Becoming a Ethical Hacker for $0

Become a Ethical Hacker - https://youtu.be/u4VWQZ8KLmI **(@thecybermentor)**

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Becoming a Ethical Hacker

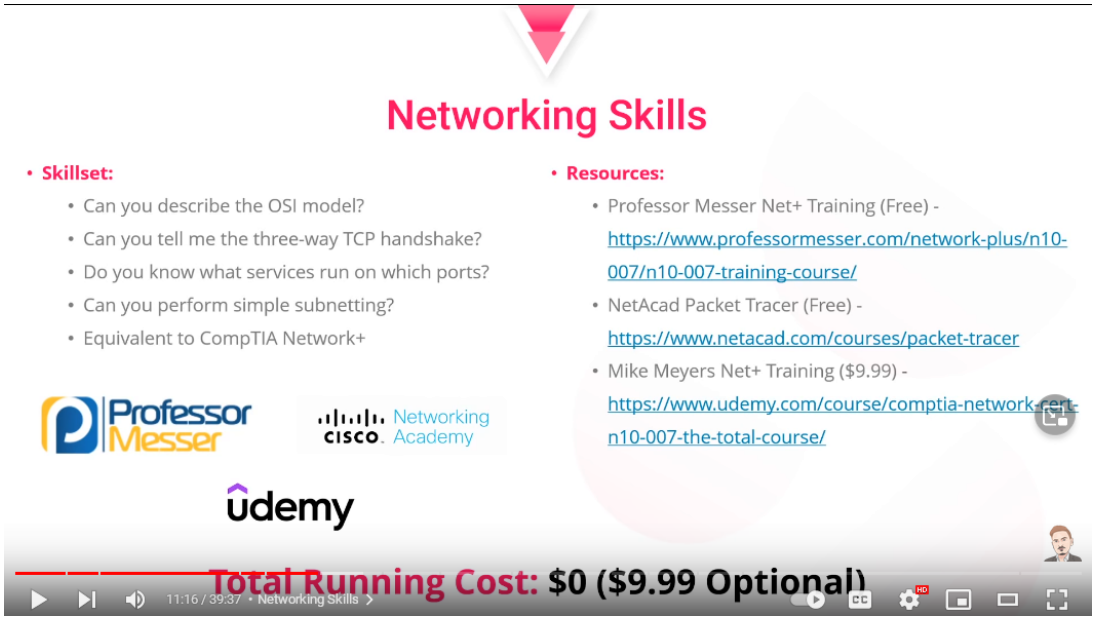
- Its important to build a foundation. If you do not you will find as you progress that you are lost more and more, which will lead to frustration, embarrassment from your peers and potentially you giving up. This is **not** what we want.
    - Dont go for the top of the pyramid of knowledge, start at the bottom and build strong

Building strong Cyber/Hacking/IT Skills

- **Skill sets**

- Can you describe the OSI ?
- Can you describe 3 way TCP Handshake ?
- Can you list services and what ports they are one ?
- Are you Network+ Equivalent ?

- **General IT Skills** -
  - A+ (Professor Messer)
    - Part 1 - https://youtube.com/playlist?list=PLG49S3nxzAnna96gzhJrzkii4hH_mgW4b
    - Part 2- https://youtube.com/playlist?list=PLG49S3nxzAnna96gzhJrzkii4hH_mgW4b
- **Networking Skills** - Net+ / CCNA



- Net+ Resources
  - Mike Meyers - https://www.udemy.com/course/total-comptia-network-n10-008/
  - Professor Messer - https://www.professormesser.com/network-plus/n10-008/n10-008-video/n10-008-training-course/
- CCNA resources
  - Cisco Packet Tracer **-** https://www.netacad.com/

- Jeremy's IT Lab - https://youtube.com/playlist?list=PLxbwE86jKRgMpuZuLBivzlM8s2Dk5lXBQ

- **Security basics**
  - Professor Messer SY0-601 Course - https://youtube.com/playlist?list=PLG49S3nxzAnkL2ulFS3132mOVKuzzBxA8
  - Dion/Meyers SY0-601 Course + Exams - https://www.udemy.com/course/securityplus/

Linux skills

- **Skill sets**
  - Can you navigate a terminal ?
  - Can you install and uninstall a program in linux ?
  - Can you write scripts to automate tasks in bash ?
- **Resources**

  - Linux Journey - https://linuxjourney.com/
  - Over the Wire's Bandit -https://overthewire.org/wargames/bandit/
  - Free Youtube course -https://www.youtube.com/watch?v=rZsJieGi8os&ab_channel=TheCyberMentor

