## PRAKTIKUM STRUKTUR DATA MODUL 2 INSTALL PORTSENTRY



### Disusun oleh:

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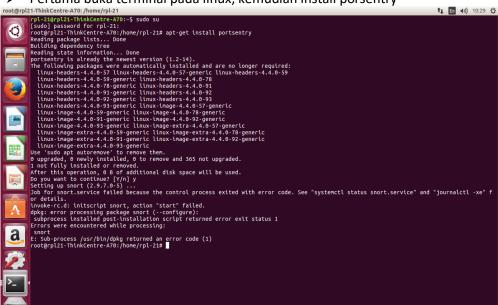
#### I. Dasar teori

### Portsentry

Adalah sebuah perangkat lunak yang dirancang untuk mendeteksi adanya port scanning & meresponds secara aktif jika ada port scanning. Port scan adalah proses scanning berbagai aplikasi servis yang dijalankan di server Internet. Port scan adalah langkah paling awal sebelum sebuah serangan di lakukan.

#### III. Praktikum

Pertama buka terminal pada linux, kemudian install porsentry



Langkah ke dua adalah melihat konfigurasi pada portsentry dengan perintah "nano/etc/porsentry/portsentri.cof"

```
rol@rpl21-ThinkCentre-A70:/home/rpl-21
rpl-21@rpl21-ThinkCentre-A70:/s sudo su
[sudo] password for rpl-21:
root@rpl21-ThinkCentre-A70:/home/rpl-21# ls -l /etc/portsentry
total 20
-rw-r--r-- 1 root root 11681 Okt 30 2014 portsentry.conf
-rw-r--r-- 1 root root 491 Nov 6 10:02 portsentry.ignore
-rw-r--r-- 1 root root 699 Okt 30 2014 portsentry.ignore.static
root@rpl21-ThinkCentre-A70:/home/rpl-21# nano portsentry.conf
root@rpl21-ThinkCentre-A70:/home/rpl-21# nano portsentry.ignore
root@rpl21-ThinkCentre-A70:/home/rpl-21# nano portsentry.ignore.static
root@rpl21-ThinkCentre-A70:/home/rpl-21# nano portsentry.ignore.static
```

Menjalankan portsentry dengan perintah "Is –I /etc/init.d/portsentry"

```
root@rpl21-ThinkCentre-A70:/home/rpl-21
rpl-21@rpl21-ThinkCentre-A70:~$ sudo su
[sudo] password for rpl-21:
root@rpl21-ThinkCentre-A70:/home/rpl-21# ls -l /etc/init.d/portsentry
-rwxr-xr-x 1 root root 2116 Okt 29 2014 /etc/init.d/portsentry
root@rpl21-ThinkCentre-A70:/home/rpl-21#
```

Menghentikan porsentry secara manual dengan perintah "cd /etc/init.d"

```
rot@rpl21-ThinkCentre-A70:/etc/init.d

rpl-21@rpl21-ThinkCentre-A70:~$ sudo su

[sudo] password for rpl-21:
root@rpl21-ThinkCentre-A70:/home/rpl-21# cd /etc/init.d
root@rpl21-ThinkCentre-A70:/etc/init.d# ./portsentry stop

[ ok ] Stopping portsentry (via systemctl): portsentry.service.
root@rpl21-ThinkCentre-A70:/etc/init.d# 

ThinkCentre-A70:/etc/init.d# 

ThinkCentre
```

Melihat pesan pada portsentry menggunakan perintah "grep portsentry /var/log/syslog"

```
8 - a root@rpl21-ThinkCentre-A70: /home/rpl-21
rpl-21@rpl21-ThinkCentre-A70:~$ sudo su
[sudo] password for rpl-21:
root@rpl21-ThinkCentre-A70:/home/rpl-21# grep portsentry /var/log/syslog
Nov 6 09:40:36 rpl21-ThinkCentre-A70 systemd[1]: Starting LSB: # start and stop
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1941]: adminalert: PortSentry 1
.2 is starting.
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 1
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 11
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 15
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 79
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 111
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 119
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 143
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
isten mode on TCP port: 540
Nov 6 09:40:37 rpl21-ThinkCentre-A70 portsentry[1942]: adminalert: Going into l
```

