专注APT攻击与防御

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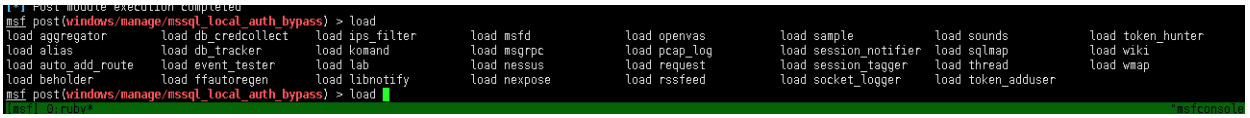
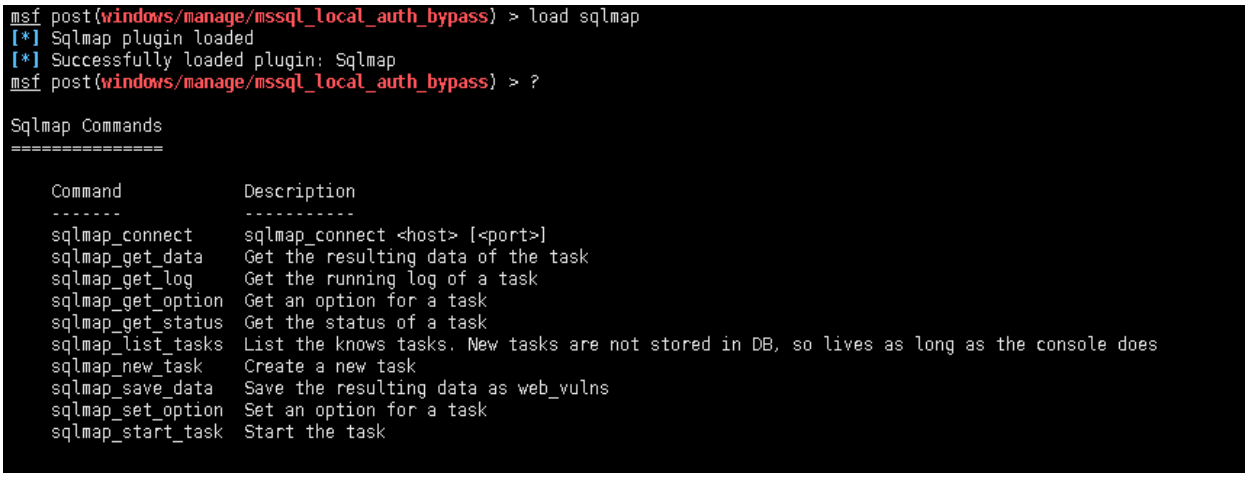
msf在非session 模式下与session模式下都支持第三方的加载与第三方框架的融合。代表参数为load。两种模式下的load 意义不同。本季主要针对非session模式下的load sqlmap情景。





加载Sqlmap后，主要参数如下：

```
Sqlmap Commands
================

 Command Description
 ------- -----------
 sqlmap_connect sqlmap_connect <host> [<port>]
 sqlmap_get_data Get the resulting data of the task
 sqlmap_get_log Get the running log of a task
 sqlmap_get_option Get an option for a task
  sqlmap_get_status Get the status of a task
  sqlmap_list_tasks List the knows tasks. New tasks are not stored in D
B, so lives as long as the console does
  sqlmap_new_task Create a new task
  sqlmap_save_data Save the resulting data as web_vulns
  sqlmap_set_option Set an option for a task
  sqlmap_start_task Start the task
```

```
msf exploit(multi/handler) > help sqlmap
```

help 加载的模块名，为显示第三方的帮助文档。

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Sqlmap Commands
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    Command           Description
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    sqlmap_connect    sqlmap_connect <host> [<port>]
    sqlmap_get_data   Get the resulting data of the task
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    sqlmap_get_option Get an option for a task
    sqlmap_get_status Get the status of a task
    sqlmap_list_tasks List the knows tasks. New tasks are not stored in DB, so lives as long as the console does
    sqlmap_new_task   Create a new task
    sqlmap_save_data  Save the resulting data as web_vulns
    sqlmap_set_option Set an option for a task
    sqlmap_start_task Start the task
```

msf上的sqlmap插件依赖于sqlmap的sqlmapapi.py 在使用前需要启动sqlmapapi.py

