

Cryptography & Network Security Lab

PRN/ Roll No: 2019BTECS00090

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Assignment No. 15

Title of assignment: Installation and Testing of Snort

Title:

Installation and Testing of Snort

Aim:

To install and test snort

Theory:

SNORT is a network-based intrusion detection system which is written in C programming language. It was developed in 1998 by Martin Roesch. Now it is developed by Cisco. It is free open-source software. It can also be used as a packet sniffer to monitor the system in real time. The network admin can use it to watch all the incoming packets and find the ones which are dangerous to the system. It is based on library packet capture tool. The rules are easy to create and implement and it can be deployed in any kind of operating system and any kind of network environment. The main reason of the popularity of this IDS over others is that it is a free-to-use software and open source because of which any user can be able to use it as the way he wants.

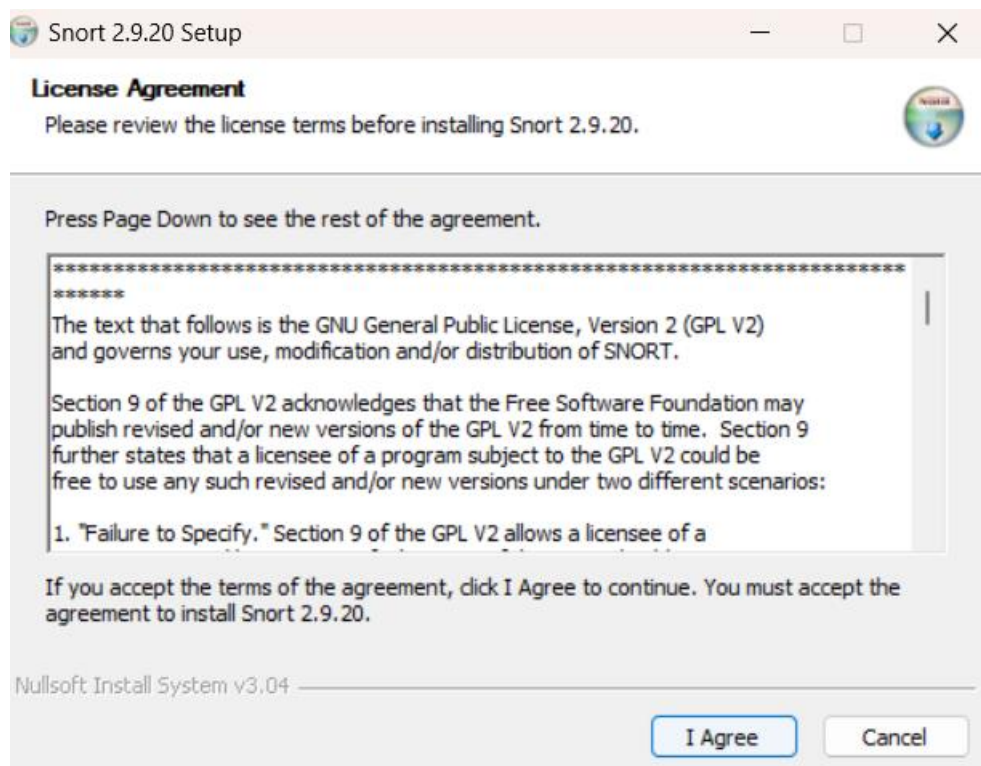
Features:

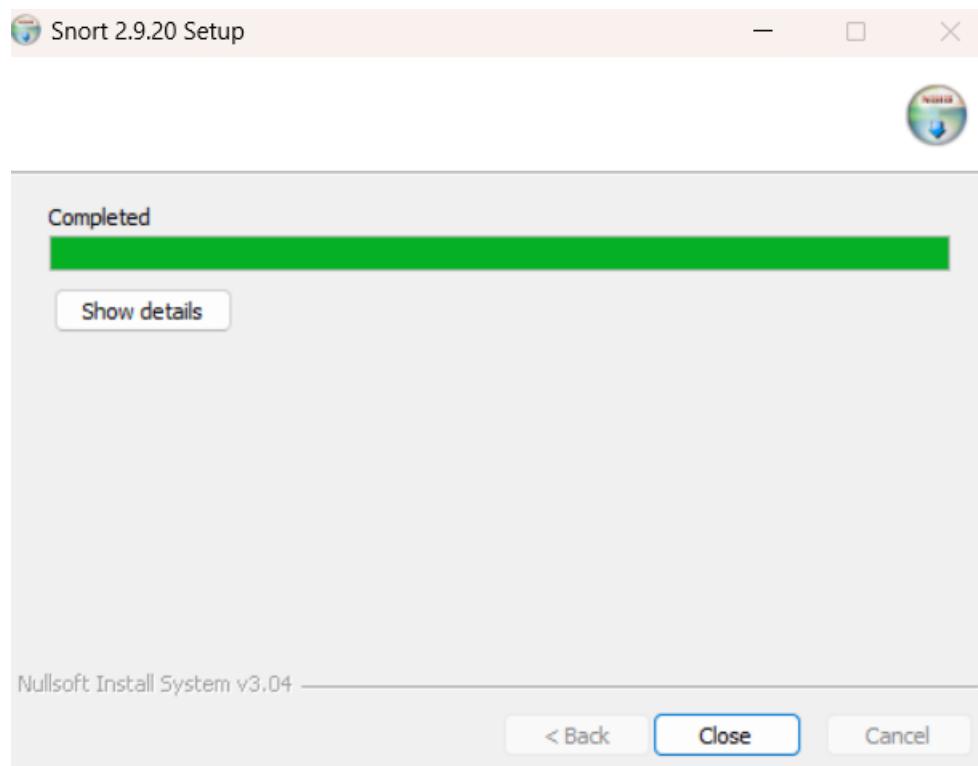
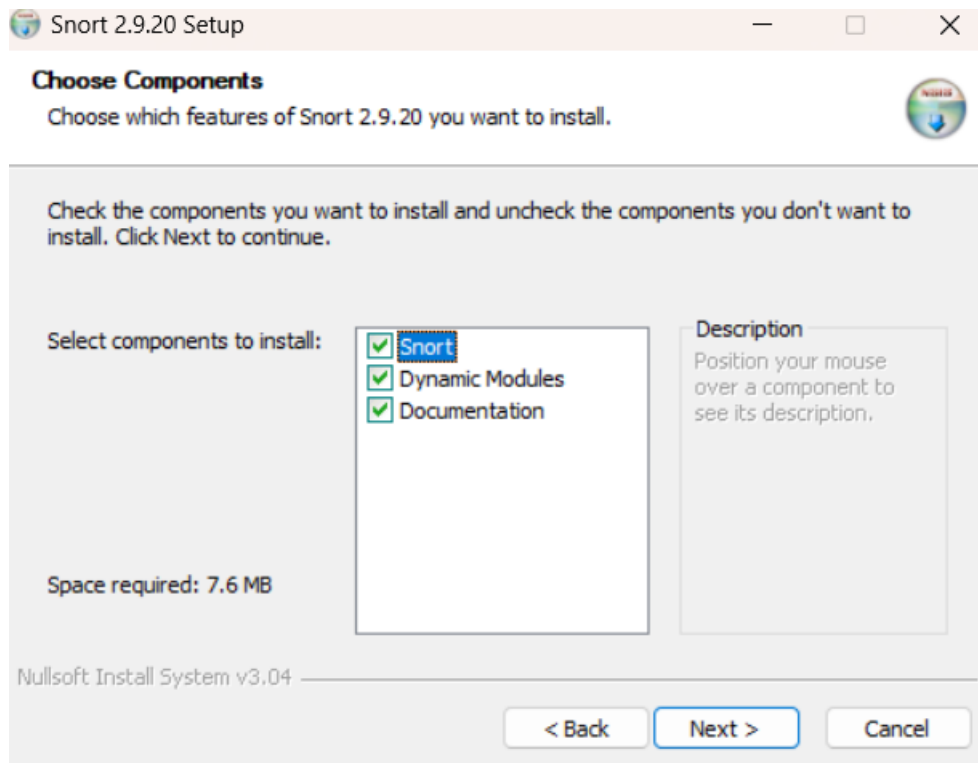
- Real-time traffic monitor
- Packet logging
- Analysis of protocol
- Content matching
- OS fingerprinting
- Can be installed in any network environment.
- Creates logs
- Open Source

