

## **Up Until 5/3/2024:**

PicoCTF – finished:

- General Skills – Obedient Cat
- General Skills – Python Wrangling
- General Skills – Wave a flag
- General Skills – Nice netcat...
- General Skills – Static ain't always noise
- General Skills – Tab, Tab, Attack
- General Skills – Super SSH

Cybrary IT and Cybersecurity Foundations – finished:

- Network Reference Models
- Linux CLI Basics
- IP Addressing Basics
- Network Device Basics
- Linux File System Basics
- Cryptography Basics
- Symmetric Cryptography (w/o challenge activity)
- Asymmetric Cryptography
- Cryptographic Hash Functions
- Windows CLI Basics
- Access Control Basics
- Windows File System Basics
- Data Backup and Recovery Basics
- Windows Services
- Antivirus Basics
- PowerShell Basics

**5/4/2024**

CompTIA A+ 200-1101 - finished:

- Chapter 1.1: Laptop Hardware

**5/6/2024**

Cybrary IT and Cybersecurity Foundations – finished:

- Wireshark Basics
- Nmap Basics (w/o Q5 of the challenge exercise)

**5/7/2024**

PicoCTF - finished:

- General Skills – Magikarp Ground Mission
- General Skills – Lets warm up
- General Skills – Warmed up
- General Skills – 2 Warm
- General Skills – Commitment Issues
- General Skills – Time machine
- General Skills – Blame Game
- General Skills – Collaborative Development
- General Skills – What's a net cat
- General Skills – Strings it
- General Skills – Bases
- General Skills – First Grep
- General Skills – Codebook
- General Skills – Covertme.py
- General Skills – fixme1.py
- General Skills – fixme2.py
- General Skills – Glitch Cat
- General Skills – HashingJobApp
- General Skills – PW Crack 1
- General Skills – PW Crack 2

**5/9/2024**

Mini Project – Home Network Screening:

- Inside Home Wifi Network Scan Proj folder.
- Run a network scan on my home wifi network twice using Nmap.
- Discover various hosts, identify interested ones, and run targeted commands to further analyze those devices (e.g., Nmap with -O to gather Sysinfo).

Cybrary IT and Cybersecurity Foundations – in progress:

- VPN Basics

**5/10/2024**

Cyber Security News:

- Read about Cisco Talo's article on "Arcane Door," a newly discovered espionage infiltration targeting Cisco's ASA (Adaptive Security Appliances). Link: <https://blog.talosintelligence.com/arcanedoor-new-espionage-focused-campaign-found-targeting-perimeter-network-devices/>

Cybrary IT and Cybersecurity Foundations – finished:

- VPN Basics

Cybrary IT and Cybersecurity Foundations – in progress:

- Windows Active Directory

PicoCTF - finished:

- General Skills - PW Crack 3
- General Skills - PW Crack 4
- General Skills - PW Crack 5
- General Skills - runme.py
- General Skills - Serpentine
- General Skills - First Find
- General Skills - Big Zip

**5/11/2024**

PicoCTF - finished:

- General Skills - chrono (check 'crontab')
  - General Skills - money-ware
  - General Skills - Permissions (check 'privilege escalation' and 'https://gtfobins.github.io/')
  - General Skills - repetitions
  - General Skills - useless
  - General Skills - ASCII Numbers
  - General Skills - binhexa
  - General Skills - Binary Search
  - General Skills - Based
- (<https://www.rapidtables.com/convert/number/hex-to-ascii.html>)
- <http://www.unit-conversion.info/texttools/octal/>)

**5/12/2024**

PicoCTF - finished:

- General Skills - plumbing
- General Skills - endianness (remember to use hex)
- General Skills - mus1c (very bizarre)
- General Skills - flag\_shop (2's comp!! champ)
- General Skills - Special (Shell scripts and shell syntax!)
- General Skills - dont-you-love-banners(Symbolic link v.s. Hard links)
- General Skills - Specialer (Shell scripts!! Shell scripts! Shell Scripts!!!)
- General Skills - SansAlpha (Regex!!)



