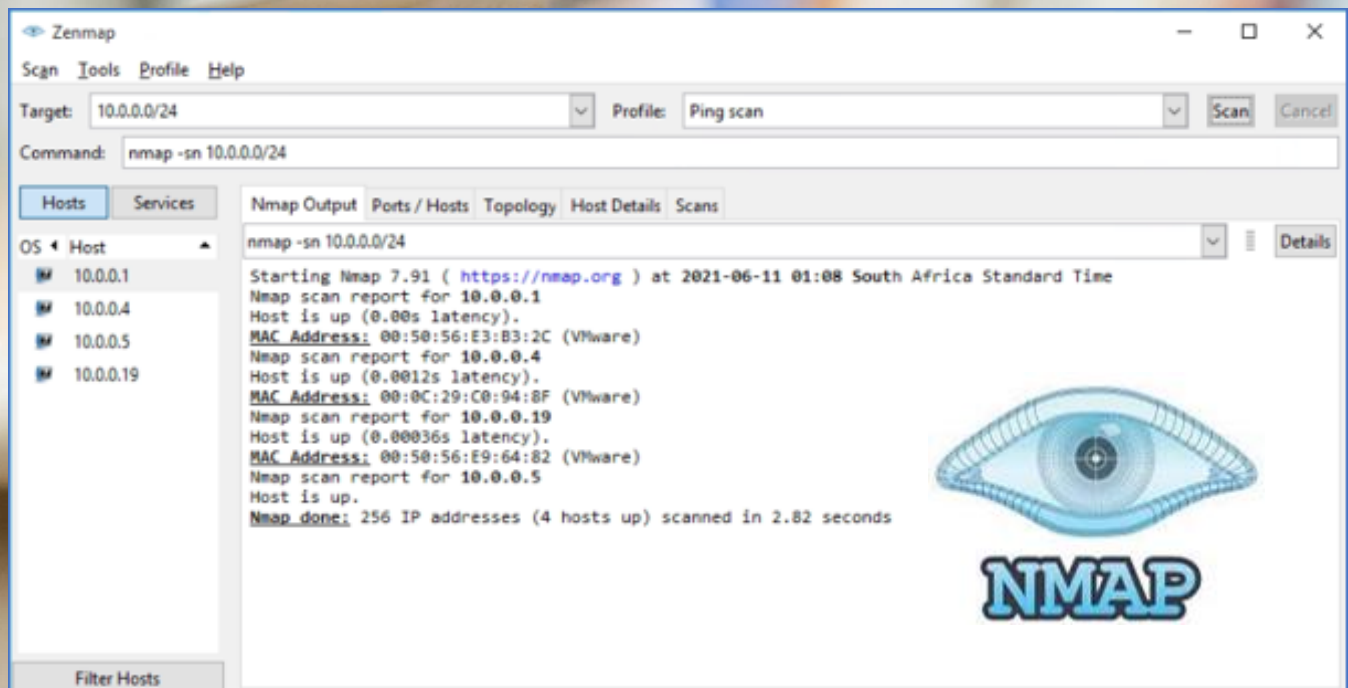


**W2-PM5**

WEEK 2 | PROJECT MODULE 5



# NETWORK SCANNING WITH ZENMAP

CYBERSECURITY & ETHICAL HACKING PROJECT TASKS



WEEK 2 | PROJECT MODULE 5

# NETWORK SCANNING WITH ZENMAP

## Background

Zenmap is the official GUI version of Nmap which can be used on Windows PC. It is a security scanner software tool which is used by Cybersecurity professionals & Hackers. It is a multi-platform (Linux, Windows, Mac OS X, BSD, etc.) free and open source application which aims to make Nmap easy for beginners to use while providing advanced features for experienced Nmap users. Frequently used scans can be saved as profiles to make them easy to run repeatedly.

## Tasks

- Task1** Download & install Zenmap from official website on your Windows PC
- Task2** Find your local IP address & your LAN subnet
- Task3** Find the list of live hosts/PC's in your IP subnet
- Task4** How many hosts are live in your subnet?
- Task5** What are the IP addresses of the live hosts?
- Task6** What are the MAC addresses of the live hosts?
- Task7** Display & save the output topology in PDF Format on your desktop

