Scan Report

July 31, 2022

Summary

This document reports on the results of an automatic security scan. All dates are displayed using the timezone "Coordinated Universal Time", which is abbreviated "UTC". The task was "Douglas Roberts". The scan started at Sun Jul 31 21:34:27 2022 UTC and ended at Sun Jul 31 21:37:26 2022 UTC. The report first summarises the results found. Then, for each host, the report describes every issue found. Please consider the advice given in each description, in order to rectify the issue.

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1 Result Overview

Host	High	Medium	Low	Log	False Positive
10.10.1.3	3	1	1	0	0
Total: 1	3	1	1	0	0

Vendor security updates are not trusted.
Overrides are off. Even when a result has an override, this report uses the actual threat of the result.
Information on overrides is included in the report.
Notes are included in the report.
This report might not show details of all issues that were found.
Issues with the threat level "Log" are not shown.
Issues with the threat level "Debug" are not shown.
Issues with the threat level "False Positive" are not shown.
Only results with a minimum QoD of 70 are shown.

This report contains all 5 results selected by the filtering described above. Before filtering there were 17 results.

2 Results per Host

2.1 10.10.1.3

Host scan start	Sun Jul 31 21:34:54 2022 UTC
Host scan end	Sun Jul 31 21:37:20 2022 UTC

Service (Port)	Threat Level
general/tcp	High
445/tcp	High
135/tcp	Medium
general/tcp	Low

2.1.1 High general/tcp

High (CVSS: 10.0)
NVT: OS End Of Life Detection

Product detection result
cpe:/o:microsoft:windows_7:-:-:
Detected by OS Detection Consolidation and Reporting (OID: 1.3.6.1.4.1.25623.1.0
↪.105937)

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Summary
OS End Of Life Detection.
The Operating System on the remote host has reached the end of life and should not be used anymore.

Vulnerability Detection Result
```
The "Windows 7" Operating System on the remote host has reached the end of life.
CPE:                cpe:/o:microsoft:windows_7:-:-:
EOL date:           2013-04-09
EOL info:           https://support.microsoft.com/en-us/lifecycle/search?sort=PN&
↪alpha=Windows%207&Filter=FilterNO
```

Solution:
Solution type: Mitigation
Upgrade the Operating System on the remote host to a version which is still supported and receiving security updates by the vendor.

Vulnerability Detection Method
Details: `OS End Of Life Detection`
OID:1.3.6.1.4.1.25623.1.0.103674
Version used: `2021-04-16T10:39:13Z`

Product Detection Result
Product: `cpe:/o:microsoft:windows_7:-:-:`
Method: `OS Detection Consolidation and Reporting`
OID: 1.3.6.1.4.1.25623.1.0.105937)

[return to 10.10.1.3]

2.1.2 High 445/tcp

High (CVSS: 10.0)
NVT: Microsoft Windows SMB Server NTLM Multiple Vulnerabilities (971468)

Summary
This host is missing a critical security update according to Microsoft Bulletin MS10-012.

Vulnerability Detection Result
Vulnerability was detected according to the Vulnerability Detection Method.

Impact
Successful exploitation will allow remote attackers to execute arbitrary code or cause a denial of service or bypass the authentication mechanism via brute force technique.

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Solution:
Solution type: VendorFix
The vendor has released updates. Please see the references for more information.

Affected Software/OS
- Microsoft Windows 7
- Microsoft Windows 2000 Service Pack and prior
- Microsoft Windows XP Service Pack 3 and prior
- Microsoft Windows Vista Service Pack 2 and prior
- Microsoft Windows Server 2003 Service Pack 2 and prior
- Microsoft Windows Server 2008 Service Pack 2 and prior

Vulnerability Insight
- An input validation error exists while processing SMB requests and can be exploited to cause a buffer overflow via a specially crafted SMB packet.
- An error exists in the SMB implementation while parsing SMB packets during the Negotiate phase causing memory corruption via a specially crafted SMB packet.
- NULL pointer dereference error exists in SMB while verifying the 'share' and 'servername' fields in SMB packets causing denial of service.
- A lack of cryptographic entropy when the SMB server generates challenges during SMB NTLM authentication and can be exploited to bypass the authentication mechanism.

