PRAKTIKUM KEAMANAN KOMPUTER

LAPORAN 5

PORTSENTRY



Disusun Oleh:

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TUJUAN PEMBELAJARAN:

- 1. Mengenalkanpadamahasiswatentangkonsepdasarautentikasilinux
- 2. MemahamikonsepPortsentry
- 3. Memahami cara menjalankan portsentry dalam linux

Praktikum 5

• Install Portsentry

buka terminal

ketiksudosu:

install dengancara: apt-get install portsentry

• melihatkonfigurasiportsentry:

ls -1/etc/portsentry

ada 3 filekonfigurasiportsentryyaitu:

- nanoportsentry.conf
 - 1. nanoportsentry.ignore : alamatipkomputersebelahnya ifconfig –a
 - 2. nanoportsentry.ignore.static untukmelihatpesan yang dibuatportsentry
 - 3. grepportsentry /var/log/syslog kodeuntukmenjalankanportsentrybaik manual maupunotomatis ls -l /etc/init.d/portsentry
- untukmencariidentitas id portsentry

find /etc/rc*.d/* -print | xargs ls -l | grepportsentry runlevel

N

0 =system halt

1 = single user

2 = full multi user mode (default)

3-5 = samaseperti 2

6 =system reboot

• menjalankandanmenghentikanportsentrysecara manual

cd /etc/init.d

./portsentrystop

• ngecekportsentrysedangjalanapatidak

ps -eaf | grep -v grep | grepportsentry | wc -l ./portsentrystart

• utukmelihat status portsentry

ps -eaf |grep -v grep | grepportsentry

• untukmemeriksa status portsentry yang aktif

ps -eaf | grep -vgrep | grepportsentry | wc -1

• cek status portsentry

service portsentry status

- untukmelakukan scanning dari port 1 65535 nmap -p 1-65535 -T4 -A -v -PE -PS22,25,80 -PA21,23,80 IPTEMENNYA
- untukmencari data serangan yang dibuatoleh port sentry grep "attackalert" /var/log/syslog

LAPORAN PRAKTIKUM 4 PORTSENTRY

1. Proses instalasiportsentry

```
root@rpl15-ThinkCentre-A70: /home/rpl-15

rpl-15@rpl15-ThinkCentre-A70: /s sudo su

[sudo] password for rpl-15:
root@rpl15-ThinkCentre-A70: /home/rpl-15# apt-get install portsentry

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:
    linux-headers-4.4.0-71 linux-headers-4.4.0-71-generic linux-headers-4.4.0-72
    linux-headers-4.4.0-72-generic linux-image-4.4.0-71-generic
    linux-image-extra-4.4.0-72-generic
    linux-image-extra-4.4.0-72-generic

Use "sudo apt autoremove" to remove then.

Suggested packages:
    longcheck

The following NEW packages will be installed:
    portsentry

0 upgraded, 1 newly installed, 0 to remove and 368 not upgraded.

Need to get 64,5 k8 of archives.

After this operation, 228 k8 of additional disk space will be used.

Get:1 bttp://id.archive.ubuntu.com/ubuntu xenial/universe and64 portsentry and64

1.2-14 [sid,5 k8]

Pracomingurance packages

Sulossing previously unselected package portsentry.
```

```
Untitle root@rplis-ThinkCentre-A70:/home/rpl-15# ls -l /etc/init.d/portsentry
-rwxr-xr-x 1 root root 2116 Okt 29 2014 /etc/init.d/portsentry
root@rplis-ThinkCentre-A70:/home/rpl-15# find /etc/rc*.d/* -print | xargs ls -l
| grep portsentry
| grep portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc0.d/K01portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc1.d/K01portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc2.d/S02portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc3.d/S02portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc4.d/S02portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc5.d/S02portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc5.d/S02portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc6.d/K01portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc6.d/K01portsentry -> ../init.d/portsentry
| lrwxrwxrwx 1 root root 20 Nov 6 09:20 /etc/rc6.d/K01portsentry -> ../init.d/portsentry
```

2. Cara konfigurasiportsentry

```
-rw-r--r-- 1 root root 11d81 Okt 30 2014 portsentry.conf

-rw-r--r-- 1 root root 491 Nov 6 09:20 portsentry.ignore

-rw-r--r-- 1 root root 699 Okt 30 2014 portsentry.ignore.static

root@rpl15-ThinkCentre-A70:/home/rpl-15# nano portsentry.conf

root@rpl15-ThinkCentre-A70:/home/rpl-15# nano portsentry.ignore

root@rpl15-ThinkCentre-A70:/home/rpl-15#
```

• Untuk Konfigurasi Komputer Teman

• Hasil konfigurasi

3. Cara menjalankandanmenghentikanportsentry

• Untuk Menjalankan Portsentry

```
root@rpl15-ThinkCentre-A70:/home/rpl-15# runlevel
N 5
root@rpl15-ThinkCentre-A70:/home/rpl-15# cd /etc/init.d
root@rpl15-ThinkCentre-A70:/etc/init.d# ./portsentry stop
[ ok ] Stopping portsentry (via systemctl): portsentry.service.
root@rpl15-ThinkCentre-A70:/etc/init.d# |
```

Untuk Starting Portsentry

• Untuk Menghentikan Portsentry

4. Cara ujicoba port scanning dengannmap

```
NSE: Loaded 132 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 10:09
Completed NSE at 10:09
Scanning 192.168.34.15 [1 port]
Completed ARP Ping Scan at 10:09, 0.21s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 10:09
Completed Parallel DNS resolution of 1 host. at 10:09
Completed Parallel DNS resolution of 1 host. at 10:09, 13.00s elapsed
Initiating SYN Stealth Scan at 10:09
Scanning 192.168.34.15 [65535 ports]
Discovered open port 111/tcp on 192.168.34.15
Discovered open port 32773/tcp on 192.168.34.15
Discovered open port 32771/tcp on 192.168.34.15
Discovered open port 32771/tcp on 192.168.34.15
Discovered open port 32772/tcp on 192.168.34.15
```

- 5. Cara melihat log yang dihasilkanolehportsentry
 - Dalam Langkah terakhir ini kita inputkan IP Komputer teman anda

```
Can pass hostnames, IP addresses, networks, etc.
Ex: scanme.nmap.org, microsoft.com/24, 192.168.0.1; 10.0.0-255.1-254
-iL <inputfilename>: Input from list of hosts/networks
-iR <num hosts>: Choose random targets
--exclude <host1[,host2][,host3],...>: Exclude hosts/networks
--excludefile <exclude_file>: Exclude list from file

HOST DISCOVERY:
-SL: List Scan - simply list targets to scan
-sn: Ping Scan - disable port scan
-Pn: Treat all hosts as online -- skip host discovery
-PS/PA/PU/PY[portlist]: TCP SYN/ACK, UDP or SCTP discovery to given ports
-PE/PP/PM: ICMP echo, timestamp, and netmask request discovery probes
-PO[protocol list]: IP Protocol Ping
-n/-R: Never do DNS resolution/Always resolve [default: sometimes]
--dns-servers <servi[,serv2],...>: Specify custom DNS servers
--system-dns: Use 05 n DNS resolver
```