
Madhya Pradesh 482003



## PHONE

+91 91710 30453  
+91 94243 27922



## EMAIL

info@cryptch.tech



## WEBSITE

[www.cryptch.tech](http://www.cryptch.tech)



# Our Aim

"WE SEE YOUR SUCCESS AS OUR SUCCESS."

With professional trainers and Practical based learning we focus on present & shoot for the future.

Making you ready for future technology & challenges waiting in your path of Success.

The need of 21st Century are Skilled People, Play your part in Development of our Nation, become a Certified IT Professional, today.

The future is waiting for you make a move now, get ready for the future. Don't wait for others, find your own way & create your own Destiny.

Join Cryptch & kick-start your career in IT industry.



# *A word from our Founder & CEO*

In 21st Century, technology is everywhere.

People like you and me- are making it, maintaining it & upgrading it for our day to day usage.

*"Technology is much less frustrating when you understand it."*

We aim to provide, 'Quality' & 'Updated' education to everyone at an Affordable rate and make technology easier to understand.

At Cryptch, our focus is to guide students to a better future and make them self-reliant so that, they can become whatever they dream of. It may be An Entrepreneur or to reach their dream Job.

It's clear, those who have tech skills are much more adaptable to learning.

Thank you for choosing us. I hope you have a happy journey ahead in technical field. Wishing you all a lot of success ahead.



## Mr. Anand Sharma

- 11+ YEARS OF EXPERIENCE IN IT INDUSTRY
- COMPTIA N+
- CISCO CERTIFIED NETWORK ASSOCIATE
- CISCO CERTIFIED NETWORK PROFESSIONAL
- RED HAT CERTIFIED SYSTEM ADMINISTRATOR
- MICROSOFT CERTIFIED PROFESSIONAL
- CERTIFIED ETHICAL HACKER
- MANAGED MULTIPLE AMC'S

# Why Cryptch

01

## IT Experience

Teaching is not new to us. We have Experienced & Certified Trainers. They make technology - easy to understand.



## Education Quality

We offer Robust Educational model & latest course-ware at affordable price. P.S. Without compromising with quality.

03



## Upskill

05

Even if you have a few skills; you can always up-skill yourself .



CONTACT US



02

## Talent acquisition

"A diamond's worth can only be identified by a Jeweler." We are dedicated to find the hidden potential.



04

## Certification

We act as gateway between you and Global Certifications.



06

## Focus

We aim to provide Focused and Practical Education.



Still have Doubts?  
Contact us



EVEN  
PANDEMIC  
COULDN'T  
STOP US

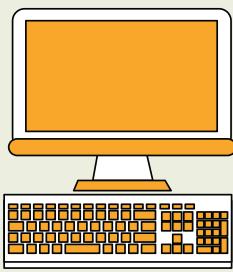
# We also provide Services



## HARDWARE UPGRADATION

**02**

Without any worries get the best hardware for your computer at cheap price.



## TROUBLESHOOTING

**04**

One of essential service in Computer field. Our engineers will make sure that any issue never troubles you again.



## 01 ANNUAL MAINTENANCE CONTRACT



Find instant and cheap solutions to computer emergencies like hard drive crashes, viruses, monitor on the blink, power fluctuations, and lots more.

## 03 NETWORKING



We do all level of networking may it be routing, switching or just structured cabling.

## 05 AUTOMATION



We also provide automation solution To minimize the work load.

We aim to provide the best in class services in affordable rates, without compromising with quality.

Leave all your computer problems to us without any worries.

Last but not the least, some details about

# OUR ANNUAL MAINTENANCE CONTRACT

Annual Maintenance Contract or AMC provides security for all IT services and computer equipment like a printer, desktop, etc. AMC is an agreement between a firm, who provide maintenance and a consumer who has purchased a service.

## 01 Save money

Save money & make budgeting easier. Pay once and get Unlimited service



## 03 Services

We focus of providing  
• uninterrupted service including Hardware and Software.



## 05 Emergency

We are always there to help you and provide emergency support.



