

# Scan Report

October 30, 2018

## 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 “scan2”. The scan started at Tue Oct 30 10:41:20 2018 UTC and ended at Tue Oct 30 11:33:40 2018 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
<a href="#">172.16.0.22</a>	4	14	1	0	0
<a href="#">172.16.0.23</a>	2	3	1	0	0
<a href="#">172.16.0.8</a>	3	8	3	0	0
<a href="#">172.16.0.16</a>	0	13	6	0	0
<a href="#">172.16.0.20</a>	0	2	1	0	0
<a href="#">172.16.0.11</a>	0	1	2	0	0
<a href="#">172.16.0.1_gateway</a>	0	0	1	0	0
<a href="#">172.16.0.21</a>	0	0	1	0	0
Total: 8	9	41	16	0	0

Vendor security updates are not trusted.

Overrides are on. When a result has an override, this report uses the threat of the override.

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.

It only lists hosts that produced issues.

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 66 results selected by the filtering described above. Before filtering there were 803 results.

### 1.1 Host Authentications

Host	Protocol	Result	Port/User
172.16.0.22	SMB	Success	Protocol SMB, Port 445, User

## 2 Results per Host

### 2.1 172.16.0.22

Host scan start Tue Oct 30 10:41:31 2018 UTC

Host scan end Tue Oct 30 11:21:30 2018 UTC

Service (Port)	Threat Level
<a href="#">80/tcp</a>	High
<a href="#">445/tcp</a>	High

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... (continued) ...

Service (Port)	Threat Level
9/tcp	High
7/tcp	Medium
135/tcp	Medium
22/tcp	Medium
17/tcp	Medium
443/tcp	Medium
3389/tcp	Medium
general/tcp	Low

### 2.1.1 High 80/tcp

High (CVSS: 10.0) NVT: MS15-034 HTTP.sys Remote Code Execution Vulnerability (remote check)
<b>Summary</b> This host is missing an important security update according to Microsoft Bulletin MS15-034.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> Successful exploitation will allow remote attackers to run arbitrary code in the context of the current user and to perform actions in the security context of the current user.
<b>Solution</b> <b>Solution type:</b> VendorFix Run Windows Update and update the listed hotfixes or download and install the hotfixes from the referenced advisory.
<b>Affected Software/OS</b> Microsoft Windows 8 x32/x64 Microsoft Windows 8.1 x32/x64 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2 Microsoft Windows Server 2008 x32/x64 Service Pack 2 and prior Microsoft Windows 7 x32/x64 Service Pack 1 and prior
<b>Vulnerability Insight</b> Flaw exists due to the HTTP protocol stack 'HTTP.sys' that is triggered when parsing HTTP requests.
<b>Vulnerability Detection Method</b> Send a special crafted HTTP GET request and check the response Details: MS15-034 HTTP.sys Remote Code Execution Vulnerability (remote check) OID:1.3.6.1.4.1.25623.1.0.105257
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Version used: \$Revision: 11872 \$
<b>References</b> CVE: CVE-2015-1635 Other: URL: <a href="https://support.microsoft.com/kb/3042553">https://support.microsoft.com/kb/3042553</a> URL: <a href="https://technet.microsoft.com/library/security/MS15-034">https://technet.microsoft.com/library/security/MS15-034</a> URL: <a href="http://pastebin.com/ypURDPc4">http://pastebin.com/ypURDPc4</a>

[\[ return to 172.16.0.22 \]](#)

### 2.1.2 High 445/tcp

High (CVSS: 9.3) NVT: Microsoft Windows SMB Server Multiple Vulnerabilities-Remote (4013389)
<b>Summary</b> This host is missing a critical security update according to Microsoft Bulletin MS17-010.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> 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.
<b>Solution</b> <b>Solution type:</b> VendorFix Run Windows Update and update the listed hotfixes or download and update mentioned hotfixes in the advisory
<b>Affected Software/OS</b> Microsoft Windows 10 x32/x64 Edition Microsoft Windows Server 2012 Edition Microsoft Windows Server 2016 Microsoft Windows 8.1 x32/x64 Edition Microsoft Windows Server 2012 R2 Edition Microsoft Windows 7 x32/x64 Edition Service Pack 1 Microsoft Windows Vista x32/x64 Edition Service Pack 2 Microsoft Windows Server 2008 R2 x64 Edition Service Pack 1 Microsoft Windows Server 2008 x32/x64 Edition Service Pack 2
<b>Vulnerability Insight</b> Multiple flaws exist due to the way that the Microsoft Server Message Block 1.0 (SMBv1) server handles certain requests.
<b>Vulnerability Detection Method</b> 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)
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OID:1.3.6.1.4.1.25623.1.0.810676 Version used: \$Revision: 11874 \$	
<b>References</b> CVE: CVE-2017-0143, CVE-2017-0144, CVE-2017-0145, CVE-2017-0146, CVE-2017-0147, ↩CVE-2017-0148 BID:96703, 96704, 96705, 96707, 96709, 96706 Other: URL:https://support.microsoft.com/en-in/kb/4013078 URL:https://technet.microsoft.com/library/security/MS17-010 URL:https://github.com/rapid7/metasploit-framework/pull/8167/files	
High (CVSS: 7.5) NVT: Microsoft Windows SMB/NETBIOS NULL Session Authentication Bypass Vulnerability	
<b>Summary</b> The host is running SMB/NETBIOS and prone to an authentication bypass vulnerability	
<b>Vulnerability Detection Result</b> It was possible to login at the share 'IPC\$' with an empty login and password.	
<b>Impact</b> Successful exploitation could allow attackers to use shares to cause the system to crash.	
<b>Solution</b> <b>Solution type:</b> WillNotFix No known solution was made available for at least one year since the disclosure of this vulnerability. Likely none will be provided anymore. General solution options are to upgrade to a newer release, disable respective features, remove the product or replace the product by another one. A workaround is to, - Disable null session login. - Remove the share. - Enable passwords on the share.	
<b>Affected Software/OS</b> Microsoft Windows 95, Microsoft Windows 98, Microsoft Windows NT. Other Windows implementations / versions might be affected as well.	
<b>Vulnerability Insight</b> The flaw is due to an SMB share, allows full access to Guest users. If the Guest account is enabled, anyone can access the computer without a valid user account or password.	
<b>Vulnerability Detection Method</b> Details: Microsoft Windows SMB/NETBIOS NULL Session Authentication Bypass Vulnerability ... continues on next page ...	

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OID:1.3.6.1.4.1.25623.1.0.801991 Version used: \$Revision: 11997 \$
<b>References</b> CVE: CVE-1999-0519 Other: URL:http://xforce.iss.net/xforce/xfdb/2 URL:http://seclab.cs.ucdavis.edu/projects/testing/vulner/38.html

[\[ return to 172.16.0.22 \]](#)

### 2.1.3 High 9/tcp

High (CVSS: 10.0) NVT: Check for Discard Service
<b>Summary</b> The remote host is running a 'discard' service. This service typically sets up a listening socket and will ignore all the data which it receives. This service is unused these days, so it is advised that you disable it.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Solution</b> <b>Solution type:</b> Mitigation - Under Unix systems, comment out the 'discard' line in /etc/inetd.conf and restart the inetd process - Under Windows systems, set the following registry key to 0 : HKLM\System\CurrentControlSet\Services\SimptTCP\Parameters\EnableTcpDiscard Then launch cmd.exe and type : net stop simptcp net start simptcp To restart the service.
<b>Vulnerability Detection Method</b> Details: Check for Discard Service OID:1.3.6.1.4.1.25623.1.0.11367 Version used: \$Revision: 11015 \$
<b>References</b> Other: URL:https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0636

[\[ return to 172.16.0.22 \]](#)

## 2.1.4 Medium 7/tcp

Medium (CVSS: 5.0) NVT: echo Service Reporting (TCP + UDP)
<b>Summary</b> An echo Service is running at this Host via TCP and/or UDP. The echo service is an Internet protocol defined in RFC 862. It was originally proposed for testing and measurement of round-trip times in IP networks. While still available on most UNIX-like operating systems, testing and measurement is now performed with the Internet Control Message Protocol (ICMP), using the applications ping and traceroute.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Solution</b> <b>Solution type:</b> Mitigation Disable the echo Service.
<b>Vulnerability Detection Method</b> Details: echo Service Reporting (TCP + UDP) OID:1.3.6.1.4.1.25623.1.0.100075 Version used: \$Revision: 12037 \$
<b>References</b> Other: URL: <a href="https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0635">https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0635</a>

[\[ return to 172.16.0.22 \]](#)

## 2.1.5 Medium 135/tcp

Medium (CVSS: 5.0) NVT: DCE/RPC and MSRPC Services Enumeration Reporting
<b>Summary</b> 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.
<b>Vulnerability Detection Result</b> Here is the list of DCE/RPC or MSRPC services running on this host via the TCP protocol: Port: 49152/tcp UUID: d95afe70-a6d5-4259-822e-2c84da1ddb0d, version 1 Endpoint: ncacn_ip_tcp:172.16.0.22[49152]
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## Port: 49153/tcp

UUID: 30adc50c-5cbc-46ce-9a0e-91914789e23c, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49153]  
 Annotation: NRP server endpoint  
 UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d5, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49153]  
 Annotation: DHCP Client LRPC Endpoint  
 UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d6, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49153]  
 Annotation: DHCPv6 Client LRPC Endpoint  
 UUID: abfb6ca3-0c5e-4734-9285-0aee72fe8d1c, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49153]  
 Annotation: Wcm Service  
 UUID: f6beaff7-1e19-4fbb-9f8f-b89e2018337c, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49153]  
 Annotation: Event log TCPIP

## Port: 49154/tcp

UUID: 1a0d010f-1c33-432c-b0f5-8cf4e8053099, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: IdSegSrv service  
 UUID: 2e6035b2-e8f1-41a7-a044-656b439c4c34, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: Proxy Manager provider server endpoint  
 UUID: 30b044a5-a225-43f0-b3a4-e060df91f9c1, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 UUID: 3a9ef155-691d-4449-8d05-09ad57031823, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 UUID: 552d076a-cb29-4e44-8b6a-d15e59e2c0af, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: IP Transition Configuration endpoint  
 UUID: 86d35949-83c9-4044-b424-db363231fd0c, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 UUID: 98716d03-89ac-44c7-bb8c-285824e51c4a, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: XactSrv service  
 UUID: a398e520-d59a-4bdd-aa7a-3c1e0303a511, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: IKE/Authip API  
 UUID: c36be077-e14b-4fe9-8abc-e856ef4f048b, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: Proxy Manager client server endpoint  
 UUID: c49a5a70-8a7f-4e70-ba16-1e8f1f193ef1, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: Adh APIs  
 UUID: c9ac6db5-82b7-4e55-ae8a-e464ed7b4277, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49154]  
 Annotation: Impl friendly name

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Port: 49155/tcp  
 UUID: 0b1c2170-5732-4e0e-8cd3-d9b16f3b84d7, version 0  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Annotation: RemoteAccessCheck  
 UUID: 12345678-1234-abcd-ef00-01234567cffb, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Named pipe : lsass  
 Win32 service or process : Netlogon  
 Description : Net Logon service  
 UUID: 12345778-1234-abcd-ef00-0123456789ab, version 0  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Named pipe : lsass  
 Win32 service or process : lsass.exe  
 Description : LSA access  
 UUID: 12345778-1234-abcd-ef00-0123456789ac, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Named pipe : lsass  
 Win32 service or process : lsass.exe  
 Description : SAM access  
 UUID: b25a52bf-e5dd-4f4a-aea6-8ca7272a0e86, version 2  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Annotation: KeyIso  
 UUID: c9ac6db5-82b7-4e55-ae8a-e464ed7b4277, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Annotation: Impl friendly name  
 UUID: e3514235-4b06-11d1-ab04-00c04fc2dcd2, version 4  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49155]  
 Annotation: MS NT Directory DRS Interface

Port: 49157/tcp  
 UUID: 0b1c2170-5732-4e0e-8cd3-d9b16f3b84d7, version 0  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49157]  
 Annotation: RemoteAccessCheck  
 UUID: 12345678-1234-abcd-ef00-01234567cffb, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49157]  
 Named pipe : lsass  
 Win32 service or process : Netlogon  
 Description : Net Logon service  
 UUID: 12345778-1234-abcd-ef00-0123456789ab, version 0  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49157]  
 Named pipe : lsass  
 Win32 service or process : lsass.exe  
 Description : LSA access  
 UUID: 12345778-1234-abcd-ef00-0123456789ac, version 1  
 Endpoint: ncacn\_ip\_tcp:172.16.0.22[49157]  
 Named pipe : lsass  
 Win32 service or process : lsass.exe  
 Description : SAM access

