Report Metasploitable

metaspioitable	
	Wed, 23 Aug 2023 19:58:52 CEST
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Vulnerabilities by Host	
• 192 168 50 2	4

192.168.50.2



Scan Information

Start time: Wed Aug 23 19:36:32 2023 End time: Wed Aug 23 19:58:52 2023

Host Information

Netbios Name:

METASPLOITABLE IP:

192.168.50.2

MAC Address: CA:01:F0:3E:DD:B1

OS: Linux Kernel 2.6 on Ubuntu 8.04 (hardy)

Vulnerabilities

134862 - Apache Tomcat AJP Connector Request Injection (Ghostcat)

Synopsis

There is a vulnerable AJP connector listening on the remote host.

Description

A file read/inclusion vulnerability was found in AJP connector. A remote, unauthenticated attacker could exploit this vulnerability to read web application files from a vulnerable server. In instances where the vulnerable server allows file uploads, an attacker could upload malicious JavaServer Pages (JSP) code within a variety of file types and gain remote code execution (RCE).

Solution	
Update the AJP 9.0.31 or later.	configuration to require authorization and/or upgrade the Tomcat server to 7.0.100, 8.5.51,
Risk Factor	
High	
CVSS v3.0 Base	Score
9.8 (CVSS:3.0/A	V:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)
References	
CVE CVE XREF XREF	CVE-2020-1745 CVE-2020-1938 CISA-KNOWN-EXPLOITED:2022/03/17 CEA-ID:CEA-2020-0021
Port	
tcp/8009/ajp13	

51988 - Bind Shell Backdoor Detection

Synopsis
The remote host may have been compromised.
Description
A shell is listening on the remote port without any authentication being required. An attacker may use it by connecting to the remote port and sending commands directly.
Solution
Verify if the remote host has been compromised, and reinstall the system if necessary.
Risk Factor
Critical
CVSS v3.0 Base Score
9.8 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)
Port tcp/1524/
wild_shell

32314 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness

Synopsis	
The remote	SSH host keys are weak.
Description	
	SSH host key has been generated on a Debian or Ubuntu system which contains a bug in the random erator of its OpenSSL library.
The problem OpenSSL.	is due to a Debian packager removing nearly all sources of entropy in the remote version of
	can easily obtain the private part of the remote key and use this to set up decipher the remote session nan in the middle attack.
Solution	
	cryptographic material generated on the remote host to be guessable. In particuliar, all SSH, SSL PN key material should be re-generated.
Risk Factor	
Critical	
VPR Score	
7.4	
CVSS v2.0 E	Base Score
10.0 (CVSS2	2#AV:N/AC:L/Au:N/C:C/I:C/A:C)
References	
BID CVE XREF	29179 CVE-2008-0166 CWE:310

192.168.50.2

Exploitable With Core	
Impact (true)	
Port	
tcp/22/ssh	
(C)/22/33/1	

32321 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)

Synopsis	
The remote SS	L certificate uses a weak key.
Description	
	9 certificate on the remote SSL server has been generated on a Debian or Ubuntu system which in the random number generator of its OpenSSL library.
The problem is OpenSSL.	due to a Debian packager removing nearly all sources of entropy in the remote version of
An attacker can up a man in the	easily obtain the private part of the remote key and use this to decipher the remote session or set middle attack.
Solution	
	ptographic material generated on the remote host to be guessable. In particuliar, all SSH, SSL key material should be re-generated.
Risk Factor	
Critical	
VPR Score	
7.4	
CVSS v2.0 Bas	e Score
10.0 (CVSS2#A	V:N/AC:L/Au:N/C:C/I:C/A:C)
References	
BID CVE XREF _{8.50.2}	29179 CVE-2008-0166 CWE:310

Exploitable With Core
Impact (true)
Port tcp/25/
smtp

32321 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)

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Description	
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Solution	
	ptographic material generated on the remote host to be guessable. In particuliar, all SSH, SSL key material should be re-generated.
Risk Factor	
Critical	
VPR Score	
7.4	
CVSS v2.0 Bas	e Score
10.0 (CVSS2#A	V:N/AC:L/Au:N/C:C/I:C/A:C)
References	
BID CVE XREF _{8.50.2}	29179 CVE-2008-0166 CWE:310