## 07 No worries

We've got you covered . Focus on what is important to you and your team.

## 02 EXPERT SERVICE

You get expert and professional technicians without spending lots of money.



## 04 INCREASE UPTIME

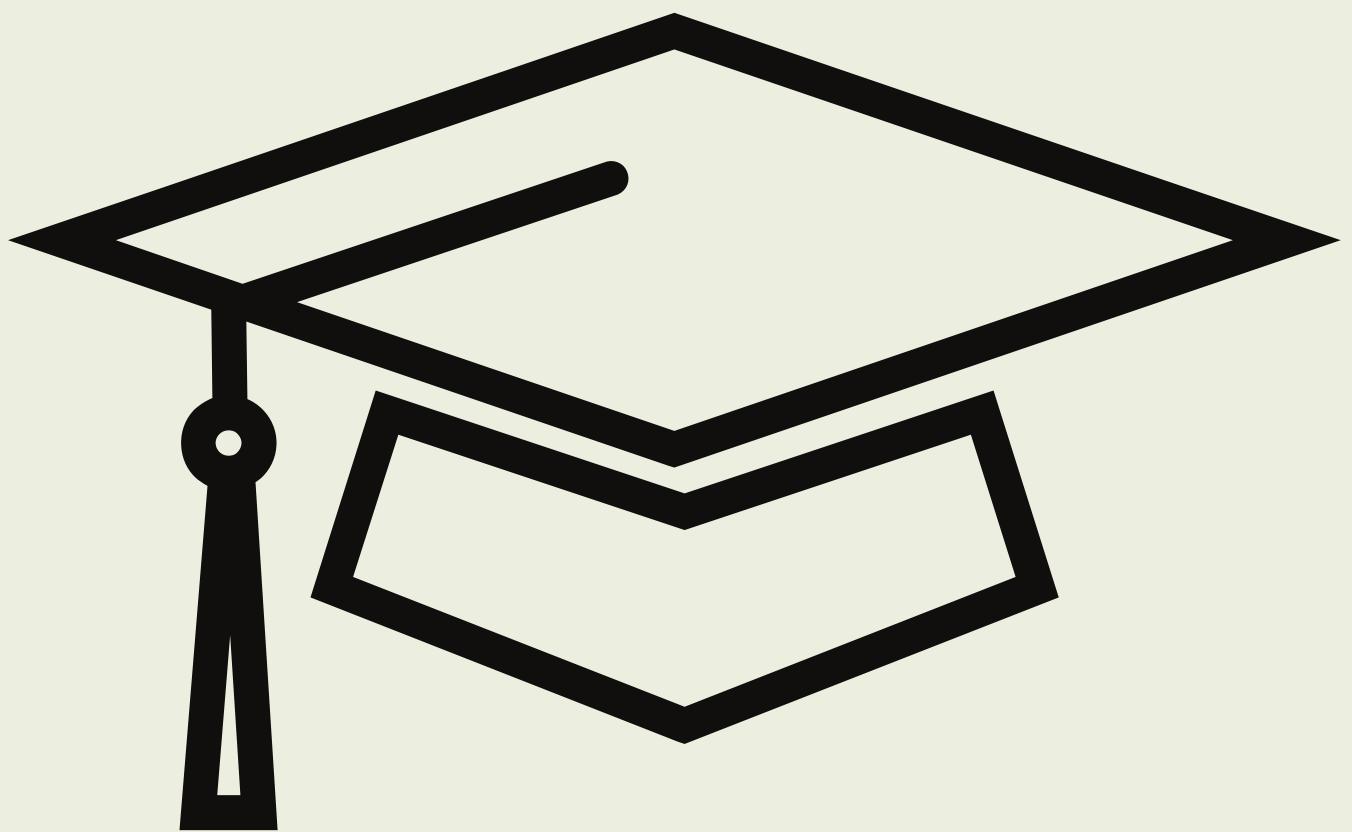
Focus on Other Things and Leave Maintenance to the Pros.