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UUID: b25a52bf-e5dd-4f4a-aea6-8ca7272a0e86, version 2	
Endpoint: ncacn_ip_tcp:172.16.0.22[49157]	
Annotation: KeyIso	
UUID: e3514235-4b06-11d1-ab04-00c04fc2dcd2, version 4	
Endpoint: ncacn_ip_tcp:172.16.0.22[49157]	
Annotation: MS NT Directory DRS Interface	
Port: 49158/tcp	
UUID: 0b1c2170-5732-4e0e-8cd3-d9b16f3b84d7, version 0	
Endpoint: ncacn_http:172.16.0.22[49158]	
Annotation: RemoteAccessCheck	
UUID: 12345678-1234-abcd-ef00-01234567cffb, version 1	
Endpoint: ncacn_http:172.16.0.22[49158]	
Named pipe : lsass	
Win32 service or process : Netlogon	
Description : Net Logon service	
UUID: 12345778-1234-abcd-ef00-0123456789ab, version 0	
Endpoint: ncacn_http:172.16.0.22[49158]	
Named pipe : lsass	
Win32 service or process : lsass.exe	
Description : LSA access	
UUID: b25a52bf-e5dd-4f4a-aea6-8ca7272a0e86, version 2	
Endpoint: ncacn_http:172.16.0.22[49158]	
Annotation: KeyIso	
UUID: e3514235-4b06-11d1-ab04-00c04fc2dcd2, version 4	
Endpoint: ncacn_http:172.16.0.22[49158]	
Annotation: MS NT Directory DRS Interface	
Port: 49159/tcp	
UUID: 0b6edbfa-4a24-4fc6-8a23-942b1eca65d1, version 1	
Endpoint: ncacn_ip_tcp:172.16.0.22[49159]	
UUID: 12345678-1234-abcd-ef00-0123456789ab, version 1	
Endpoint: ncacn_ip_tcp:172.16.0.22[49159]	
Named pipe : spoolss	
Win32 service or process : spoolsv.exe	
Description : Spooler service	
UUID: 4a452661-8290-4b36-8fbe-7f4093a94978, version 1	
Endpoint: ncacn_ip_tcp:172.16.0.22[49159]	
UUID: 76f03f96-cdfd-44fc-a22c-64950a001209, version 1	
Endpoint: ncacn_ip_tcp:172.16.0.22[49159]	
UUID: ae33069b-a2a8-46ee-a235-ddfd339be281, version 1	
Endpoint: ncacn_ip_tcp:172.16.0.22[49159]	
Port: 49170/tcp	
UUID: 50abc2a4-574d-40b3-9d66-ee4fd5fba076, version 5	
Endpoint: ncacn_ip_tcp:172.16.0.22[49170]	
Named pipe : dnsserver	
Win32 service or process : dns.exe	
Description : DNS Server	
Port: 49179/tcp	
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<p>UUID: 367abb81-9844-35f1-ad32-98f038001003, version 2  Endpoint: ncacn_ip_tcp:172.16.0.22[49179]  Port: 49182/tcp  UUID: 6b5bdd1e-528c-422c-af8c-a4079be4fe48, version 1  Endpoint: ncacn_ip_tcp:172.16.0.22[49182]  Annotation: Remote Fw APIs  Port: 49194/tcp  UUID: 897e2e5f-93f3-4376-9c9c-fd2277495c27, version 1  Endpoint: ncacn_ip_tcp:172.16.0.22[49194]  Annotation: Frs2 Service</p> <p>Note: DCE/RPC or MSRPC services running on this host locally were identified. Reporting this list is not enabled by default due to the possible large size of this list. See the script preferences to enable this reporting.</p>
<p><b>Impact</b>  An attacker may use this fact to gain more knowledge about the remote host.</p>
<p><b>Solution</b>  <b>Solution type:</b> Mitigation  Filter incoming traffic to this ports.</p>
<p><b>Vulnerability Detection Method</b>  Details: DCE/RPC and MSRPC Services Enumeration Reporting  OID:1.3.6.1.4.1.25623.1.0.10736  Version used: \$Revision: 6319 \$</p>

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### 2.1.6 Medium 22/tcp

<p>Medium (CVSS: 5.0)  NVT: OpenSSH 'sftp-server' Security Bypass Vulnerability (Windows)</p>
<p><b>Product detection result</b>  cpe:/a:openbsd:openssh:7.4  Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)</p>
<p><b>Summary</b>  This host is installed with openssh and is prone to security bypass vulnerability.</p>
<p><b>Vulnerability Detection Result</b>  Installed version: 7.4  Fixed version: 7.6</p>
<p><b>Impact</b>  ... continues on next page ...</p>

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Successfully exploiting this issue allows local users to bypass certain security restrictions and perform unauthorized actions. This may lead to further attacks.
<b>Solution</b> <b>Solution type:</b> VendorFix Upgrade to OpenSSH version 7.6 or later.
<b>Affected Software/OS</b> OpenSSH versions before 7.6 on Windows
<b>Vulnerability Insight</b> The flaw exists in the 'process_open' function in sftp-server.c script which does not properly prevent write operations in readonly mode.
<b>Vulnerability Detection Method</b> Checks if a vulnerable version is present on the target host. Details: OpenSSH 'sftp-server' Security Bypass Vulnerability (Windows) OID:1.3.6.1.4.1.25623.1.0.812050 Version used: \$Revision: 11983 \$
<b>Product Detection Result</b> Product: cpe:/a:openbsd:openssh:7.4 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
<b>References</b> CVE: CVE-2017-15906 BID:101552 Other: URL: <a href="https://www.openssh.com/txt/release-7.6">https://www.openssh.com/txt/release-7.6</a> URL: <a href="https://github.com/openbsd/src/commit/a6981567e8e">https://github.com/openbsd/src/commit/a6981567e8e</a> URL: <a href="http://www.openssh.com">http://www.openssh.com</a>
Medium (CVSS: 5.0) NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Windows)
<b>Product detection result</b> cpe:/a:openbsd:openssh:7.4 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
<b>Summary</b> This host is installed with openssh and is prone to user enumeration vulnerability.
<b>Vulnerability Detection Result</b> ... continues on next page ...

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<b>Installed version:</b> 7.4 <b>Fixed version:</b> NoneAvailable <b>Installation path / port:</b> 22/tcp
<b>Impact</b> Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.
<b>Solution</b> <b>Solution type:</b> NoneAvailable No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.
<b>Affected Software/OS</b> OpenSSH version 7.7 and prior on Windows.
<b>Vulnerability Insight</b> The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c
<b>Vulnerability Detection Method</b> Checks if a vulnerable version is present on the target host. Details: OpenSSH User Enumeration Vulnerability-Aug18 (Windows) OID:1.3.6.1.4.1.25623.1.0.813863 Version used: \$Revision: 12116 \$
<b>Product Detection Result</b> Product: cpe:/a:openbsd:openssh:7.4 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
<b>References</b> CVE: CVE-2018-15473 Other: URL: <a href="http://www.openssh.com">http://www.openssh.com</a> URL: <a href="https://0day.city/cve-2018-15473.html">https://0day.city/cve-2018-15473.html</a> URL: <a href="https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a">https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a</a> ↪7d1e0
Medium (CVSS: 5.0) NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Windows)
<b>Product detection result</b> cpe:/a:openbsd:openssh:7.4
... continues on next page ...

...continued from previous page...
Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
<b>Summary</b> This host is installed with openssh and is prone to user enumeration vulnerability.
<b>Vulnerability Detection Result</b> Installed version: 7.4 Fixed version:       NoneAvailable Installation path / port:        22/tcp
<b>Impact</b> Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.
<b>Solution</b> <b>Solution type:</b> NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.
<b>Affected Software/OS</b> OpenSSH version 5.9 to 7.8 on Windows.
<b>Vulnerability Insight</b> The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.
<b>Vulnerability Detection Method</b> Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Windows) OID:1.3.6.1.4.1.25623.1.0.813887 Version used: \$Revision: 12116 \$
<b>Product Detection Result</b> Product: cpe:/a:openbsd:openssh:7.4 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
<b>References</b> CVE: CVE-2018-15919 Other: URL:http://www.openssh.com URL:https://bugzilla.novell.com/show_bug.cgi?id=1106163 URL:https://seclists.org/oss-sec/2018/q3/180

[\[ return to 172.16.0.22 \]](#)

### 2.1.7 Medium 17/tcp

<p>Medium (CVSS: 5.0) NVT: Check for Quote of the day Service (TCP)</p>
<p><b>Summary</b> The quote service (qotd) is running on this host. Description : A server listens for TCP connections on TCP port 17. Once a connection is established a short message is sent out the connection (and any data received is thrown away). The service closes the connection after sending the quote.</p>
<p><b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.</p>
<p><b>Impact</b> An easy attack is 'pingpong' which IP spoofs a packet between two machines running qotd. This will cause them to spew characters at each other, slowing the machines down and saturating the network.</p>
<p><b>Solution</b> <b>Solution type:</b> Mitigation - Under Unix systems, comment out the 'qotd' line in /etc/inetd.conf and restart the inetd process - Under Windows systems, set the following registry keys to 0 : HKLM\System\CurrentControlSet\Services\SimptCP\Parameters\EnableTcpQotd HKLM\System\CurrentControlSet\Services\SimptCP\Parameters\EnableUdpQotd Then launch cmd.exe and type : net stop simptcp net start simptcp To restart the service.</p>
<p><b>Vulnerability Detection Method</b> Details: Check for Quote of the day Service (TCP) OID:1.3.6.1.4.1.25623.1.0.10198 Version used: \$Revision: 4827 \$</p>
<p><b>References</b> Other: URL:<a href="https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0103">https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0103</a></p>

[\[ return to 172.16.0.22 \]](#)

### 2.1.8 Medium 443/tcp



Medium (CVSS: 4.3) NVT: SSL/TLS: SSLv3 Protocol CBC Cipher Suites Information Disclosure Vulnerability (POODLE)
<b>Summary</b> This host is prone to an information disclosure vulnerability.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> Successful exploitation will allow a man-in-the-middle attackers gain access to the plain text data stream.
<b>Solution</b> <b>Solution type:</b> Mitigation Possible Mitigations are: - Disable SSLv3 - Disable cipher suites supporting CBC cipher modes - Enable TLS_FALLBACK_SCSV if the service is providing TLSv1.0+
<b>Vulnerability Insight</b> The flaw is due to the block cipher padding not being deterministic and not covered by the Message Authentication Code
<b>Vulnerability Detection Method</b> Evaluate previous collected information about this service. Details: SSL/TLS: SSLv3 Protocol CBC Cipher Suites Information Disclosure Vulnerability . ↪.. OID:1.3.6.1.4.1.25623.1.0.802087 Version used: \$Revision: 11402 \$
<b>References</b> CVE: CVE-2014-3566 BID:70574 Other: URL:https://www.openssl.org/~bodo/ssl-poodle.pdf URL:https://www.imperialviolet.org/2014/10/14/poodle.html URL:https://www.dfranke.us/posts/2014-10-14-how-poodle-happened.html URL:http://googleonlinesecurity.blogspot.in/2014/10/this-poodle-bites-exploit- ↪ing-ssl-30.html
Medium (CVSS: 4.3) NVT: SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection
<b>Summary</b> ... continues on next page ...

...continued from previous page ...
It was possible to detect the usage of the deprecated SSLv2 and/or SSLv3 protocol on this system.
<b>Vulnerability Detection Result</b> In addition to TLSv1.0+ the service is also providing the deprecated SSLv3 protocol and supports one or more ciphers. Those supported ciphers can be found in the 'SSL/TLS: Report Weak and Supported Ciphers' (OID: 1.3.6.1.4.1.25623.1.0.802067) NVT.
<b>Impact</b> An attacker might be able to use the known cryptographic flaws to eavesdrop the connection between clients and the service to get access to sensitive data transferred within the secured connection.
<b>Solution</b> <b>Solution type:</b> Mitigation It is recommended to disable the deprecated SSLv2 and/or SSLv3 protocols in favor of the TLSv1+ protocols. Please see the references for more information.
<b>Affected Software/OS</b> All services providing an encrypted communication using the SSLv2 and/or SSLv3 protocols.
<b>Vulnerability Insight</b> The SSLv2 and SSLv3 protocols containing known cryptographic flaws like: - Padding Oracle On Downgraded Legacy Encryption (POODLE, CVE-2014-3566) - Decrypting RSA with Obsolete and Weakened eNcryption (DROWN, CVE-2016-0800)
<b>Vulnerability Detection Method</b> Check the used protocols of the services provided by this system. Details: SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection OID:1.3.6.1.4.1.25623.1.0.111012 Version used: \$Revision: 5547 \$
<b>References</b> CVE: CVE-2016-0800, CVE-2014-3566 Other: URL: <a href="https://www.enisa.europa.eu/activities/identity-and-trust/library/deliverables/algorithms-key-sizes-and-parameters-report">https://www.enisa.europa.eu/activities/identity-and-trust/library/deliverables/algorithms-key-sizes-and-parameters-report</a> URL: <a href="https://bettercrypto.org/">https://bettercrypto.org/</a> URL: <a href="https://mozilla.github.io/server-side-tls/ssl-config-generator/">https://mozilla.github.io/server-side-tls/ssl-config-generator/</a> URL: <a href="https://drownattack.com/">https://drownattack.com/</a> URL: <a href="https://www.imperialviolet.org/2014/10/14/poodle.html">https://www.imperialviolet.org/2014/10/14/poodle.html</a>
Medium (CVSS: 4.3) NVT: SSL/TLS: Report Weak Cipher Suites
... continues on next page ...

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**Summary**

This routine reports all Weak SSL/TLS cipher suites accepted by a service.

NOTE: No severity for SMTP services with 'Opportunistic TLS' and weak cipher suites on port 25/tcp is reported. If too strong cipher suites are configured for this service the alternative would be to fall back to an even more insecure cleartext communication.

**Vulnerability Detection Result**

'Weak' cipher suites accepted by this service via the SSLv3 protocol:

TLS\_RSA\_WITH\_RC4\_128\_MD5

TLS\_RSA\_WITH\_RC4\_128\_SHA

'Weak' cipher suites accepted by this service via the TLSv1.0 protocol:

TLS\_RSA\_WITH\_RC4\_128\_MD5

TLS\_RSA\_WITH\_RC4\_128\_SHA

'Weak' cipher suites accepted by this service via the TLSv1.1 protocol:

TLS\_RSA\_WITH\_RC4\_128\_MD5

TLS\_RSA\_WITH\_RC4\_128\_SHA

'Weak' cipher suites accepted by this service via the TLSv1.2 protocol:

TLS\_RSA\_WITH\_RC4\_128\_MD5

TLS\_RSA\_WITH\_RC4\_128\_SHA

**Solution**

**Solution type:** Mitigation

The configuration of this services should be changed so that it does not accept the listed weak cipher suites anymore.

Please see the references for more resources supporting you with this task.

