

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.

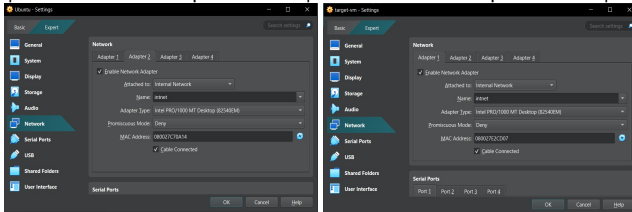
Test Environment

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

Environnement setup

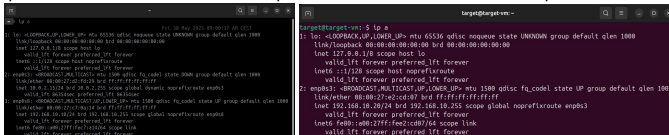
1. Setup both VM's on the same internal network

| VM1: Internal Adapter, Intnet | VM2: Internal Adapter, Intnet |



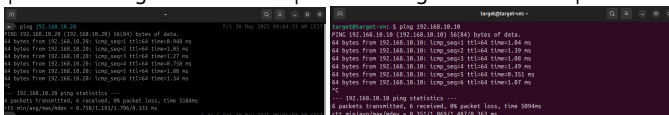
2. Assigned the VM's ip addresses on the same subnet (/24).

