

Report Summary	
User Name:	Rajesh Tripathi
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:	03/21/2022 at 05:18:59 PM (GMT+0530)
Template Title:	NIC exclude
Asset Groups:	-
IPs:	10.132.33.175
Sort by:	Host
Trend Analysis:	Latest vulnerability data
Date Range:	01/01/1999 - 03/21/2022
Active Hosts:	2
Hosts Matching Filters:	1

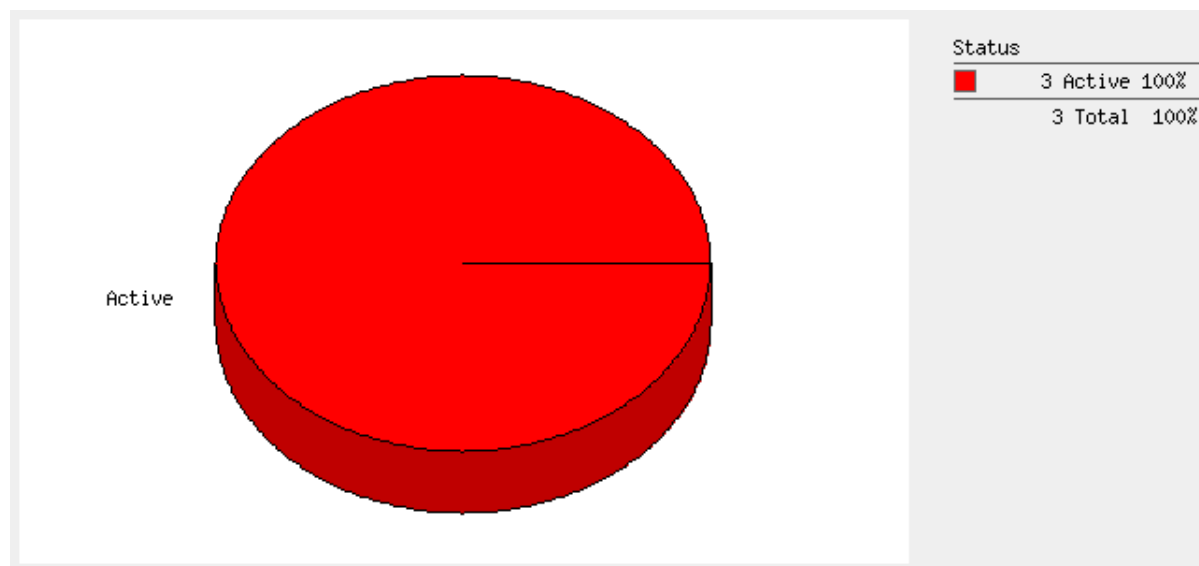
Summary of Vulnerabilities

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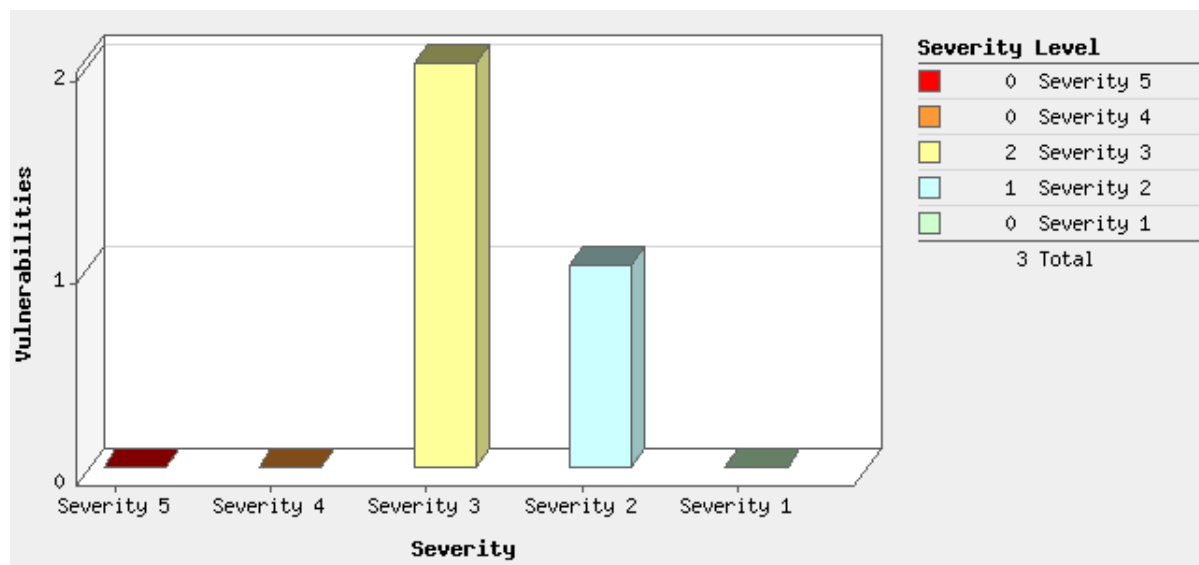
by Severity				
Severity	Confirmed	Potential	Information Gathered	Total
5	0	-	-	0
4	0	-	-	0
3	2	-	-	2
2	1	-	-	1
1	0	-	-	0
Total	3	-	-	3

5 Biggest Categories				
Category	Confirmed	Potential	Information Gathered	Total
Windows	3	-	-	3
Total	3	-	-	3

Vulnerabilities by Status

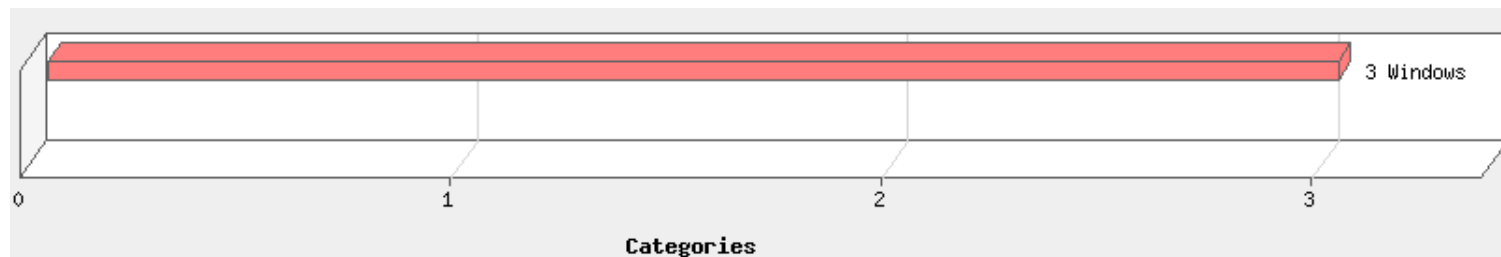


Vulnerabilities by Severity

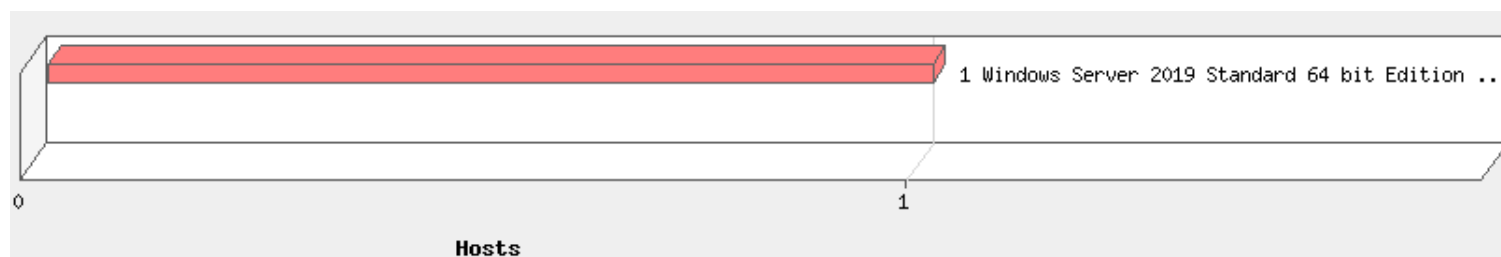


There are no known vulnerabilities for this/these systems

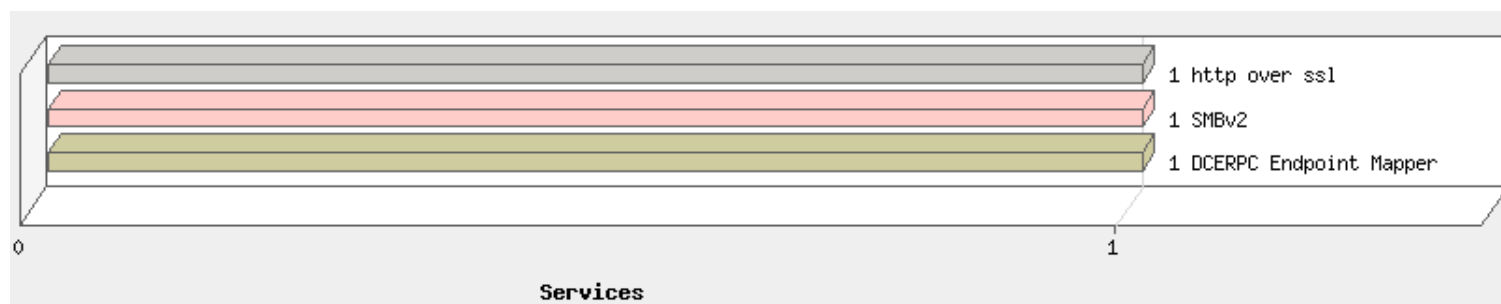
Top 5 Vulnerable Categories



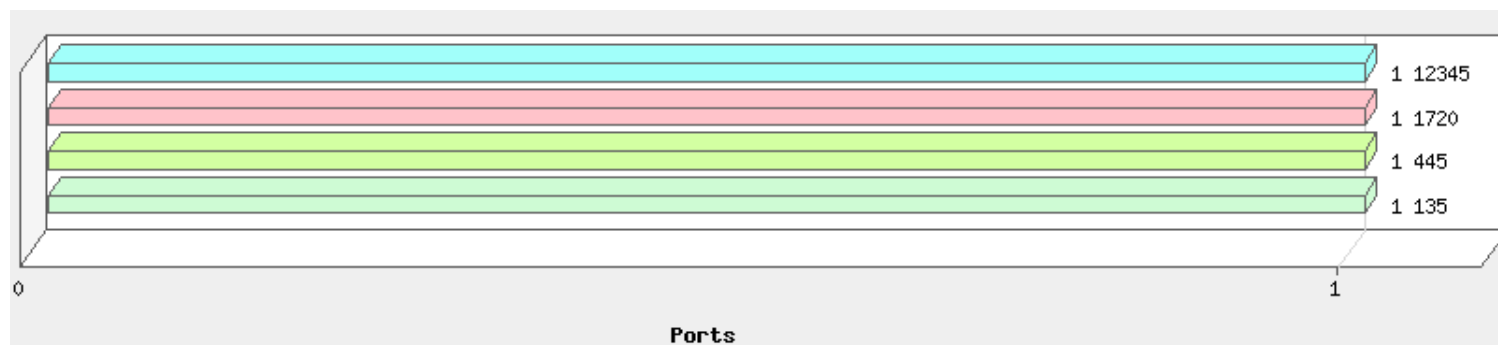
Operating Systems Detected



Services Detected



Ports Detected



Detailed Results

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

Host Identification Information	
IPs	
QG Host ID	57939e00-dc9e-409b-924e-84cdb9a5a94c

Vulnerabilities Total	3	Security Risk	<div><div></div><div></div><div></div><div></div><div></div></div>	3.0
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by Severity				
Severity	Confirmed	Potential	Information Gathered	Total
5	0	-	-	0
4	0	-	-	0
3	2	-	-	2
2	1	-	-	1
1	0	-	-	0
Total	3	-	-	3

5 Biggest Categories				
Category	Confirmed	Potential	Information Gathered	Total
Windows	3	-	-	3
Total	3	-	-	3

Vulnerabilities (3)



3 Allowed Null Session

Active

QID: 90044
Category: Windows
Associated CVEs: [CVE-2002-1117](#), [CVE-2000-1200](#)
Vendor Reference: -
Bugtraq ID: [494](#), [959](#)
Service Modified: 03/03/2022
User Modified: -
Edited: No
PCI Vuln: Yes
Ticket State:

First Detected: 03/16/2022 at 03:03:44 PM (GMT+0530)
Last Detected: 03/21/2022 at 05:00:22 PM (GMT+0530)
Times Detected: 27
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\CurrentControlSet\Control\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 Knowledge Base Article For restricting-information-available-to-anonymous-logon-users (<https://support.microsoft.com/en-us/help/143474/restricting-information-available-to-anonymous-logon-users>) or 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

Active

QID: 90043
Category: Windows
Associated CVEs: -
Vendor Reference: -
Bugtraq ID: -
Service Modified: 07/09/2020
User Modified: -
Edited: No
PCI Vuln: Yes
Ticket State:

First Detected: 03/16/2022 at 03:03:44 PM (GMT+0530)

Last Detected: 03/21/2022 at 05:00:22 PM (GMT+0530)

Times Detected: 27

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 from HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\LanmanWorkStation\Parameters for client and HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\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\System\CurrentControlSet\Services\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\LanmanServer\Parameters requiresecuritysignature = 0

HKLM\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters enablesecuritysignature = 0



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

Active

QID: 91462
Category: Windows
Associated CVEs: [CVE-2018-3639](#)
Vendor Reference: [ADV180012](#)
Bugtraq ID: [104232](#)
Service Modified: 02/04/2022
User Modified: 02/04/2022
Edited: Yes
PCI Vuln: No
Ticket State:

First Detected: 03/16/2022 at 03:03:44 PM (GMT+0530)

Last Detected: 03/21/2022 at 05:00:22 PM (GMT+0530)

Times Detected: 27

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
OR
reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management" /v FeatureSettingsOverride /t REG_DWORD /d 72 /f
OR
reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management" /v FeatureSettingsOverride /t REG_DWORD /d 8264 /f
AND
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.

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