**Vulnerability Insight**

These rules are applied for the evaluation of the cryptographic strength:

- RC4 is considered to be weak (CVE-2013-2566, CVE-2015-2808).
- Ciphers using 64 bit or less are considered to be vulnerable to brute force methods and therefore considered as weak (CVE-2015-4000).
- 1024 bit RSA authentication is considered to be insecure and therefore as weak.
- Any cipher considered to be secure for only the next 10 years is considered as medium
- Any other cipher is considered as strong

**Vulnerability Detection Method**

Details: SSL/TLS: Report Weak Cipher Suites

OID:1.3.6.1.4.1.25623.1.0.103440

Version used: \$Revision: 11135 \$

**References**

CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000

Other:

URL:[https://www.bsi.bund.de/SharedDocs/Warntmeldungen/DE/CB/warntmeldung\\_cb-k16-1465\\_update\\_6.html](https://www.bsi.bund.de/SharedDocs/Warntmeldungen/DE/CB/warntmeldung_cb-k16-1465_update_6.html)

URL:<https://bettercrypto.org/>

URL:<https://mozilla.github.io/server-side-tls/ssl-config-generator/>

Medium (CVSS: 4.0) NVT: SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability
<b>Summary</b> The SSL/TLS service uses Diffie-Hellman groups with insufficient strength (key size < 2048).
<b>Vulnerability Detection Result</b> Server Temporary Key Size: 1024 bits
<b>Impact</b> An attacker might be able to decrypt the SSL/TLS communication offline.
<b>Solution</b> <b>Solution type:</b> Workaround Deploy (Ephemeral) Elliptic-Curve Diffie-Hellman (ECDHE) or use a 2048-bit or stronger Diffie-Hellman group. (see <a href="https://weakdh.org/sysadmin.html">https://weakdh.org/sysadmin.html</a> ). For Apache Web Servers: Beginning with version 2.4.7, mod_ssl will use DH parameters which include primes with lengths of more than 1024 bits.
<b>Vulnerability Insight</b> The Diffie-Hellman group are some big numbers that are used as base for the DH computations. They can be, and often are, fixed. The security of the final secret depends on the size of these parameters. It was found that 512 and 768 bits to be weak, 1024 bits to be breakable by really powerful attackers like governments.
<b>Vulnerability Detection Method</b> Checks the DHE temporary public key size. Details: SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability. ↪... OID:1.3.6.1.4.1.25623.1.0.106223 Version used: \$Revision: 11524 \$
<b>References</b> Other: URL: <a href="https://weakdh.org/">https://weakdh.org/</a> URL: <a href="https://weakdh.org/sysadmin.html">https://weakdh.org/sysadmin.html</a>

Medium (CVSS: 4.0) NVT: SSL/TLS: Certificate Signed Using A Weak Signature Algorithm
<b>Summary</b> The remote service is using a SSL/TLS certificate in the certificate chain that has been signed using a cryptographically weak hashing algorithm.
<b>Vulnerability Detection Result</b> The following certificates are part of the certificate chain but using insecure ↪signature algorithms:
... continues on next page ...

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<b>Subject:</b>	CN=GRU
<b>Signature Algorithm:</b>	sha1WithRSAEncryption
<b>Solution</b> <b>Solution type:</b> Mitigation Servers that use SSL/TLS certificates signed with a weak SHA-1, MD5, MD4 or MD2 hashing algorithm will need to obtain new SHA-2 signed SSL/TLS certificates to avoid web browser SSL/TLS certificate warnings.	
<b>Vulnerability Insight</b> The following hashing algorithms used for signing SSL/TLS certificates are considered cryptographically weak and not secure enough for ongoing use: - Secure Hash Algorithm 1 (SHA-1) - Message Digest 5 (MD5) - Message Digest 4 (MD4) - Message Digest 2 (MD2) Beginning as late as January 2017 and as early as June 2016, browser developers such as Microsoft and Google will begin warning users when visiting web sites that use SHA-1 signed Secure Socket Layer (SSL) certificates. NOTE: The script preference allows to set one or more custom SHA-1 fingerprints of CA certificates which are trusted by this routine. The fingerprints needs to be passed comma-separated and case-insensitive: Fingerprint1 or fingerprint1,Fingerprint2	
<b>Vulnerability Detection Method</b> Check which hashing algorithm was used to sign the remote SSL/TLS certificate. Details: SSL/TLS: Certificate Signed Using A Weak Signature Algorithm OID:1.3.6.1.4.1.25623.1.0.105880 Version used: \$Revision: 8810 \$	
<b>References</b> <b>Other:</b> URL: <a href="https://blog.mozilla.org/security/2014/09/23/phasing-out-certificates-with-sha-1-based-signature-algorithms/">https://blog.mozilla.org/security/2014/09/23/phasing-out-certificates-with-sha-1-based-signature-algorithms/</a>	

[\[ return to 172.16.0.22 \]](#)

### 2.1.9 Medium 3389/tcp

Medium (CVSS: 4.3)
NVT: SSL/TLS: Report Weak Cipher Suites
<b>Summary</b> This routine reports all Weak SSL/TLS cipher suites accepted by a service. ... continues on next page ...

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NOTE: No severity for SMTP services with 'Opportunistic TLS' and weak cipher suites on port 25/tcp is reported. If too strong cipher suites are configured for this service the alternative would be to fall back to an even more insecure cleartext communication.
<b>Vulnerability Detection Result</b> 'Weak' cipher suites accepted by this service via the TLSv1.0 protocol: TLS_RSA_WITH_RC4_128_MD5 TLS_RSA_WITH_RC4_128_SHA 'Weak' cipher suites accepted by this service via the TLSv1.1 protocol: TLS_RSA_WITH_RC4_128_MD5 TLS_RSA_WITH_RC4_128_SHA 'Weak' cipher suites accepted by this service via the TLSv1.2 protocol: TLS_RSA_WITH_RC4_128_MD5 TLS_RSA_WITH_RC4_128_SHA
<b>Solution</b> <b>Solution type:</b> Mitigation The configuration of this services should be changed so that it does not accept the listed weak cipher suites anymore. Please see the references for more resources supporting you with this task.
<b>Vulnerability Insight</b> These rules are applied for the evaluation of the cryptographic strength: - RC4 is considered to be weak (CVE-2013-2566, CVE-2015-2808). - Ciphers using 64 bit or less are considered to be vulnerable to brute force methods and therefore considered as weak (CVE-2015-4000). - 1024 bit RSA authentication is considered to be insecure and therefore as weak. - Any cipher considered to be secure for only the next 10 years is considered as medium - Any other cipher is considered as strong
<b>Vulnerability Detection Method</b> Details: SSL/TLS: Report Weak Cipher Suites OID:1.3.6.1.4.1.25623.1.0.103440 Version used: \$Revision: 11135 \$
<b>References</b> CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000 Other: URL: <a href="https://www.bsi.bund.de/SharedDocs/Warntmeldungen/DE/CB/warntmeldung_cb-k16-1465_update_6.html">https://www.bsi.bund.de/SharedDocs/Warntmeldungen/DE/CB/warntmeldung_cb-k16-1465_update_6.html</a> URL: <a href="https://bettercrypto.org/">https://bettercrypto.org/</a> URL: <a href="https://mozilla.github.io/server-side-tls/ssl-config-generator/">https://mozilla.github.io/server-side-tls/ssl-config-generator/</a>
Medium (CVSS: 4.0) NVT: SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability
<b>Summary</b> ... continues on next page ...

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The SSL/TLS service uses Diffie-Hellman groups with insufficient strength (key size < 2048).
<b>Vulnerability Detection Result</b> Server Temporary Key Size: 1024 bits
<b>Impact</b> An attacker might be able to decrypt the SSL/TLS communication offline.
<b>Solution</b> <b>Solution type:</b> Workaround Deploy (Ephemeral) Elliptic-Curve Diffie-Hellman (ECDHE) or use a 2048-bit or stronger Diffie-Hellman group. (see <a href="https://weakdh.org/sysadmin.html">https://weakdh.org/sysadmin.html</a> ). For Apache Web Servers: Beginning with version 2.4.7, mod_ssl will use DH parameters which include primes with lengths of more than 1024 bits.
<b>Vulnerability Insight</b> The Diffie-Hellman group are some big numbers that are used as base for the DH computations. They can be, and often are, fixed. The security of the final secret depends on the size of these parameters. It was found that 512 and 768 bits to be weak, 1024 bits to be breakable by really powerful attackers like governments.
<b>Vulnerability Detection Method</b> Checks the DHE temporary public key size. Details: SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability. ↪... OID:1.3.6.1.4.1.25623.1.0.106223 Version used: \$Revision: 11524 \$
<b>References</b> Other: URL: <a href="https://weakdh.org/">https://weakdh.org/</a> URL: <a href="https://weakdh.org/sysadmin.html">https://weakdh.org/sysadmin.html</a>
Medium (CVSS: 4.0) NVT: SSL/TLS: Certificate Signed Using A Weak Signature Algorithm
<b>Summary</b> The remote service is using a SSL/TLS certificate in the certificate chain that has been signed using a cryptographically weak hashing algorithm.
<b>Vulnerability Detection Result</b> The following certificates are part of the certificate chain but using insecure ↪signature algorithms: Subject: CN=GRU.minions.galactic Signature Algorithm: sha1WithRSAEncryption
... continues on next page ...

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**Solution****Solution type:** Mitigation

Servers that use SSL/TLS certificates signed with a weak SHA-1, MD5, MD4 or MD2 hashing algorithm will need to obtain new SHA-2 signed SSL/TLS certificates to avoid web browser SSL/TLS certificate warnings.

**Vulnerability Insight**

The following hashing algorithms used for signing SSL/TLS certificates are considered cryptographically weak and not secure enough for ongoing use:

- Secure Hash Algorithm 1 (SHA-1)
- Message Digest 5 (MD5)
- Message Digest 4 (MD4)
- Message Digest 2 (MD2)

Beginning as late as January 2017 and as early as June 2016, browser developers such as Microsoft and Google will begin warning users when visiting web sites that use SHA-1 signed Secure Socket Layer (SSL) certificates.

NOTE: The script preference allows to set one or more custom SHA-1 fingerprints of CA certificates which are trusted by this routine. The fingerprints needs to be passed comma-separated and case-insensitive:

Fingerprint1

or

fingerprint1,Fingerprint2

**Vulnerability Detection Method**

Check which hashing algorithm was used to sign the remote SSL/TLS certificate.

Details: SSL/TLS: Certificate Signed Using A Weak Signature Algorithm

OID:1.3.6.1.4.1.25623.1.0.105880

Version used: \$Revision: 8810 \$

**References**

Other:

URL:<https://blog.mozilla.org/security/2014/09/23/phasing-out-certificates-with-sha-1-based-signature-algorithms/>

[\[ return to 172.16.0.22 \]](#)

**2.1.10 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.

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<p>The following timestamps were retrieved with a delay of 1 seconds in-between:</p> <p>Packet 1: 3302404</p> <p>Packet 2: 3302508</p>	
<p><b>Impact</b></p> <p>A side effect of this feature is that the uptime of the remote host can sometimes be computed.</p>	
<p><b>Solution</b></p> <p><b>Solution type:</b> Mitigation</p> <p>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.</p> <p>To disable TCP timestamps on Windows execute 'netsh int tcp set global timestamps=disabled'</p> <p>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.</p> <p>See also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a></p>	
<p><b>Affected Software/OS</b></p> <p>TCP/IPv4 implementations that implement RFC1323.</p>	
<p><b>Vulnerability Insight</b></p> <p>The remote host implements TCP timestamps, as defined by RFC1323.</p>	
<p><b>Vulnerability Detection Method</b></p> <p>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.</p> <p>Details: TCP timestamps</p> <p>OID:1.3.6.1.4.1.25623.1.0.80091</p> <p>Version used: \$Revision: 10411 \$</p>	
<p><b>References</b></p> <p>Other:</p> <p>URL:<a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a></p>	

[ [return to 172.16.0.22](#) ]

## 2.2 172.16.0.23

Host scan start Tue Oct 30 10:41:31 2018 UTC  
 Host scan end Tue Oct 30 11:00:13 2018 UTC

Service (Port)	Threat Level
<a href="#">445/tcp</a>	High
<a href="#">general/tcp</a>	High
<a href="#">135/tcp</a>	Medium

... (continues) ...

... (continued) ...

Service (Port)	Threat Level
3389/tcp	Medium
general/tcp	Low

### 2.2.1 High 445/tcp

High (CVSS: 9.3) NVT: Microsoft Windows SMB Server Multiple Vulnerabilities-Remote (4013389)
<b>Summary</b> This host is missing a critical security update according to Microsoft Bulletin MS17-010.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> 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.
<b>Solution</b> <b>Solution type:</b> VendorFix Run Windows Update and update the listed hotfixes or download and update mentioned hotfixes in the advisory
<b>Affected Software/OS</b> Microsoft Windows 10 x32/x64 Edition Microsoft Windows Server 2012 Edition Microsoft Windows Server 2016 Microsoft Windows 8.1 x32/x64 Edition Microsoft Windows Server 2012 R2 Edition Microsoft Windows 7 x32/x64 Edition Service Pack 1 Microsoft Windows Vista x32/x64 Edition Service Pack 2 Microsoft Windows Server 2008 R2 x64 Edition Service Pack 1 Microsoft Windows Server 2008 x32/x64 Edition Service Pack 2
<b>Vulnerability Insight</b> Multiple flaws exist due to the way that the Microsoft Server Message Block 1.0 (SMBv1) server handles certain requests.
<b>Vulnerability Detection Method</b> 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: \$Revision: 11874 \$
<b>References</b> CVE: CVE-2017-0143, CVE-2017-0144, CVE-2017-0145, CVE-2017-0146, CVE-2017-0147, ↪ CVE-2017-0148 BID: 96703, 96704, 96705, 96707, 96709, 96706 ... continues on next page ...

