

10.132.33.242



July 06, 2022

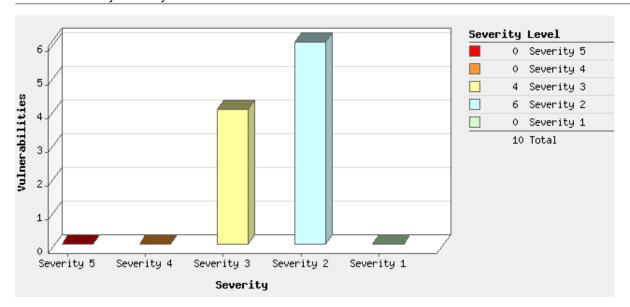
Report Summary	
User Name:	RS Dagur
Login Name:	nc_rt
Company:	NIC
User Role:	Manager
Address:	A-Block,Lodhi Rd,CGO Complex
City:	New Delhi
State:	Delhi
Zip:	110003
Country:	India
Created:	07/06/2022 at 05:05:34 PM (GMT+0530)
Template Title:	Score Based NIC Report templates
Asset Groups:	-
IPs:	10.132.33.242
Sort by:	Host
Trend Analysis:	Latest vulnerability data
Date Range:	01/01/1999 - 07/06/2022
Active Hosts:	1
Hosts Matching Filters	: 1

Summary of Vulnerabilities

Vulnerabilities Total	10	Security Risk (Avg)	3.0 Business Risk		64/100
by Severity					
Severity	Confirmed	Potential	Information Gathered	Total	
5	0	=	-	0	
4	0	-	-	0	
3	4	-	-	4	
2	6	-	-	6	
1	0	-	-	0	
Total	10	-	-	10	

5 Biggest Categories					
Category	Confirmed	Potential	Information Gathered	Total	
Windows	6	-	-	6	
Security Policy	3	-	-	3	
CGI	1	-	-	1	
Total	10	-	-	10	

Vulnerabilities by Severity



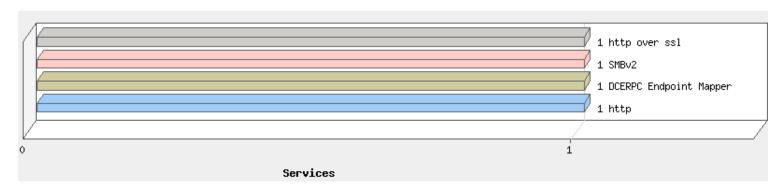
Information Gathered by Severity

There are no known vulnerabilities for this/these systems

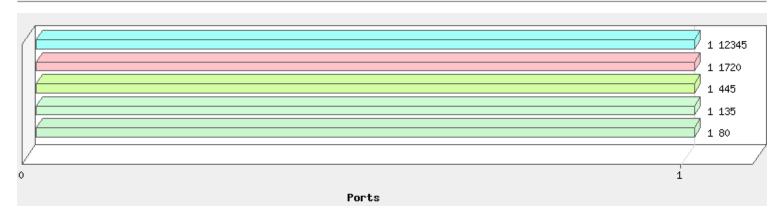
Operating Systems Detected



Services Detected



Ports Detected



Detailed Results

10.132.33.242 (win-ocmrck93fp2, WIN-OCMRCK93FP2) Windows Server 2019 Standard 64 bit Editio...

Vulnerabilities (10)

3 Administrator Account's Password Does Not Expire

New

QID: 90080
Category: Windows
Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 08/03/2015

User Modified: -Edited: No PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1 Last Fixed: N/A

THREAT:

The scanner probed the Security & Accounts Database (SAM) and found that the target Windows box's Administrator account has a password that does not expire.

IMPACT:

Depending on the site's policy, this may be considered a security vulnerability since it allows attackers an infinite duration to try bruteforcing (guessing over multiple login attempts) the password for the account.

SOLUTION:

Reconfigure the Administrator account's properties to expire the password after a specified duration per the site's policy. Ideally, domain-wide policies should be set on the Domain Controller so that all Windows hosts on the domain comply automatically, and each individual host does not need to be configured.

Note that the Administrator account on the Domain Controller(s) will always have a password that does not expire, since the option check box in the properties dialog box for this account is greyed out.

Additional details can be found under QID 45031 "Accounts Enumerated From SAM Database Whose Passwords Do Not Expire."

RESULTS:

Account: Administrator

Built-in Guest Account Not Renamed at Windows Target System

New

QID: 105228 Category: Security Policy

Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 09/12/2019

User Modified: -Edited: No PCI Vuln: No

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1
Last Fixed: N/A

THREAT:

The built-in Guest account is not renamed at the target Microsoft Windows system.