```
^Croot@John:~# sqlmapapi -s -p 8080
[14:32:50] [INFO] Running REST-JSON API server at '127.0.0.1:8080'..
[14:32:50] [INFO] Admin ID: ebb920189bf4812238373507fd28781a
[14:32:50] [DEBUG] IPC database: '/tmp/sqlmapipc-3nTmTX'
[14:32:50] [DEBUG] REST-JSON API server connected to IPC database
[14:32:50] [DEBUG] Using adapter 'wsgiref' to run bottle
```

然后在msf上建立任务。

而sqlmap对msf也完美支持。

靶机：192.168.1.115，Sql server 2005 +aspx.net

构造注入点，如图1：

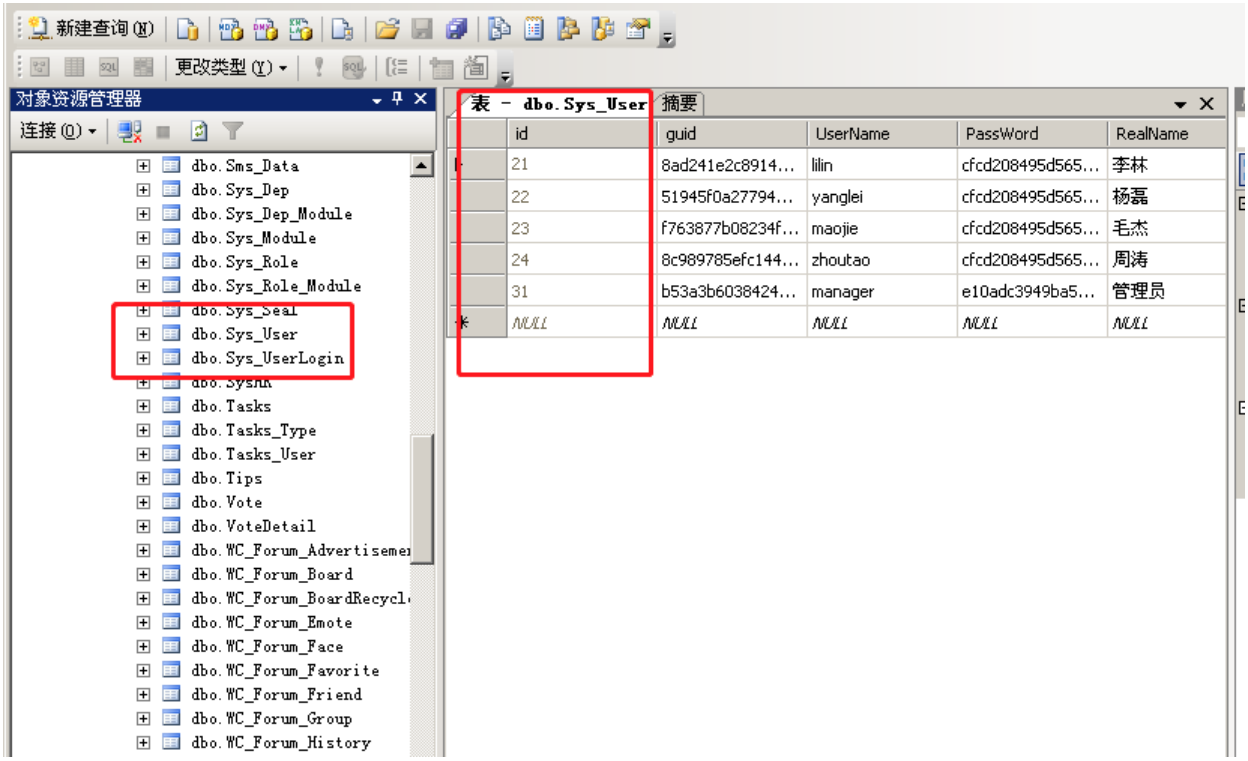
图1：

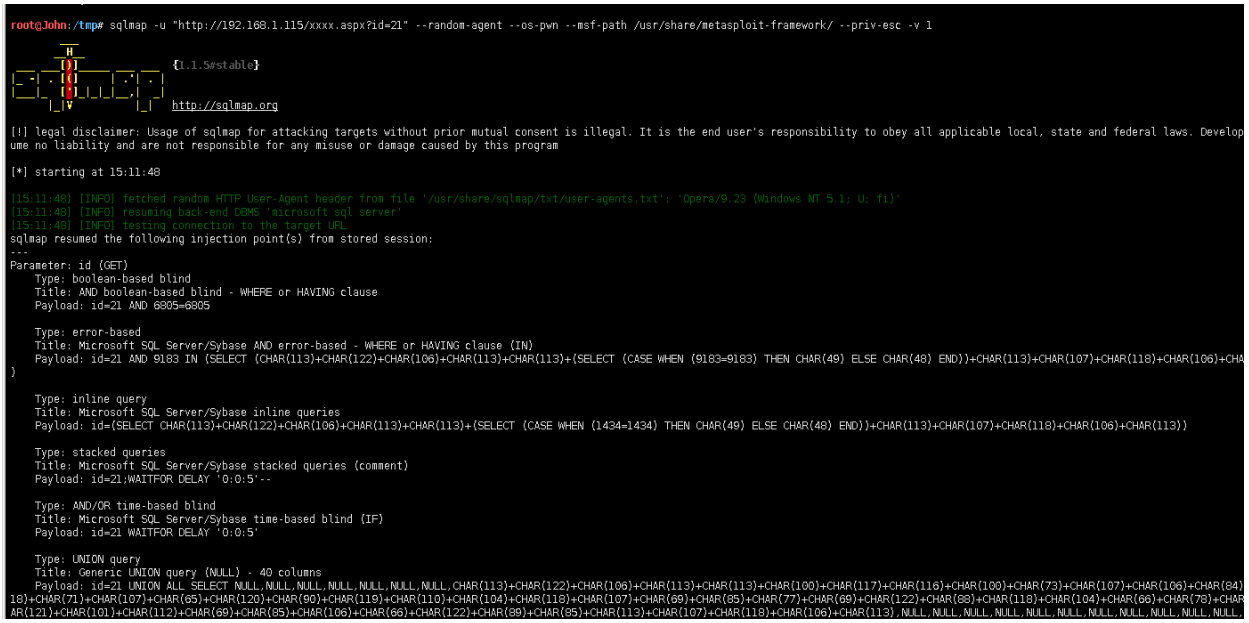
```
<%@ Import Namespace="System.Data" %>
<%@ Import namespace="System.Data.SqlClient"  %>
<!DOCTYPE html>
<script runat="server">
     private DataSet resSet=new DataSet();
    protected void Page_Load(object sender, EventArgs e)
    {
        String strconn = "server=.;database=xxrenshi;uid=sa;pwd=123456";
        string id = Request.Params["id"];
        //string sql = string.Format("select * from admin where id={0}", id);
        string sql = "select * from sys_user where id=" + id;
    SqlConnection connection=new SqlConnection(strconn);
        connection.Open();
        SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
        dataAdapter.Fill(resSet);
        DgData.DataSource = resSet.Tables[0];
        DgData.DataBind();
        Response.Write("sql:<br>"+sql);
        Response.Write("<br>Result:");1
    }

