Nama: Aulia Rachmawati

Nim : L200160015

Kelas : A

-MODUL 9-

## Update

```
root@aulia-VirtualBox:/home/aulia# apt-get update
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Hit:2 http://id.archive.ubuntu.com/ubuntu xenial InRelease
Get:3 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [647
Get:4 http://id.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:5 http://security.ubuntu.com/ubuntu xenial-security/main i386 Packages [535
Hit:6 http://id.archive.ubuntu.com/ubuntu xenial-backports InRelease
Get:7 http://security.ubuntu.com/ubuntu xenial-security/main Translation-en [264
kB1
Get:8 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [95
7 kB]
Get:9 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages
[435 kB]
Get:10 http://security.ubuntu.com/ubuntu xenial-security/universe i386 Packages
[378 kB]
Get:11 http://id.archive.ubuntu.com/ubuntu xenial-updates/main i386 Packages [82
4 kB]
Get:12 http://id.archive.ubuntu.com/ubuntu xenial-updates/main Translation-en [3
81 kB]
Get:13 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Package
s [748 kB]
Get:14 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe i386 Packages
```

### Cek kompatibilitas antivirus

```
root@aulia-VirtualBox:/home/aulia# apt-cache search clamav
amavisd-new - Interface between MTA and virus scanner/content filters
clamav - anti-virus utility for Unix - command-line interface
clamav-base - anti-virus utility for Unix - base package
clamav-daemon - anti-virus utility for Unix - scanner daemon
clamav-dbg - debug symbols for ClamAV
clamav-docs - anti-virus utility for Unix - documentation clamav-freshclam - anti-virus utility for Unix - virus database update utility
clamdscan - anti-virus utility for Unix - scanner client
libclamav-dev - anti-virus utility for Unix - development files
libclamav7 - anti-virus utility for Unix - library
amavisd-new-postfix - part of Ubuntu mail stack provided by Ubuntu server team
clamassassin - email virus filter wrapper for ClamAV
clamav-milter - anti-virus utility for Unix - sendmail integration clamav-testfiles - anti-virus utility for Unix - test files
clamav-unofficial-sigs - update script for 3rd-party clamav signatures clamfs - user-space anti-virus protected file system
clamsmtp - virus-scanning SMTP proxy
clamtk - graphical front-end for ClamAV
clamtk-gnome - GNOME (Nautilus) MenuProvider extension for ClamTk
claws-mail-clamd-plugin - ClamAV socket-based plugin for Claws Mail
courier-filter-perl - purely Perl-based mail filter framework for the Courier MT
```

### **Install Clamav**

```
root@aulia-VirtualBox:/home/aulia# apt-cache search clamav
amavisd-new - Interface between MTA and virus scanner/content filters
clamav - anti-virus utility for Unix - command-line interface
clamav-base - anti-virus utility for Unix - base package
clamav-daemon - anti-virus utility for Unix - scanner daemon
clamav-dbg - debug symbols for ClamAV clamav-docs - anti-virus utility for Unix - documentation
clamav-freshclam - anti-virus utility for Unix - virus database update utility
clamdscan - anti-virus utility for Unix - scanner client
libclamav-dev - anti-virus utility for Unix - development files
libclamav7 - anti-virus utility for Unix - library
amavisd-new-postfix - part of Ubuntu mail stack provided by Ubuntu server team
clamassassin - email virus filter wrapper for ClamAV
clamav-milter - anti-virus utility for Unix - sendmail integration
clamav-testfiles - anti-virus utility for Unix - test files
clamav-unofficial-sigs - update script for 3rd-party clamav signatures
clamfs - user-space anti-virus protected file system
clamsmtp - virus-scanning SMTP proxy
clamtk - graphical front-end for ClamAV
clamtk-gnome - GNOME (Nautilus) MenuProvider extension for ClamTk
claws-mail-clamd-plugin - ClamAV socket-based plugin for Claws Mail
courier-filter-perl - purely Perl-based mail filter framework for the Courier MT
```

Scanning menggunakan clamscan engine pada direktori /home/aulia

Scanning menggunakan clamscan engine pada direktori /var/www

# Update clamav

```
root@aulia-VirtualBox:/# freshclam
Tue May 28 21:41:16 2019 -> ClamAV update process started at Tue May 28 21:41:16
Tue May 28 21:41:51 2019 -> ^Can't query current.cvd.clamav.net
Tue May 28 21:41:51 2019 -> ^Invalid DNS reply. Falling back to HTTP mode.
Tue May 28 21:45:17 2019 -> Downloading main.cvd [100%]
Tue May 28 21:45:27 2019 -> main.cvd updated (version: 58, sigs: 4566249, f-leve
l: 60, builder: sigmgr)
Tue May 28 21:46:24 2019 -> Downloading daily.cvd [100%]
Tue May 28 21:46:51 2019 -> daily.cvd updated (version: 25463, sigs: 1583021, f-
level: 63, builder: raynman)
Tue May 28 21:46:53 2019 -> Downloading bytecode.cvd [100%]
Tue May 28 21:46:54 2019 -> bytecode.cvd updated (version: 328, sigs: 94, f-leve
l: 63, builder: neo)
Tue May 28 21:47:06 2019 -> Database updated (6149364 signatures) from db.local.
clamav.net (IP: 104.16.219.84)
Tue May 28 21:47:06 2019 -> !NotifyClamd: Can't find or parse configuration file
/etc/clamav/clamd.conf
root@aulia-VirtualBox:/#
```

### Download test virus

```
root@aulia-VirtualBox:/home/aulia# wget http://www.eicar.org/download/eicar.com
--2019-05-28 21:50:13-- http://www.eicar.org/download/eicar.com
Resolving www.eicar.org (www.eicar.org)... 213.211.198.62
Connecting to www.eicar.org (www.eicar.org)|213.211.198.62|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 68 [application/octet-stream]
Saving to: 'eicar.com'
eicar.com 100%[===============] 68 --.-KB/s in 0s
2019-05-28 21:50:15 (5,82 MB/s) - 'eicar.com' saved [68/68]
root@aulia-VirtualBox:/home/aulia#
```

## Scan test virus

1. Scanning direktori dibawah direktori utama (root)

```
root@aulia-VirtualBox:/# ls
bin
       dev
             initrd.img lost+found
                                     opt
                                           run
                                                 STV
                                                      USF
boot
                         media
       etc
                                     ргос
                                           sbin
                                                 sys
                                                      var
cdrom
       home lib64
                                                      vmlinuz
                                     root
                         mnt
                                           snap
                                                 tmp
```

- Dibawah Root

```
root@aulia-VirtualBox:/# clamscan ./ root
./vmlinuz: Symbolic link
./initrd.img: Symbolic link
root/.rnd: OK
root/.bashrc: OK
root/.bash history: OK
root/.profile: OK
----- SCAN SUMMARY ---
Known viruses: 6143694
Engine version: 0.100.3
Scanned directories: 2
Scanned files: 4
Infected files: 0
Data scanned: 0.02 MB
Data read: 0.01 MB (ratio 2.00:1)
Time: 39.841 sec (0 m 39 s)
root@aulia-VirtualBox:/#
```

# - Bin

```
/bin/lessecho: OK
/bin/fusermount: OK
/bin/mt-gnu: OK
/bin/true: OK
/bin/zmore: OK
/bin/nc: Symbolic link
/bin/mount: OK
/bin/lowntfs-3g: OK
/bin/lesspipe: OK
/bin/open: Symbolic link
/bin/findmnt: OK
/bin/uname: OK
/bin/bzip2recover: OK
----- SCAN SUMMARY -
Known viruses: 6143694
Engine version: 0.100.3
Scanned directories: 1
Scanned files: 138
Infected files: 0
Data scanned: 12.22 MB
Data read: 12.16 MB (ratio 1.00:1)
Time: 48.514 sec (0 m 48 s)
root@aulia-VirtualBox:/bin#
```

## - Home

```
/etc/group-: OK
/etc/logrotate.conf: OK
/etc/fuse.conf: OK
/etc/subgid: OK
/etc/kerneloops.conf: OK
/etc/subuid-: Empty file
/etc/.pwd.lock: Empty file
/etc/gai.conf: OK
/etc/rpc: OK
/etc/subgid-: Empty file
/etc/.host.conf.swp: OK
/etc/bash.bashrc: OK
/etc/hdparm.conf: OK
----- SCAN SUMMARY -----
Known viruses: 6143694
Engine version: 0.100.3
Scanned directories: 1
Scanned files: 98
Infected files: 0
Data scanned: 0.52 MB
Data read: 0.26 MB (ratio 1.99:1)
Time: 45.105 sec (0 m 45 s)
root@aulia-VirtualBox:/etc#
```

