

# Scan Report

November 10, 2019

## 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 “Final Project Scan 1”. The scan started at Sun Nov 10 01:44:03 2019 UTC and ended at Sun Nov 10 01:53:28 2019 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="#">192.168.1.101</a> <a href="#">www.goodshopping.com</a>	1	7	1	0	0
Total: 1	1	7	1	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 9 results selected by the filtering described above. Before filtering there were 60 results.

## 2 Results per Host

### 2.1 192.168.1.101

Host scan start Sun Nov 10 01:44:27 2019 UTC

Host scan end Sun Nov 10 01:53:28 2019 UTC

Service (Port)	Threat Level
<a href="#">80/tcp</a>	High
<a href="#">135/tcp</a>	Medium
<a href="#">80/tcp</a>	Medium
<a href="#">21/tcp</a>	Medium
<a href="#">3389/tcp</a>	Medium
<a href="#">general/tcp</a>	Low

#### 2.1.1 High 80/tcp

High (CVSS: 10.0)  
NVT: MS15-034 HTTP.sys Remote Code Execution Vulnerability (remote check)

##### Summary

This host is missing an important security update according to Microsoft Bulletin MS15-034.

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<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 The vendor has released updates. Please see the references for more information.
<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 Version used: 2019-05-03T12:31:27+0000
<b>References</b> CVE: CVE-2015-1635 Other: URL:https://support.microsoft.com/kb/3042553 URL:https://technet.microsoft.com/library/security/MS15-034 URL:http://pastebin.com/ypURDPc4

[ [return to 192.168.1.101](#) ]

### 2.1.2 Medium 135/tcp

Medium (CVSS: 5.0) NVT: DCE/RPC and MSRPC Services Enumeration Reporting
<b>Summary</b> ... continues on next page ...

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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: 2103/tcp

UUID: 1088a980-eae5-11d0-8d9b-00a02453c337, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2103]  
 Annotation: Message Queuing - QM2QM V1  
 UUID: 1a9134dd-7b39-45ba-ad88-44d01ca47f28, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2103]  
 Annotation: Message Queuing - RemoteRead V1  
 UUID: 76d12b80-3467-11d3-91ff-0090272f9ea3, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2103]  
 Annotation: Message Queuing - QMRT V2  
 UUID: fdb3a030-065f-11d1-bb9b-00a024ea5525, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2103]  
 Annotation: Message Queuing - QMRT V1

Port: 2105/tcp

UUID: 1088a980-eae5-11d0-8d9b-00a02453c337, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2105]  
 Annotation: Message Queuing - QM2QM V1  
 UUID: 1a9134dd-7b39-45ba-ad88-44d01ca47f28, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2105]  
 Annotation: Message Queuing - RemoteRead V1  
 UUID: 76d12b80-3467-11d3-91ff-0090272f9ea3, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2105]  
 Annotation: Message Queuing - QMRT V2  
 UUID: fdb3a030-065f-11d1-bb9b-00a024ea5525, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2105]  
 Annotation: Message Queuing - QMRT V1

Port: 2107/tcp

UUID: 1088a980-eae5-11d0-8d9b-00a02453c337, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2107]  
 Annotation: Message Queuing - QM2QM V1  
 UUID: 1a9134dd-7b39-45ba-ad88-44d01ca47f28, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2107]  
 Annotation: Message Queuing - RemoteRead V1  
 UUID: 76d12b80-3467-11d3-91ff-0090272f9ea3, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2107]  
 Annotation: Message Queuing - QMRT V2  
 UUID: fdb3a030-065f-11d1-bb9b-00a024ea5525, version 1  
 Endpoint: ncacn\_ip\_tcp:192.168.1.101[2107]  
 Annotation: Message Queuing - QMRT V1