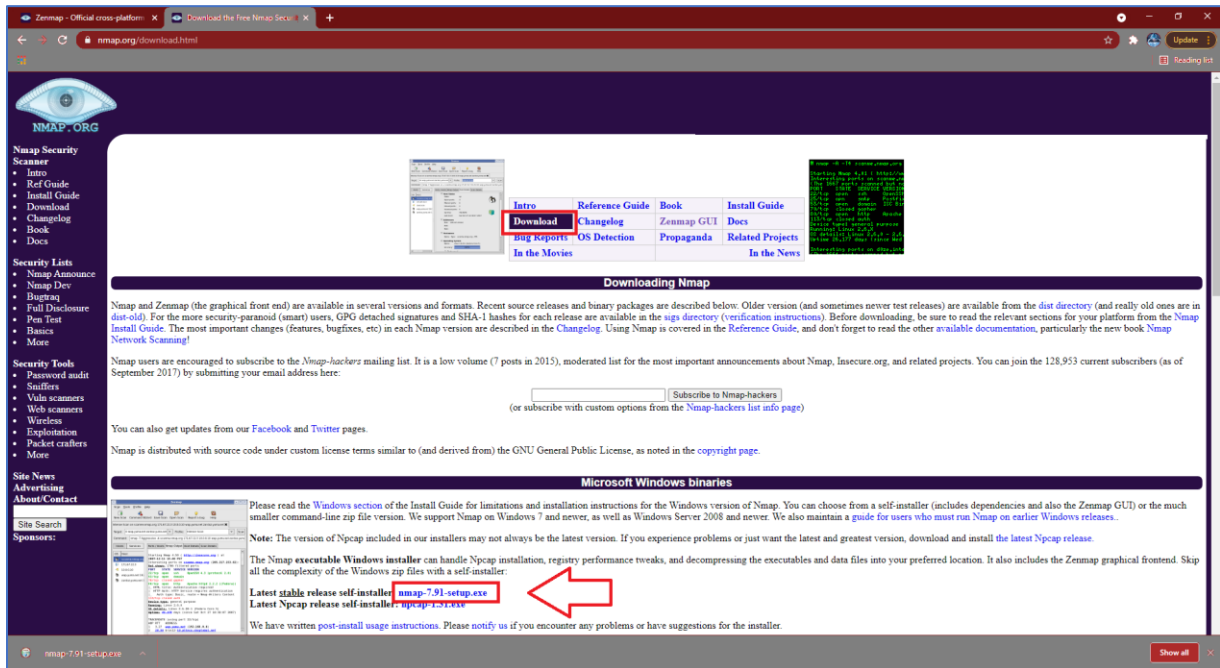
## Important Information:

Instructor has used 10.0.0.0/24 subnet in this guide. Your subnet & results might be a bit different based on your network configuration. Just follow these same steps with your local subnet & complete it accordingly. Consult the lecture video recording in which instructor has explained this practically step by step.