Mencari identitas paada porsentry menggunakan perintah "find /etc/rc\* .d/\* .print | xargs ls -l | grep portsentry"

```
⊗ □ □ root@rpl21-ThinkCentre-A70: /home/rpl-21

rpl-21@rpl21-ThinkCentre-A70:~$ sudo su
[sudo] password for rpl-21:
oot@rpl21-ThinkCentre-A70:/home/rpl-21# find /etc/rc* .d/* -print | xargs ls -l
| grep portsentry
find: '.d/*': No such file or directory
lrwxrwxrwx 1 root root
                         20 Nov 6 09:40 /etc/rc0.d/K01portsentry -> ../init.d/p
                         20 Nov 6 09:40 /etc/rc1.d/K01portsentry -> ../init.d/p
lrwxrwxrwx 1 root root
                         20 Nov 6 09:40 /etc/rc2.d/S02portsentry -> ../init.d/p
lrwxrwxrwx 1 root root
lrwxrwxrwx 1 root root
                         20 Nov 6 09:40 /etc/rc3.d/S02portsentry -> ../init.d/p
lrwxrwxrwx 1 root root
                         20 Nov 6 09:40 /etc/rc4.d/S02portsentry -> ../init.d/p
lrwxrwxrwx 1 root root
                         20 Nov 6 09:40 /etc/rc5.d/S02portsentry -> ../init.d/g
lrwxrwxrwx 1 root root
                         20 Nov 6 09:40 /etc/rc6.d/K01portsentry -> ../init.d/p
                                              ortsentry -> ../init.d/p
lrwxrwxrwx 1 root root
                        20 Nov
                               6 09:40 K01p
                                                       -> ../init.d/
                        20 Nov
                                6 09:40 K01
lrwxrwxrwx 1 root root
lrwxrwxrwx 1 root root
                                                       -> ../init.d/
                        20 Nov
                                6 09:40 S02
                                                       -> ../init.d/
lrwxrwxrwx 1 root root
                        20 Nov 6 09:40 S02
lrwxrwxrwx 1 root root
                        20 Nov
                                6 09:40 S02
```

Untuk Cek status menggunakan perintah "sevice portsentry status"

```
root@rpl21-ThinkCentre-A70:/home/rpl-21

rpl-21@rpl21-ThinkCentre-A70:~$ sudo su
[sudo] password for rpl-21:
root@rpl21-ThinkCentre-A70:/home/rpl-21# service portsentry status

portsentry.service - LSB: # start and stop portsentry

Loaded: loaded (/etc/init.d/portsentry; bad; vendor preset: enabled)

Active: inactive (dead) since Sen 2017-11-06 10:43:39 WIB; 4min 23s ago

Docs: man:systemd-sysv-generator(8)

Process: 3055 ExecStop=/etc/init.d/portsentry stop (code=exited, status=0/SUCC)

Nov 06 10:11:18 rpl21-ThinkCentre-A70 portsentry[2350]: attackalert: Host: 192.1

Nov 06 10:11:18 rpl21-ThinkCentre-A70 portsentry[2350]: attackalert: Connect fro
Nov 06 10:11:18 rpl21-ThinkCentre-A70 portsentry[2350]: attackalert: Host: 192.1

Nov 06 10:43:39 rpl21-ThinkCentre-A70 portsentry[2350]: attackalert: Host: 192.1

Nov 06 10:43:39 rpl21-ThinkCentre-A70 portsentry[355]: Stopping anti portscan d

Nov 06 10:43:39 rpl21-ThinkCentre-A70 systemd[1]: Stopped LSB: # start and stop

Nov 06 10:43:39 rpl21-ThinkCentre-A70 systemd[1]: Stopped LSB: # start and stop

lines 1-16/16 (END)
```

Melakukan scanning dengan nmap menggunakan perintah "nmap –p 1-65535 –T4 –A –v –PE –PS22,25,80 –PA21,23,80 ip computer"

```
root@rpl21-ThinkCentre-A70:/home/rpl-21# nmap -p 1-65535 -T4 -A -v -PE -PS22,25, 80 -PA21,23,80 192.168.34.23

Starting Nmap 7.01 ( https://nmap.org ) at 2017-11-06 10:50 WIB NSE: Loaded 132 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 10:50

Completed NSE at 10:50, 0.00s elapsed Initiating NSE at 10:50

Completed NSE at 10:50, 0.00s elapsed Initiating ARP Ping Scan at 10:50

Scanning 192.168.34.23 [1 port]

Completed ARP Ping Scan at 10:50, 0.43s elapsed (1 total hosts)

Nmap scan report for 192.168.34.23 [host down]

NSE: Script Post-scanning.
Initiating NSE at 10:50

Completed NSE at 10:50, 0.00s elapsed

Initiating NSE at 10:50

Completed NSE at 10:50, 0.00s elapsed

Read data files from: /usr/bin/../share/nmap

Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn

Nmap done: 1 IP address (0 hosts up) scanned in 1.51 seconds

Raw packets sent: 2 (56B) | Rcvd: 0 (0B)

root@rpl21-ThinkCentre-A70:/home/rpl-21#
```

Untuk melihat log pada portsentry menggunakan perintah "grep "attackalert" /var/log/syslog"