Exploitable With Core	
Impact (true)	
Port tcp/5432/	
postgresql	

11356 - NFS Exported Share Information Disclosure

Synopsis	
It is possible to a	access NFS shares on the remote host.
Description	
	he NFS shares exported by the remote server could be mounted by the scanning host. An attacker leverage this to read (and possibly write) files on remote host.
Solution	
Configure NFS	on the remote host so that only authorized hosts can mount its remote shares.
Risk Factor	
Critical	
VPR Score	
5.9	
CVSS v2.0 Base	e Score
10.0 (CVSS2#A	V:N/AC:L/Au:N/C:C/I:C/A:C)
References	
CVE	CVE-1999-0170
CVE CVE	CVE-1999-0211 CVE-1999-0554
Exploitable With Metasploit (true	
Port	,
udp/2049/rpc-nf	'S

20007 - SSL Version 2 and 3 Protocol Detection

Synopsis
The remote service encrypts traffic using a protocol with known weaknesses.
Description
The remote service accepts connections encrypted using SSL 2.0 and/or SSL 3.0. These versions of SSL are affected by several cryptographic flaws, including:
- An insecure padding scheme with CBC ciphers.
- Insecure session renegotiation and resumption schemes.
An attacker can exploit these flaws to conduct man-in-the-middle attacks or to decrypt communications between the affected service and clients.
Although SSL/TLS has a secure means for choosing the highest supported version of the protocol (so that these versions will be used only if the client or server support nothing better), many web browsers implement this in an unsafe way that allows an attacker to downgrade a connection (such as in POODLE). Therefore, it is recommended that these protocols be disabled entirely.
NIST has determined that SSL 3.0 is no longer acceptable for secure communications. As of the date of enforcement found in PCI DSS v3.1, any version of SSL will not meet the PCI SSC's definition of 'strong cryptography'.
Solution
Solution Consult the application's documentation to disable SSL 2.0 and 3.0. Use TLS 1.2 (with approved cipher suites) or higher instead.
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- An insecure padding scheme with CBC ciphers.
- Insecure session renegotiation and resumption schemes.
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Although SSL/TLS has a secure means for choosing the highest supported version of the protocol (so that these versions will be used only if the client or server support nothing better), many web browsers implement this in an unsafe way that allows an attacker to downgrade a connection (such as in POODLE). Therefore, it is recommended that these protocols be disabled entirely.
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Solution
Consult the application's documentation to disable SSL 2.0 and 3.0. Use TLS 1.2 (with approved cipher suites) or higher instead.
Risk Factor
Critical
CVSS v3.0 Base Score
9.8 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)
Port tcp/5432/
postgresql

33850 - Unix Operating System Unsupported Version Detection

Synopsis	
The operating s	system running on the remote host is no longer supported.
Description	
According to its	s self-reported version number, the Unix operating system running on the remote host is no ed.
	implies that no new security patches for the product will be released by the vendor. As a result, it is security vulnerabilities.
Solution	
Upgrade to a v	rersion of the Unix operating system that is currently supported.
Risk Factor	
Critical	
CVSS v3.0 Bas	e Score
10.0 (CVSS:3.0	/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H)
References	
XREF XREF	IAVA:0001-A-0502 IAVA:0001-A-0648
Port tcp/	
0	

61708 - VNC Server 'password' Password

Synopsis
A VNC server running on the remote host is secured with a weak password.
Description
The VNC server running on the remote host is secured with a weak password. Nessus was able to login using VNC authentication and a password of 'password'. A remote, unauthenticated attacker could exploit this to take control of the system.
Solution
Secure the VNC service with a strong password.
Risk Factor
Critical
CVSS v2.0 Base Score
10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)
Port
tcp/5900/vnc

136769 - ISC BIND Service Downgrade / Reflected DoS

Synopsis The remote name server is affected by Service Downgrade / Reflected DoS vulnerabilities.	
affected by perf	self-reported version, the instance of ISC BIND 9 running on the remote name server is formance downgrade and Reflected DoS vulnerabilities. This is due to BIND DNS not ag the number fetches which may be performed while processing a referral response.
An unauthenticated, remote attacker can exploit this to cause degrade the service of the recursive server or to use the affected server as a reflector in a reflection attack.	
Solution	
Upgrade to the IS	SC BIND version referenced in the vendor advisory.
Risk Factor	
Medium	
CVSS v3.0 Base	Score
8.6 (CVSS:3.0/A	V:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:H)
References	
CVE XREF	CVE-2020-8616 IAVA:2020-A-0217-S
Port	
udp/53/dns	