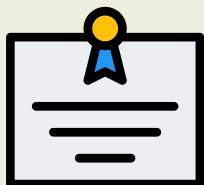


## 06 REPORTS

Get Quarterly report & improve productivity.







Cryptch



# CERTIFIED ETHICAL HACKER



# What Is Ethical Hacking ?

Hacking is the process of finding vulnerabilities in a system and using these found vulnerabilities to gain unauthorized access into the system to perform malicious activities ranging from deleting system files to stealing sensitive information.

Hacking is illegal and can lead to extreme consequences if you are caught in the act. People have been sentenced to years of imprisonment because of hacking.



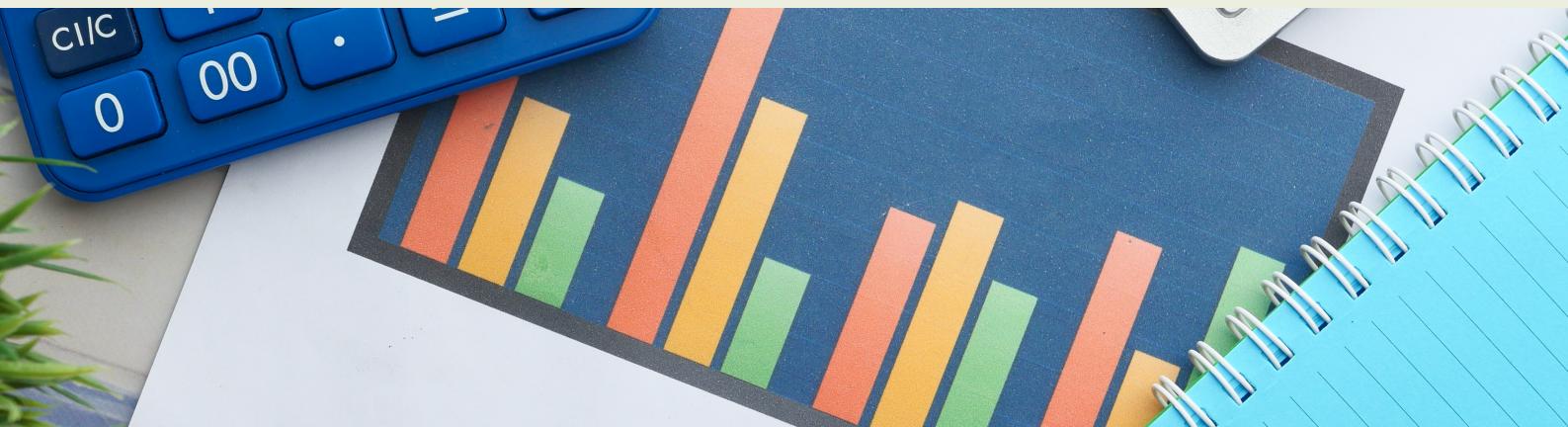
“To beat a hacker, you have to think like one”

- Ethical Hacking Council

.....