Port: 49152/tcp

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UUID: d95afe70-a6d5-4259-822e-2c84da1ddb0d, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49152]	
Port: 49153/tcp	
UUID: 30adc50c-5cbc-46ce-9a0e-91914789e23c, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49153]	
Annotation: NRP server endpoint	
UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d5, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49153]	
Annotation: DHCP Client LRPC Endpoint	
UUID: 3c4728c5-f0ab-448b-bda1-6ce01eb0a6d6, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49153]	
Annotation: DHCPv6 Client LRPC Endpoint	
UUID: abfb6ca3-0c5e-4734-9285-0aee72fe8d1c, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49153]	
Annotation: Wcm Service	
UUID: f6beaff7-1e19-4fbb-9f8f-b89e2018337c, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49153]	
Annotation: Event log TCPIP	
Port: 49154/tcp	
UUID: 1a0d010f-1c33-432c-b0f5-8cf4e8053099, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: IdSegSrv service	
UUID: 2e6035b2-e8f1-41a7-a044-656b439c4c34, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: Proxy Manager provider server endpoint	
UUID: 30b044a5-a225-43f0-b3a4-e060df91f9c1, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
UUID: 3a9ef155-691d-4449-8d05-09ad57031823, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
UUID: 552d076a-cb29-4e44-8b6a-d15e59e2c0af, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: IP Transition Configuration endpoint	
UUID: 86d35949-83c9-4044-b424-db363231fd0c, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
UUID: 98716d03-89ac-44c7-bb8c-285824e51c4a, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: XactSrv service	
UUID: a398e520-d59a-4bdd-aa7a-3c1e0303a511, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: IKE/Authip API	
UUID: c36be077-e14b-4fe9-8abc-e856ef4f048b, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: Proxy Manager client server endpoint	
UUID: c49a5a70-8a7f-4e70-ba16-1e8f1f193ef1, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: Adh APIs	
UUID: c9ac6db5-82b7-4e55-ae8a-e464ed7b4277, version 1	
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Endpoint: ncacn_ip_tcp:192.168.1.101[49154]	
Annotation: Impl friendly name	
Port: 49155/tcp	
UUID: 0b6edbf8-4a24-4fc6-8a23-942b1eca65d1, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49155]	
UUID: 12345678-1234-abcd-ef00-0123456789ab, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49155]	
Named pipe : spoolss	
Win32 service or process : spoolsv.exe	
Description : Spooler service	
UUID: 4a452661-8290-4b36-8f8e-7f4093a94978, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49155]	
UUID: 76f03f96-cdfd-44fc-a22c-64950a001209, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49155]	
UUID: ae33069b-a2a8-46ee-a235-ddfd339be281, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49155]	
Port: 49156/tcp	
UUID: 1088a980-eae5-11d0-8d9b-00a02453c337, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49156]	
Annotation: Message Queuing - QM2QM V1	
UUID: 1a9134dd-7b39-45ba-ad88-44d01ca47f28, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49156]	
Annotation: Message Queuing - RemoteRead V1	
UUID: 76d12b80-3467-11d3-91ff-0090272f9ea3, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49156]	
Annotation: Message Queuing - QMRT V2	
UUID: fdb3a030-065f-11d1-bb9b-00a024ea5525, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49156]	
Annotation: Message Queuing - QMRT V1	
Port: 49157/tcp	
UUID: 12345778-1234-abcd-ef00-0123456789ac, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49157]	
Named pipe : lsass	
Win32 service or process : lsass.exe	
Description : SAM access	
Port: 49217/tcp	
UUID: 367abb81-9844-35f1-ad32-98f038001003, version 2	
Endpoint: ncacn_ip_tcp:192.168.1.101[49217]	
Port: 49218/tcp	
UUID: 6b5bdd1e-528c-422c-af8c-a4079be4fe48, version 1	
Endpoint: ncacn_ip_tcp:192.168.1.101[49218]	
Annotation: Remote Fw APIs	
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>	
...continues on next page...	

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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 \$

[\[ return to 192.168.1.101 \]](#)

### 2.1.3 Medium 80/tcp

Medium (CVSS: 4.8) NVT: Cleartext Transmission of Sensitive Information via HTTP
<b>Summary</b> The host / application transmits sensitive information (username, passwords) in cleartext via HTTP.
<b>Vulnerability Detection Result</b> The following input fields were identified (URL:input name): http://www.goodshopping.com/:txtPassword
<b>Impact</b> An attacker could use this situation to compromise or eavesdrop on the HTTP communication between the client and the server using a man-in-the-middle attack to get access to sensitive data like usernames or passwords.
<b>Solution</b> <b>Solution type:</b> Workaround Enforce the transmission of sensitive data via an encrypted SSL/TLS connection. Additionally make sure the host / application is redirecting all users to the secured SSL/TLS connection before allowing to input sensitive data into the mentioned functions.
<b>Affected Software/OS</b> Hosts / applications which doesn't enforce the transmission of sensitive data via an encrypted SSL/TLS connection.
<b>Vulnerability Detection Method</b> Evaluate previous collected information and check if the host / application is not enforcing the transmission of sensitive data via an encrypted SSL/TLS connection. The script is currently checking the following: - HTTP Basic Authentication (Basic Auth)
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<p>- HTTP Forms (e.g. Login) with input field of type 'password'</p> <p>Details: Cleartext Transmission of Sensitive Information via HTTP</p> <p>OID:1.3.6.1.4.1.25623.1.0.108440</p> <p>Version used: \$Revision: 10726 \$</p>
<p><b>References</b></p> <p>Other:</p> <p>URL:https://www.owasp.org/index.php/Top_10_2013-A2-Broken_Authentication_and_Session_Management</p> <p>URL:https://www.owasp.org/index.php/Top_10_2013-A6-Sensitive_Data_Exposure</p> <p>URL:https://cwe.mitre.org/data/definitions/319.html</p>