Vulnerability Detection Method
Details: `Microsoft Windows SMB Server NTLM Multiple Vulnerabilities (971468)`
OID:1.3.6.1.4.1.25623.1.0.902269
Version used: `2021-09-01T09:31:49Z`

References
`cve: CVE-2010-0020`
`cve: CVE-2010-0021`
`cve: CVE-2010-0022`
`cve: CVE-2010-0231`
`url: http://support.microsoft.com/kb/971468`
`url: http://www.vupen.com/english/advisories/2010/0345`
`url: https://docs.microsoft.com/en-us/security-updates/securitybulletins/2010/ms`
`↪10-012`
`dfn-cert: DFN-CERT-2010-0192`

High (CVSS: 8.1)
NVT: Microsoft Windows SMB Server Multiple Vulnerabilities-Remote (4013389)

Summary
This host is missing a critical security update according to Microsoft Bulletin MS17-010.

Vulnerability Detection Result

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Vulnerability was detected according to the Vulnerability Detection Method.

Impact
Successful exploitation will allow remote attackers to gain the ability to execute code on the target server, also could lead to information disclosure from the server.

Solution:
Solution type: VendorFix
The vendor has released updates. Please see the references for more information.

Affected Software/OS
- Microsoft Windows 10 x32/x64
- Microsoft Windows Server 2012
- Microsoft Windows Server 2016
- Microsoft Windows 8.1 x32/x64
- Microsoft Windows Server 2012 R2
- Microsoft Windows 7 x32/x64 Service Pack 1
- Microsoft Windows Vista x32/x64 Service Pack 2
- Microsoft Windows Server 2008 R2 x64 Service Pack 1
- Microsoft Windows Server 2008 x32/x64 Service Pack 2

Vulnerability Insight
Multiple flaws exist due to the way that the Microsoft Server Message Block 1.0 (SMBv1) server handles certain requests.

Vulnerability Detection Method
Send the crafted SMB transaction request with fid = 0 and check the response to confirm the vulnerability.
Details: `Microsoft Windows SMB Server Multiple Vulnerabilities-Remote (4013389)`
OID:1.3.6.1.4.1.25623.1.0.810676
Version used: `2021-09-14T11:01:46Z`

References
`cve: CVE-2017-0143`
`cve: CVE-2017-0144`
`cve: CVE-2017-0145`
`cve: CVE-2017-0146`
`cve: CVE-2017-0147`
`cve: CVE-2017-0148`
`bid: 96703`
`bid: 96704`
`bid: 96705`
`bid: 96707`
`bid: 96709`
`bid: 96706`
`url: https://support.microsoft.com/en-in/kb/4013078`

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```
url: https://technet.microsoft.com/library/security/MS17-010
url: https://github.com/rapid7/metasploit-framework/pull/8167/files
cert-bund: CB-K17/0435
dfn-cert: DFN-CERT-2017-0448
```

[return to 10.10.1.3]

2.1.3 Medium 135/tcp

Medium (CVSS: 5.0)
NVT: DCE/RPC and MSRPC Services Enumeration Reporting

Summary
Distributed Computing Environment / Remote Procedure Calls (DCE/RPC) or MSRPC services running on the remote host can be enumerated by connecting on port 135 and doing the appropriate queries.

Vulnerability Detection Result