42256 - NFS Shares World Readable

Synopsis
The remote NFS server exports world-readable shares.
Description
The remote NFS server is exporting one or more shares without restricting access (based on hostname, IP, or IP range).
Solution
Place the appropriate restrictions on all NFS shares.
Risk Factor
Medium
CVSS v3.0 Base Score
7.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N)
Port tcp/2049/rpc-
nfs

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

Synopsis	
The remote	e service supports the use of medium strength SSL ciphers.
Description	
	e host supports the use of SSL ciphers that offer medium strength encryption. Nessus regards medium any encryption that uses key lengths at least 64 bits and less than 112 bits, or else that uses the 3DES suite.
Note that it network.	is considerably easier to circumvent medium strength encryption if the attacker is on the same physical
Solution	
Reconfigur	e the affected application if possible to avoid use of medium strength ciphers.
Risk Factor	r
Medium	
CVSS v3.0	Base Score
7.5 (CVSS:	:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N)
Reference	s
CVE	CVE-2016-2183
Port tcp/25/	
smtp	

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

Synopsis
The remote service supports the use of medium strength SSL ciphers.
Description
The remote host supports the use of SSL ciphers that offer medium strength encryption. Nessus regards medium strength as any encryption that uses key lengths at least 64 bits and less than 112 bits, or else that uses the 3DES encryption suite.
Note that it is considerably easier to circumvent medium strength encryption if the attacker is on the same physical network.
Solution
Reconfigure the affected application if possible to avoid use of medium strength ciphers.
Risk Factor
Medium
CVSS v3.0 Base Score
7.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N)
References
CVE CVE-2016-2183
Port
102 168 50 2

192.168.50.2 tcp/5432/postgresql

90509 - Samba Badlock Vulnerability

Synopsis	
An SMB server	running on the remote host is affected by the Badlock vulnerability.
Description	
The version of Samba, a CIFS/SMB server for Linux and Unix, running on the remote host is affected by a flaw, known as Badlock, that exists in the Security Account Manager (SAM) and Local Security Authority (Domain Policy) (LSAD) protocols due to improper authentication level negotiation over Remote Procedure Call (RPC) channels. A man-in-the-middle attacker who is able to able to intercept the traffic between a client and a server hosting a SAM database can exploit this flaw to force a downgrade of the authentication level, which allows the execution of arbitrary Samba network calls in the context of the intercepted user, such as viewing or modifying sensitive security data in the Active Directory (AD) database or disabling critical services.	
Colution	
Solution	
Upgrade to Sar	mba version 4.2.11 / 4.3.8 / 4.4.2 or later.
Risk Factor	
Medium	
CVSS v3.0 Bas	e Score
7.5 (CVSS:3.0//	AV:N/AC:H/PR:N/UI:R/S:U/C:H/I:H/A:H)
References	
BID CVE XREF	86002 CVE-2016-2118 CERT:813296
Port	
tcp/445/cifs	

11213 - HTTP TRACE / TRACK Methods Allowed

XREF

CERT:288308

Synopsis	
Debugging functi	ons are enabled on the remote web server.
Description	
The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods that are used to debug web server connections.	
Solution	
Disable these H	TTP methods. Refer to the plugin output for more information.
Risk Factor	
Medium	
CVSS v3.0 Base	Score
5.3 (CVSS:3.0/A)	/:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N)
3.7 (CVSS2#E:U	/RL:OF/RC:C)
References	
BID	9506
BID	9561
BID	11604
BID	33374
BID	37995
CVE	CVE-2003-156 7
CVE	CVE-2004-232 0
CVE	CVE-2010-038