IMPACT

Knowing a valid username allows for substantially easier bruteforcing attacks.

SOLUTION:

Rename the Guest account.

RESULTS:

Guest

3 Allowed Null Session

New

QID: 90044 Category: Windows

Associated CVEs: CVE-2002-1117, CVE-2000-1200

Vendor Reference: -

Bugtraq ID: 494, 959
Service Modified: 03/24/2022

User Modified: Edited: No
PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1
Last Fixed: N/A

THREAT.

It is possible to log into the target host using a NULL session.

Windows NT has a feature allowing anonymous users to obtain domain user names and the share list. Windows NT ACL editor requires the Domain Controllers to return a list of account names.

We check for "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControl\LSA RestrictAnonymous" as well as "HKLM\SYSTEM\ CurrentControlSet\Services\LanmanServer\Parameters RestrictNullSessAccess" = 0 as Microsoft has stated that "Remote access to the registry may still be possible after you follow the steps in this article if the RestrictNullSessAccess registry value has been created and is set to 0. This value allows remote access to the registry by using a null session. The value overrides other explicit restrictive settings."

IMPACT:

Unauthorized users can establish a null session and obtain sensitive information, such as usernames and/or the share list, which could be used in further attacks against the host.

SOLUTION:

To disable or restrict null session, please refer to Microsoft TechNet: RestrictNullSessAccess (https://technet.microsoft.com/en-us/library/cc957461.aspx) for further details.

RESULTS:

HKLM\SYSTEM\CurrentControlSet\Control\LSA RestrictAnonymous = 0

3 SMB Signing Disabled or SMB Signing Not Required

New

QID: 90043 Category: Windows

Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 06/30/2022

User Modified: Edited: No
PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1
Last Fixed: N/A

THREAT:

This host does not seem to be using SMB (Server Message Block) signing. SMB signing is a security mechanism in the SMB protocol and is also known as security signatures. SMB signing is designed to help improve the security of the SMB protocol.

SMB signing adds security to a network using NetBIOS, avoiding man-in-the-middle attacks.

When SMB signing is enabled on both the client and server SMB sessions are authenticated between the machines on a packet by packet basis. QID Detection Logic:

This checks from the registry value of RequireSecuritySignature and EnableSecuritySignature form HKEY_LOCAL_MACHINE\System\
CurrentControlSet\Services\LanmanWorkStation\Parameters for client and HKEY_LOCAL_MACHINE\System\CurrentControlSetServices\
LanmanServer\Parameters for servers to check if SMB signing is required or enabled or disabled.

Note: On 5/28/2020 the QID was updated to check for client SMB signing behavior via the registry key HKEY_LOCAL_MACHINE\SystemCurrent\ ControlSetServices\LanmanWorkStation\Parameters. The complete detection logic is explained above.

IMPACT:

Unauthorized users sniffing the network could catch many challenge/response exchanges and replay the whole thing to grab particular session keys, and then authenticate on the Domain Controller.

SOLUTION:

Without SMB signing, a device could intercept SMB network packets from an originating computer, alter their contents, and broadcast them to the destination computer. Since, digitally signing the packets enables the recipient of the packets to confirm their point of origination and their authenticity, it is recommended that SMB signing is enabled and required.

Please refer to Microsoft's article 887429 (http://support.microsoft.com/kb/887429) and The Basics of SMB Signing (covering both SMB1 and SMB2) (https://docs.microsoft.com/en-us/archive/blogs/josebda/the-basics-of-smb-signing-covering-both-smb1-and-smb2) for information on enabling SMB signing.

For Windows Server 2008 R2, Windows Server 2012, please refer to Microsoft's article Require SMB Security Signatures (http://technet.microsoft.com/en-us/library/cc731957.aspx) for information on enabling SMB signing. For group policies please refer to Microsoft's article Modify Security Policies in Default Domain Controllers Policy (http://technet.microsoft.com/en-us/library/cc731654)

For UNIX systems

To require samba clients running "smbclient" to use packet signing, add the following to the "[global]" section of the Samba configuration file: client signing = mandatory

RESULTS:

HKLM\System\CurrentControlSet\Services\LanManWorkstation\Parameters requiresecuritysignature = 0

2 Enabled Cached Logon Credential

New

QID: 90007 Category: Windows

Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 04/06/2020

User Modified: Edited: No
PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1 Last Fixed: N/A

THREAT:

Windows NT may use a cache to store the last interactive logon (i.e. console logon), to provide a safe logon for the host in the event that the Domain Controller goes down. This feature is currently activated on this host.