[ [return to 192.168.1.101](#) ]

### 2.1.4 Medium 21/tcp

Medium (CVSS: 6.4)																																																																					
NVT: Anonymous FTP Login Reporting																																																																					
<div>Summary</div> <div>Reports if the remote FTP Server allows anonymous logins.</div>																																																																					
<div>Vulnerability Detection Result</div> <div>It was possible to login to the remote FTP service with the following anonymous ↵account(s):</div> <div>anonymous:anonymous@example.com</div> <div>ftp:anonymous@example.com</div> <div>Here are the contents of the remote FTP directory listing:</div> <div>Account "anonymous":</div> <table><tr><td>10-18-18</td><td>09:32AM</td><td>&lt;DIR&gt;</td><td>bin</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>14205 blog.aspx</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>540 blog.aspx.cs</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>31970 catalog.aspx</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>537 catalog.aspx.cs</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>9479 contactus.aspx</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>563 contactus.aspx.cs</td></tr><tr><td>10-18-18</td><td>09:32AM</td><td>&lt;DIR&gt;</td><td>css</td></tr><tr><td>10-18-18</td><td>09:32AM</td><td>&lt;DIR&gt;</td><td>DB</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>516 Default.aspx</td></tr><tr><td>10-08-19</td><td>08:22AM</td><td></td><td>1804 Default.aspx.cs</td></tr><tr><td>10-18-18</td><td>09:32AM</td><td>&lt;DIR&gt;</td><td>font</td></tr><tr><td>12-19-17</td><td>11:46AM</td><td></td><td>1113 GoodShopping.sln</td></tr><tr><td>10-18-18</td><td>09:32AM</td><td>&lt;DIR&gt;</td><td>images</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>9432 index.aspx</td></tr><tr><td>12-20-17</td><td>09:27AM</td><td></td><td>568 index.aspx.cs</td></tr><tr><td>10-18-18</td><td>09:32AM</td><td>&lt;DIR&gt;</td><td>js</td></tr></table> <div>... continues on next page ...</div>		10-18-18	09:32AM	<DIR>	bin	12-20-17	09:27AM		14205 blog.aspx	12-20-17	09:27AM		540 blog.aspx.cs	12-20-17	09:27AM		31970 catalog.aspx	12-20-17	09:27AM		537 catalog.aspx.cs	12-20-17	09:27AM		9479 contactus.aspx	12-20-17	09:27AM		563 contactus.aspx.cs	10-18-18	09:32AM	<DIR>	css	10-18-18	09:32AM	<DIR>	DB	12-20-17	09:27AM		516 Default.aspx	10-08-19	08:22AM		1804 Default.aspx.cs	10-18-18	09:32AM	<DIR>	font	12-19-17	11:46AM		1113 GoodShopping.sln	10-18-18	09:32AM	<DIR>	images	12-20-17	09:27AM		9432 index.aspx	12-20-17	09:27AM		568 index.aspx.cs	10-18-18	09:32AM	<DIR>	js
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12-20-17	09:27AM		568 index.aspx.cs																																																																		
10-18-18	09:32AM	<DIR>	js																																																																		



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12-20-17	09:27AM		13209 login.aspx
12-20-17	09:27AM		1009 login.aspx.cs
12-20-17	09:27AM		441 logout.aspx
12-20-17	09:27AM		664 logout.aspx.cs
10-18-18	09:32AM	<DIR>	pdf
12-20-17	09:27AM		28292 product.aspx
12-20-17	09:27AM		535 product.aspx.cs
10-18-18	09:32AM	<DIR>	tmp
10-18-18	04:03PM		8622 Web.config
Account "ftp":			
10-18-18	09:32AM	<DIR>	bin
12-20-17	09:27AM		14205 blog.aspx
12-20-17	09:27AM		540 blog.aspx.cs
12-20-17	09:27AM		31970 catalog.aspx
12-20-17	09:27AM		537 catalog.aspx.cs
12-20-17	09:27AM		9479 contactus.aspx
12-20-17	09:27AM		563 contactus.aspx.cs
10-18-18	09:32AM	<DIR>	css
10-18-18	09:32AM	<DIR>	DB
12-20-17	09:27AM		516 Default.aspx
10-08-19	08:22AM		1804 Default.aspx.cs
10-18-18	09:32AM	<DIR>	font
12-19-17	11:46AM		1113 GoodShopping.sln
10-18-18	09:32AM	<DIR>	images
12-20-17	09:27AM		9432 index.aspx
12-20-17	09:27AM		568 index.aspx.cs
10-18-18	09:32AM	<DIR>	js
12-20-17	09:27AM		13209 login.aspx
12-20-17	09:27AM		1009 login.aspx.cs
12-20-17	09:27AM		441 logout.aspx
12-20-17	09:27AM		664 logout.aspx.cs
10-18-18	09:32AM	<DIR>	pdf
12-20-17	09:27AM		28292 product.aspx
12-20-17	09:27AM		535 product.aspx.cs
10-18-18	09:32AM	<DIR>	tmp
10-18-18	04:03PM		8622 Web.config
<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.			
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**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 \$