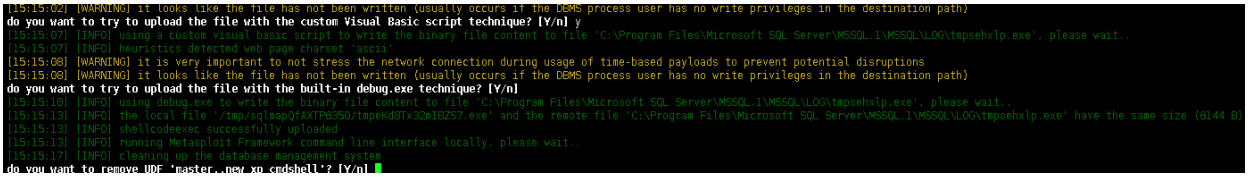
</script>

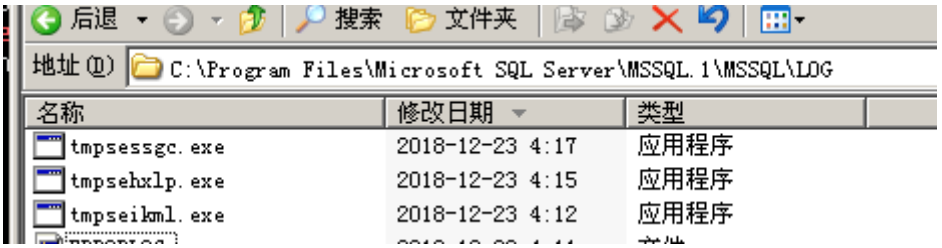
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
```

数据结构，如图2：









关于msf与sqlmap的结合在未来的系列中还会继续讲述，本季作为基础。

附录：

注入点代码：

```
<%@ Page Language="C#" AutoEventWireup="true" %>
<%@ Import Namespace="System.Data" %>
<%@ Import namespace="System.Data.SqlClient" %>
<!DOCTYPE html>
<script runat="server">
 private DataSet resSet=new DataSet();
 protected void Page_Load(object sender, EventArgs e)
 {
 String strconn = "server=.;database=xxrenshi;uid=sa;pwd=123456";
  string id = Request.Params["id"];
  //string sql = string.Format("select * from admin where id={0}", id);
  string sql = "select * from sys_user where id=" + id;
  SqlConnection connection=new SqlConnection(strconn);
  connection.Open();
  SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
  dataAdapter.Fill(resSet);
  DgData.DataSource = resSet.Tables[0];
  DgData.DataBind();
  Response.Write("sql:<br>"+sql);
  Response.Write("<br>Result:");
  }

</script>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
 <title></title>
</head>
<body>
 <form id="form1" runat="server">
 <div>

 <asp:DataGrid ID="DgData" runat="server" BackColor="White" BorderColo
r="#3366CC"
 BorderStyle="None" BorderWidth="1px" CellPadding="4"
 HeaderStyle-CssClass="head" Width="203px">
 <FooterStyle BackColor="#99CCCC" ForeColor="#003399" />
```

```
38   <SelectedItemStyle BackColor="#009999" Font-Bold="True" ForeColor="#C
CFF99" />
39   <PagerStyle BackColor="#99CCCC" ForeColor="#003399"
HorizontalAlign="Left"
40   Mode="NumericPages" />
41   <ItemStyle BackColor="White" ForeColor="#003399" />
42  <HeaderStyle CssClass="head" BackColor="#003399" Font-Bold="True" Fore
Color="#CCCCFF"></HeaderStyle>
43   </asp:DataGrid>
44
45   </div>
46   </form>
47  </body>
48  </html>
```

- Micropoor