IMPACT:

Unauthorized users can gain access to this cached information, thereby obtaining sensitive logon information.

SOLUTION:

We recommend that you locate the following Registry key, and then set or create a REG_SZ 'CachedLogonsCount' entry with a '0' value: HKEY_LOCAL_MACHINE\Software\Microsoft\Windows Nt\CurrentVersion\Winlogon

RESULTS:

HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon cachedlogonscount = 10

2 Microsoft Windows Explorer AutoPlay Not Disabled

New

QID: 105170 Category: Security Policy

Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 05/14/2009

User Modified: -Edited: No PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1 Last Fixed: N/A

THREAT:

The setting that prevents applications from any drive to be automatically executed is not enabled on the host.

IMPACT

Exploiting this vulnerability can cause malicious applications to be executed unintentionally at escalated privilege.

SOLUTION:

Disable autoplay from any disk type by setting the value NoDriveTypeAutoRun to 255 under this registry key: HKLM\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

RESULTS:

%windir%\explorer.exe found

HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Explorer NoDriveTypeAutoRun is missing.

2 Default Windows Administrator Account Name Present

New

 QID:
 90081

 Category:
 Windows

 Associated CVEs:
 CVE-1999-0585

Vendor Reference: Bugtraq ID: -

Service Modified: 05/13/2022

User Modified: -Edited: No PCI Vuln: No

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1 Last Fixed: N/A

THREAT:

The scanner probed the LSA, Local Security Authority, for the administrator account's name. The target has the default/out-of-the-box name "Administrator" set.

IMPACT:

Most attackers and malicious scripts assume an administrator account name of "Administrator" on Windows systems. If the target has not changed this name, it will simplify the task of the attacker, for example in bruteforcing the password for the account.

SOLUTION:

Change the administrator account's name to a non-default value.

Please note that if the scanner has been configured to use Windows Authentication and uses the local administrator account (as against a domain-admin account) to scan this target, the scanner will need to be reconfigured to use the new administrator account name instead.

RESULTS:

Administrator

2 Windows Explorer Autoplay Not Disabled for Default User

New

QID: 105171 Category: Security Policy

Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 10/10/2019

User Modified: -Edited: No PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1

THREAT.

The setting that prevents applications from any drive to be automatically executed when no user is logged in is not enabled on the host.

IMPACT:

An attacker may be able to run an unauthorized application.

SOLUTION:

Make sure that the value NoDriveTypeAutoRun is defined under this registry key: HKU\DEFAULT\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

RESULTS:

%windir%\explorer.exe found

HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Explorer NoAutorun is missing.

HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Explorer NoDriveTypeAutoRun is missing.

HKU\.DEFAULT\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Explorer NoDriveTypeAutoRun is missing.

2 Microsoft Windows Security Update Registry Key Configuration Missing (ADV180012) (Spectre/Meltdown Variant 4)

New

QID: 91462 Category: Windows Associated CVEs: CVF-2018-3639 ADV180012 Vendor Reference: Bugtraq ID: 104232 Service Modified: 06/06/2022 User Modified: 02/04/2022 Edited: Yes PCI Vuln: Nο

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1 Last Fixed: N/A

THREAT:

On January 3 2018, Microsoft released an advisory and security updates related to hardware vulnerabilities (known as Spectre and Meltdown) involving speculative execution side channels that affect AMD, ARM, and Intel CPUs to varying degrees.

On May 21st, a new subclass of speculative execution side channel vulnerabilities known as Speculative Store Bypass (SSB) has been announced and assigned CVE-2018-3639.

The Windows registry key settings are missing on the target.

Microsoft requires you to apply the following Registry Key settings in addition to Windows Patch

To enable the fix:

reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management" /v FeatureSettingsOverride /t REG_DWORD /d 8 /f

reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management" /v FeatureSettingsOverride /t REG_DWORD /d 72 /f

reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management" /v FeatureSettingsOverride /t REG_DWORD 7d 8264 /f

reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management" /v FeatureSettingsOverrideMask / t REG_DWORD /d 3 /f

For more information regarding this QID please refer to our community blog post - Details for Mitigating Speculative Store Bypass (SSB) -CVE-2018-3639 (https://community.qualys.com/docs/DOC-6531-details-for-mitigating-speculative-store-bypass-ssb-cve-2018-3639) QID Detection Logic (Authenticated):

Operating Systems: Windows Server 2008 R2, Windows 7, Windows 8.1, Windows10, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019

This QID checks for the presence of following Registry key Value and if these registries are missing or values are wrong then this QID is flagged: Reg Key - HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management, Value - FeatureSettingsOverride, REG DWORD -"8264" or "72" or "8"

Reg Key - HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management, Value - FeatureSettingsOverrideMask, REG DWORD - "3"

IMPACT:

An attacker who has successfully exploited this vulnerability may be able to read privileged data across trust boundaries. Vulnerable code patterns in the operating system (OS) or in applications could allow an attacker to exploit this vulnerability. In the case of Just-in-Time (JIT) compilers, such as JavaScript JIT employed by modern web browsers, it may be possible for an attacker to supply JavaScript that produces native code that could give rise to an instance of CVE-2018-3639.

SOLUTION:

Customers are advised to refer to ADV180012 (https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/ADV180012) for more details pertaining to this vulnerability.

Please refer to the section "Enabling protections on the server" from the Microsoft link for Server Operating systems (https://support.microsoft.com/en-us/help/4072698/windows-server-guidance-to-protect-against-the-speculative-execution), Microsoft link for Client Operating Systems (https://support.microsoft.com/en-us/help/4073119/protect-against-speculative-execution-side-channel-vulnerabilities-in) for more details

Patch:

Following are links for downloading patches to fix the vulnerabilities:

ADV180012 (https://support.microsoft.com/en-us/help/4073119/protect-against-speculative-execution-side-channel-vulnerabilities-in) ADV180012 (https://support.microsoft.com/en-us/help/4072698/windows-server-guidance-to-protect-against-the-speculative-execution)

RESULTS:

HKLM\System\CurrentControlSet\Control\Session Manager\Environment PROCESSOR_IDENTIFIER = Intel64 Family 6 Model 63 Stepping 0, GenuineIntel

HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management FeatureSettingsOverride is missing. HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management FeatureSettingsOverrideMask is missing.

2 HTTP Security Header Not Detected

port 80/tcp New

QID: 11827
Category: CGI
Associated CVEs: Vendor Reference: Bugtraq ID: -

Service Modified: 01/27/2022

User Modified: Edited: No
PCI Vuln: Yes

Ticket State:

First Detected: 07/06/2022 at 04:24:05 PM (GMT+0530) Last Detected: 07/06/2022 at 04:24:05 PM (GMT+0530)

Times Detected: 1
Last Fixed: N/A

THREAT:

This QID reports the absence of the following HTTP headers (https://www.owasp.org/index.php/OWASP_Secure_Headers_Project#tab=Headers) according to CWE-693: Protection Mechanism Failure (https://cwe.mitre.org/data/definitions/693.html):

X-Content-Type-Options: This HTTP header will prevent the browser from interpreting files as a different MIME type to what is specified in the Content-Type HTTP header.

Strict-Transport-Security: The HTTP Strict-Transport-Security response header (HSTS) allows web servers to declare that web browsers (or other complying user agents) should only interact with it using secure HTTPS connections, and never via the insecure HTTP protocol.

QID Detection Logic:

This unauthenticated QID looks for the presence of the following HTTP responses:

The Valid directives are as belows: X-Content-Type-Options: nosniff

Strict-Transport-Security: max-age=< [;includeSubDomains]

IMPACT:

Depending on the vulnerability being exploited, an unauthenticated remote attacker could conduct cross-site scripting, clickjacking or MIME-type sniffing attacks.

SOLUTION:

Note: To better debug the results of this QID, it is requested that customers execute commands to simulate the following functionality: curl -lkL --verbose.

CWE-693: Protection Mechanism Failure mentions the following - The product does not use or incorrectly uses a protection mechanism that provides sufficient defense against directed attacks against the product. A "missing" protection mechanism occurs when the application does not define any mechanism against a certain class of attack. An "insufficient" protection mechanism might provide some defenses - for example, against the most common attacks - but it does not protect against everything that is intended. Finally, an "ignored" mechanism occurs when a mechanism is available and in active use within the product, but the developer has not applied it in some code path.

Customers are advised to set proper X-Content-Type-Options (https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Content-Type-Options) and Strict-Transport-Security (https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Strict-Transport-Security) HTTP response headers.

Depending on their server software, customers can set directives in their site configuration or Web.config files. Few examples are:

X-Content-Type-Options:

Apache: Header always set X-Content-Type-Options: nosniff

HTTP Strict-Transport-Security:

Apache: Header always set Strict-Transport-Security "max-age=31536000; includeSubDomains"

Nginx: add_header Strict-Transport-Security max-age=31536000;

Note: Network devices that include a HTTP/HTTPS console for administrative/management purposes often do not include all/some of the security headers. This is a known issue and it is recommend to contact the vendor for a solution.

RESULTS:

X-Content-Type-Options HTTP Header missing on port 80.

GET / HTTP/1.0 Host: 10.132.33.242

HTTP/1.1 200 OK Content-Type: text/html

Last-Modified: Wed, 22 Sep 2021 06:52:18 GMT

Accept-Ranges: bytes ETag: "5e3ab7627eafd71:0" Server: Microsoft-IIS/10.0 X-Powered-By: ASP.NET

Date: Wed, 06 Jul 2022 09:37:19 GMT

Connection: keep-alive Content-Length: 703

Appendix

Report Filters		
Status:	New, Active, Re-Opened	
Display non-running kernels:	Off	
Exclude non-running kernels:	On	
Exclude non-running services:	Off	
Exclude QIDs not exploitable due to configuration: Off		
Vulnerabilities:	State:Active	
Included Operating Systems:	All Operating Systems	

Report Legend

Vulnerability Levels

A Vulnerability is a design flaw or mis-configuration which makes your network (or a host on your network) susceptible to malicious attacks from local or remote users. Vulnerabilities can exist in several areas of your network, such as in your firewalls, FTP servers, Web servers, operating systems or CGI bins. Depending on the level of the security risk, the successful exploitation of a vulnerability can vary from the disclosure of information about the host to a complete compromise of the host.

Severity	Level	Description
1	Minimal	Intruders can collect information about the host (open ports, services, etc.) and may be able to use this information to find other vulnerabilities.
2	Medium	Intruders may be able to collect sensitive information from the host, such as the precise version of software installed. With this information, intruders can easily exploit known vulnerabilities specific to software versions.
3	Serious	Intruders may be able to gain access to specific information stored on the host, including security settings. This could result in potential misuse of the host by intruders. For example, vulnerabilities at this level may include partial disclosure of file contents, access to certain files on the host, directory browsing, disclosure of filtering rules and security mechanisms, denial of service attacks, and unauthorized use of services, such as mail-relaying.
4	Critical	Intruders can possibly gain control of the host, or there may be potential leakage of highly sensitive information. For example, vulnerabilities at this level may include full read access to files, potential backdoors, or a listing of all the users on the host.
5	Urgent	Intruders can easily gain control of the host, which can lead to the compromise of your entire network security. For example, vulnerabilities at this level may include full read and write access to files, remote execution of commands, and the presence of backdoors.

Potential Vulnerability Levels

A potential vulnerability is one which we cannot confirm exists. The only way to verify the existence of such vulnerabilities on your network would be to perform an intrusive scan, which could result in a denial of service. This is strictly against our policy. Instead, we urge you to investigate these potential vulnerabilities further.

Severity	Level	Description
1	Minimal	If this vulnerability exists on your system, intruders can collect information about the host (open ports, services, etc.) and may be able to use this information to find other vulnerabilities.
2	Medium	If this vulnerability exists on your system, intruders may be able to collect sensitive information from the host, such as the precise version of software installed. With this information, intruders can easily exploit known vulnerabilities specific to software versions.
3	Serious	If this vulnerability exists on your system, intruders may be able to gain access to specific information stored on the host, including security settings. This could result in potential misuse of the host by intruders. For example, vulnerabilities at this level may include partial disclosure of file contents, access to certain files on the host, directory browsing, disclosure of filtering rules and security mechanisms, denial of service attacks, and unauthorized use of services, such as mail-relaying.
4	Critical	If this vulnerability exists on your system, intruders can possibly gain control of the host, or there may be potential leakage of highly sensitive information. For example, vulnerabilities at this level may include full read access to files, potential backdoors, or a listing of all the users on the host.

Severity	Level D	Description
5	Urgent	If this vulnerability exists on your system, intruders can easily gain control of the host, which can lead to the compromise of your entire network security. For example, vulnerabilities at this level may include full read and write access to files, remote execution of commands, and the presence of backdoors.

Information Gathered

Information Gathered includes visible information about the network related to the host, such as traceroute information, Internet Service Provider (ISP), or a list of reachable hosts. Information Gathered severity levels also include Network Mapping data, such as detected firewalls, SMTP banners, or a list of open TCP services.

Severity	Level Description
1	Minimal Intruders may be able to retrieve sensitive information related to the host, such as open UDP and TCP services lists, and detection of firewalls.
2	Medium Intruders may be able to determine the operating system running on the host, and view banner versions.
3	Serious Intruders may be able to detect highly sensitive data, such as global system user lists.

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