XREF3 - HTTP TICERT:867593K Methods Allowed

XREF CWE:200

Port

tcp/80/www

139915 - ISC BIND 9.x < 9.11.22, 9.12.x < 9.16.6, 9.17.x < 9.17.4 DoS

Synopsis	
The remote nan	ne server is affected by a denial of service vulnerability.
Description	
According to its self-reported version number, the installation of ISC BIND running on the remote name server is version 9.x prior to 9.11.22, 9.12.x prior to 9.16.6 or 9.17.x prior to 9.17.4. It is, therefore, affected by a denial of service (DoS) vulnerability due to an assertion failure when attempting to verify a truncated response to a TSIG-signed request. An authenticated, remote attacker can exploit this issue by sending a truncated response to a TSIG-signed request to trigger an assertion failure, causing the server to exit.	
Note that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number.	
Solution	
Upgrade to BIN	D 9.11.22, 9.16.6, 9.17.4 or later.
Risk Factor	
Medium	
CVSS v3.0 Base	e Score
6.5 (CVSS:3.0/A	AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H)
References	
CVE XREF	CVE-2020-8622 IAVA:2020-A-0385-S
Port	
udp/53/dns	

136808 - ISC BIND Denial of Service

Synopsis
The remote name server is affected by an assertion failure vulnerability.
Description
A denial of service (DoS) vulnerability exists in ISC BIND versions 9.11.18 / 9.11.18-S1 / 9.12.4-P2 / 9.13 / 9.14.11 / 9.15 / 9.16.2 / 9.17 / 9.17.1 and earlier. An unauthenticated, remote attacker can exploit this issue, via a specially-crafted message, to cause the service to stop responding.
Note that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number.
Solution
Upgrade to the patched release most closely related to your current version of BIND.
Risk Factor
Medium
CVSS v3.0 Base Score
5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H)
References
CVE CVE-2020-8617 XREF IAVA:2020-A-0217-S
Port udp/53/
dns

57608 - SMB Signing not required

Synopsis
Signing is not required on the remote SMB server.
Description
Signing is not required on the remote SMB server. An unauthenticated, remote attacker can exploit this to conduct man-in-the-middle attacks against the SMB server.
Solution
Enforce message signing in the host's configuration. On Windows, this is found in the policy setting 'Microsoft network server: Digitally sign communications (always)'. On Samba, the setting is called 'server signing'. See the 'see also' links for further details.
Risk Factor
Medium
CVSS v3.0 Base Score
5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N)
Port
tcp/445/cifs

52611 - SMTP Service STARTTLS Plaintext Command Injection

Synopsis	
The remote mail service allows plaintext command injection while negotiating an encrypted communications channel.	
Description	
remote, unauth	TP service contains a software flaw in its STARTTLS implementation that could allow a enticated attacker to inject commands during the plaintext protocol phase that will be the ciphertext protocol phase.
Successful exploitation could allow an attacker to steal a victim's email or associated SASL (Simple Authentication and Security Layer) credentials.	
Solution	
Contact the ven	dor to see if an update is available.
Risk Factor	
Medium	
VPR Score	
6.3	
BID CVE CVE CVE CVE	46767 CVE-2011-0411 CVE-2011-1430 CVE-2011-1431 CVE-2011-1432
CVE CVE XREF	CVE-2011-1506 CVE-2011-2165 CERT:555316
Port tcp/25/	
smtp	

90317 - SSH Weak Algorithms Supported

Synopsis
The remote SSH server is configured to allow weak encryption algorithms or no algorithm at all.
Description
Nessus has detected that the remote SSH server is configured to use the Arcfour stream cipher or no cipher at all. RFC 4253 advises against using Arcfour due to an issue with weak keys.
Solution
Contact the vendor or consult product documentation to remove the weak ciphers.
Risk Factor
Medium
CVSS v2.0 Base Score
4.3 (CVSS2#AV:N/AC:M/Au:N/C:P/I:N/A:N)
Port tcp/22/
ssh

31705 - SSL Anonymous Cipher Suites Supported

Synopsis	
The remote serv	ice supports the use of anonymous SSL ciphers.
Description	
a service that e verify the remote	at supports the use of anonymous SSL ciphers. While this enables an administrator to set up encrypts traffic without having to generate and configure SSL certificates, it offers no way to e host's identity and renders the service vulnerable to a man-in-the-middle attack. Is iderably easier to exploit if the attacker is on the same physical network.
Solution	
Reconfigure the	affected application if possible to avoid use of weak ciphers.
Risk Factor	
Low	
CVSS v3.0 Base	Score
5.9 (CVSS:3.0/A	V:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)
References	
BID	28482
CVE	CVE-2007-1858
Plugin Information	on
Published: 2008/03/28, Modified: 2021/02/03	
Plugin Output top	0/25/
smtp	