- Rules are easy to implement

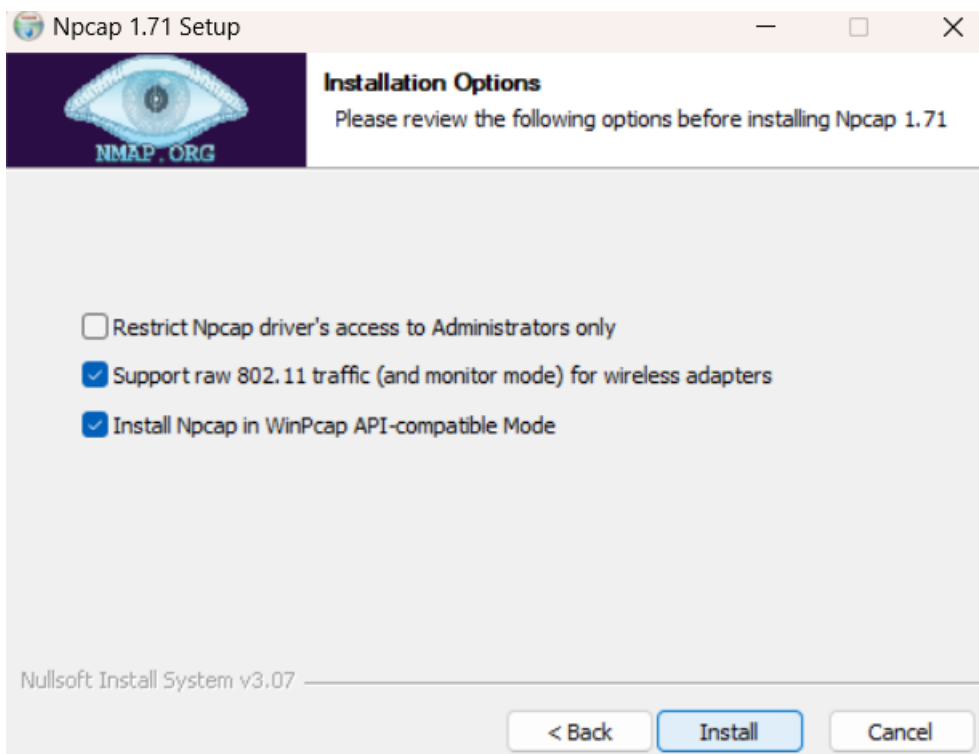
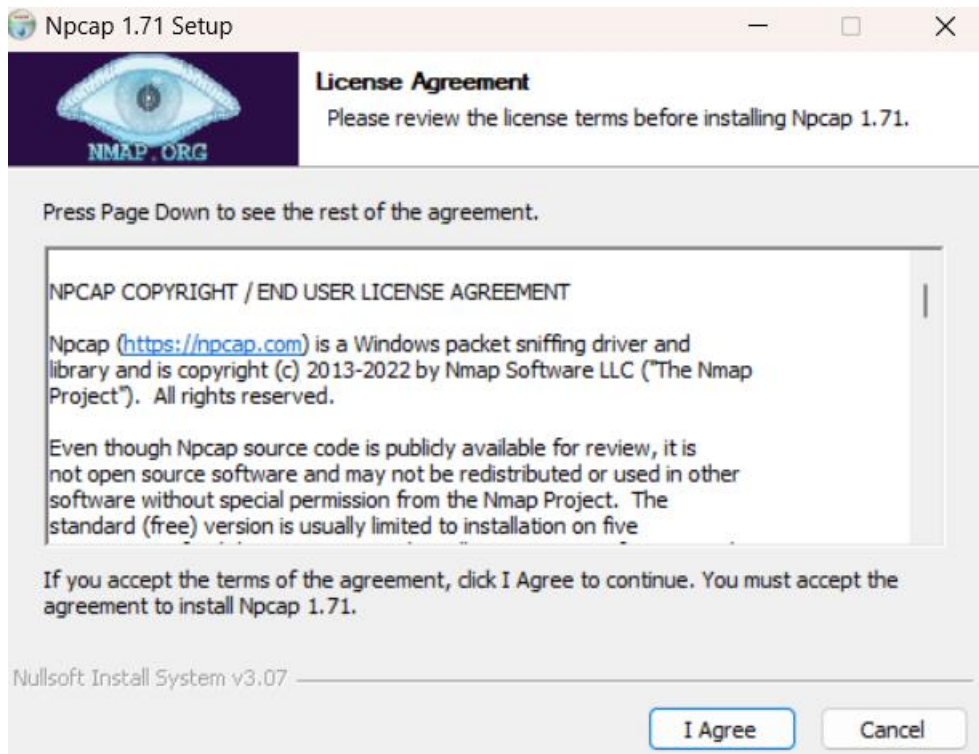
<https://zaeemjaved10.medium.com/installing-configuring-snort-2-9-17-on-windows-10-26f73e342780>