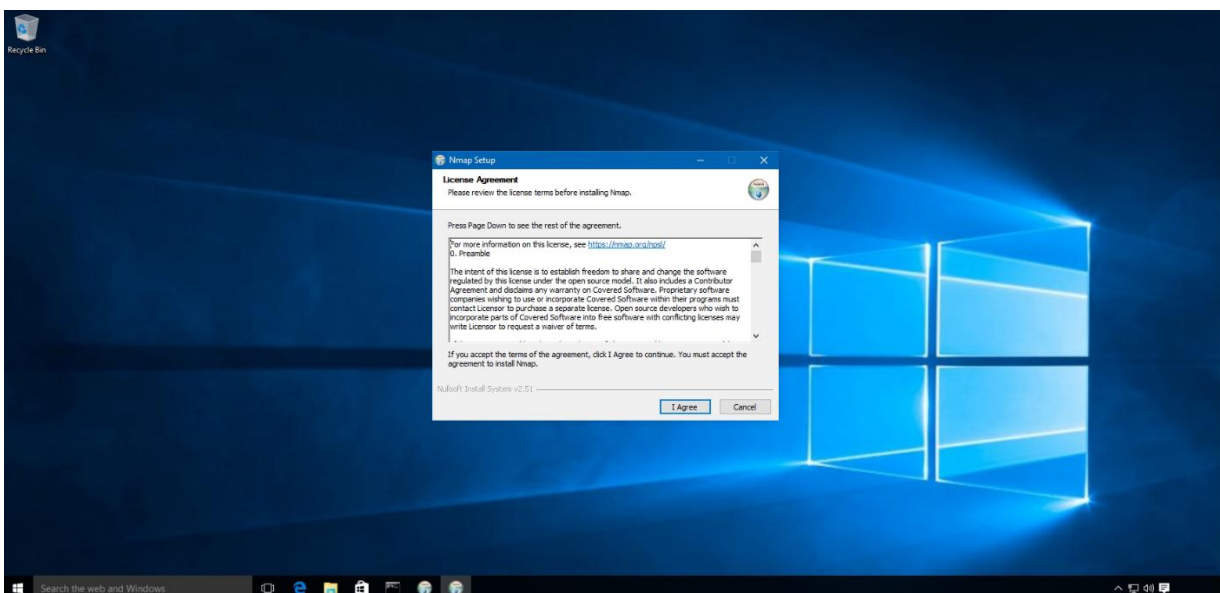
# Solution

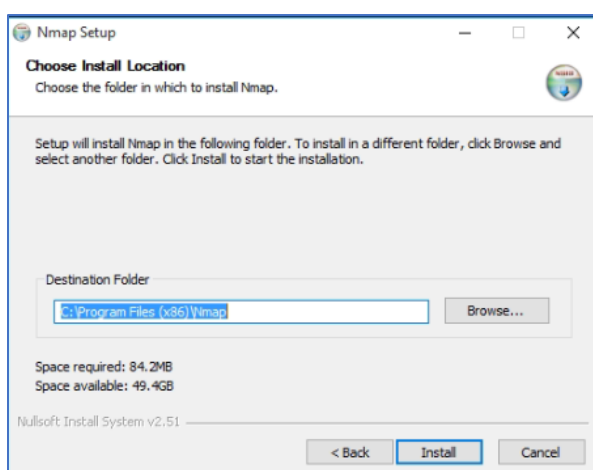
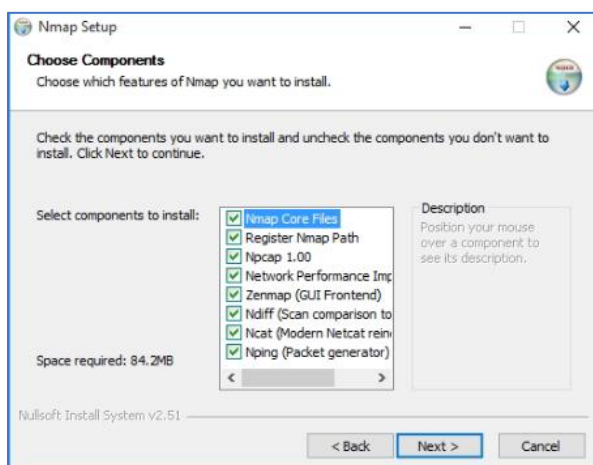
## Task1 Download & install Zenmap from official website on your Windows PC:

<https://nmap.org/download.html>

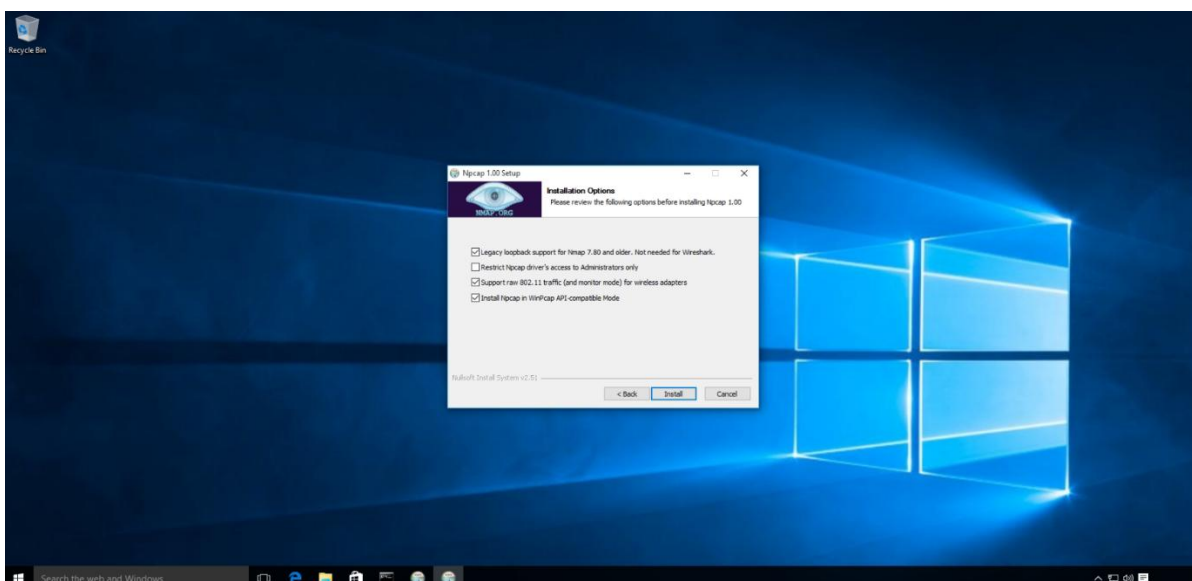


Run the setup file after download & follow as in below:

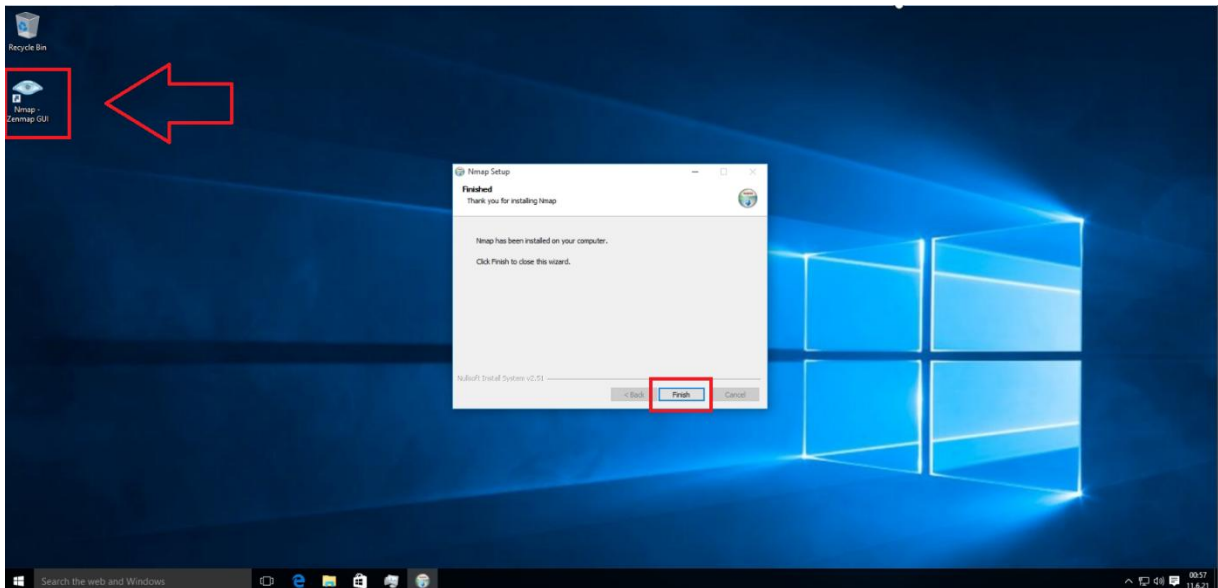




Click on install:

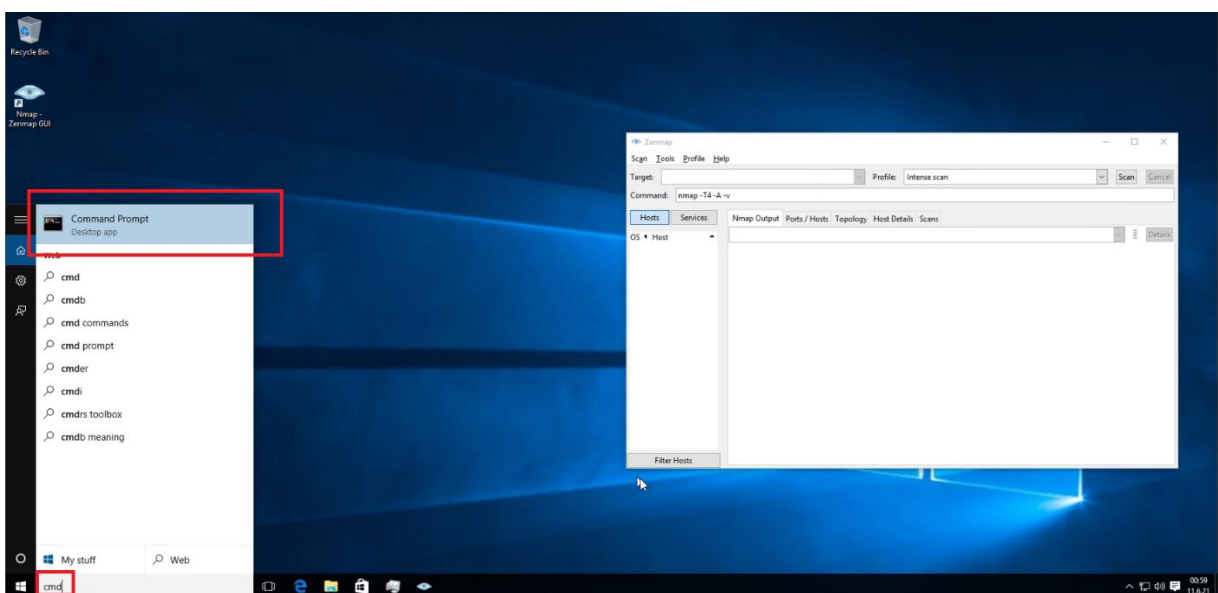


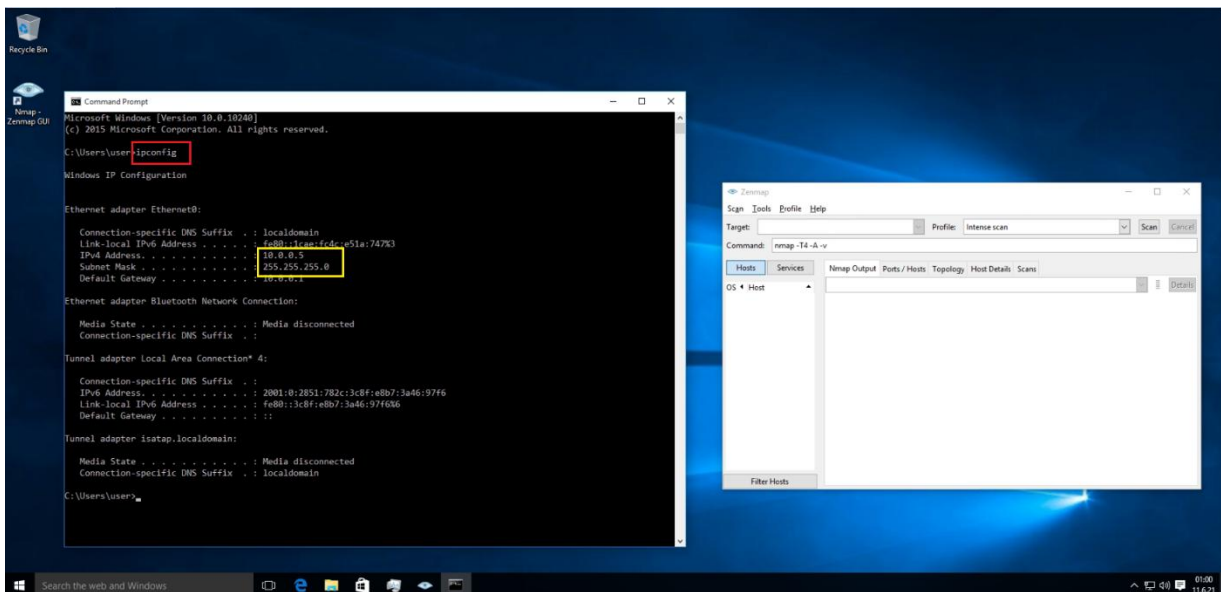
Click on finish & open Zen-map:



## Task2 Find your local IP address & your LAN subnet:

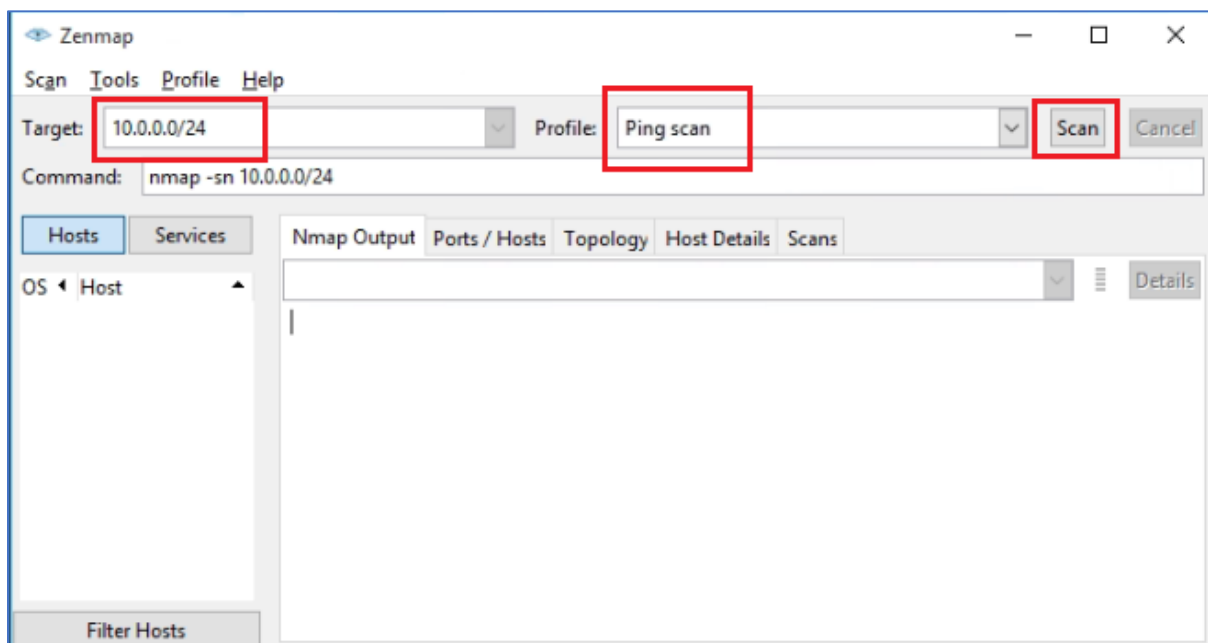
Open CMD & run `ipconfig` command to find your PC's local IP address & your local LAN subnet:

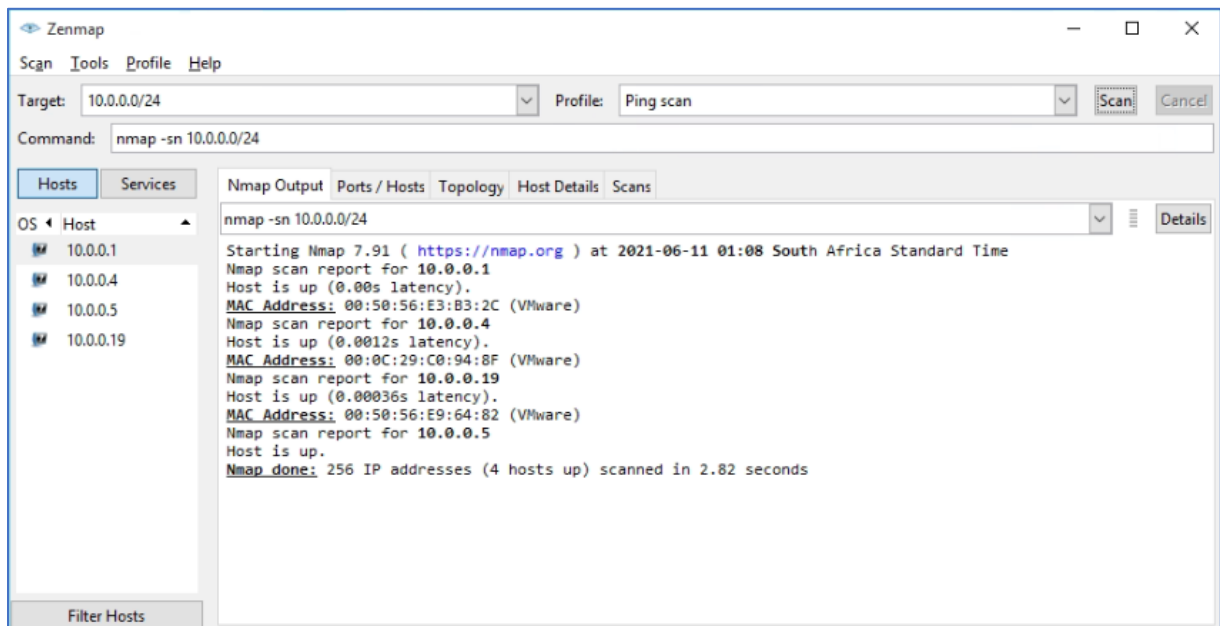




### Task3 Find the list of live hosts/PC's in your IP subnet:

Open Zenmap, input the local LAN subnet & select Ping Scan to find the list of live hosts in your subnet:





**Task4** How many hosts are live in your subnet?

**Answer:** 4 hosts are live (including my PC)

**Task5** What are the IP addresses of the live hosts?

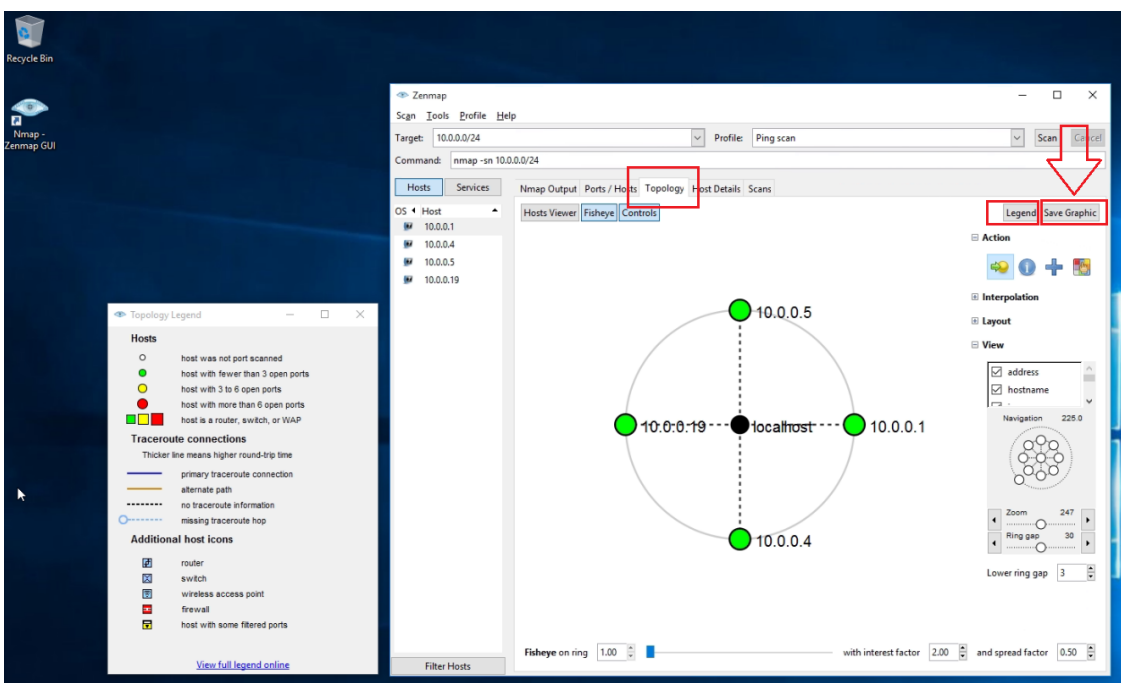
**Answer:** 10.0.0.1  
10.0.0.4  
10.0.0.19  
10.0.0.5

