Port RADAR testing report

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Project Information

- **Project Name:** Port Radar
- **Version:** 1.0
- **Test Date:** 30/05/2025
- **Tested By:** Jeremie Loriaux
- **Coach/Supervisor:** Mathias / Sananda

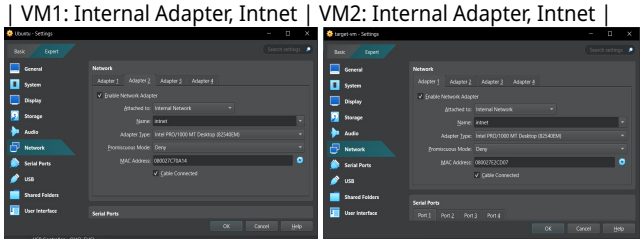
Objective

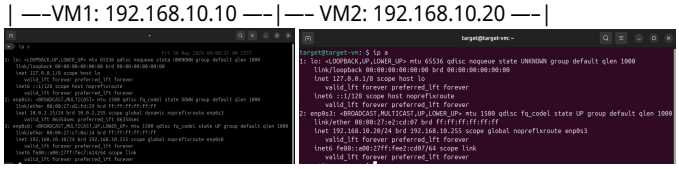
The objective of this testing is to validate the functionality, stability and accuracy of the Port Radar program. The program is expected to identify open TCP ports of a chosen ip address or domain name with either a normal tcp scan or a syn scan for better stealth.

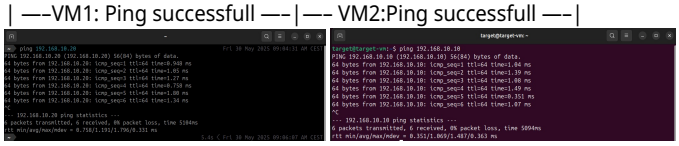
Test Environment

Component	Details
Machines	Ubuntu(VM1), target-vm(VM2)
Operating System	Ubuntu 24.04.2 LTS, Ubuntu 22.04 LTS
Python Version	3.12.3
Network Setup	Local Network named intnet

Environement setup

1. Setup both VM's on the same internal network
   | VM1: Internal Adapter, Intnet | VM2: Internal Adapter, Intnet |
   

2. Assigned the VM's ip addresses on the same subnet (/24).
   | —-VM1: 192.168.10.10 —-|—- VM2: 192.168.10.20 —-|
   

3. Pinged each other to check if the can reach each other.
   | —-VM1: Ping successfull —-|—- VM2:Ping successfull —-|
   

4. Open port 8080 with the command python -m http.server 8080 on VM2.
   

Test Cases

Test Case ID	Description	Input	Expected Result	Actual Result	Pass/Fail
TC01	Scan open TCP ports on localhost	127.0.0.1, rest default	List of open ports on local machine	[631, 6463, 9003, 9001, 9002, 900, ...]	Pass
TC02	Scan open TCP ports on VM2	192.168.10.20, rest default	List of open ports on target machine	None	Fail
TC03	Scan open TCP ports on VM2 after opening port 8080	192.192.168.10.20, rest default	[8080]	[8080]	pass

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Bugs / Issues Found

No bugs were detected.

Summary

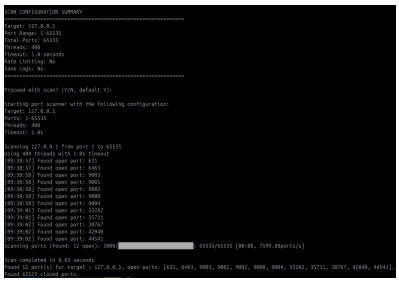
- **Total Test Cases:** 3
- **Passed:** 2
- **Failed:** 1

Conclusion:
The scanner performs as expected in identifying open ports.

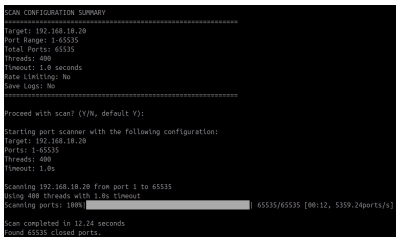
Attachments

Test screenshots :

Test Case 1:



Test Case 2:



Test Case 3: