## PRAKTIKUM STRUKTUR DATA MODUL 2 INSTALL PORTSENTRY



### Disusun oleh:

Nama: Angger Wilujeng NIM: 1600631003

# JURUSAN MANAJEMEN INFORMATIKA FAKULTAS TEKNIK UNIVERSITAS MUHAMMADIYAH JEMBER 2017

### 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

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

rpl-22/grpl21-ThinkCentre-A70:/home/rpl-25 sudo su

sudo password (no rpl-25:/home/rpl-21 pat-get install portsentry

Reading package lists., a bane

Reading package lists., a bane

Reading state information... bone

Reading state information...

Reading state information...

Reading state information... bone

Reading state information...

Reading state information.

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

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

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

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

```
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
lrwxrwxrwx 1 root root
                               20 Nov 6 09:40 /etc/rc1.d/K01portsentry -> ../init.d/p
                               20 Nov 6 09:40 /etc/rc2.d/S02portsentry -> ../init.d/
lrwxrwxrwx 1 root root
lrwxrwxrwx 1 root root
                               20 Nov 6 09:40 /etc/rc3.d/S02portsentry -> ../init.d/p
                               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
lrwxrwxrwx 1 root root
                               20 Nov 6 09:40 /etc/rc6.d/K01portsentry -> ../init.d/p
lrwxrwxrwx 1 root root 20 Nov 6 09:40 K01portsentry -> ../init.d/por
lrwxrwxrwx 1 root root 20 Nov 6 09:40 K01portsentry -> ../init.d/por
lrwxrwxrwx 1 root root 20 Nov 6 09:40 S02portsentry -> ../init.d/por
lrwxrwxrwx 1 root root 20 Nov 6 09:40 S02portsentry -> ../init.d/por
lrwxrwxrwx 1 root root 20 Nov 6 09:40 S02p
```

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 10:11:18 rpl21-ThinkCentre-A70 portsentry[2350]: attackalert: Connect fro
Nov 06 10:11:18 rpl21-ThinkCentre-A70 portsentry[2350]: attackalert: Host: 192.1
Nov 06 10:11:18 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 systemd[1]: Stopping LSB: # start and stop
Nov 06 10:43:39 rpl21-ThinkCentre-A70 portsentry[3055]: Stopping anti portscan d
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

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, 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, 0.00s elapsed

Initiating 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"