51192 - SSL Certificate Cannot Be Trusted

Synopsis
The SSL certificate for this service cannot be trusted.
Description
The server's X.509 certificate cannot be trusted. This situation can occur in three different ways, in which the chain of trust can be broken, as stated below:
- First, the top of the certificate chain sent by the server might not be descended from a known public certificate authority. This can occur either when the top of the chain is an unrecognized, self-signed certificate, or when intermediate certificates are missing that would connect the top of the certificate chain to a known public certificate authority.
- Second, the certificate chain may contain a certificate that is not valid at the time of the scan. This can occur either when the scan occurs before one of the certificate's 'notBefore' dates, or after one of the certificate's 'notAfter' dates.
- Third, the certificate chain may contain a signature that either didn't match the certificate's information or could not be verified. Bad signatures can be fixed by getting the certificate with the bad signature to be resigned by its issuer. Signatures that could not be verified are the result of the certificate's issuer using a signing algorithm that Nessus either does not support or does not recognize.
If the remote host is a public host in production, any break in the chain makes it more difficult for users to verify the authenticity and identity of the web server. This could make it easier to carry out man-in- the-middle attacks against the remote host.
Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N)
Port
tcp/25/smtp

51192 - SSL Certificate Cannot Be Trusted

Synopsis
The SSL certificate for this service cannot be trusted.
Description
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- Second, the certificate chain may contain a certificate that is not valid at the time of the scan. This can occur either when the scan occurs before one of the certificate's 'notBefore' dates, or after one of the certificate's 'notAfter' dates.
- Third, the certificate chain may contain a signature that either didn't match the certificate's information or could not be verified. Bad signatures can be fixed by getting the certificate with the bad signature to be resigned by its issuer. Signatures that could not be verified are the result of the certificate's issuer using a signing algorithm that Nessus either does not support or does not recognize.
If the remote host is a public host in production, any break in the chain makes it more difficult for users to verify the authenticity and identity of the web server. This could make it easier to carry out man-in- the-middle attacks against the remote host.
Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N)
Port
tcp/5432/postgresql

15901 - SSL Certificate Expiry

Synopsis
The remote server's SSL certificate has already expired.
Description
This plugin checks expiry dates of certificates associated with SSL- enabled services on the target and reports whether any have already expired.
Solution
Purchase or generate a new SSL certificate to replace the existing one.
Risk Factor
Medium
CVSS v3.0 Base Score
5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N)
Port tcp/25/
smtp

15901 - SSL Certificate Expiry

Synopsis	
The remote server's SSL certificate has already expired.	
Description	
This plugin checks expiry dates of certificates associated with SSL- enabled services on the target and reports whether any have already expired.	
Solution	
Purchase or generate a new SSL certificate to replace the existing one.	
Risk Factor	
Medium	
CVSS v3.0 Base Score	
5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N)	
Port	
tcp/5432/postgresql	

45411 - SSL Certificate with Wrong Hostname

Synopsis
The SSL certificate for this service is for a different host.
Description
The 'commonName' (CN) attribute of the SSL certificate presented for this service is for a different machine.
Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N)
Port tcp/25/
smtp

45411 - SSL Certificate with Wrong Hostname

Synopsis
The SSL certificate for this service is for a different host.
Description
The 'commonName' (CN) attribute of the SSL certificate presented for this service is for a different machine.
Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N)
Port
tcp/5432/postgresql

89058 - SSL DROWN Attack Vulnerability (Decrypting RSA with Obsolete and Weakened eNcryption)

Synopsis			
The remote hos TLS traffic.	t may be affected by a vulnerability that allows a remote attacker to potentially decrypt captured		
Description			
The remote host supports SSLv2 and therefore may be affected by a vulnerability that allows a cross- protocol Bleichenbacher padding oracle attack known as DROWN (Decrypting RSA with Obsolete and Weakened eNcryption). This vulnerability exists due to a flaw in the Secure Sockets Layer Version 2 (SSLv2) implementation, and it allows captured TLS traffic to be decrypted. A man-in-the-middle attacker can exploit this to decrypt the TLS connection by utilizing previously captured traffic and weak cryptography along with a series of specially crafted connections to an SSLv2 server that uses the same private key.			
Solution			
	and export grade cryptography cipher suites. Ensure that private keys are not used anywhere with that supports SSLv2 connections.		
Risk Factor			
Medium			
CVSS v3.0 Base	Score		
5.9 (CVSS:3.0/A	V:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)		
References			
BID CVE XREF	83733 CVE-2016-0800 CERT:583776		
Port			
tcp/25/smtp			