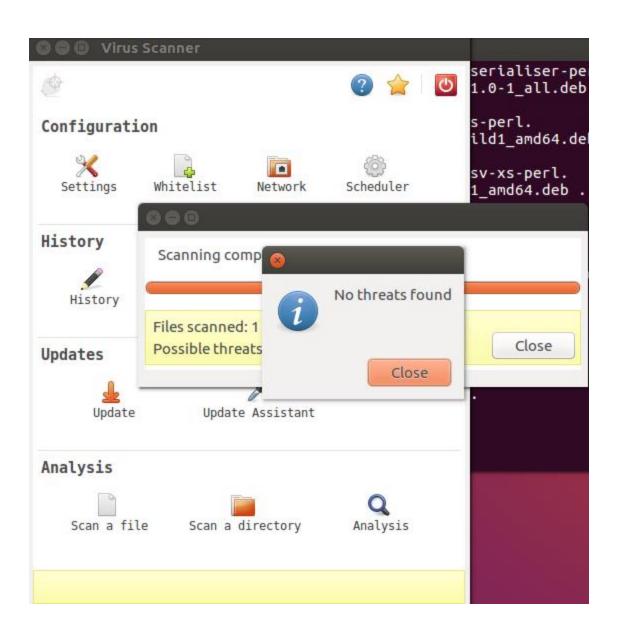
2. Konfigurasi user permission berpengaruh pada saat melakukan scanning pada direktori root. Terdapat warning: root: can't access file.

```
aulia@aulia-VirtualBox:~$ clamscan ./ root
./.Xauthority: OK
./.xsession-errors: OK
./.bash logout: OK
./.dmrc: OK
./.xsession-errors.old: OK
./examples.desktop: OK
./.sudo_as_admin_successful: Empty file
./.bashrc: OK
./.bash history: OK
./a.out: Empty file
./.profile: OK
./.ICEauthority: OK
root: No such file or directory
WARNING: root: Can't access file
----- SCAN SUMMARY -----
Known viruses: 6143694
Engine version: 0.100.3
Scanned directories: 1
Scanned files: 10
Infected files: 0
Data scanned: 0.04 MB
Data read: 0.02 MB (ratio 1.83:1)
```

### 3. Install 2 aplikasi antivirus

#### - ClamTK

```
root@aulia-VirtualBox:/home/aulia# apt-get install clamtk
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 qnome-icon-theme libcommon-sense-perl libjson-perl libjson-xs-perl
 libtext-csv-perl libtext-csv-xs-perl libtypes-serialiser-perl
Suggested packages:
 cabextract clamtk-nautilus
The following NEW packages will be installed:
 clamtk gnome-icon-theme libcommon-sense-perl libjson-perl libjson-xs-perl
 libtext-csv-perl libtext-csv-xs-perl libtypes-serialiser-perl
0 upgraded, 8 newly installed, 0 to remove and 298 not upgraded.
Need to get 10,4 MB of archives.
After this operation, 18,2 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://id.archive.ubuntu.com/ubuntu xenial/universe amd64 libtext-csv-perl
all 1.33-1 [48,2 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu xenial/main amd64 libjson-perl all 2.9
0-1 [79,4 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu xenial/universe amd64 gnome-icon-theme
all 3.12.0-1ubuntu3 [9.630 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu xenial/universe amd64 clamtk all 5.20-
1 [455 kB]
```



### Sophos Antivirus

```
Sophos Anti-Virus
_____
Copyright 1989-2018 Sophos Limited. All rights reserved.
Welcome to the Sophos Anti-Virus installer. Sophos Anti-Virus contains an on-
access scanner, an on-demand command-line scanner and the Sophos Anti-Virus
daemon.
On-access scanner
                        Scans files as they are accessed, and grants access
                        to only those that are threat-free.
On-demand scanner
                        Scans the computer, or parts of the computer,
                        immediately.
Sophos Anti-Virus daemon Background process that provides control, logging,
                        and email alerting for Sophos Anti-Virus.
Press <return> to display Licence. Then press <spc> to scroll forward.
*********
This Sophos software contains software licensed by Sophos as well as software
licensed by other parties. Some software license terms may grant You rights with
respect to such software (including distribution rights) which are in addition
to those rights granted to You by Sophos with respect to this Sophos product in
root@aulia-VirtualBox:/opt/sophos-av/bin# ./savdstatus
Sophos Anti-Virus is active and on-access scanning is running
root@aulia-VirtualBox:/opt/sophos-av/bin# ./savescan /home/aulia
bash: ./savescan: No such file or directory
root@aulia-VirtualBox:/opt/sophos-av/bin# ls
   savconfig savdctl savdstatus savlog savscan savsetup savupdate
root@aulia-VirtualBox:/opt/sophos-av/bin# ./savscan /home/aulia
SAVScan virus detection utility
Version 5.53.0 [Linux/AMD64]
Virus data version 5.55, September 2018
Includes detection for 25676226 viruses, Trojans and worms
Copyright (c) 1989-2018 Sophos Limited. All rights reserved.
System time 11:47:57 AM, System date 02 June 2019
Useful life of Scan has been exceeded
Quick Scanning
2004 files scanned in 21 seconds.
No viruses were discovered.
End of Scan.
root@aulia-VirtualBox:/opt/sophos-av/bin#
```