

MSSQL Server bilgi toplama

AMAÇ: metasploit enum modülü veritabanı hakkında bilgi toplanması

GEREKİNİMLER: Kali Linux, nmap, metasploit

Adım 1 – Putty ile Kali Linux üzerinde oturum açılır.

Adım 2 – Komut satırında Metasploit çalıştırılır.

msfconsole

Adım 3 – mssql_enum modülü yüklenir, gerekli parametreler girilir.

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

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

  Name                Current Setting  Required  Description
  ----                -
  PASSWORD             sa               no        The password for the specified username
  RHOST                192.168.1.101   yes       The target address
  RPORT                1433            yes       The target port
  USERNAME             sa               no        The username to authenticate as
  USE_WINDOWS_AUTHENT  false           yes       Use windows authentication (requires DOMAIN option set)

msf auxiliary(mssql_enum) > set RHOST 192.168.1.101
RHOST => 192.168.1.101
msf auxiliary(mssql_enum) > set PASSWORD 123
PASSWORD => 123
```

SİBER GÜVENLİK
ENSTİTÜSÜ

Adım 4 – SQL Server konfigürasyon bilgisi, üzerinde bulunan veritabanları, veritabanlarının veri dosyaları, kullanıcı bilgileri görüntülenir.

```
msf auxiliary(mssql_enum) > run

[*] Running MS SQL Server Enumeration...
[*] Version:
[*]     Microsoft SQL Server 2012 - 11.0.2100.60 (X64)
[*]     Feb 10 2012 19:39:15
[*]     Copyright (c) Microsoft Corporation
[*]     Express Edition (64-bit) on Windows NT 6.2 <X64> (Build 9200: ) (Hypervisor)
[*] Configuration Parameters:
[*]     C2 Audit Mode is Not Enabled
[*]     xp_cmdshell is Not Enabled
[*]     remote access is Enabled
[*]     allow updates is Not Enabled
[*]     Database Mail XPs is Not Enabled
[*]     Ole Automation Procedures are Not Enabled
[*] Databases on the server:
[*]     Database name:master
[*]     Database Files for master:
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\master.mdf
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\mastlog.ldf
[*]     Database name:tempdb
[*]     Database Files for tempdb:
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\tempdb.mdf
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\templog.ldf
[*]     Database name:model
[*]     Database Files for model:
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\model.mdf
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\modellog.ldf
[*]     Database name:msdb
[*]     Database Files for msdb:
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\MSDBData.mdf
[*]         c:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA\MSDBLog.ldf
[*] System Logins on this Server:
[*]     sa
[*]     ##MS_SQLResourceSigningCertificate##
[*]     ##MS_SQLReplicationSigningCertificate##
[*]     ##MS_SQLAuthenticatorCertificate##
[*]     ##MS_PolicySigningCertificate##
[*]     ##MS_SmoExtendedSigningCertificate##
[*]     ##MS_PolicyEventProcessingLogin##
[*]     ##MS_PolicyTsqlExecutionLogin##
[*]     ##MS_AgentSigningCertificate##
[*]     DESKTOP-TS114TN\sqllegitim
[*]     NT SERVICE\SQLWriter
[*]     NT SERVICE\Winmgmt
[*]     NT Service\MSSQL$SQLEXPRESS
[*]     BUILTIN\Users
[*]     NT AUTHORITY\SYSTEM
[*]     sge user
```

Adım 5 – Kullanıcılar hakkında bilgi toplanır.

```
[*] Disabled Accounts:
[*]     ##MS_PolicyEventProcessingLogin##
[*]     ##MS_PolicyTsqlExecutionLogin##
[*] No Accounts Policy is set for:
[*]     All System Accounts have the Windows Account Policy Applied to them.
[*] Password Expiration is not checked for:
[*]     sa
[*]     ##MS_PolicyEventProcessingLogin##
[*]     ##MS_PolicyTsqlExecutionLogin##
[*]     sql user
[*] System Admin Logins on this Server:
[*]     sa
[*]     DESKTOP-TSI14TN\sqllegitim
[*]     NT SERVICE\SQLWriter
[*]     NT SERVICE\Winmgmt
[*]     NT Service\MSSQL$SQLEXPRESS
[*] Windows Logins on this Server:
[*]     DESKTOP-TSI14TN\sqllegitim
[*]     NT SERVICE\SQLWriter
[*]     NT SERVICE\Winmgmt
[*]     NT Service\MSSQL$SQLEXPRESS
[*]     NT AUTHORITY\SYSTEM
[*] Windows Groups that can logins on this Server:
[*]     BUILTIN\Users
[*] Accounts with Username and Password being the same:
[*]     No Account with its password being the same as its username was found.
[*] Accounts with empty password:
[*]     No Accounts with empty passwords where found.
```

Adım 6 – Procedure hakkında bilgiler toplanır.

```
[*] Stored Procedures with Public Execute Permission found:
[*]      sp_replsetsyncstatus
[*]      sp_replcounters
[*]      sp_replsendtoqueue
[*]      sp_resyncexecutesql
[*]      sp_prepexecrpc
[*]      sp_repltrans
[*]      sp_xml_preparedocument
[*]      xp_qv
[*]      xp_getnetname
[*]      sp_releaseschemalock
[*]      sp_refreshview
[*]      sp_replcmds
[*]      sp_unprepare
[*]      sp_reprepare
[*]      sp_createorphan
[*]      xp_dirtree
[*]      sp_replwritetovarbin
[*]      sp_replsetoriginator
[*]      sp_xml_removedocument
[*]      sp_repldone
[*]      sp_reset_connection
[*]      xp_fileexist
[*]      xp_fixddrives
[*]      sp_getschemalock
[*]      sp_prepexec
[*]      xp_revokelogin
[*]      sp_resyncuniquetable
[*]      sp_replflush
[*]      sp_resyncexecute
[*]      xp_grantlogin
[*]      sp_droporphans
[*]      xp_regread
[*]      sp_getbindtoken
[*]      sp_replincrementlsn
[*] Instances found on this server:
[*]      SQLEXPRESS
[*] Default Server Instance SQL Server Service is running under the privilege of:
[*]      xp_regread might be disabled in this system
[*] Auxiliary module execution completed
```

Sonuç: Sql server üzerinde güvenlik denetlemesi gerçekleştirilmiş olur.