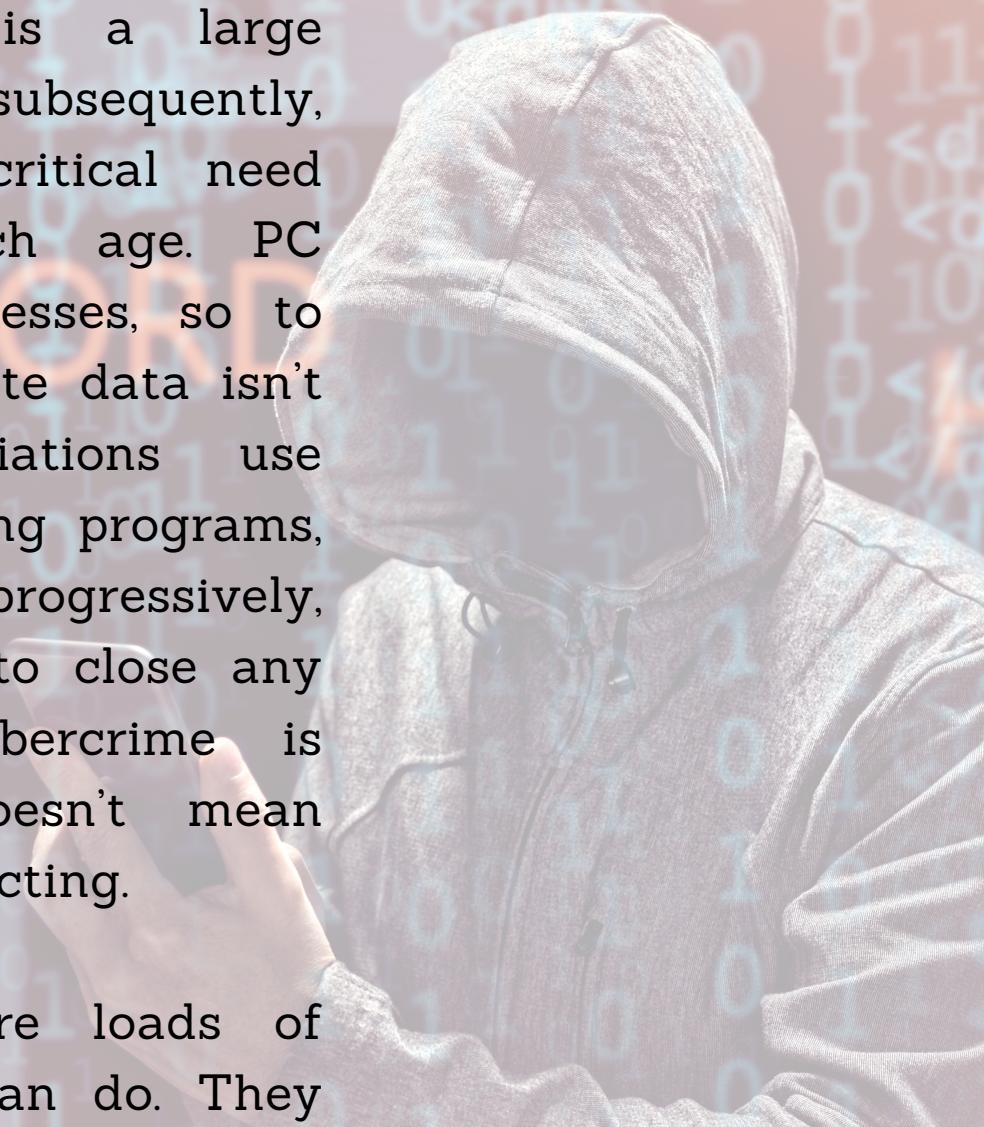
## How much money does an ethical hacker make?

Certified ethical hackers make an average annual income of \$80,074, according to Payscale. The average starting salary for a certified ethical hacker is \$95,000, according to EC-Council senior director Steven Graham. The founder of NoWiresSecurity, Eric Geier, estimates a more conservative \$50,000 to \$100,000 per year in the first years of work depending on your employer, experience and education. Those with a few years of experience can pull \$120,000 and upwards per year, particularly those who work as independent consultants.



Hacking is a colossal worry in cybersecurity. It exploits weaknesses in PC frameworks to give delicate data to inappropriate people or associations. This security weakness is a large business, and subsequently, cybersecurity is a critical need going into the tech age. PC systems have weaknesses, so to guarantee that delicate data isn't compromised, associations use safety efforts including programs, prepared people, and, progressively, AI-driven strategies to close any escape clauses. Cybercrime is rising, yet that doesn't mean associations aren't reacting.

Fortunately there are loads of things associations can do. They can help ensure working frameworks by avoiding the cybersecurity issues beforehand. Ethical Hacker attempts to break into frameworks to uncover likely weaknesses. Cyber security can assist you with planning for a period of tech with fraud and cyberattacks.