| ---VM1: 192.168.10.10 --- | --- VM2: 192.168.10.20 --- |

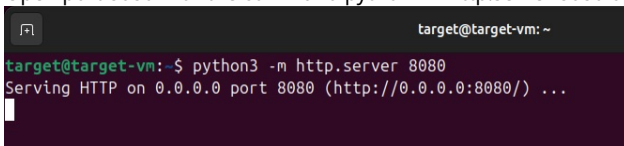


3. Pinged each other to check if they can reach each other.

| ---VM1: Ping successful --- | --- VM2: Ping successful --- |



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

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:

```

root@kali:~/# ./CONSENSUS/CONSENSUS
Target: 127.0.0.1
Port: 80515
Total: 65535
Payload: 0x
Timeout: 1.0 seconds
Hosts: 10
Send: 10000
-----
Processed with scan (726, default) 0

Starting port scanner with the following configuration:
Target: 127.0.0.1
Port: 80515
Payload: 0x
Timeout: 1.0s
Hosts: 10
Send: 10000
-----
Scanning 127.0.0.1 from port 1 to 65535
Scanning 100 ports with 10000 payload
127.0.0.1:80515 Found open port: 431
127.0.0.1:80515 Found open port: 432
127.0.0.1:80515 Found open port: 9001
127.0.0.1:80515 Found open port: 9002
127.0.0.1:80515 Found open port: 9003
127.0.0.1:80515 Found open port: 9004
127.0.0.1:80515 Found open port: 33060
127.0.0.1:80515 Found open port: 33711
127.0.0.1:80515 Found open port: 33767
127.0.0.1:80515 Found open port: 42044
127.0.0.1:80515 Found open port: 44444
127.0.0.1:80515 Found (2 open) 100%
-----
65535/100 (0.00, 739.94sec) 0x
-----
Hosts completed for 127.0.0.1
Scanning 12 ports (127.0.0.1, open ports: [21, 41, 61, 81, 101, 121, 141, 161, 181, 201, 221, 241, 261, 281, 301, 321, 341, 361, 381, 401, 421, 441, 461, 481, 501, 521, 541, 561, 581, 601, 621, 641, 661, 681, 701, 721, 741, 761, 781, 801, 821, 841, 861, 881, 901, 921, 941, 961, 981, 1001, 1021, 1041, 1061, 1081, 1101, 1121, 1141, 1161, 1181, 1201, 1221, 1241, 1261, 1281, 1301, 1321, 1341, 1361, 1381, 1401, 1421, 1441, 1461, 1481, 1501, 1521, 1541, 1561, 1581, 1601, 1621, 1641, 1661, 1681, 1701, 1721, 1741, 1761, 1781, 1801, 1821, 1841, 1861, 1881, 1901, 1921, 1941, 1961, 1981, 2001, 2021, 2041, 2061, 2081, 2101, 2121, 2141, 2161, 2181, 2201, 2221, 2241, 2261, 2281, 2301, 2321, 2341, 2361, 2381, 2401, 2421, 2441, 2461, 2481, 2501, 2521, 2541, 2561, 2581, 2601, 2621, 2641, 2661, 2681, 2701, 2721, 2741, 2761, 2781, 2801, 2821, 2841, 2861, 2881, 2901, 2921, 2941, 2961, 2981, 3001, 3021, 3041, 3061, 3081, 3101, 3121, 3141, 3161, 3181, 3201, 3221, 3241, 3261, 3281, 3301, 3321, 3341, 3361, 3381, 3401, 3421, 3441, 3461, 3481, 3501, 3521, 3541, 3561, 3581, 3601, 3621, 3641, 3661, 3681, 3701, 3721, 3741, 3761, 3781, 3801, 3821, 3841, 3861, 3881, 3901, 3921, 3941, 3961, 3981, 4001, 4021, 4041, 4061, 4081, 4101, 4121, 4141, 4161, 4181, 4201, 4221, 4241, 4261, 4281, 4301, 4321, 4341, 4361, 4381, 4401, 4421, 4441, 4461, 4481, 4501, 4521, 4541, 4561, 4581, 4601, 4621, 4641, 4661, 4681, 4701, 4721, 4741, 4761, 4781, 4801, 4821, 4841, 4861, 4881, 4901, 4921, 4941, 4961, 4981, 5001, 5021, 5041, 5061, 5081, 5101, 5121, 5141, 5161, 5181, 5201, 5221, 5241, 5261, 5281, 5301, 5321, 5341, 5361, 5381, 5401, 5421, 5441, 5461, 5481, 5501, 5521, 5541, 5561, 5581, 5601, 5621, 5641, 5661, 5681, 5701, 5721, 5741, 5761, 5781, 5801, 5821, 5841, 5861, 5881, 5901, 5921, 5941, 5961, 5981, 6001, 6021, 6041, 6061, 6081, 6101, 6121, 6141, 6161, 6181, 6201, 6221, 6241, 6261, 6281, 6301, 6321, 6341, 6361, 6381, 6401, 6421, 6441, 6461, 6481, 6501, 6521, 6541, 6561, 6581, 6601, 6621, 6641, 6661, 6681, 6701, 6721, 6741, 6761, 6781, 6801, 6821, 6841, 6861, 6881, 6901, 6921, 6941, 6961, 6981, 7001, 7021, 7041, 7061, 7081, 7101, 7121, 7141, 7161, 7181, 7201, 7221, 7241, 7261, 7281, 7301, 7321, 7341, 7361, 7381, 7401, 7421, 7441, 7461, 7481, 7501, 7521, 7541, 7561, 7581, 7601, 7621, 7641, 7661, 7681, 7701, 7721, 7741, 7761, 7781, 7801, 7821, 7841, 7861, 7881, 7901, 7921, 7941, 7961, 7981, 8001, 8021, 8041, 8061, 8081, 8101, 8121, 8141, 8161, 8181, 8201, 8221, 8241, 8261, 8281, 8301, 8321, 8341, 8361, 8381, 8401, 8421, 8441, 8461, 8481, 8501, 8521, 8541, 8561, 8581, 8601, 8621, 8641, 8661, 8681, 8701, 8721, 8741, 8761, 8781, 8801, 8821, 8841, 8861, 8881, 8901, 8921, 8941, 8961, 8981, 9001, 9021, 9041, 9061, 9081, 9101, 9121, 9141, 9161, 9181, 9201, 9221, 9241, 9261, 9281, 9301, 9321, 9341, 9361, 9381, 9401, 9421, 9441, 9461, 9481, 9501, 9521, 9541, 9561, 9581, 9601, 9621, 9641, 9661, 9681, 9701, 9721, 9741, 9761, 9781, 9801, 9821, 9841, 9861, 9881, 9901, 9921, 9941, 9961, 9981, 10001, 10021, 10041, 10061, 10081, 10101, 10121, 10141, 10161, 10181, 10201, 10221, 10241, 10261, 10281, 10301, 10321, 10341, 10361, 10381, 10401, 10421, 10441, 10461, 10481, 10501, 10521, 10541, 10561, 10581, 10601, 10621, 10641, 10661, 10681, 10701, 10721, 10741, 10761, 10781, 10801, 10821, 10841, 10861, 10881, 10901, 10921, 10941, 10961, 10981, 11001, 11021, 11041, 11061, 11081, 11101, 11121, 11141, 11161, 11181, 11201, 11221, 11241, 11261, 11281, 11301, 11321, 11341, 11361, 11381, 11401, 11421, 11441, 11461, 11481, 11501, 11521, 11541, 11561, 11581, 11601, 11621, 11641, 11661
```

Test Case 2:

```
===== CONFIGURATION SUMMARY =====  
Target: 192.168.10.20  
Port Range: 1-65535  
Total Ports: 65535  
Threads: 400  
Rate Limiting: No  
Scan Delay: 0.0 seconds  
Queue Length: No  
Scan Logic: No  
=====
```

Proceed with scan? [Y/N, default Y]:

Starting port scanner with the following configuration:
Target: 192.168.10.20
Ports: 1-65535
Threads: 400
Timeout: 1.0s

Scanning 192.168.10.20 from port 1 to 65535
Using 400 threads with 1.0s timeout
Scanning ports: 100%

Scan completed in 12.24 seconds

Test Case 3:

```

root@kali:~# python3 configuration.py
=====
Target: 192.168.18.20
Port Range: 1-65535
Initial Ports: 65535
Threads: 400
Timeout: 1/8 seconds
Rate Limiting: No
Save Logs: No
=====

Proceed with scan? (Y/N, default Y):
Starting port scanner with the following configuration:
Target: 192.168.18.20
Port Range: 1-65535
Threads: 400
Timeout: 1/8s
Scanning 192.168.18.20 from port 1 to 65535
Using 400 threads with 1/8s timeout
[09:40:48] Found open ports: 8080
Scanning ports (Found: 1 open): 100%
65535/65535 [00:11, 4997.4ports/s]

Scan completed in 11.12 seconds
Found 1 ports for Target = 192.168.18.20, open ports: [8080].
=====
192.168.18.20: 8080
=====

```