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**Other:**URL: <https://support.microsoft.com/en-in/kb/4013078>URL: <https://technet.microsoft.com/library/security/MS17-010>URL: <https://github.com/rapid7/metasploit-framework/pull/8167/files>[\[ return to 172.16.0.23 \]](#)**2.2.2 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)**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](https://support.microsoft.com/en-us/lifecycle/search?sort=PN&↪alpha=Windows%207&Filter=FilterNO)**Solution****Solution type:** Mitigation**Vulnerability Detection Method**

Details: OS End Of Life Detection

OID: 1.3.6.1.4.1.25623.1.0.103674

Version used: \$Revision: 8927 \$

**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)

[\[ return to 172.16.0.23 \]](#)

## 2.2.3 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 protocol:

Port: 49152/tcp

UUID: d95afe70-a6d5-4259-822e-2c84da1ddb0d, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49152]

Port: 49153/tcp

UUID: 06bba54a-be05-49f9-b0a0-30f790261023, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49153]

Annotation: Security Center

UUID: 30adc50c-5cbc-46ce-9a0e-91914789e23c, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49153]

Annotation: NRP server endpoint

UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d5, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49153]

Annotation: DHCP Client LRPC Endpoint

UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d6, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49153]

Annotation: DHCPv6 Client LRPC Endpoint

UUID: f6beaff7-1e19-4fbb-9f8f-b89e2018337c, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49153]

Annotation: Event log TCPIP

Port: 49154/tcp

UUID: 30b044a5-a225-43f0-b3a4-e060df91f9c1, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49154]

UUID: 552d076a-cb29-4e44-8b6a-d15e59e2c0af, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49154]

Annotation: IP Transition Configuration endpoint

UUID: 86d35949-83c9-4044-b424-db363231fd0c, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49154]

UUID: 98716d03-89ac-44c7-bb8c-285824e51c4a, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49154]

Annotation: XactSrv service

UUID: a398e520-d59a-4bdd-aa7a-3c1e0303a511, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49154]

Annotation: IKE/Authip API

UUID: c9ac6db5-82b7-4e55-ae8a-e464ed7b4277, version 1

Endpoint: ncacn\_ip\_tcp:172.16.0.23[49154]

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Annotation: Impl friendly name	
Port: 49155/tcp	
UUID: 367abb81-9844-35f1-ad32-98f038001003, version 2	
Endpoint: ncacn_ip_tcp:172.16.0.23[49155]	
Port: 49156/tcp	
UUID: 12345778-1234-abcd-ef00-0123456789ac, version 1	
Endpoint: ncacn_ip_tcp:172.16.0.23[49156]	
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. Reporting this list is not enabled by default due to the possible large size of this list. See the script preferences to enable this reporting.	
<b>Impact</b> An attacker may use this fact to gain more knowledge about the remote host.	
<b>Solution</b> <b>Solution type:</b> Mitigation Filter incoming traffic to this ports.	
<b>Vulnerability Detection Method</b> Details: DCE/RPC and MSRPC Services Enumeration Reporting OID:1.3.6.1.4.1.25623.1.0.10736 Version used: \$Revision: 6319 \$	

[\[ return to 172.16.0.23 \]](#)

### 2.2.4 Medium 3389/tcp

Medium (CVSS: 4.3)	
NVT: SSL/TLS: Report Weak Cipher Suites	
<b>Summary</b> This routine reports all Weak SSL/TLS cipher suites accepted by a service. NOTE: No severity for SMTP services with 'Opportunistic TLS' and weak cipher suites on port 25/tcp is reported. If too strong cipher suites are configured for this service the alternative would be to fall back to an even more insecure cleartext communication.	
<b>Vulnerability Detection Result</b> 'Weak' cipher suites accepted by this service via the TLSv1.0 protocol: TLS_RSA_WITH_RC4_128_MD5 TLS_RSA_WITH_RC4_128_SHA	
<b>Solution</b> <b>Solution type:</b> Mitigation	
... continues on next page ...	

...continued from previous page ...
<p>The configuration of this services should be changed so that it does not accept the listed weak cipher suites anymore.</p> <p>Please see the references for more resources supporting you with this task.</p>
<p><b>Vulnerability Insight</b></p> <p>These rules are applied for the evaluation of the cryptographic strength:</p> <ul style="list-style-type: none"> <li>- RC4 is considered to be weak (CVE-2013-2566, CVE-2015-2808).</li> <li>- Ciphers using 64 bit or less are considered to be vulnerable to brute force methods and therefore considered as weak (CVE-2015-4000).</li> <li>- 1024 bit RSA authentication is considered to be insecure and therefore as weak.</li> <li>- Any cipher considered to be secure for only the next 10 years is considered as medium</li> <li>- Any other cipher is considered as strong</li> </ul>
<p><b>Vulnerability Detection Method</b></p> <p>Details: SSL/TLS: Report Weak Cipher Suites</p> <p>OID:1.3.6.1.4.1.25623.1.0.103440</p> <p>Version used: \$Revision: 11135 \$</p>
<p><b>References</b></p> <p>CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000</p> <p>Other:</p> <p>URL:<a href="https://www.bsi.bund.de/SharedDocs/Warnmeldungen/DE/CB/warnmeldung_cb-k16-1465_update_6.html">https://www.bsi.bund.de/SharedDocs/Warnmeldungen/DE/CB/warnmeldung_cb-k16-1465_update_6.html</a></p> <p>URL:<a href="https://bettercrypto.org/">https://bettercrypto.org/</a></p> <p>URL:<a href="https://mozilla.github.io/server-side-tls/ssl-config-generator/">https://mozilla.github.io/server-side-tls/ssl-config-generator/</a></p>
<p>Medium (CVSS: 4.0)</p> <p>NVT: SSL/TLS: Certificate Signed Using A Weak Signature Algorithm</p>
<p><b>Summary</b></p> <p>The remote service is using a SSL/TLS certificate in the certificate chain that has been signed using a cryptographically weak hashing algorithm.</p>
<p><b>Vulnerability Detection Result</b></p> <p>The following certificates are part of the certificate chain but using insecure ↪signature algorithms:</p> <p>Subject: CN=PC-helen.jerry.land</p> <p>Signature Algorithm: sha1WithRSAEncryption</p>
<p><b>Solution</b></p> <p><b>Solution type:</b> Mitigation</p> <p>Servers that use SSL/TLS certificates signed with a weak SHA-1, MD5, MD4 or MD2 hashing algorithm will need to obtain new SHA-2 signed SSL/TLS certificates to avoid web browser SSL/TLS certificate warnings.</p>
<p><b>Vulnerability Insight</b></p> <p>... continues on next page ...</p>

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<p>The following hashing algorithms used for signing SSL/TLS certificates are considered cryptographically weak and not secure enough for ongoing use:</p> <ul style="list-style-type: none"> <li>- Secure Hash Algorithm 1 (SHA-1)</li> <li>- Message Digest 5 (MD5)</li> <li>- Message Digest 4 (MD4)</li> <li>- Message Digest 2 (MD2)</li> </ul> <p>Beginning as late as January 2017 and as early as June 2016, browser developers such as Microsoft and Google will begin warning users when visiting web sites that use SHA-1 signed Secure Socket Layer (SSL) certificates.</p> <p>NOTE: The script preference allows to set one or more custom SHA-1 fingerprints of CA certificates which are trusted by this routine. The fingerprints needs to be passed comma-separated and case-insensitive:</p> <p>Fingerprint1 or fingerprint1,Fingerprint2</p>
<p><b>Vulnerability Detection Method</b></p> <p>Check which hashing algorithm was used to sign the remote SSL/TLS certificate. Details: SSL/TLS: Certificate Signed Using A Weak Signature Algorithm OID:1.3.6.1.4.1.25623.1.0.105880 Version used: \$Revision: 8810 \$</p>
<p><b>References</b></p> <p>Other: URL:<a href="https://blog.mozilla.org/security/2014/09/23/phasing-out-certificates-with-sha-1-based-signature-algorithms/">https://blog.mozilla.org/security/2014/09/23/phasing-out-certificates-with-sha-1-based-signature-algorithms/</a></p>

[ [return to 172.16.0.23](#) ]

### 2.2.5 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
<p><b>Summary</b></p> <p>The remote host implements TCP timestamps and therefore allows to compute the uptime.</p>
<p><b>Vulnerability Detection Result</b></p> <p>It was detected that the host implements RFC1323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 3008819 Packet 2: 3008921</p>
<p><b>Impact</b></p> <p>A side effect of this feature is that the uptime of the remote host can sometimes be computed.</p> <p>... continues on next page ...</p>

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**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 also: <http://www.microsoft.com/en-us/download/details.aspx?id=9152>

**Affected Software/OS**

TCP/IPv4 implementations that implement RFC1323.

**Vulnerability Insight**

The remote host implements TCP timestamps, as defined by RFC1323.

**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: \$Revision: 10411 \$

**References****Other:**

URL:<http://www.ietf.org/rfc/rfc1323.txt>

[\[ return to 172.16.0.23 \]](#)

**2.3 172.16.0.8**

Host scan start Tue Oct 30 10:41:28 2018 UTC

Host scan end Tue Oct 30 11:19:38 2018 UTC

Service (Port)	Threat Level
<a href="#">512/tcp</a>	High
<a href="#">513/tcp</a>	High
<a href="#">514/tcp</a>	High
<a href="#">80/tcp</a>	Medium
<a href="#">21/tcp</a>	Medium
<a href="#">443/tcp</a>	Medium
<a href="#">22/tcp</a>	Medium
<a href="#">general/tcp</a>	Low
<a href="#">443/tcp</a>	Low

... (continues) ...



... (continued) ...

Service (Port)	Threat Level
22/tcp	Low

### 2.3.1 High 512/tcp

High (CVSS: 10.0) NVT: Check for rexecd Service
<b>Summary</b> Rexecd Service is running at this Host. Rexecd (Remote Process Execution) has the same kind of functionality that rsh has : you can execute shell commands on a remote computer. The main difference is that rexecd authenticate by reading the username and password *unencrypted* from the socket.
<b>Vulnerability Detection Result</b> The rexecd Service is not allowing connections from this host.
<b>Solution</b> <b>Solution type:</b> Mitigation Disable rexec Service.
<b>Vulnerability Detection Method</b> Details: Check for rexecd Service OID:1.3.6.1.4.1.25623.1.0.100111 Version used: \$Revision: 6849 \$
<b>References</b> Other: URL: <a href="https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0618">https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0618</a>

[\[ return to 172.16.0.8 \]](#)

### 2.3.2 High 513/tcp

High (CVSS: 7.5) NVT: Check for rlogin Service
<b>Summary</b> This remote host is running a rlogin service.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Solution</b> ... continues on next page ...

...continued from previous page ...
<b>Solution type:</b> Mitigation Disable rlogin service and use ssh instead.
<b>Vulnerability Insight</b> rlogin has several serious security problems, - All information, including passwords, is transmitted unencrypted. - .rlogin (or .rhosts) file is easy to misuse (potentially allowing anyone to login without a password) Impact Level: System
<b>Vulnerability Detection Method</b> Details: Check for rlogin Service OID:1.3.6.1.4.1.25623.1.0.901202 Version used: \$Revision: 11997 \$
<b>References</b> Other: URL:https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0651 URL:http://en.wikipedia.org/wiki/Rlogin URL:http://www.ietf.org/rfc/rfc1282.txt

[ [return to 172.16.0.8](#) ]

### 2.3.3 High 514/tcp

High (CVSS: 7.5) NVT: rsh Service Reporting
<b>Summary</b> A rsh service is running at this Host. rsh (remote shell) is a command line computer program which can execute shell commands as another user, and on another computer across a computer network.
<b>Vulnerability Detection Result</b> The rsh service is not allowing connections from this host.
<b>Solution</b> <b>Solution type:</b> Mitigation Disable rsh and use SSH instead.
<b>Vulnerability Detection Method</b> Details: rsh Service Reporting OID:1.3.6.1.4.1.25623.1.0.100080 Version used: \$Revision: 12037 \$
<b>References</b> Other: ... continues on next page ...

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URL: <https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0651>[\[ return to 172.16.0.8 \]](#)**2.3.4 Medium 80/tcp**

Medium (CVSS: 5.8)

NVT: HTTP Debugging Methods (TRACE/TRACK) Enabled

**Summary**

Debugging functions are enabled on the remote web server.

The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods which are used to debug web server connections.

**Vulnerability Detection Result**

The web server has the following HTTP methods enabled: TRACE

**Impact**

An attacker may use this flaw to trick your legitimate web users to give him their credentials.

**Solution****Solution type:** Mitigation

Disable the TRACE and TRACK methods in your web server configuration.

Please see the manual of your web server or the references for more information.

**Affected Software/OS**

Web servers with enabled TRACE and/or TRACK methods.

**Vulnerability Insight**

It has been shown that web servers supporting this methods are subject to cross-site-scripting attacks, dubbed XST for Cross-Site-Tracing, when used in conjunction with various weaknesses in browsers.

**Vulnerability Detection Method**

Details: HTTP Debugging Methods (TRACE/TRACK) Enabled

OID:1.3.6.1.4.1.25623.1.0.11213

Version used: \$Revision: 10828 \$

**References**

CVE: CVE-2003-1567, CVE-2004-2320, CVE-2004-2763, CVE-2005-3398, CVE-2006-4683, ↪ CVE-2007-3008, CVE-2008-7253, CVE-2009-2823, CVE-2010-0386, CVE-2012-2223, CVE ↪ -2014-7883

BID:9506, 9561, 11604, 15222, 19915, 24456, 33374, 36956, 36990, 37995

Other:

URL: <http://www.kb.cert.org/vuls/id/288308>URL: <http://www.kb.cert.org/vuls/id/867593>

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URL:http://httpd.apache.org/docs/current/de/mod/core.html#traceenable

URL:https://www.owasp.org/index.php/Cross\_Site\_Tracing

[\[ return to 172.16.0.8 \]](#)

### 2.3.5 Medium 21/tcp

Medium (CVSS: 6.4)

NVT: Anonymous FTP Login Reporting

#### Summary

Reports if the remote FTP Server allows anonymous logins.

#### Vulnerability Detection Result

It was possible to login to the remote FTP service with the following anonymous ↪account(s):

anonymous:openvas-vt@example.com

ftp:openvas-vt@example.com

Here are the contents of the remote FTP directory listing:

Account "anonymous":

drwxr-xr-x 2 0 0 4096 May 11 2016 pub

Account "ftp":

drwxr-xr-x 2 0 0 4096 May 11 2016 pub

#### Impact

Based on the files accessible via this anonymous FTP login and the permissions of this account an attacker might be able to:

- gain access to sensitive files
- upload or delete files.

