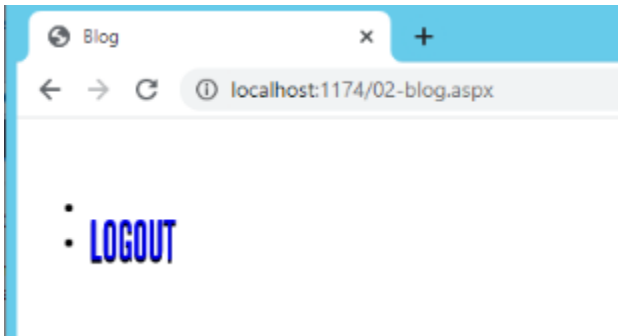


Assignment #4: Database Attacks and Defense

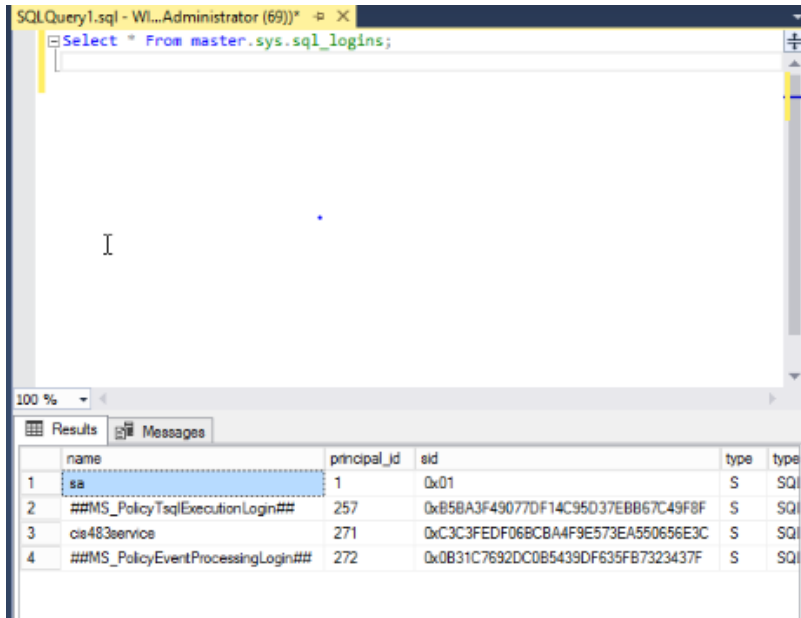
- This is an individual assignment, and is worth 20 points.
- The due date is Saturday, Feb 20th, Midnight.
- You need to provide your answers to the “Homework #4 – Tasks.docx” file. Change the file name following the naming convention suggested below.
- Naming convention is as follows: homework, underscore, last name, first initial, and extension (e.g., Homework #4_ImG.docx). If you do not follow the convention, I will deduct 1.0.
- Do not copy any of the sample screenshots provided as illustrations.
- When you take a screenshot, please zoom in so that the output is visible.

- (Task # 1) Take a screenshot of the next screen after the injection. You must see the Logout button.

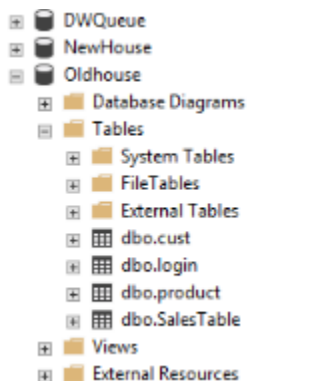


- (Task # 2) Enter the following injection in **Login name** box and make the Password box blank.
 1. **Task #2A:** What is the constructed query that is passed on to SQL Server? If you study the code in **Login.aspx.cs**, you can figure out the constructed query. Also, refer to the class slides for ideas.

SELECT * FROM Login WHERE login_name='admin'; INSERT INTO login VALUES ('user500', 'blue');--
 2. **Task #2B:** Go to the SQL Server and confirm that the account ('user500', 'blue') is indeed created in the login table. Provide a screenshot of the records in the table.



- (Task # 3) Enter the following two injections using **Login name** box. Leave the **Password** box blank. Show in screenshots that the database and the table are created. The table will be created in **Oldhouse** database.



- (Task # 4) Go to the directory **c:\Test** in Windows 2012 Server and locate **ipconfig2.txt** file. Open up the file and take a screenshot of its content.

```

Windows IP Configuration

Host Name . . . . . : WIN-AVPBP9ATULM
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : cybercluster-internal

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : cybercluster-internal
Description . . . . . : Intel(R) PRO/1000 MT Network Connection
Physical Address. . . . . : EA-37-ED-28-4E-F9
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::4d4d:7985:f593:8f1f%12(Preferred)
IPv4 Address. . . . . : 192.168.1.5(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Saturday, February 20, 2021 7:34:26 PM
Lease Expires . . . . . : Sunday, February 21, 2021 7:34:26 PM
Default Gateway . . . . . : 192.168.1.1
DHCP Server . . . . . : 192.168.1.1
DHCPv6 IAID . . . . . : 310801758
DHCPv6 Client DUID. . . . . : 00-01-00-01-27-B3-7F-34-EA-37-ED-28-4E-F9
DNS Servers . . . . . : 192.168.1.1
NetBIOS over Tcpip. . . . . : Enabled

Tunnel adapter isatap.cybercluster-internal:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : cybercluster-internal
Description . . . . . : Microsoft ISATAP Adapter #2
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes

```

- (Task # 5) Take a screenshot of Windows Task manager that is running **ping.exe**. If the ping process disappears quickly, increase the counter 'n'. If you cannot capture the screen, just report it after confirming the injection is working.

SQL Server Windows NT - 64 Bit	45.9%	1,108.5 MB
TCP/IP Ping Command	0%	0.5 MB
TCP/IP Ping Command	0.3%	0.5 MB
TCP/IP Ping Command	0%	0.5 MB
TCP/IP Ping Command	0%	0.5 MB
TCP/IP Ping Command	0%	0.5 MB
VsHub.exe (32 bit)	0%	16.1 MB