Coding Skills

- **Skill Sets**

- Can you read code ?
- Do you know what a variable is ?
- How about a conditional statement ?
- Python3 Recommended

- **Resources**

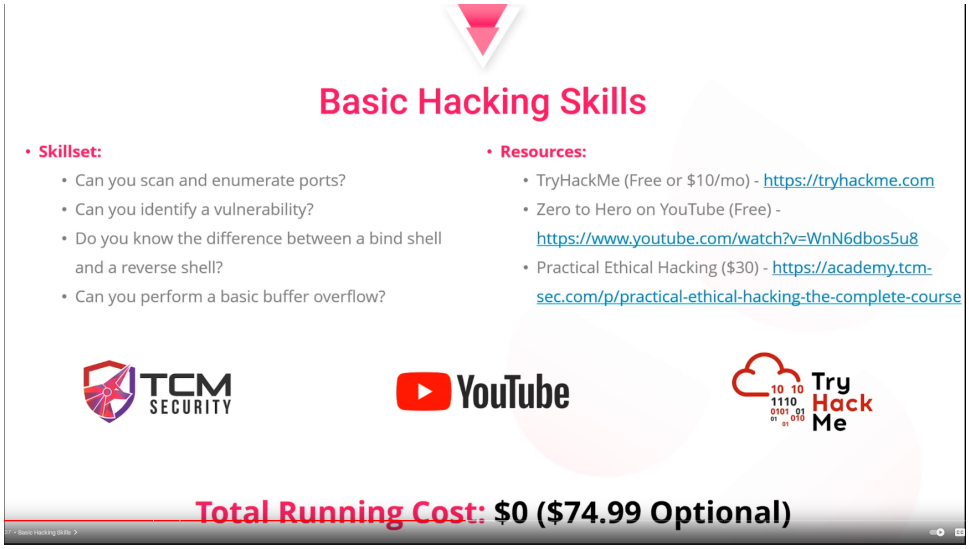
- Codecademy - https://www.codecademy.com/ Python 3 (just sign up again if dont complete)
- freeCodeCamp - https://www.freecodecamp.org/
- Team Tree House - https://teamtreehouse.com/
- Can you scan and enumerate ports?
- Can you identify a vulnerability ?
- Do you know the difference between a bind shell and a reverse shell ?
- Can you perform a basic buffer overflow ?

Basic Hacking Skills

- **Skillsets**
  - Can you scan and enumerate ports ?
  - Can you identify a vulnerability ?
  - Do you know the difference between a bind shell and a reverse shell ?

- Can you perform a basic buffer overflow ?

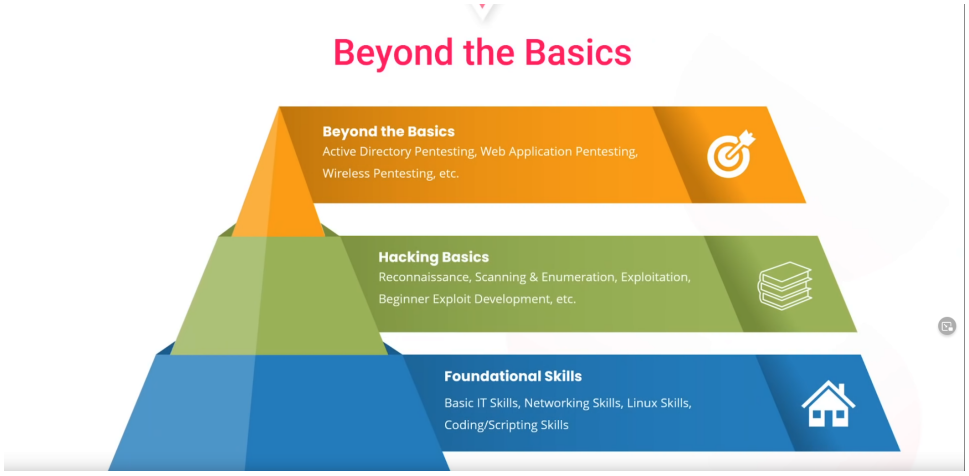
- **Resources**



  - TryHackMe - http://tryhackme.com
  - ZeroToHero - https://www.youtube.com/watch?v=WnN6dbos5u8&t=0s
  - Practice Ethical Hacking - https://academy.tcm-sec.com/p/practical-ethical-hacking-the-complete-course (Look for discount codes)

Beyond the basics

- Once you reach the top of the hill, keep climbing !