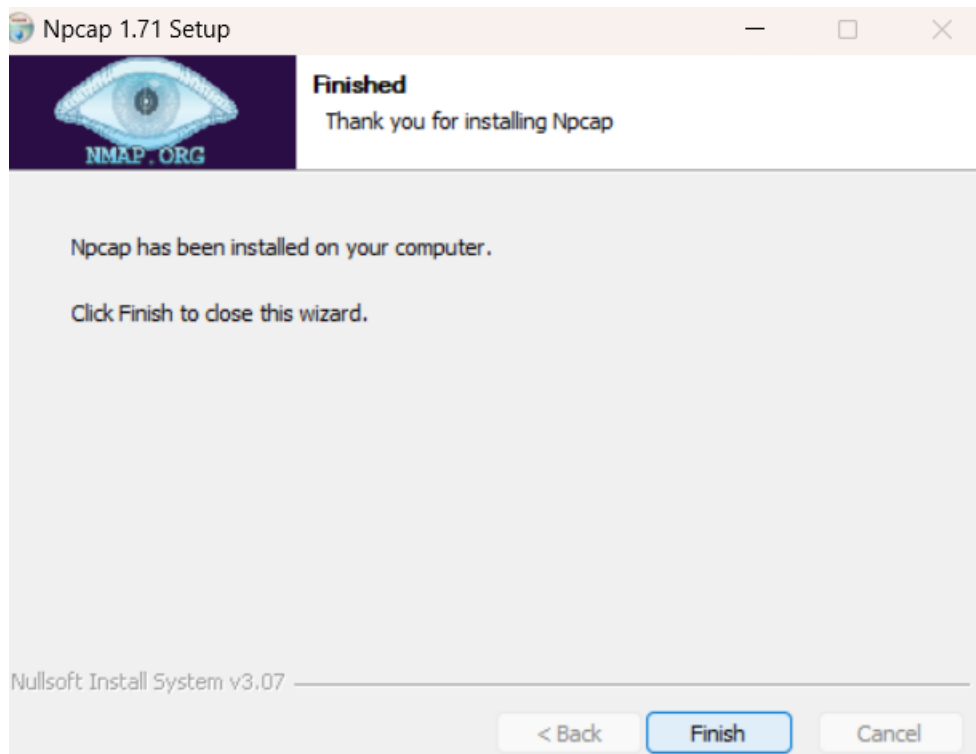
Installation of snort:





Npcap installation :





Config:

```
# Setup the network addresses you are protecting
ipvar HOME_NET 192.168.1.18/24

# Set up the external network addresses. Leave as "any" in most situations
ipvar EXTERNAL_NET any

# List of DNS servers on your network
ipvar DNS_SERVERS $HOME_NET
```

```
C:\Snort\bin>Snort -W

-> Snort! <*-
Version 2.9.20-WIN64 GRE (Build 82)
By Martin Roesch & The Snort Team: http://www.snort.org/contact#team
Copyright (C) 2014-2022 Cisco and/or its affiliates. All rights reserved.
Copyright (C) 1998-2013 Sourcefire, Inc., et al.
Using PCRE version: 8.10 2010-06-25
Using ZLIB version: 1.2.11

Index  Physical Address      IP Address      Device Name      Description
-----
1      00:00:00:00:00:00      disabled      %Device%NPF_{BC05AD26-9CE1-4BB3-B9D2-7A673C6D1506}  WAN Miniport (Network Monitor)
2      00:00:00:00:00:00      disabled      %Device%NPF_{F0CED674-0D4B-475B-8AB4-1E445664885A}  WAN Miniport (IPv6)
3      00:00:00:00:00:00      disabled      %Device%NPF_{8DE58908-386E-41A8-9124-7FD26C7DB4C7}  WAN Miniport (IP)
4      00:E9:3A:27:CC:B0      169.254.246.12 %Device%NPF_{0ECAB00A-C895-4B75-8F33-56A2502117AC}  Bluetooth Device (Personal Area Network)
5      00:E9:3A:27:CC:B1      192.168.246.199 %Device%NPF_{F7079E9E-F41E-425F-9F6A-8B8E05333346}  Realtek RTL8822CE 802.11ac PCIe Adapter
6      82:E9:3A:27:CC:B1      192.168.137.1   %Device%NPF_{FF7CBCA6-A7CE-43F9-BB2E-47C5598303FA}  Microsoft Wi-Fi Direct Virtual Adapter #2
7      02:E9:3A:27:CC:B1      169.254.226.4   %Device%NPF_{C9B29A73-D01D-4FE4-A237-2A9C63E12E9C}  Microsoft Wi-Fi Direct Virtual Adapter #1
8      00:00:00:00:00:00      0000:0000:0000:0000:0000 %Device%NPF_{Loopback}  Adapter for loopback traffic capture
9      00:FF:ED:00:F8:C1      169.254.55.65   %Device%NPF_{ED00F8C1-4666-4A67-A6A3-B814E115BD32}  TAP-Windows Adapter V9

C:\Snort\bin>
```

Conclusion:

Performed the experiment successfully.

Snort is installed and tested successfully.

It is detecting ping attacks.