**References**

Other:

URL:<https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-1999-0497>

Medium (CVSS: 4.8)

NVT: FTP Unencrypted Cleartext Login

**Summary**

The remote host is running a FTP service that allows cleartext logins over unencrypted connections.

**Vulnerability Detection Result**

The remote FTP service accepts logins without a previous sent 'AUTH TLS' command ↵. Response(s):

Anonymous sessions: 331 Anonymous access allowed, send identity (e-mail name ↵) as password.

Non-anonymous sessions: 331 Password required

**Impact**

An attacker can uncover login names and passwords by sniffing traffic to the FTP service.

**Solution**

**Solution type:** Mitigation

Enable FTPS or enforce the connection via the 'AUTH TLS' command. Please see the manual of the FTP service for more information.

**Vulnerability Detection Method**

Tries to login to a non FTPS enabled FTP service without sending a 'AUTH TLS' command first and checks if the service is accepting the login without enforcing the use of the 'AUTH TLS' command.

Details: FTP Unencrypted Cleartext Login

OID:1.3.6.1.4.1.25623.1.0.108528

Version used: \$Revision: 13611 \$

[\[ return to 192.168.1.101 \]](#)

### 2.1.5 Medium 3389/tcp

Medium (CVSS: 4.3) NVT: SSL/TLS: Report Weak Cipher Suites
<p><b>Summary</b></p> <p>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.</p>
<p><b>Vulnerability Detection Result</b></p> <p>'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</p>
<p><b>Solution</b></p> <p><b>Solution type:</b> Mitigation</p> <p>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.</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  OID:1.3.6.1.4.1.25623.1.0.103440  Version used: \$Revision: 11135 \$</p>
<p><b>References</b></p> <p>CVE: CVE-2013-2566, CVE-2015-2808, CVE-2015-4000  Other:</p>
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<p>...continued from previous page ...</p> <p>URL:https://www.bsi.bund.de/SharedDocs/Warnmeldungen/DE/CB/warnmeldung_cb-k16-↵1465_update_6.html</p> <p>URL:https://bettercrypto.org/</p> <p>URL:https://mozilla.github.io/server-side-tls/ssl-config-generator/</p>
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Medium (CVSS: 4.0)

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

### Summary

The remote service is using a SSL/TLS certificate in the certificate chain that has been signed using a cryptographically weak hashing algorithm.

### Vulnerability Detection Result

The following certificates are part of the certificate chain but using insecure ↵signature algorithms:

Subject: CN=Server2016

Signature Algorithm: sha1WithRSAEncryption

### 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: 11524 \$

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**References****Other:**

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

Medium (CVSS: 4.0)

NVT: SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability

**Summary**

The SSL/TLS service uses Diffie-Hellman groups with insufficient strength (key size < 2048).

**Vulnerability Detection Result**

Server Temporary Key Size: 1024 bits

**Impact**

An attacker might be able to decrypt the SSL/TLS communication offline.

**Solution**

**Solution type:** Workaround

Deploy (Ephemeral) Elliptic-Curve Diffie-Hellman (ECDHE) or use a 2048-bit or stronger Diffie-Hellman group (see the references).

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.

**Vulnerability Insight**

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.

**Vulnerability Detection Method**

Checks the DHE temporary public key size.

Details: SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability.  
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OID:1.3.6.1.4.1.25623.1.0.106223

Version used: \$Revision: 12865 \$

**References****Other:**

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

URL:<https://weakdh.org/sysadmin.html>

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## 2.1.6 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: 157560977 Packet 2: 157561085
<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 the references for more information.
<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: 14310 \$
<b>References</b> Other: URL: <a href="http://www.ietf.org/rfc/rfc1323.txt">http://www.ietf.org/rfc/rfc1323.txt</a> URL: <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>

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