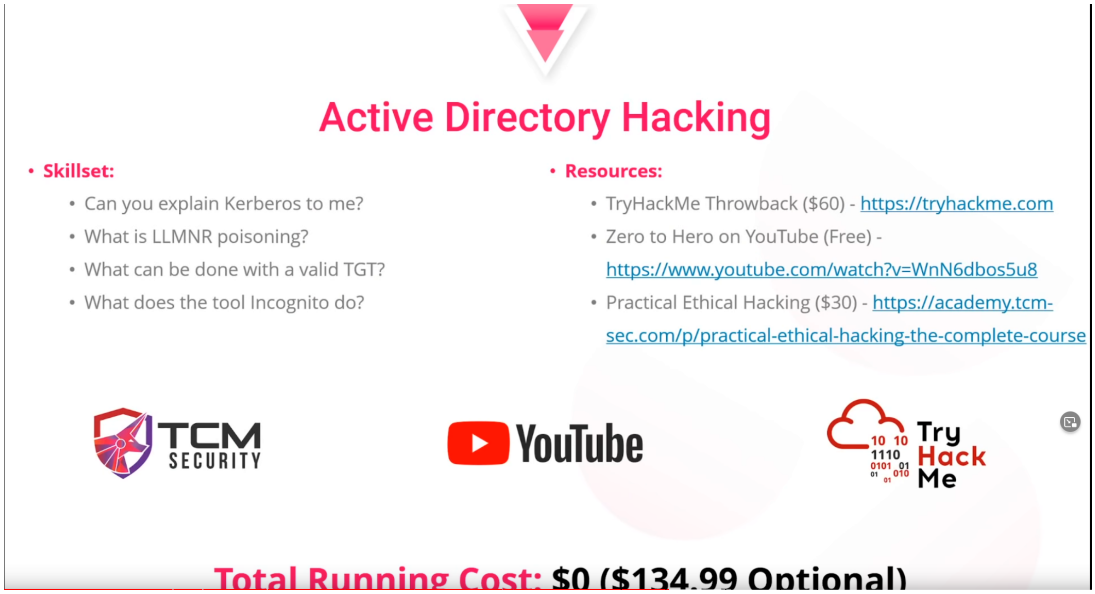


- **Important skills for breaking into the industry**
  - Internal and external network Pentesting (involves AD)

- Web application pentesting
- Wireless Pentesting

Basic + Active Directory Hacking Skills

- **Skillsets**
  - Can you explain Kerberos ?
  - What is LLMNR poisoning ?
  - What can be done with a valid TGT ?
  - What does the tool Incognito do ?
- **Resources**



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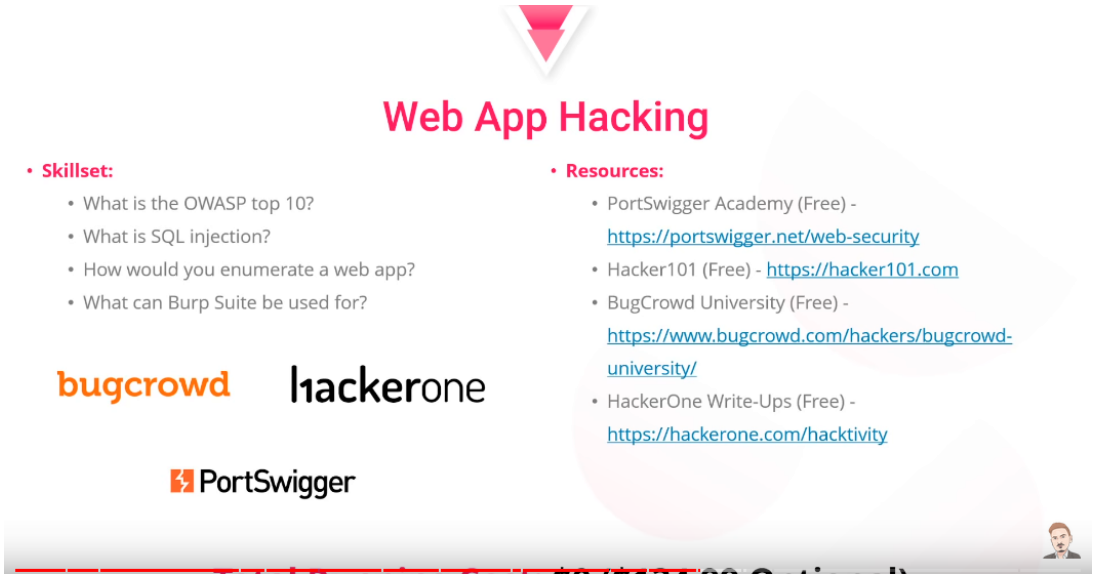
Web App Hacking Skills

- **Skillsets**
  - What is the OWASP top 10 ?
  - What is SQL injection ?