#### Solution

**Solution type:** Mitigation

If you do not want to share files, you should disable anonymous logins.

#### Vulnerability Insight

A host that provides an FTP service may additionally provide Anonymous FTP access as well. Under this arrangement, users do not strictly need an account on the host. Instead the user typically enters 'anonymous' or 'ftp' when prompted for username. Although users are commonly asked to send their email address as their password, little to no verification is actually performed on the supplied data.

#### Vulnerability Detection Method

Details: Anonymous FTP Login Reporting

OID:1.3.6.1.4.1.25623.1.0.900600

Version used: \$Revision: 12030 \$

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**References****Other:**URL: <https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0497>[\[ return to 172.16.0.8 \]](#)**2.3.6 Medium 443/tcp**

Medium (CVSS: 5.8)

NVT: HTTP Debugging Methods (TRACE/TRACK) Enabled

**Summary**

Debugging functions are enabled on the remote web server.

The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods which are used to debug web server connections.

**Vulnerability Detection Result**

The web server has the following HTTP methods enabled: TRACE

**Impact**

An attacker may use this flaw to trick your legitimate web users to give him their credentials.

**Solution****Solution type:** Mitigation

Disable the TRACE and TRACK methods in your web server configuration.

Please see the manual of your web server or the references for more information.

**Affected Software/OS**

Web servers with enabled TRACE and/or TRACK methods.

**Vulnerability Insight**

It has been shown that web servers supporting this methods are subject to cross-site-scripting attacks, dubbed XST for Cross-Site-Tracing, when used in conjunction with various weaknesses in browsers.

**Vulnerability Detection Method**

Details: HTTP Debugging Methods (TRACE/TRACK) Enabled

OID:1.3.6.1.4.1.25623.1.0.11213

Version used: \$Revision: 10828 \$

**References**

CVE: CVE-2003-1567, CVE-2004-2320, CVE-2004-2763, CVE-2005-3398, CVE-2006-4683, ↪ CVE-2007-3008, CVE-2008-7253, CVE-2009-2823, CVE-2010-0386, CVE-2012-2223, CVE ↪ -2014-7883

BID:9506, 9561, 11604, 15222, 19915, 24456, 33374, 36956, 36990, 37995

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**Other:**

URL:<http://www.kb.cert.org/vuls/id/288308>  
 URL:<http://www.kb.cert.org/vuls/id/867593>  
 URL:<http://httpd.apache.org/docs/current/de/mod/core.html#traceenable>  
 URL:[https://www.owasp.org/index.php/Cross\\_Site\\_Tracing](https://www.owasp.org/index.php/Cross_Site_Tracing)

Medium (CVSS: 5.0)

NVT: SSL/TLS: Certificate Expired

**Summary**

The remote server's SSL/TLS certificate has already expired.

**Vulnerability Detection Result**

The certificate of the remote service expired on 2018-01-11 07:26:13.

**Certificate details:**

subject ...: 1.2.840.113549.1.9.1=#726F6F74406B6576696E2E6D696E696F6E732E67616C6  
 ↪163746963,CN=kevin.minions.galactic,OU=SomeOrganizationalUnit,O=SomeOrganizati  
 ↪on,L=SomeCity,ST=SomeState,C=--  
 subject alternative names (SAN):  
 None  
 issued by .: 1.2.840.113549.1.9.1=#726F6F74406B6576696E2E6D696E696F6E732E67616C6  
 ↪163746963,CN=kevin.minions.galactic,OU=SomeOrganizationalUnit,O=SomeOrganizati  
 ↪on,L=SomeCity,ST=SomeState,C=--  
 serial ....: 3E67  
 valid from : 2017-01-11 07:26:13 UTC  
 valid until: 2018-01-11 07:26:13 UTC  
 fingerprint (SHA-1): B932004BEEBA1F627E0D0B279CC6C71553456D6F  
 fingerprint (SHA-256): B9B75A201CD05CF08694A232C74AA2FA9999C0CE7F2B64AB282829077  
 ↪BE9E4CB

**Solution**

**Solution type:** Mitigation

Replace the SSL/TLS certificate by a new one.

**Vulnerability Insight**

This script checks expiry dates of certificates associated with SSL/TLS-enabled services on the target and reports whether any have already expired.

**Vulnerability Detection Method**

Details: SSL/TLS: Certificate Expired

OID:1.3.6.1.4.1.25623.1.0.103955

Version used: \$Revision: 11103 \$

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Medium (CVSS: 5.0)

NVT: SSL/TLS: Report Vulnerable Cipher Suites for HTTPS

**Summary**

This routine reports all SSL/TLS cipher suites accepted by a service where attack vectors exists only on HTTPS services.

**Vulnerability Detection Result**

'Vulnerable' cipher suites accepted by this service via the SSLv3 protocol:

TLS\_DHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

'Vulnerable' cipher suites accepted by this service via the TLSv1.0 protocol:

TLS\_DHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

'Vulnerable' cipher suites accepted by this service via the TLSv1.1 protocol:

TLS\_DHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

'Vulnerable' cipher suites accepted by this service via the TLSv1.2 protocol:

TLS\_DHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

**Solution**

**Solution type:** Mitigation

The configuration of this services should be changed so that it does not accept the listed cipher suites anymore.

Please see the references for more resources supporting you with this task.

**Affected Software/OS**

Services accepting vulnerable SSL/TLS cipher suites via HTTPS.

**Vulnerability Insight**

These rules are applied for the evaluation of the vulnerable cipher suites:

- 64-bit block cipher 3DES vulnerable to the SWEET32 attack (CVE-2016-2183).

**Vulnerability Detection Method**

Details: SSL/TLS: Report Vulnerable Cipher Suites for HTTPS

OID:1.3.6.1.4.1.25623.1.0.108031

Version used: \$Revision: 5232 \$

**References**

CVE: CVE-2016-2183, CVE-2016-6329

Other:

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URL:<https://bettercrypto.org/>URL:<https://mozilla.github.io/server-side-tls/ssl-config-generator/>URL:<https://sweet32.info/>

Medium (CVSS: 4.3)

NVT: SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection

**Summary**

It was possible to detect the usage of the deprecated SSLv2 and/or SSLv3 protocol on this system.

**Vulnerability Detection Result**

In addition to TLSv1.0+ the service is also providing the deprecated SSLv3 protocol and supports one or more ciphers. Those supported ciphers can be found in the 'SSL/TLS: Report Weak and Supported Ciphers' (OID: 1.3.6.1.4.1.25623.1.0.8 → 02067) NVT.

**Impact**

An attacker might be able to use the known cryptographic flaws to eavesdrop the connection between clients and the service to get access to sensitive data transferred within the secured connection.

**Solution**

**Solution type:** Mitigation

It is recommended to disable the deprecated SSLv2 and/or SSLv3 protocols in favor of the TLSv1+ protocols. Please see the references for more information.

**Affected Software/OS**

All services providing an encrypted communication using the SSLv2 and/or SSLv3 protocols.

**Vulnerability Insight**

The SSLv2 and SSLv3 protocols containing known cryptographic flaws like:

- Padding Oracle On Downgraded Legacy Encryption (POODLE, CVE-2014-3566)
- Decrypting RSA with Obsolete and Weakened eNcryption (DROWN, CVE-2016-0800)

**Vulnerability Detection Method**

Check the used protocols of the services provided by this system.

Details: SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection

OID:1.3.6.1.4.1.25623.1.0.111012

Version used: \$Revision: 5547 \$

**References**

CVE: CVE-2016-0800, CVE-2014-3566

Other:

URL:<https://www.enisa.europa.eu/activities/identity-and-trust/library/deliverables/algorithms-key-sizes-and-parameters-report>

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URL:<https://bettercrypto.org/>  
 URL:<https://mozilla.github.io/server-side-tls/ssl-config-generator/>  
 URL:<https://drownattack.com/>  
 URL:<https://www.imperialviolet.org/2014/10/14/poodle.html>

Medium (CVSS: 4.3)

NVT: SSL/TLS: Report Weak Cipher Suites

### Summary

This routine reports all Weak SSL/TLS cipher suites accepted by a service.

NOTE: No severity for SMTP services with 'Opportunistic TLS' and weak cipher suites on port 25/tcp is reported. If too strong cipher suites are configured for this service the alternative would be to fall back to an even more insecure cleartext communication.

### Vulnerability Detection Result

'Weak' cipher suites accepted by this service via the SSLv3 protocol:

TLS\_ECDHE\_RSA\_WITH\_RC4\_128\_SHA  
 TLS\_RSA\_WITH\_RC4\_128\_MD5  
 TLS\_RSA\_WITH\_RC4\_128\_SHA

'Weak' cipher suites accepted by this service via the TLSv1.0 protocol:

TLS\_ECDHE\_RSA\_WITH\_RC4\_128\_SHA  
 TLS\_RSA\_WITH\_RC4\_128\_MD5  
 TLS\_RSA\_WITH\_RC4\_128\_SHA

'Weak' cipher suites accepted by this service via the TLSv1.1 protocol:

TLS\_ECDHE\_RSA\_WITH\_RC4\_128\_SHA  
 TLS\_RSA\_WITH\_RC4\_128\_MD5  
 TLS\_RSA\_WITH\_RC4\_128\_SHA

'Weak' cipher suites accepted by this service via the TLSv1.2 protocol:

TLS\_ECDHE\_RSA\_WITH\_RC4\_128\_SHA  
 TLS\_RSA\_WITH\_RC4\_128\_MD5  
 TLS\_RSA\_WITH\_RC4\_128\_SHA

### Solution

**Solution type:** Mitigation

The configuration of this services should be changed so that it does not accept the listed weak cipher suites anymore.

Please see the references for more resources supporting you with this task.

### Vulnerability Insight

These rules are applied for the evaluation of the cryptographic strength:

- RC4 is considered to be weak (CVE-2013-2566, CVE-2015-2808).
- Ciphers using 64 bit or less are considered to be vulnerable to brute force methods and therefore considered as weak (CVE-2015-4000).
- 1024 bit RSA authentication is considered to be insecure and therefore as weak.
- Any cipher considered to be secure for only the next 10 years is considered as medium
- Any other cipher is considered as strong

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**Vulnerability Detection Method**

Details: SSL/TLS: Report Weak Cipher Suites

OID:1.3.6.1.4.1.25623.1.0.103440

Version used: \$Revision: 11135 \$

**References**

CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000

Other:

URL:https://www.bsi.bund.de/SharedDocs/Warnmeldungen/DE/CB/warnmeldung\_cb-k16-  
↪1465\_update\_6.html

URL:https://bettercrypto.org/

URL:https://mozilla.github.io/server-side-tls/ssl-config-generator/

[\[ return to 172.16.0.8 \]](#)**2.3.7 Medium 22/tcp**

Medium (CVSS: 4.3)

NVT: SSH Weak Encryption Algorithms Supported

**Summary**

The remote SSH server is configured to allow weak encryption algorithms.

**Vulnerability Detection Result**The following weak client-to-server encryption algorithms are supported by the r  
↪emote service:

3des-cbc

aes128-cbc

aes192-cbc

aes256-cbc

arcfour

arcfour128

arcfour256

blowfish-cbc

cast128-cbc

rijndael-cbc@lysator.liu.se

The following weak server-to-client encryption algorithms are supported by the r  
↪emote service:

3des-cbc

aes128-cbc

aes192-cbc

aes256-cbc

arcfour

arcfour128

arcfour256

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...continued from previous page ...
blowfish-cbc cast128-cbc rijndael-cbc@lysator.liu.se
<b>Solution</b> <b>Solution type:</b> Mitigation Disable the weak encryption algorithms.
<b>Vulnerability Insight</b> The ‘arcfour’ cipher is the Arcfour stream cipher with 128-bit keys. The Arcfour cipher is believed to be compatible with the RC4 cipher [SCHNEIER]. Arcfour (and RC4) has problems with weak keys, and should not be used anymore. The ‘none’ algorithm specifies that no encryption is to be done. Note that this method provides no confidentiality protection, and it is NOT RECOMMENDED to use it. A vulnerability exists in SSH messages that employ CBC mode that may allow an attacker to recover plaintext from a block of ciphertext.
<b>Vulnerability Detection Method</b> Check if remote ssh service supports Arcfour, none or CBC ciphers. Details: SSH Weak Encryption Algorithms Supported OID:1.3.6.1.4.1.25623.1.0.105611 Version used: \$Revision: 4490 \$
<b>References</b> Other: URL: <a href="https://tools.ietf.org/html/rfc4253#section-6.3">https://tools.ietf.org/html/rfc4253#section-6.3</a> URL: <a href="https://www.kb.cert.org/vuls/id/958563">https://www.kb.cert.org/vuls/id/958563</a>

[\[ return to 172.16.0.8 \]](#)

### 2.3.8 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
<b>Summary</b> The remote host implements TCP timestamps and therefore allows to compute the uptime.
<b>Vulnerability Detection Result</b> It was detected that the host implements RFC1323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 32416542 Packet 2: 32417580
<b>Impact</b> A side effect of this feature is that the uptime of the remote host can sometimes be computed. ... continues on next page ...