65821 - SSL RC4 Cipher Suites Supported (Bar Mitzvah)

Synopsis		
The remote serv	rice supports the use of the RC4 cipher.	
Description		
The remote host supports the use of RC4 in one or more cipher suites. The RC4 cipher is flawed in its generation of a pseudo-random stream of bytes so that a wide variety of small biases are introduced into the stream, decreasing its randomness.		
	beatedly encrypted (e.g., HTTP cookies), and an attacker is able to obtain many (i.e., tens of exts, the attacker may be able to derive the plaintext.	
, .		
Solution		
Reconfigure the affected application, if possible, to avoid use of RC4 ciphers. Consider using TLS 1.2 with AES-GCM suites subject to browser and web server support.		
Risk Factor		
Medium		
CVSS v3.0 Base Score		
5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)		
References		
BID BID CVE CVE	58796 73684 CVE-2013-2566 CVE-2015-2808	
Port		

tcp/25/smtp

65821 - SSL RC4 Cipher Suites Supported (Bar Mitzvah)

Synopsis	
The remote ser	vice supports the use of the RC4 cipher.
Description	
The RC4 cipher biases are intro	st supports the use of RC4 in one or more cipher suites. r is flawed in its generation of a pseudo-random stream of bytes so that a wide variety of small duced into the stream, decreasing its randomness. Deatedly encrypted (e.g., HTTP cookies), and an attacker is able to obtain many (i.e., tens of texts, the attacker may be able to derive the plaintext.
Solution	
Reconfigure the	e affected application, if possible, to avoid use of RC4 ciphers. Consider using TLS 1.2 with AES- oject to browser and web server support.
Risk Factor	
Medium	
CVSS v3.0 Base	e Score
5.9 (CVSS:3.0//	AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)
References	
BID BID CVE CVE	58796 73684 CVE-2013-2566 CVE-2015-2808
Port tcp/5432/	
postgresql	

57582 - SSL Self-Signed Certificate

Synopsis
The SSL certificate chain for this service ends in an unrecognized self-signed certificate.
Description
The X.509 certificate chain for this service is not signed by a recognized certificate authority. If the remote host is a public host in production, this nullifies the use of SSL as anyone could establish a man-in-the- middle attack against the remote host.
Note that this plugin does not check for certificate chains that end in a certificate that is not self-signed, but is signed by an unrecognized certificate authority.
Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N)
Port tcp/25/
smtp

57582 - SSL Self-Signed Certificate

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Description
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Note that this plugin does not check for certificate chains that end in a certificate that is not self-signed, but is signed by an unrecognized certificate authority.
Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N)
Port tcp/5432/
postgresql

26928 - SSL Weak Cipher Suites Supported

Synopsis	
The remote service supports the use of weak SSL ciphers.	
Description	
The remote host	supports the use of SSL ciphers that offer weak encryption. Note:
This is consideral	oly easier to exploit if the attacker is on the same physical network.
Solution	
Reconfigure the a	affected application, if possible to avoid the use of weak ciphers.
Risk Factor	
Medium	
CVSS v3.0 Base	Score
5.3 (CVSS:3.0/AV	':N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N)
References	
XREF	CWE:326
XREF	CWE:327
XREF	CWE:720
XREF	CWE:753
XREF	CWE:803
XREF	CWE:928
XREF	CWE:934
Port	
tcp/25/smtp	
192.168.50.2	

26928 - SSL Weak Cipher Suites Supported	

81606 - SSL/TLS EXPORT_RSA <= 512-bit Cipher Suites Supported (FREAK)