**Task6** What are the MAC addresses of the live hosts?

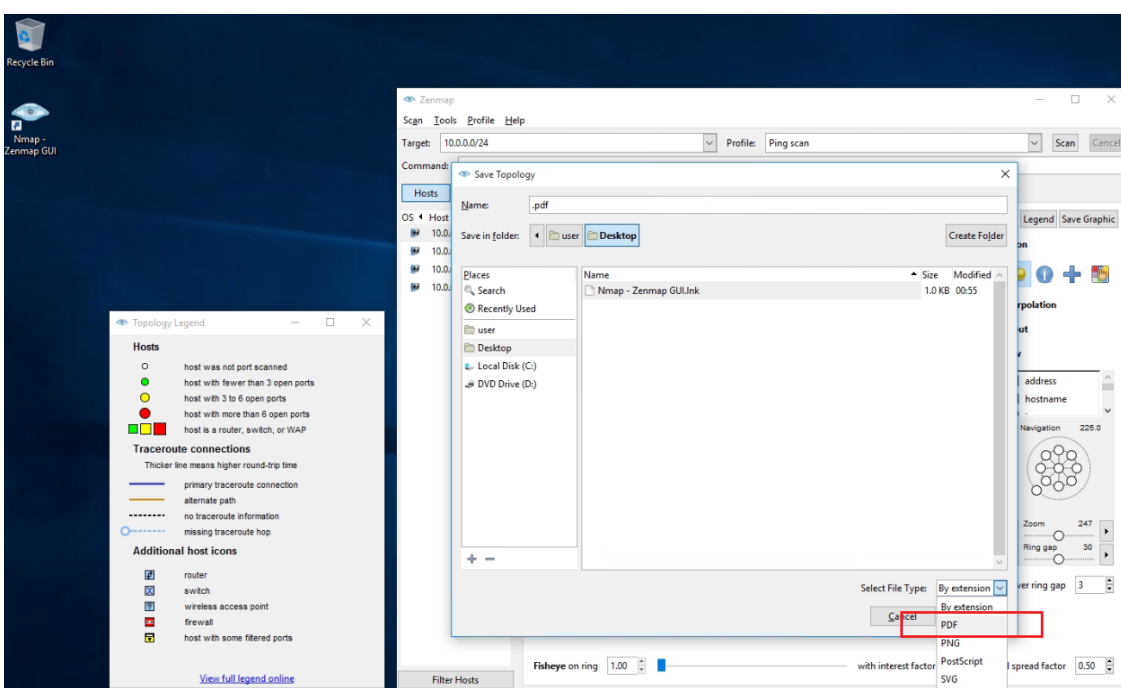
**Answer:** 00:50:56:E3:B3:2C  
00:0C:29:C0:94:8F  
00:50:56:E9:64:82  
00-0C-29-40-C0-93 (use `ipconfig /all` to find local MAC)