- How would you enumerate a web app ?
- What can Burp Suite be used for ?

- **Resources**



- PortSwigger - https://portswigger.net/web-security
- Hacker 101 - https://www.hacker101.com/
- BugCrowd University - https://www.bugcrowd.com/hackers/bugcrowd-university/
- Hacker One Write-Ups - https://hackerone.com/hacktivity

Wireless Hacking Skills

- **Skillsets**
  - What is a four-way handshake ?
  - How do WPA2 PSK and Enterprise differ ?
  - What can a tool like EAPHammer be used for ?
- **Resources**

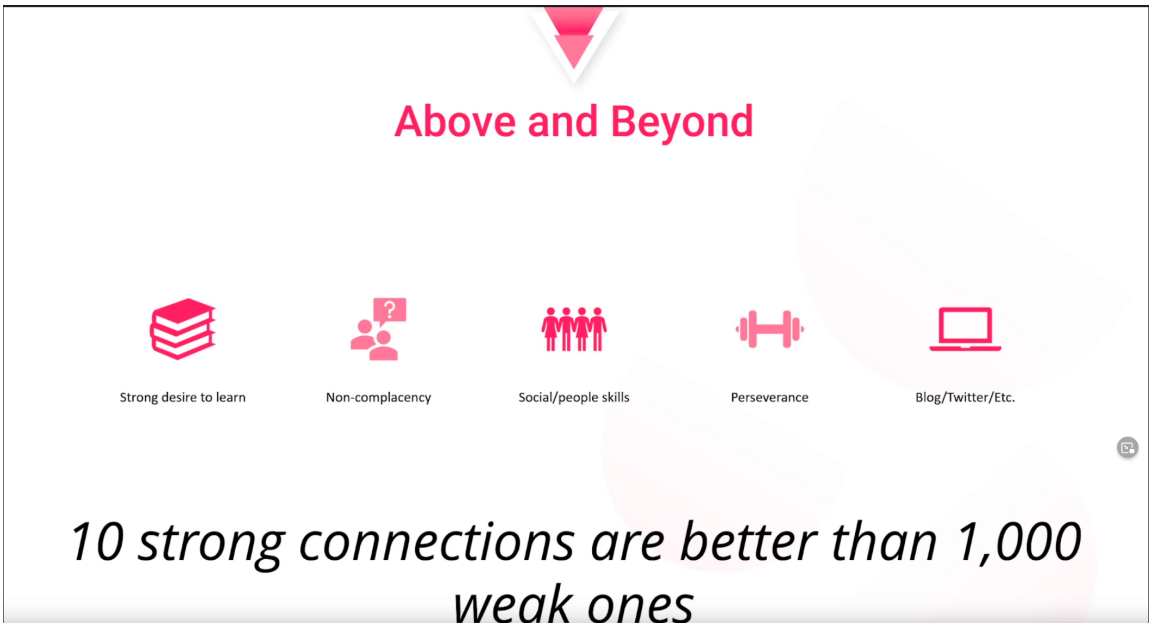
- Hacking WPA2 Personal - https://www.aircrack-ng.org/doku.php?id=cracking_wpa
- Hacking WPA2 Enterprise (Original link broken) - https://teckk2.github.io/wifi pentesting/2018/08/09/Cracking-WPA-WPA2-Enterprise.html

Above and Beyond Skills

- **Skillsets**
  - Strong Desire to learn
    - Ever changing tools and attacks
  - Non-complacency
    - Mitigate risks of being weeded out and left behind
  - Social/People Skills
    - Often is about who you know, more then what you know
  - Perseverance
    - It will be challenging. Learn to get knocked down and get back up again.
  - Blog\Twitter\Gits\Etc
    - Put yourself out there, add to the community, share processes, show you have the skills and can communicate them well.
    - Put your labs on your resume and on social media

- Run your own race
  - Dont be concerned with how fast someone else is moving or how slow it might seem you are. Move at your pace and stay consistent.
  - Comparison is the **thief** of success. Comparing yourself to others will rob you of your own victories.

- **Resources**



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