Synopsis		
The remote hos	t supports a set of weak ciphers.	
Description		
	supports EXPORT_RSA cipher suites with keys less than or equal to 512 bits. An attacker can RSA modulus in a short amount of time.	
	A man-in-the middle attacker may be able to downgrade the session to use EXPORT_RSA cipher suites (e.g. CVE-2015-0204). Thus, it is recommended to remove support for weak cipher suites.	
Solution		
Reconfigure the	service to remove support for EXPORT_RSA cipher suites.	
Risk Factor		
Medium		
VPR Score		
4.5		
References		
BID	71936	
CVE XREF	CVE-2015-0204 CERT:243585	
	OLIVI.270000	
Port		
tcp/25/smtp		

104743 - TLS Version 1.0 Protocol Detection

Synopsis
The remote service encrypts traffic using an older version of TLS.
Description
The remote service accepts connections encrypted using TLS 1.0. TLS 1.0 has a number of cryptographic design flaws. Modern implementations of TLS 1.0 mitigate these problems, but newer versions of TLS like 1.2 and 1.3 are designed against these flaws and should be used whenever possible.
As of March 31, 2020, Endpoints that aren't enabled for TLS 1.2 and higher will no longer function properly with major web browsers and major vendors.
PCI DSS v3.2 requires that TLS 1.0 be disabled entirely by June 30, 2018, except for POS POI terminals (and the SSL/TLS termination points to which they connect) that can be verified as not being susceptible to any known exploits.
Solution
Enable support for TLS 1.2 and 1.3, and disable support for TLS 1.0.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:L/A:N)
References
XREF CWE:327
Port
tcp/25/smtp

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Synopsis
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Description
The remote service accepts connections encrypted using TLS 1.0. TLS 1.0 has a number of cryptographic design flaws. Modern implementations of TLS 1.0 mitigate these problems, but newer versions of TLS like 1.2 and 1.3 are designed against these flaws and should be used whenever possible.
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PCI DSS v3.2 requires that TLS 1.0 be disabled entirely by June 30, 2018, except for POS POI terminals (and the SSL/TLS termination points to which they connect) that can be verified as not being susceptible to any known exploits.
Solution
Enable support for TLS 1.2 and 1.3, and disable support for TLS 1.0.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:L/A:N)
References
XREF CWE:327
Port
tcp/5432/postgresql

70658 - SSH Server CBC Mode Ciphers Enabled

Synopsis	
The SSH serv	er is configured to use Cipher Block Chaining.
Description	
	er is configured to support Cipher Block Chaining (CBC) encryption. This may allow an attacker to aintext message from the ciphertext.
Note that this pressions.	olugin only checks for the options of the SSH server and does not check for vulnerable software
Solution	
Contact the vo	endor or consult product documentation to disable CBC mode cipher encryption, and enable ipher mode encryption.
Risk Factor	
Low	
VPR Score	
2.5	
References	
BID	32319
CVE	CVE-2008-5161
XREF	CERT:958563
XREF	CWE:200
Port tcp/22/	
ssh	

153953 - SSH Weak Key Exchange Algorithms Enabled

Synopsis
The remote SSH server is configured to allow weak key exchange algorithms.
Description
The remote SSH server is configured to allow key exchange algorithms which are considered weak.
This is based on the IETF draft document Key Exchange (KEX) Method Updates and Recommendations for Secure Shell (SSH) draft-ietf-curdle-ssh-kex-sha2-20. Section 4 lists guidance on key exchange algorithms that SHOULD NOT and MUST NOT be enabled. This includes:
diffie-hellman-group-exchange-sha1
diffie-hellman-group1-sha1
gss-gex-sha1-*
gss-group1-sha1-*
gss-group14-sha1-*
rsa1024-sha1
Note that this plugin only checks for the options of the SSH server, and it does not check for vulnerable software versions.
Solution
Contact the vendor or consult product documentation to disable the weak algorithms.
Risk Factor
Low
CVSS v3.0 Base Score
3.7 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N)
Port
Port
tcp/22/ssh

71049 - SSH Weak MAC Algorithms Enabled

Synopsis
The remote SSH server is configured to allow MD5 and 96-bit MAC algorithms.
Description
The remote SSH server is configured to allow either MD5 or 96-bit MAC algorithms, both of which are considered weak.
Note that this plugin only checks for the options of the SSH server, and it does not check for vulnerable software versions.
Solution
Contact the vendor or consult product documentation to disable MD5 and 96-bit MAC algorithms.
Risk Factor
Low
CVSS v2.0 Base Score
2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)
Port tcp/22/
ssh