# SYLLABUS

## I. INTRODUCTION TO ETHICAL HACKING

- |   |   |
|---|---|
| <i>What is Hacking</i>                  | <i>The CIA Triangle</i>                   |
| <i>Who is a Hacker</i>                  | <i>What is Ethical Hacking</i>            |
| <i>Skills of a Hacker</i>               | <i>Why Ethical Hacking is Necessary</i>   |
| <i>Types of Hackers</i>                 | <i>Scope &amp; Limitations of Hacking</i> |
| <i>Network Security Challenges</i>      | <i>What is Penetration Testing</i>        |
| <i>Elements of Information Security</i> | <i>What is Vulnerability Auditing</i>     |

## 2. FOOT PRINTING

- |   |   |
|---|---|
| <i>What is Footprinting</i>                           | <i>Finding a company's Server details</i> |
| <i>Objectives of Footprinting</i>                     | <i>Finding the DNS information</i>        |
| <i>Finding a company's details</i>                    | <i>Finding the services on the server</i> |
| <i>Finding a company's Internal URL</i>               | <i>Finding the location of servers</i>    |
| <i>Finding a company's Public and Restricted URLs</i> | <i>Traceroute analysis</i>                |
|   | <i>Tracking email communications</i>      |

## 3. SCANNING

- |  |  |
|--|--|
| <i>What is network scanning</i>            | <i>Vulnerability Scanner tools</i>         |
| <i>Objectives of network scanning</i>      | <i>Finding details about vulnerability</i> |
| <i>Finding the live hosts in a network</i> | <i>What is a proxy server</i>              |
| <i>SNMP Enumeration</i>                    | <i>How does proxy server work</i>          |
| <i>SMTP Enumeration</i>                    | <i>Types of proxy servers</i>              |
| <i>DNS Enumeration</i>                     | <i>How to find proxy servers</i>           |
| <i>Finding open ports on a server</i>      | <i>Why do hackers use proxy servers</i>    |
| <i>Finding the services on a server</i>    | <i>What is a TOR network</i>               |
| <i>What is a Vulnerability Scanning</i>    | <i>Why hackers prefer to use TOR</i>       |

# SYLLABUS

## 4. HACKING WEB SERVERS & WEB APPLICATIONS

*What is a web server*

*Website defacement*

*Different web server applications*

*Website password brute forcing*

*Directory traversal attacks*

*How to defend against web hacking*

## 5. SESSION HIJACKING

*What is session hijacking*

*Cross-Site scripting attack*

*Dangers of session hijacking attacks*

*Session hijacking tools*

*Session hijacking techniques*

*How to defend against session hijacking*

## 4. SQL INJECTION

*What is SQL Injection*

*Types of SQL Injection attacks*

*Effects of SQL Injection attacks*

*SQL Injection detection tools*

## 5. EVADING FIREWALLS, IDS & HONEYPOTS

*What is a Firewall*

*What is a honeypot*

*What are the functions of a Firewall*

*Types of honeypots*

*What is an IDS*

*Honeypot tools*

*How does an IDS work*

*Honeypot detection tools*

## 6. BUFFER OVERFLOW

*What is a buffer*

*Simple buffer overflow in C*

*Understanding usage of buffers in applications*

*programming*

*What is buffer overflow*

*How to detect a buffer overflow*

*How to defend against buffer overflow attacks*

## 7. DENIAL OF SERVICE

*What is a DoS attack*

*DoS attack techniques*

*What is a DDoS attack*

*What is a Botnet*

*Symptoms of a Dos attack*

*Defending DoS attacks*

# SYLLABUS

## 8. CRYPTOGRAPHY

*What is Cryptography*  
*Types of cryptography*  
*Cipher algorithms*

*Public key infrastructure*  
*What is a Hash*  
*Cryptography attacks*

## 9. SYSTEM HACKING

*Goals of System Hacking*  
*Password Cracking*  
*Password complexity*  
*Finding the default passwords*

*Password cracking methods*  
*Brute force cracking*  
*Dictionary based cracking*  
*Hybrid attack*