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<b>Solution</b> <b>Solution type:</b> 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 also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a>
<b>Affected Software/OS</b> TCP/IPv4 implementations that implement RFC1323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323.
<b>Vulnerability Detection Method</b> 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: \$Revision: 10411 \$
<b>References</b> Other: URL: <a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a>

[ [return to 172.16.0.8](#) ]

### 2.3.9 Low 443/tcp

Low (CVSS: 2.6) NVT: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability
<b>Summary</b> This host is installed with OpenSSL and is prone to padding oracle attack.
<b>Vulnerability Detection Result</b> It was possible to send an encrypted data with malformed padding and receive Record Overflow alert from the SSL Server
<b>Impact</b> Exploiting this vulnerability allows remote attackers to obtain sensitive cleartext information via a padding oracle attack against an AES CBC session.
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<b>Solution</b> <b>Solution type:</b> VendorFix OpenSSL 1.0.2 users should upgrade to 1.0.2h. OpenSSL 1.0.1 users should upgrade to 1.0.1t.
<b>Affected Software/OS</b> OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h.
<b>Vulnerability Insight</b> The vulnerability is due to not considering memory allocation during a certain padding check.
<b>Vulnerability Detection Method</b> Send an encrypted padded message and check the returned alert (Record Overflow if vulnerable, Bad Record Mac if no vulnerable. Details: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability OID:1.3.6.1.4.1.25623.1.0.107141 Version used: \$Revision: 11874 \$
<b>References</b> CVE: CVE-2016-2107 Other: URL: <a href="https://www.openssl.org/news/secadv/20160503.txt">https://www.openssl.org/news/secadv/20160503.txt</a>

[ [return to 172.16.0.8](#) ]

### 2.3.10 Low 22/tcp

Low (CVSS: 2.6) NVT: SSH Weak MAC Algorithms Supported
<b>Summary</b> The remote SSH server is configured to allow weak MD5 and/or 96-bit MAC algorithms.
<b>Vulnerability Detection Result</b> The following weak client-to-server MAC algorithms are supported by the remote s ↪ervice: hmac-md5 hmac-md5-96 hmac-sha1-96 The following weak server-to-client MAC algorithms are supported by the remote s ↪ervice: hmac-md5 hmac-md5-96 hmac-sha1-96
... continues on next page ...

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**Solution****Solution type:** Mitigation

Disable the weak MAC algorithms.

**Vulnerability Detection Method**

Details: SSH Weak MAC Algorithms Supported

OID:1.3.6.1.4.1.25623.1.0.105610

Version used: \$Revision: 4490 \$

[\[ return to 172.16.0.8 \]](#)**2.4 172.16.0.16**

Host scan start Tue Oct 30 10:41:28 2018 UTC

Host scan end Tue Oct 30 11:25:42 2018 UTC

Service (Port)	Threat Level
<a href="#">443/tcp</a>	Medium
<a href="#">587/tcp</a>	Medium
<a href="#">22/tcp</a>	Medium
<a href="#">25/tcp</a>	Medium
<a href="#">21/tcp</a>	Medium
<a href="#">10000/tcp</a>	Medium
<a href="#">443/tcp</a>	Low
<a href="#">587/tcp</a>	Low
<a href="#">22/tcp</a>	Low
<a href="#">25/tcp</a>	Low
<a href="#">10000/tcp</a>	Low
<a href="#">general/tcp</a>	Low

**2.4.1 Medium 443/tcp**

Medium (CVSS: 6.8)

NVT: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability

**Summary**

OpenSSL is prone to security-bypass vulnerability.

**Vulnerability Detection Result**

Vulnerability was detected according to the Vulnerability Detection Method.

**Impact**

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Successfully exploiting this issue may allow attackers to obtain sensitive information by conducting a man-in-the-middle attack. This may lead to other attacks.
<b>Solution</b> <b>Solution type:</b> VendorFix Updates are available.
<b>Affected Software/OS</b> OpenSSL before 0.9.8za, 1.0.0 before 1.0.0m and 1.0.1 before 1.0.1h
<b>Vulnerability Insight</b> OpenSSL does not properly restrict processing of ChangeCipherSpec messages, which allows man-in-the-middle attackers to trigger use of a zero-length master key in certain OpenSSL-to-OpenSSL communications, and consequently hijack sessions or obtain sensitive information, via a crafted TLS handshake, aka the 'CCS Injection' vulnerability.
<b>Vulnerability Detection Method</b> Send two SSL ChangeCipherSpec request and check the response. Details: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability OID:1.3.6.1.4.1.25623.1.0.105042 Version used: \$Revision: 11186 \$
<b>References</b> CVE: CVE-2014-0224 BID:67899 Other: URL: <a href="http://www.securityfocus.com/bid/67899">http://www.securityfocus.com/bid/67899</a> URL: <a href="http://openssl.org/">http://openssl.org/</a>

Medium (CVSS: 5.0)  
 NVT: SSL/TLS: Report Vulnerable Cipher Suites for HTTPS

### Summary

This routine reports all SSL/TLS cipher suites accepted by a service where attack vectors exists only on HTTPS services.

### Vulnerability Detection Result

'Vulnerable' cipher suites accepted by this service via the TLSv1.0 protocol:  
 TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)  
 TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)  
 'Vulnerable' cipher suites accepted by this service via the TLSv1.1 protocol:  
 TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)  
 TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)  
 'Vulnerable' cipher suites accepted by this service via the TLSv1.2 protocol:  
 TLS\_ECDHE\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)  
 TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA (SWEET32)

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<b>Solution</b> <b>Solution type:</b> Mitigation The configuration of this services should be changed so that it does not accept the listed cipher suites anymore. Please see the references for more resources supporting you with this task.
<b>Affected Software/OS</b> Services accepting vulnerable SSL/TLS cipher suites via HTTPS.
<b>Vulnerability Insight</b> These rules are applied for the evaluation of the vulnerable cipher suites: - 64-bit block cipher 3DES vulnerable to the SWEET32 attack (CVE-2016-2183).
<b>Vulnerability Detection Method</b> Details: SSL/TLS: Report Vulnerable Cipher Suites for HTTPS OID:1.3.6.1.4.1.25623.1.0.108031 Version used: \$Revision: 5232 \$
<b>References</b> CVE: CVE-2016-2183, CVE-2016-6329 Other: URL:https://bettercrypto.org/ URL:https://mozilla.github.io/server-side-tls/ssl-config-generator/ URL:https://sweet32.info/

[ [return to 172.16.0.16](#) ]

#### 2.4.2 Medium 587/tcp

Medium (CVSS: 6.8) NVT: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability
<b>Summary</b> OpenSSL is prone to security-bypass vulnerability.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> Successfully exploiting this issue may allow attackers to obtain sensitive information by conducting a man-in-the-middle attack. This may lead to other attacks.
<b>Solution</b> <b>Solution type:</b> VendorFix Updates are available.
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<b>Affected Software/OS</b> OpenSSL before 0.9.8za, 1.0.0 before 1.0.0m and 1.0.1 before 1.0.1h
<b>Vulnerability Insight</b> OpenSSL does not properly restrict processing of ChangeCipherSpec messages, which allows man-in-the-middle attackers to trigger use of a zero-length master key in certain OpenSSL-to-OpenSSL communications, and consequently hijack sessions or obtain sensitive information, via a crafted TLS handshake, aka the 'CCS Injection' vulnerability.
<b>Vulnerability Detection Method</b> Send two SSL ChangeCipherSpec request and check the response. Details: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability OID:1.3.6.1.4.1.25623.1.0.105042 Version used: \$Revision: 11186 \$
<b>References</b> CVE: CVE-2014-0224 BID:67899 Other: <a href="http://www.securityfocus.com/bid/67899">URL:http://www.securityfocus.com/bid/67899</a> <a href="http://openssl.org/">URL:http://openssl.org/</a>

Medium (CVSS: 4.3) NVT: SSL/TLS: Report Weak Cipher Suites
<b>Summary</b> This routine reports all Weak SSL/TLS cipher suites accepted by a service. NOTE: No severity for SMTP services with 'Opportunistic TLS' and weak cipher suites on port 25/tcp is reported. If too strong cipher suites are configured for this service the alternative would be to fall back to an even more insecure cleartext communication.
<b>Vulnerability Detection Result</b> 'Weak' cipher suites accepted by this service via the TLSv1.0 protocol: TLS_RSA_WITH_SEED_CBC_SHA 'Weak' cipher suites accepted by this service via the TLSv1.1 protocol: TLS_RSA_WITH_SEED_CBC_SHA 'Weak' cipher suites accepted by this service via the TLSv1.2 protocol: TLS_RSA_WITH_SEED_CBC_SHA
<b>Solution</b> <b>Solution type:</b> Mitigation The configuration of this services should be changed so that it does not accept the listed weak cipher suites anymore. Please see the references for more resources supporting you with this task.
<b>Vulnerability Insight</b> ... continues on next page ...

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<p>These rules are applied for the evaluation of the cryptographic strength:</p> <ul style="list-style-type: none"> <li>- RC4 is considered to be weak (CVE-2013-2566, CVE-2015-2808).</li> <li>- Ciphers using 64 bit or less are considered to be vulnerable to brute force methods and therefore considered as weak (CVE-2015-4000).</li> <li>- 1024 bit RSA authentication is considered to be insecure and therefore as weak.</li> <li>- Any cipher considered to be secure for only the next 10 years is considered as medium</li> <li>- Any other cipher is considered as strong</li> </ul>
<p><b>Vulnerability Detection Method</b>  Details: SSL/TLS: Report Weak Cipher Suites  OID:1.3.6.1.4.1.25623.1.0.103440  Version used: \$Revision: 11135 \$</p>
<p><b>References</b>  CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000  Other:  URL:https://www.bsi.bund.de/SharedDocs/Warnmeldungen/DE/CB/warnmeldung_cb-k16-  ↪1465_update_6.html  URL:https://bettercrypto.org/  URL:https://mozilla.github.io/server-side-tls/ssl-config-generator/</p>

[ [return to 172.16.0.16](#) ]

### 2.4.3 Medium 22/tcp

<p>Medium (CVSS: 4.3)  NVT: SSH Weak Encryption Algorithms Supported</p>
<p><b>Summary</b>  The remote SSH server is configured to allow weak encryption algorithms.</p>
<p><b>Vulnerability Detection Result</b>  The following weak client-to-server encryption algorithms are supported by the r  ↪emote service:  3des-cbc  aes128-cbc  aes192-cbc  aes256-cbc  arcfour  arcfour128  arcfour256  blowfish-cbc  cast128-cbc  rijndael-cbc@lysator.liu.se  The following weak server-to-client encryption algorithms are supported by the r  ↪emote service:</p>
...continues on next page ...

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3des-cbc aes128-cbc aes192-cbc aes256-cbc arcfour arcfour128 arcfour256 blowfish-cbc cast128-cbc rijndael-cbc@lysator.liu.se
<b>Solution</b> <b>Solution type:</b> Mitigation Disable the weak encryption algorithms.
<b>Vulnerability Insight</b> The ‘arcfour’ cipher is the Arcfour stream cipher with 128-bit keys. The Arcfour cipher is believed to be compatible with the RC4 cipher [SCHNEIER]. Arcfour (and RC4) has problems with weak keys, and should not be used anymore. The ‘none’ algorithm specifies that no encryption is to be done. Note that this method provides no confidentiality protection, and it is NOT RECOMMENDED to use it. A vulnerability exists in SSH messages that employ CBC mode that may allow an attacker to recover plaintext from a block of ciphertext.
<b>Vulnerability Detection Method</b> Check if remote ssh service supports Arcfour, none or CBC ciphers. Details: SSH Weak Encryption Algorithms Supported OID:1.3.6.1.4.1.25623.1.0.105611 Version used: \$Revision: 4490 \$
<b>References</b> Other: URL: <a href="https://tools.ietf.org/html/rfc4253#section-6.3">https://tools.ietf.org/html/rfc4253#section-6.3</a> URL: <a href="https://www.kb.cert.org/vuls/id/958563">https://www.kb.cert.org/vuls/id/958563</a>

[\[ return to 172.16.0.16 \]](#)

#### 2.4.4 Medium 25/tcp

Medium (CVSS: 6.8) NVT: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability
<b>Summary</b> OpenSSL is prone to security-bypass vulnerability.
<b>Vulnerability Detection Result</b> ... continues on next page ...

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Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> Successfully exploiting this issue may allow attackers to obtain sensitive information by conducting a man-in-the-middle attack. This may lead to other attacks.
<b>Solution</b> <b>Solution type:</b> VendorFix Updates are available.
<b>Affected Software/OS</b> OpenSSL before 0.9.8za, 1.0.0 before 1.0.0m and 1.0.1 before 1.0.1h
<b>Vulnerability Insight</b> OpenSSL does not properly restrict processing of ChangeCipherSpec messages, which allows man-in-the-middle attackers to trigger use of a zero-length master key in certain OpenSSL-to-OpenSSL communications, and consequently hijack sessions or obtain sensitive information, via a crafted TLS handshake, aka the 'CCS Injection' vulnerability.
<b>Vulnerability Detection Method</b> Send two SSL ChangeCipherSpec request and check the response. Details: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability OID:1.3.6.1.4.1.25623.1.0.105042 Version used: \$Revision: 11186 \$
<b>References</b> CVE: CVE-2014-0224 BID:67899 Other: URL:http://www.securityfocus.com/bid/67899 URL:http://openssl.org/

[ [return to 172.16.0.16](#) ]

#### 2.4.5 Medium 21/tcp

Medium (CVSS: 6.4) NVT: Anonymous FTP Login Reporting
<b>Summary</b> Reports if the remote FTP Server allows anonymous logins.
<b>Vulnerability Detection Result</b> It was possible to login to the remote FTP service with the following anonymous ↪account(s): anonymous:openvas-vt@example.com
... continues on next page ...

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ftp:openvas-vt@example.com
<b>Impact</b> Based on the files accessible via this anonymous FTP login and the permissions of this account an attacker might be able to: <ul style="list-style-type: none"> <li>- gain access to sensitive files</li> <li>- upload or delete files.</li> </ul>
<b>Solution</b> <b>Solution type:</b> Mitigation If you do not want to share files, you should disable anonymous logins.
<b>Vulnerability Insight</b> A host that provides an FTP service may additionally provide Anonymous FTP access as well. Under this arrangement, users do not strictly need an account on the host. Instead the user typically enters 'anonymous' or 'ftp' when prompted for username. Although users are commonly asked to send their email address as their password, little to no verification is actually performed on the supplied data.
<b>Vulnerability Detection Method</b> Details: Anonymous FTP Login Reporting OID:1.3.6.1.4.1.25623.1.0.900600 Version used: \$Revision: 12030 \$
<b>References</b> Other: URL: <a href="https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0497">https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0497</a>

[\[ return to 172.16.0.16 \]](#)

#### 2.4.6 Medium 10000/tcp

Medium (CVSS: 6.8) NVT: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability
<b>Summary</b> OpenSSL is prone to security-bypass vulnerability.
<b>Vulnerability Detection Result</b> Vulnerability was detected according to the Vulnerability Detection Method.
<b>Impact</b> Successfully exploiting this issue may allow attackers to obtain sensitive information by conducting a man-in-the-middle attack. This may lead to other attacks.
<b>Solution</b> ... continues on next page ...