83738 - SSL/TLS EXPORT_DHE <= 512-bit Export Cipher Suites Supported (Logjam)

Synopsis
The remote host supports a set of weak ciphers.
Description
The remote host supports EXPORT_DHE cipher suites with keys less than or equal to 512 bits. Through cryptanalysis, a third party can find the shared secret in a short amount of time.
A man-in-the middle attacker may be able to downgrade the session to use EXPORT_DHE cipher suites. Thus, it is recommended to remove support for weak cipher suites.
Solution
Reconfigure the service to remove support for EXPORT_DHE cipher suites.
Risk Factor
Low
CVSS v3.0 Base Score
3.7 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:L/A:N)
References
BID 74733
CVE CVE-2015-4000 XREF CEA-ID:CEA-2021-0004
Port tcp/25/
smtp

78479 - SSLv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE)

Synopsis	
It is possible to	obtain sensitive information from the remote host with SSL/TLS-enabled services.
Description	
POODLE. The v	st is affected by a man-in-the-middle (MitM) information disclosure vulnerability known as vulnerability is due to the way SSL 3.0 handles padding bytes when decrypting messages encrypted ners in cipher block chaining (CBC) mode.
	can decrypt a selected byte of a cipher text in as few as 256 tries if they are able to force a victim epeatedly send the same data over newly created SSL 3.0 connections.
	ent and service both support SSLv3, a connection can be 'rolled back' to SSLv3, even if TLSv1 or rted by the client and service.
can only protect	ck SCSV mechanism prevents 'version rollback' attacks without impacting legacy clients; however, it connections when the client and service support the mechanism. Sites that cannot disable SSLv3 buld enable this mechanism.
	ability in the SSLv3 specification, not in any particular SSL implementation. Disabling SSLv3 is the appletely mitigate the vulnerability.
Solution	
Disable SSLv3.	
Services that m disabled.	ust support SSLv3 should enable the TLS Fallback SCSV mechanism until SSLv3 can be
Risk Factor	
Medium	
CVSS v3.0 Base	e Score
3.4 (CVSS:3.0/A	AV:N/AC:H/PR:N/UI:R/S:C/C:L/I:N/A:N)
BID CVE XREF	70574 CVE-2014-3566 CERT:577193
Port tcp/25/	
smtp	

78479 - SSLv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE)

Synopsis		
It is possible to obtain sensitive information from the remote host with SSL/TLS-enabled services.		
Description		
POODLE. The v	t is affected by a man-in-the-middle (MitM) information disclosure vulnerability known as vulnerability is due to the way SSL 3.0 handles padding bytes when decrypting messages encrypted lers in cipher block chaining (CBC) mode.	
MitM attackers can decrypt a selected byte of a cipher text in as few as 256 tries if they are able to force a victim application to repeatedly send the same data over newly created SSL 3.0 connections.		
As long as a client and service both support SSLv3, a connection can be 'rolled back' to SSLv3, even if TLSv1 or newer is supported by the client and service.		
The TLS Fallback SCSV mechanism prevents 'version rollback' attacks without impacting legacy clients; however, it can only protect connections when the client and service support the mechanism. Sites that cannot disable SSLv3 immediately should enable this mechanism.		
This is a vulnerability in the SSLv3 specification, not in any particular SSL implementation. Disabling SSLv3 is the only way to completely mitigate the vulnerability.		
Solution		
Disable SSLv3.		
Services that must support SSLv3 should enable the TLS Fallback SCSV mechanism until SSLv3 can be disabled.		
Risk Factor		
Medium		
CVSS v3.0 Base	e Score	
3.1 (CVSS:3.0/E	:P/RL:O/RC:C)	
References		
BID	70574	
CVE	CVE-2014-3566	
XREF	CERT:577193	
Port tcp/5432/		
postgresql		

10407 - X Server Detection

Synopsis
An X11 server is listening on the remote host
Description
The remote host is running an X11 server. X11 is a client-server protocol that can be used to display graphical applications running on a given host on a remote client.
Since the X11 traffic is not ciphered, it is possible for an attacker to eavesdrop on the connection.
Solution
Restrict access to this port. If the X11 client/server facility is not used, disable TCP support in X11 entirely (- nolisten tcp).
Risk Factor
Low
CVSS v2.0 Base Score
2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)
Port
tcp/6000/x11