## Task7 Display & save the output topology in PDF Format on your desktop:

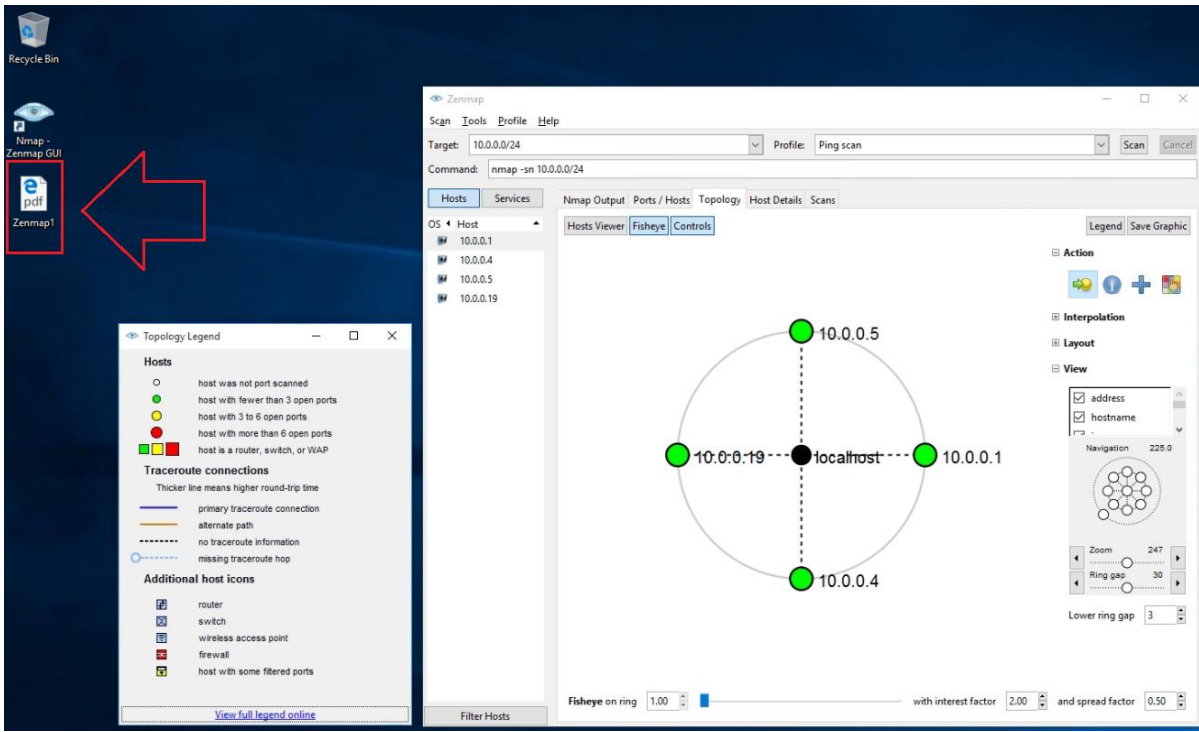
Click on Topology, turn on legend, read the legend in detail & click on Save Graphic:



Select PDF from the list:



The PDF file will be saved on your desktop.



Save the topology PDF and include it in your final report.

After completing these tasks, please answer all Questions on [Lab Page](#):

<https://networkwalks.com/zenmap-network-scanning-practice-lab/>

## Extra References & tips

### Do you know?

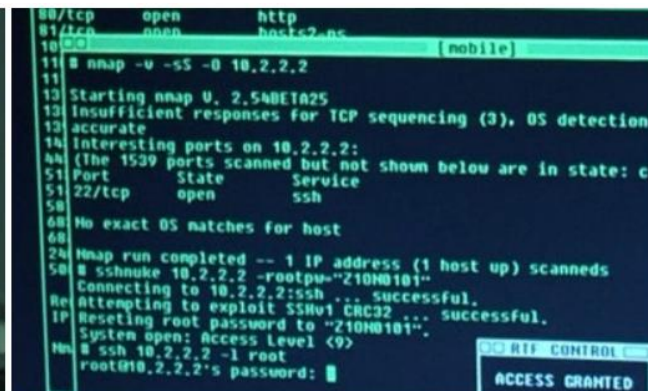
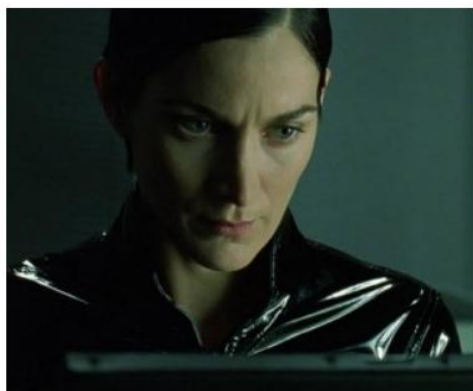


- ✓ Zenmap & Nmap have been spotted in many Hollywood movies in Hacking scenes.  
For example:

- Matrix Reloaded Movie (2001)
- Ocean's 8 Movie (2018)
- Snowden Movie (2016)
- Dredd Movie (2012)
- Elysium Movie (2013)
- Full list: <https://nmap.org/movies/>

- ✓ Nmap has been also been referenced in many news articles, reviews, books & popular culture references.  
Here is the full list: [https://nmap.org/nmap\\_inthenews.html](https://nmap.org/nmap_inthenews.html)

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