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<b>Solution type:</b> VendorFix Updates are available.
<b>Affected Software/OS</b> OpenSSL before 0.9.8za, 1.0.0 before 1.0.0m and 1.0.1 before 1.0.1h
<b>Vulnerability Insight</b> OpenSSL does not properly restrict processing of ChangeCipherSpec messages, which allows man-in-the-middle attackers to trigger use of a zero-length master key in certain OpenSSL-to-OpenSSL communications, and consequently hijack sessions or obtain sensitive information, via a crafted TLS handshake, aka the 'CCS Injection' vulnerability.
<b>Vulnerability Detection Method</b> Send two SSL ChangeCipherSpec request and check the response. Details: SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability OID:1.3.6.1.4.1.25623.1.0.105042 Version used: \$Revision: 11186 \$
<b>References</b> CVE: CVE-2014-0224 BID:67899 Other: URL:http://www.securityfocus.com/bid/67899 URL:http://openssl.org/

Medium (CVSS: 6.4) NVT: SSL/TLS: Missing 'secure' Cookie Attribute
<b>Summary</b> The host is running a server with SSL/TLS and is prone to information disclosure vulnerability.
<b>Vulnerability Detection Result</b> The cookies: Set-Cookie: redirect=***replaced***; path=/ are missing the "secure" attribute.
<b>Solution</b> <b>Solution type:</b> Mitigation Set the 'secure' attribute for any cookies that are sent over a SSL/TLS connection.
<b>Affected Software/OS</b> Server with SSL/TLS.
<b>Vulnerability Insight</b> ... continues on next page ...

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The flaw is due to cookie is not using 'secure' attribute, which allows cookie to be passed to the server by the client over non-secure channels (http) and allows attacker to conduct session hijacking attacks.
<b>Vulnerability Detection Method</b> Details: SSL/TLS: Missing 'secure' Cookie Attribute OID:1.3.6.1.4.1.25623.1.0.902661 Version used: \$Revision: 11374 \$
<b>References</b> Other: URL:https://www.owasp.org/index.php/SecureFlag URL:http://www.ietf.org/rfc/rfc2965.txt URL:https://www.owasp.org/index.php/Testing_for_cookies_attributes_(OWASP-SM-↵002)

Medium (CVSS: 5.0) NVT: Missing 'httpOnly' Cookie Attribute
<b>Summary</b> The application is missing the 'httpOnly' cookie attribute
<b>Vulnerability Detection Result</b> The cookies: Set-Cookie: redirect=***replaced***; path=/ Set-Cookie: testing=***replaced***; path=/; secure are missing the "httpOnly" attribute.
<b>Solution</b> <b>Solution type:</b> Mitigation Set the 'httpOnly' attribute for any session cookie.
<b>Affected Software/OS</b> Application with session handling in cookies.
<b>Vulnerability Insight</b> The flaw is due to a cookie is not using the 'httpOnly' attribute. This allows a cookie to be accessed by JavaScript which could lead to session hijacking attacks.
<b>Vulnerability Detection Method</b> Check all cookies sent by the application for a missing 'httpOnly' attribute Details: Missing 'httpOnly' Cookie Attribute OID:1.3.6.1.4.1.25623.1.0.105925 Version used: \$Revision: 5270 \$
<b>References</b> ... continues on next page ...

...continued from previous page ...
<b>Other:</b> URL: <a href="https://www.owasp.org/index.php/HttpOnly">https://www.owasp.org/index.php/HttpOnly</a> URL: <a href="https://www.owasp.org/index.php/Testing_for_cookies_attributes_(OTG-SESS-002)">https://www.owasp.org/index.php/Testing_for_cookies_attributes_(OTG-SESS-002)</a>

Medium (CVSS: 5.0) NVT: SSL/TLS: Report Vulnerable Cipher Suites for HTTPS
<b>Summary</b> This routine reports all SSL/TLS cipher suites accepted by a service where attack vectors exists only on HTTPS services.
<b>Vulnerability Detection Result</b> 'Vulnerable' cipher suites accepted by this service via the TLSv1.2 protocol: TLS_RSA_WITH_3DES_EDE_CBC_SHA (SWEET32) TLS_RSA_WITH_DES_CBC_SHA (SWEET32)
<b>Solution</b> <b>Solution type:</b> Mitigation The configuration of this services should be changed so that it does not accept the listed cipher suites anymore. Please see the references for more resources supporting you with this task.
<b>Affected Software/OS</b> Services accepting vulnerable SSL/TLS cipher suites via HTTPS.
<b>Vulnerability Insight</b> These rules are applied for the evaluation of the vulnerable cipher suites: - 64-bit block cipher 3DES vulnerable to the SWEET32 attack (CVE-2016-2183).
<b>Vulnerability Detection Method</b> Details: SSL/TLS: Report Vulnerable Cipher Suites for HTTPS OID: 1.3.6.1.4.1.25623.1.0.108031 Version used: \$Revision: 5232 \$
<b>References</b> CVE: CVE-2016-2183, CVE-2016-6329 Other: URL: <a href="https://bettercrypto.org/">https://bettercrypto.org/</a> URL: <a href="https://mozilla.github.io/server-side-tls/ssl-config-generator/">https://mozilla.github.io/server-side-tls/ssl-config-generator/</a> URL: <a href="https://sweet32.info/">https://sweet32.info/</a>

Medium (CVSS: 5.0) NVT: Webmin 1.880 Information Disclosure Vulnerability
... continues on next page ...



...continued from previous page ...
<b>Product detection result</b> cpe:/a:webmin:webmin:1.831 Detected by Check for Webmin / Usermin (OID: 1.3.6.1.4.1.25623.1.0.10757)
<b>Summary</b> Webmin is prone to an information disclosure vulnerability that allows non-privileged users to access arbitrary files.
<b>Vulnerability Detection Result</b> Installed version: 1.831 Fixed version: Please see the solution tag for an available Mitigation
<b>Impact</b> Successful exploitation would allow an attacker to access any file on the system, ranging from sensitive documents to administrator passwords.
<b>Solution</b> <b>Solution type:</b> Mitigation No patch is available as of 15th March, 2018. As a mitigation technique, the setting 'Can view any file as a log file' can be disabled, effectively stopping a user from exploiting this vulnerability.
<b>Affected Software/OS</b> Webmin through version 1.880
<b>Vulnerability Insight</b> An issue was discovered in Webmin when the default Yes setting of 'Can view any file as a log file' is enabled. As a result of weak default configuration settings, limited users have full access rights to the underlying Unix system files, allowing the user to read sensitive data from the local system (using Local File Include) such as the '/etc/shadow' file via a 'GET /sys-log/save_log.cgi?view=1&file=/etc/shadow' request.
<b>Vulnerability Detection Method</b> The script checks if a vulnerable version is present on the target host. Details: Webmin 1.880 Information Disclosure Vulnerability OID:1.3.6.1.4.1.25623.1.0.113135 Version used: \$Revision: 12116 \$
<b>Product Detection Result</b> Product: cpe:/a:webmin:webmin:1.831 Method: Check for Webmin / Usermin OID: 1.3.6.1.4.1.25623.1.0.10757)
<b>References</b> CVE: CVE-2018-8712 Other:
... continues on next page ...

...continued from previous page...

URL:<https://www.7elements.co.uk/resources/technical-advisories/webmin-1-840-1-880-unrestricted-access-arbitrary-files-using-local-file-include/>  
 URL:<http://www.webmin.com/changes.html>

Medium (CVSS: 4.3)

NVT: SSL/TLS: Report Weak Cipher Suites

**Summary**

This routine reports all Weak SSL/TLS cipher suites accepted by a service.

NOTE: No severity for SMTP services with 'Opportunistic TLS' and weak cipher suites on port 25/tcp is reported. If too strong cipher suites are configured for this service the alternative would be to fall back to an even more insecure cleartext communication.

**Vulnerability Detection Result**

'Weak' cipher suites accepted by this service via the TLSv1.2 protocol:

TLS\_RSA\_WITH\_RC4\_128\_MD5

TLS\_RSA\_WITH\_RC4\_128\_SHA

TLS\_RSA\_WITH\_SEED\_CBC\_SHA

**Solution**

**Solution type:** Mitigation

The configuration of this services should be changed so that it does not accept the listed weak cipher suites anymore.

Please see the references for more resources supporting you with this task.

**Vulnerability Insight**

These rules are applied for the evaluation of the cryptographic strength:

- RC4 is considered to be weak (CVE-2013-2566, CVE-2015-2808).
- Ciphers using 64 bit or less are considered to be vulnerable to brute force methods and therefore considered as weak (CVE-2015-4000).
- 1024 bit RSA authentication is considered to be insecure and therefore as weak.
- Any cipher considered to be secure for only the next 10 years is considered as medium
- Any other cipher is considered as strong

**Vulnerability Detection Method**

Details: SSL/TLS: Report Weak Cipher Suites

OID:1.3.6.1.4.1.25623.1.0.103440

Version used: \$Revision: 11135 \$

**References**

CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000

Other:

URL:[https://www.bsi.bund.de/SharedDocs/Warntmeldungen/DE/CB/warntmeldung\\_cb-k16-1465\\_update\\_6.html](https://www.bsi.bund.de/SharedDocs/Warntmeldungen/DE/CB/warntmeldung_cb-k16-1465_update_6.html)

URL:<https://bettercrypto.org/>

URL:<https://mozilla.github.io/server-side-tls/ssl-config-generator/>

[\[ return to 172.16.0.16 \]](#)

#### 2.4.7 Low 443/tcp

Low (CVSS: 2.6) NVT: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability
<b>Summary</b> This host is installed with OpenSSL and is prone to padding oracle attack.
<b>Vulnerability Detection Result</b> It was possible to send an encrypted data with malformed padding and receive Record Overflow alert from the SSL Server
<b>Impact</b> Exploiting this vulnerability allows remote attackers to obtain sensitive cleartext information via a padding oracle attack against an AES CBC session.
<b>Solution</b> <b>Solution type:</b> VendorFix OpenSSL 1.0.2 users should upgrade to 1.0.2h. OpenSSL 1.0.1 users should upgrade to 1.0.1t.
<b>Affected Software/OS</b> OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h.
<b>Vulnerability Insight</b> The vulnerability is due to not considering memory allocation during a certain padding check.
<b>Vulnerability Detection Method</b> Send an encrypted padded message and check the returned alert (Record Overflow if vulnerable, Bad Record Mac if no vulnerable. Details: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability OID:1.3.6.1.4.1.25623.1.0.107141 Version used: \$Revision: 11874 \$
<b>References</b> CVE: CVE-2016-2107 Other: URL: <a href="https://www.openssl.org/news/secadv/20160503.txt">https://www.openssl.org/news/secadv/20160503.txt</a>

[\[ return to 172.16.0.16 \]](#)

#### 2.4.8 Low 587/tcp

Low (CVSS: 2.6) NVT: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability
<b>Summary</b> This host is installed with OpenSSL and is prone to padding oracle attack.
<b>Vulnerability Detection Result</b> It was possible to send an encrypted data with malformed padding and receive Record Overflow alert from the SSL Server
<b>Impact</b> Exploiting this vulnerability allows remote attackers to obtain sensitive cleartext information via a padding oracle attack against an AES CBC session.
<b>Solution</b> <b>Solution type:</b> VendorFix OpenSSL 1.0.2 users should upgrade to 1.0.2h. OpenSSL 1.0.1 users should upgrade to 1.0.1t.
<b>Affected Software/OS</b> OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h.
<b>Vulnerability Insight</b> The vulnerability is due to not considering memory allocation during a certain padding check.
<b>Vulnerability Detection Method</b> Send an encrypted padded message and check the returned alert (Record Overflow if vulnerable, Bad Record Mac if no vulnerable. Details: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability OID:1.3.6.1.4.1.25623.1.0.107141 Version used: \$Revision: 11874 \$
<b>References</b> CVE: CVE-2016-2107 Other: URL: <a href="https://www.openssl.org/news/secadv/20160503.txt">https://www.openssl.org/news/secadv/20160503.txt</a>

[ [return to 172.16.0.16](#) ]

#### 2.4.9 Low 22/tcp

Low (CVSS: 2.6) NVT: SSH Weak MAC Algorithms Supported
<b>Summary</b> The remote SSH server is configured to allow weak MD5 and/or 96-bit MAC algorithms. ... continues on next page ...

...continued from previous page ...

**Vulnerability Detection Result**

The following weak client-to-server MAC algorithms are supported by the remote s  
↔ervice:

hmac-md5  
hmac-md5-96  
hmac-md5-96-etm@openssh.com  
hmac-md5-etm@openssh.com  
hmac-sha1-96  
hmac-sha1-96-etm@openssh.com

The following weak server-to-client MAC algorithms are supported by the remote s  
↔ervice:

hmac-md5  
hmac-md5-96  
hmac-md5-96-etm@openssh.com  
hmac-md5-etm@openssh.com  
hmac-sha1-96  
hmac-sha1-96-etm@openssh.com

**Solution**

**Solution type:** Mitigation

Disable the weak MAC algorithms.

**Vulnerability Detection Method**

Details: SSH Weak MAC Algorithms Supported

OID:1.3.6.1.4.1.25623.1.0.105610

Version used: \$Revision: 4490 \$

[\[ return to 172.16.0.16 \]](#)

**2.4.10 Low 25/tcp**

Low (CVSS: 2.6)

NVT: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability

**Summary**

This host is installed with OpenSSL and is prone to padding oracle attack.

**Vulnerability Detection Result**

It was possible to send an encrypted data with malformed padding and receive Rec  
↔ord Overflow alert from the SSL Server

**Impact**

Exploiting this vulnerability allows remote attackers to obtain sensitive cleartext information via a padding oracle attack against an AES CBC session.