## 10. SNIFFING

*What is a sniffer*  
*How sniffer works*  
*Types of sniffing*  
*What is promiscuous mode*  
*What is ARP*  
*ARP poison attack*

*Threats of ARP poison attack*  
*How MAC spoofing works*  
*MAC Flooding*  
*What is a CAM Table*  
*How to defend against Sniffing & Spoofing attacks*

## 11. PHISHING

*What is Phishing*  
*How Phishing website is hosted*  
*How victims are tricked to access Phishing websites*

*How to differentiate a Phishing webpage from the original webpage*  
*How to defend against Phishing attacks*

## 12. MALWARE

*What is malware*  
*Types of malware*  
*Virus*

*Worm*  
*Trojans*  
*Spyware*

# SYLLABUS

## 13. KALI LINUX

*What is Kali Linux  
How Kali Linux is different  
What are the uses of Kali Linux  
Tools for Footprinting, Scanning & Sniffing*

*What is Metasploit framework  
Using Metasploit framework to attack Windows machines & Android devices*

## 14. WIRELESS HACKING

*Types of wireless networks  
Wi-Fi usage statistics  
Finding a Wi-Fi network  
Types of Wi-Fi authentications  
Types of Wi-Fi encryption method  
How does WEP work  
Weakness of WEP encryption  
How does WPA work*

*How does WPA2 work  
Hardware and software required to crack Wi-Fi networks  
How to crack WEP encryption  
How to crack WPA encryption  
How to crack WPA2 encryption  
How to defend against Wi-Fi cracking attacks*

## 15. PENETRATION TESTING

*What is Penetration Testing  
Types of Penetration Testing  
What is to be tested  
Testing the network devices for mis-configuration*

*Testing the servers and hosting applications for vulnerabilities  
Testing wireless networks  
Testing for Denial of Service attacks*

## 16. COUNTERMEASURE TECHNIQUES

*Packet Filtering Firewall  
Circuit-Level Gateway Firewall  
Application-Level Firewall*

*Stateful Multilayer Inspection Firewall  
Limitations of a Firewall*

# SYLLABUS

## 17. IDS / IPS

*What is an IDS*

*What is a IPS*

*Difference between IDS & IPS*

*Placement of IDS in the Network*

*Configuring an IDS in the Network*

*Placement of IPS in the Network*

*Configuring an IPS in the Network*

## 18. UTM / NEXT-GENERATION FIREWALL

*What is a UTM*

*Features of UTM Difference  
between a Firewall & a UTM*

*Placement of UTM in the  
Network*

*Configuring a UTM in the Network*

*Monitoring attacks using UTM*

*Configuring IPS module in UTM to  
detect and stop attacks*

## 19. COUNTERMEASURE TECHNIQUES

*Scanning systems for Malware  
infections*

*Types of anti-malwares*

*Anti-Virus*

*Anti-Worm*

*Anti-Trojan*

*Anti-Rootkit*

*Internet Security Suites*

*HIDS*

*HIPS*

## 20. COUNTERMEASURE TECHNIQUES

*Identifying the Vulnerabilities of  
a system*

*Understanding the Vulnerabilities  
of a system*

*Patch Management*

*Finding the missing updates in an*

*Operating System*

# Other Courses we offer

- Computer Networking
- Windows Operating System
- Computer Hardware
- AWS Cloud
- CCNA
- CCNP
- Ethical Hacking
- edhat Certified Solutions Associate
- Microsoft Azure Administrtror
- Microsoft Certified Solution Associate
- Automation with Python & Powershell

and much more



## **REGISTERED OFFICE**

335, Rudraksh Park Society  
Near Rani Durgawati School  
Ganga Nagar, Jabalpur,  
Madhya Pradesh 482001

## **PHONE**

+91 91710 30453  
+91 94243 27922

## **CORPORATE OFFICE**

120, South Civil Lines, Jabalpur,  
Madhya Pradesh 482003

## **EMAIL**

info@cryptch.tech

## **WEBSITE**

www.cryptch.tech