**5/13/2024**

PicoCTF - finished:

- Binary Exploitation – Stonks (Exploits the “format string vulnerability”)

**5/14/2024**

CompTIA A+ 200-1101 - finished:

- Chapter 1.2: Laptop Displays
- Chapter 1.3(1): Connection Mobile Devices
- Chapter 1.3(2): Mobile Device Accessories
- Chapter 1.4(1): Cellular Standards
- Chapter 1.4(2): Mobile Device Connectivity
- Chapter 1.4(3): Mobile Device Configurations
- Chapter 2.1(1): Introduction to IP
- Chapter 2.1(2): Common Network Ports
- Chapter 2.2(1): Network Devices

Hack the Box (HTB):

- Setup

Tryhackme (THM):

- Setup

**5/15/2024**

CompTIA A+ 200-1101 - finished:

- Chapter 2.2(2): Software Defined Networking
- Chapter 2.3(1): Wireless Network Standards
- Chapter 2.3(2): Wireless Network Technologies
- Chapter 2.4: Network Services
- Chapter 2.5(1): IPv4 and IPv6

**5/16/2024**

SIEM Home Lab:

- Setup Elastic Agent on home Kali Machine
- Visualize logs on Kibana

Cybrary IT and Cybersecurity Foundations – finished:

- Windows Active Directory
  - Set up and configure Active Directory Domain Services (ADDS); created two forests each with one domain.
  - Configure the Active Directory Users and Computers (ADUC) ; for each forest add an Organization Unit(OU) and users inside the OUs.
  - Configure Global Groups (security groups) inside each OU. Group users into aforementioned groups.

**5/17/2024**

Tryhackme – finished:

- Linux basics (all 3 parts)
- Regex basics
- Bash scripting basics

**5/18/2024**

Tryhackme – in progress:

- Introductory Networks (nice review)

IoT:

- Purchased two Raspberry Pi Pico and 1 starter kit. Looking forward to build an exciting project.

**5/19/2024**

Tryhackme – finished:

- Introductory Networks (nice review)

Tryhackme – in progress:

- Nmap (more comprehensive than the Cybrary tutorial)

**5/20/2024**

Tryhackme – finished:

- Nmap (run nmap and use Wireshark to analyze the traffic; it feels so good to witness live network activities and, more importantly, understand what is going on.)
  - In particular, run -sX to identify open|filter ports on the target machine
  - Run --script=ftp-anon to try log on to the target machine's ftp server.



**5/21/2024**

Raspberry Pi Pico:

- Print some stuff on the LCD screen :)

Tryhackme – in progress:

- Network Service

CompTIA A+ 220-1101 - finished:

- Chapter 2.5: Assigning IP addresses

**5/22/2024**

Tryhackme – finished:

- Network Service

Tryhackme – in progress:

- Network Service 2

**5/23/2024**

Tryhackme – finished:

- Metasploit: Introduction

Tryhackme – in progress:

- Network Service 2



**5/24/2024**

Tryhackme – in progress:

- Network Service 2

**5/25/2024**

Tryhackme – in progress:

- Network Service 2

RTOS:

- Learned basic utilities of RTOS
  - Can run tasks concurrently
  - Enforces strict deadlines by having a scheduler supporting priority.

**5/26/2024**

Tryhackme – in progress:

- Network Service 2
- How Websites Work

**5/27/2024**

4G LTE Technology – finished:

- 4G LTE Technology Overview

Tryhackme - finished:

- How Websites Work

Tryhackme – in progress:

- Network Service 2



**5/29/2024**

Tryhackme - finished:

- Network Services 2
- HTTP in detail

Tryhackme – in progress:

- Burp Suite: The Basics

**5/30/2024**

Tryhackme – in progress:

- Burp Suite: The Basics