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...continued from previous page ...
<b>Solution</b> <b>Solution type:</b> VendorFix OpenSSL 1.0.2 users should upgrade to 1.0.2h. OpenSSL 1.0.1 users should upgrade to 1.0.1t.
<b>Affected Software/OS</b> OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h.
<b>Vulnerability Insight</b> The vulnerability is due to not considering memory allocation during a certain padding check.
<b>Vulnerability Detection Method</b> Send an encrypted padded message and check the returned alert (Record Overflow if vulnerable, Bad Record Mac if no vulnerable. Details: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability OID:1.3.6.1.4.1.25623.1.0.107141 Version used: \$Revision: 11874 \$
<b>References</b> CVE: CVE-2016-2107 Other: URL: <a href="https://www.openssl.org/news/secadv/20160503.txt">https://www.openssl.org/news/secadv/20160503.txt</a>

[ [return to 172.16.0.16](#) ]

#### 2.4.11 Low 10000/tcp

Low (CVSS: 2.6) NVT: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability
<b>Summary</b> This host is installed with OpenSSL and is prone to padding oracle attack.
<b>Vulnerability Detection Result</b> It was possible to send an encrypted data with malformed padding and receive Record Overflow alert from the SSL Server
<b>Impact</b> Exploiting this vulnerability allows remote attackers to obtain sensitive cleartext information via a padding oracle attack against an AES CBC session.
<b>Solution</b> <b>Solution type:</b> VendorFix OpenSSL 1.0.2 users should upgrade to 1.0.2h. OpenSSL 1.0.1 users should upgrade to 1.0.1t.
... continues on next page ...

...continued from previous page ...
<b>Affected Software/OS</b> OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h.
<b>Vulnerability Insight</b> The vulnerability is due to not considering memory allocation during a certain padding check.
<b>Vulnerability Detection Method</b> Send an encrypted padded message and check the returned alert (Record Overflow if vulnerable, Bad Record Mac if no vulnerable. Details: SSL/TLS: OpenSSL 'CVE-2016-2107' Padding Oracle Vulnerability OID:1.3.6.1.4.1.25623.1.0.107141 Version used: \$Revision: 11874 \$
<b>References</b> CVE: CVE-2016-2107 Other: URL: <a href="https://www.openssl.org/news/secadv/20160503.txt">https://www.openssl.org/news/secadv/20160503.txt</a>

[ [return to 172.16.0.16](#) ]

#### 2.4.12 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
<b>Summary</b> The remote host implements TCP timestamps and therefore allows to compute the uptime.
<b>Vulnerability Detection Result</b> It was detected that the host implements RFC1323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 8164949 Packet 2: 8165207
<b>Impact</b> A side effect of this feature is that the uptime of the remote host can sometimes be computed.
<b>Solution</b> <b>Solution type:</b> 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.
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See also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a>
<b>Affected Software/OS</b> TCP/IPv4 implementations that implement RFC1323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323.
<b>Vulnerability Detection Method</b> 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: \$Revision: 10411 \$
<b>References</b> Other: URL: <a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a>

[\[ return to 172.16.0.16 \]](#)

## 2.5 172.16.0.20

Host scan start Tue Oct 30 10:41:28 2018 UTC  
Host scan end Tue Oct 30 11:33:40 2018 UTC

Service (Port)	Threat Level
<a href="#">21/tcp</a>	Medium
<a href="#">general/tcp</a>	Low

### 2.5.1 Medium 21/tcp

Medium (CVSS: 6.4) NVT: Anonymous FTP Login Reporting
<b>Summary</b> Reports if the remote FTP Server allows anonymous logins.
<b>Vulnerability Detection Result</b> It was possible to login to the remote FTP service with the following anonymous ↪account(s): anonymous:openvas-vt@example.com ftp:openvas-vt@example.com Here are the contents of the remote FTP directory listing: Account "anonymous": ...continues on next page ...



...continued from previous page ...					
-rw-r--r--	1	0	0	170 May 19 2015	welcome.msg
Account "ftp":					
-rw-r--r--	1	0	0	170 May 19 2015	welcome.msg
<b>Impact</b> Based on the files accessible via this anonymous FTP login and the permissions of this account an attacker might be able to: <ul style="list-style-type: none"> <li>- gain access to sensitive files</li> <li>- upload or delete files.</li> </ul>					
<b>Solution</b> <b>Solution type:</b> Mitigation If you do not want to share files, you should disable anonymous logins.					
<b>Vulnerability Insight</b> A host that provides an FTP service may additionally provide Anonymous FTP access as well. Under this arrangement, users do not strictly need an account on the host. Instead the user typically enters 'anonymous' or 'ftp' when prompted for username. Although users are commonly asked to send their email address as their password, little to no verification is actually performed on the supplied data.					
<b>Vulnerability Detection Method</b> Details: Anonymous FTP Login Reporting OID:1.3.6.1.4.1.25623.1.0.900600 Version used: \$Revision: 12030 \$					
<b>References</b> Other: URL: <a href="https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0497">https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0497</a>					

Medium (CVSS: 5.0)

NVT: FTP Writeable Directories

**Summary**

The remote FTP server contains world-writeable files.

By crawling through the remote FTP server, several directories were marked as being world writeable.

**Vulnerability Detection Result**

- /

**Impact**

An attacker may use this misconfiguration problem to use the remote FTP server to host arbitrary data, including possibly illegal content (ie: Divx movies, etc...).

**Solution**

... continues on next page ...

...continued from previous page ...
<b>Solution type:</b> Mitigation Configure the remote FTP directories so that they are not world-writeable.
<b>Vulnerability Detection Method</b> Details: FTP Writeable Directories OID:1.3.6.1.4.1.25623.1.0.19782 Version used: \$Revision: 9541 \$

[ [return to 172.16.0.20](#) ]

### 2.5.2 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
<b>Summary</b> The remote host implements TCP timestamps and therefore allows to compute the uptime.
<b>Vulnerability Detection Result</b> It was detected that the host implements RFC1323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 8256334 Packet 2: 8256591
<b>Impact</b> A side effect of this feature is that the uptime of the remote host can sometimes be computed.
<b>Solution</b> <b>Solution type:</b> 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 also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a>
<b>Affected Software/OS</b> TCP/IPv4 implementations that implement RFC1323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323.
<b>Vulnerability Detection Method</b> ... continues on next page ...

...continued from previous page ...
<p>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.</p> <p>Details: TCP timestamps  OID:1.3.6.1.4.1.25623.1.0.80091  Version used: \$Revision: 10411 \$</p>
<p><b>References</b></p> <p>Other:  URL:<a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a></p>

[\[ return to 172.16.0.20 \]](#)

## 2.6 172.16.0.11

Host scan start Tue Oct 30 10:41:28 2018 UTC  
Host scan end Tue Oct 30 11:19:06 2018 UTC

Service (Port)	Threat Level
<a href="#">22/tcp</a>	Medium
<a href="#">general/tcp</a>	Low
<a href="#">22/tcp</a>	Low

### 2.6.1 Medium 22/tcp

<p>Medium (CVSS: 4.3)  NVT: SSH Weak Encryption Algorithms Supported</p>
<p><b>Summary</b></p> <p>The remote SSH server is configured to allow weak encryption algorithms.</p>
<p><b>Vulnerability Detection Result</b></p> <p>The following weak client-to-server encryption algorithms are supported by the remote service:</p> <pre>3des-cbc aes128-cbc aes192-cbc aes256-cbc arcfour arcfour128 arcfour256 blowfish-cbc cast128-cbc rijndael-cbc@lysator.liu.se</pre> <p>The following weak server-to-client encryption algorithms are supported by the remote service:</p>
...continues on next page ...

...continued from previous page ...
3des-cbc aes128-cbc aes192-cbc aes256-cbc arcfour arcfour128 arcfour256 blowfish-cbc cast128-cbc rijndael-cbc@lysator.liu.se
<b>Solution</b> <b>Solution type:</b> Mitigation Disable the weak encryption algorithms.
<b>Vulnerability Insight</b> The ‘arcfour’ cipher is the Arcfour stream cipher with 128-bit keys. The Arcfour cipher is believed to be compatible with the RC4 cipher [SCHNEIER]. Arcfour (and RC4) has problems with weak keys, and should not be used anymore. The ‘none’ algorithm specifies that no encryption is to be done. Note that this method provides no confidentiality protection, and it is NOT RECOMMENDED to use it. A vulnerability exists in SSH messages that employ CBC mode that may allow an attacker to recover plaintext from a block of ciphertext.
<b>Vulnerability Detection Method</b> Check if remote ssh service supports Arcfour, none or CBC ciphers. Details: SSH Weak Encryption Algorithms Supported OID:1.3.6.1.4.1.25623.1.0.105611 Version used: \$Revision: 4490 \$
<b>References</b> Other: URL: <a href="https://tools.ietf.org/html/rfc4253#section-6.3">https://tools.ietf.org/html/rfc4253#section-6.3</a> URL: <a href="https://www.kb.cert.org/vuls/id/958563">https://www.kb.cert.org/vuls/id/958563</a>

[\[ return to 172.16.0.11 \]](#)

### 2.6.2 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
<b>Summary</b> The remote host implements TCP timestamps and therefore allows to compute the uptime.
<b>Vulnerability Detection Result</b> ... continues on next page ...

...continued from previous page ...
<p>It was detected that the host implements RFC1323.</p> <p>The following timestamps were retrieved with a delay of 1 seconds in-between:</p> <p>Packet 1: 9468086</p> <p>Packet 2: 9468412</p>
<p><b>Impact</b></p> <p>A side effect of this feature is that the uptime of the remote host can sometimes be computed.</p>
<p><b>Solution</b></p> <p><b>Solution type:</b> Mitigation</p> <p>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.</p> <p>To disable TCP timestamps on Windows execute 'netsh int tcp set global timestamps=disabled'</p> <p>Starting with Windows Server 2008 and Vista, the timestamp can not be completely disabled.</p> <p>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.</p> <p>See also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a></p>
<p><b>Affected Software/OS</b></p> <p>TCP/IPv4 implementations that implement RFC1323.</p>
<p><b>Vulnerability Insight</b></p> <p>The remote host implements TCP timestamps, as defined by RFC1323.</p>
<p><b>Vulnerability Detection Method</b></p> <p>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.</p> <p>Details: TCP timestamps</p> <p>OID:1.3.6.1.4.1.25623.1.0.80091</p> <p>Version used: \$Revision: 10411 \$</p>
<p><b>References</b></p> <p><b>Other:</b></p> <p>URL:<a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a></p>

[\[ return to 172.16.0.11 \]](#)

### 2.6.3 Low 22/tcp

<p>Low (CVSS: 2.6)</p> <p>NVT: SSH Weak MAC Algorithms Supported</p>
<p><b>Summary</b></p> <p>The remote SSH server is configured to allow weak MD5 and/or 96-bit MAC algorithms.</p> <p>... continues on next page ...</p>

...continued from previous page ...

**Vulnerability Detection Result**

The following weak client-to-server MAC algorithms are supported by the remote s  
↔service:

hmac-md5

hmac-md5-96

hmac-sha1-96

hmac-sha2-256-96

hmac-sha2-512-96

The following weak server-to-client MAC algorithms are supported by the remote s  
↔service:

hmac-md5

hmac-md5-96

hmac-sha1-96

hmac-sha2-256-96

hmac-sha2-512-96

**Solution**

**Solution type:** Mitigation

Disable the weak MAC algorithms.

**Vulnerability Detection Method**

Details: SSH Weak MAC Algorithms Supported

OID:1.3.6.1.4.1.25623.1.0.105610

Version used: \$Revision: 4490 \$

[\[ return to 172.16.0.11 \]](#)

**2.7 172.16.0.1**

Host scan start Tue Oct 30 10:41:28 2018 UTC

Host scan end Tue Oct 30 11:11:31 2018 UTC

Service (Port)	Threat Level
<a href="#">general/tcp</a>	Low

**2.7.1 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**

... continues on next page ...

...continued from previous page...
<p>It was detected that the host implements RFC1323.</p> <p>The following timestamps were retrieved with a delay of 1 seconds in-between:</p> <p>Packet 1: 956617703</p> <p>Packet 2: 956618759</p>
<p><b>Impact</b></p> <p>A side effect of this feature is that the uptime of the remote host can sometimes be computed.</p>
<p><b>Solution</b></p> <p><b>Solution type:</b> Mitigation</p> <p>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.</p> <p>To disable TCP timestamps on Windows execute 'netsh int tcp set global timestamps=disabled'</p> <p>Starting with Windows Server 2008 and Vista, the timestamp can not be completely disabled.</p> <p>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.</p> <p>See also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a></p>
<p><b>Affected Software/OS</b></p> <p>TCP/IPv4 implementations that implement RFC1323.</p>
<p><b>Vulnerability Insight</b></p> <p>The remote host implements TCP timestamps, as defined by RFC1323.</p>
<p><b>Vulnerability Detection Method</b></p> <p>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.</p> <p>Details: TCP timestamps</p> <p>OID:1.3.6.1.4.1.25623.1.0.80091</p> <p>Version used: \$Revision: 10411 \$</p>
<p><b>References</b></p> <p>Other:</p> <p>URL:<a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a></p>

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## 2.8 172.16.0.21

Host scan start Tue Oct 30 10:41:31 2018 UTC  
 Host scan end Tue Oct 30 11:19:51 2018 UTC

Service (Port)	Threat Level
<a href="#">general/tcp</a>	Low

## 2.8.1 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
<b>Summary</b> The remote host implements TCP timestamps and therefore allows to compute the uptime.
<b>Vulnerability Detection Result</b> It was detected that the host implements RFC1323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 8038180 Packet 2: 8038440
<b>Impact</b> A side effect of this feature is that the uptime of the remote host can sometimes be computed.
<b>Solution</b> <b>Solution type:</b> 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 also: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=9152">http://www.microsoft.com/en-us/download/details.aspx?id=9152</a>
<b>Affected Software/OS</b> TCP/IPv4 implementations that implement RFC1323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323.
<b>Vulnerability Detection Method</b> 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: \$Revision: 10411 \$
<b>References</b> Other: URL: <a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a>

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