```
Here is the list of DCE/RPC or MSRPC services running on this host via the TCP p
↪rotocol:
Port: 49152/tcp
      UUID: d95afe70-a6d5-4259-822e-2c84da1ddb0d, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49152]
Port: 49153/tcp
      UUID: 06bba54a-be05-49f9-b0a0-30f790261023, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49153]
      Annotation: Security Center
      UUID: 30adc50c-5cbc-46ce-9a0e-91914789e23c, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49153]
      Annotation: NRP server endpoint
      UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d5, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49153]
      Annotation: DHCP Client LRPC Endpoint
      UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d6, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49153]
      Annotation: DHCPv6 Client LRPC Endpoint
      UUID: f6beaff7-1e19-4fbb-9f8f-b89e2018337c, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49153]
      Annotation: Event log TCPIP
Port: 49154/tcp
      UUID: 552d076a-cb29-4e44-8b6a-d15e59e2c0af, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49154]
      Annotation: IP Transition Configuration endpoint
      UUID: 86d35949-83c9-4044-b424-db363231fd0c, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49154]
      UUID: 98716d03-89ac-44c7-bb8c-285824e51c4a, version 1
```

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```
      Endpoint: ncacn_ip_tcp:10.10.1.3[49154]
      Annotation: XactSrv service
      UUID: a398e520-d59a-4bdd-aa7a-3c1e0303a511, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49154]
      Annotation: IKE/Authip API
Port: 49155/tcp
      UUID: 367abb81-9844-35f1-ad32-98f038001003, version 2
      Endpoint: ncacn_ip_tcp:10.10.1.3[49155]
Port: 49156/tcp
      UUID: 12345678-1234-abcd-ef00-0123456789ab, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49156]
      Annotation: IPSec Policy agent endpoint
      Named pipe : spoolss
      Win32 service or process : spoolsv.exe
      Description : Spooler service
      UUID: 6b5bdd1e-528c-422c-af8c-a4079be4fe48, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49156]
      Annotation: Remote Fw APIs
Port: 49157/tcp
      UUID: 12345778-1234-abcd-ef00-0123456789ac, version 1
      Endpoint: ncacn_ip_tcp:10.10.1.3[49157]
      Named pipe : lsass
      Win32 service or process : lsass.exe
      Description : SAM access
Note: DCE/RPC or MSRPC services running on this host locally were identified. Re
↪porting this list is not enabled by default due to the possible large size of
↪this list. See the script preferences to enable this reporting.
```

Impact
An attacker may use this fact to gain more knowledge about the remote host.

Solution:
Solution type: Mitigation
Filter incoming traffic to this ports.

Vulnerability Detection Method
Details: DCE/RPC and MSRPC Services Enumeration Reporting
OID:1.3.6.1.4.1.25623.1.0.10736
Version used: 2017-06-13T07:06:12Z

[return to 10.10.1.3]

2.1.4 Low general/tcp

Low (CVSS: 2.6)
NVT: TCP timestamps

Summary
The remote host implements TCP timestamps and therefore allows to compute the uptime.

Vulnerability Detection Result
```
It was detected that the host implements RFC1323/RFC7323.
The following timestamps were retrieved with a delay of 1 seconds in-between:
Packet 1: 131256
Packet 2: 131366
```

Impact
A side effect of this feature is that the uptime of the remote host can sometimes be computed.

Solution:
Solution type: Mitigation
To disable TCP timestamps on linux add the line 'net.ipv4.tcp_timestamps = 0' to /etc/sysctl.conf. Execute 'sysctl -p' to apply the settings at runtime.
To disable TCP timestamps on Windows execute 'netsh int tcp set global timestamps=disabled' Starting with Windows Server 2008 and Vista, the timestamp can not be completely disabled.
The default behavior of the TCP/IP stack on this Systems is to not use the Timestamp options when initiating TCP connections, but use them if the TCP peer that is initiating communication includes them in their synchronize (SYN) segment.
See the references for more information.

Affected Software/OS
TCP implementations that implement RFC1323/RFC7323.

Vulnerability Insight
The remote host implements TCP timestamps, as defined by RFC1323/RFC7323.

Vulnerability Detection Method
Special IP packets are forged and sent with a little delay in between to the target IP. The responses are searched for a timestamps. If found, the timestamps are reported.
Details: `TCP timestamps`
OID:1.3.6.1.4.1.25623.1.0.80091
Version used: `2020-08-24T08:40:10Z`

References
```
url: http://www.ietf.org/rfc/rfc1323.txt
url: http://www.ietf.org/rfc/rfc7323.txt
url: https://web.archive.org/web/20151213072445/http://www.microsoft.com/en-us/d
↪ownload/details.aspx?id=9152
```

[return to 10.10.1.3]

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