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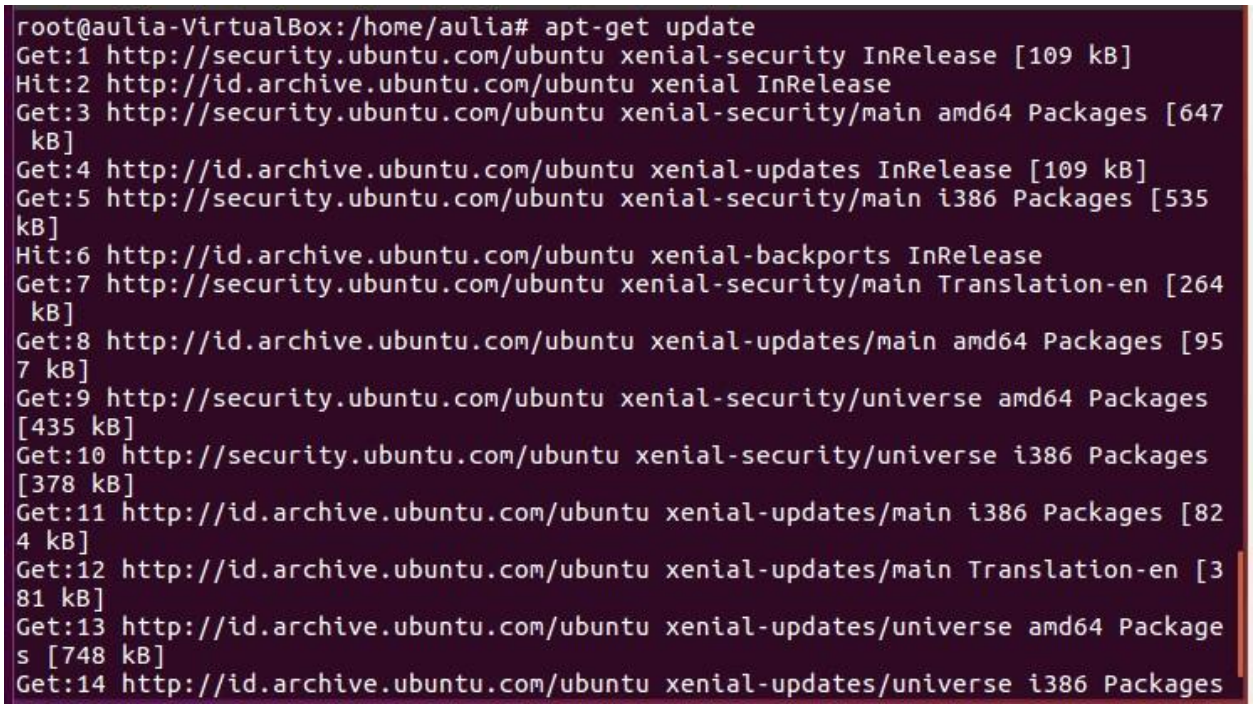
Nim : L200160117

Modul 9



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
A
```

Install Clamav

```
root@aulia-VirtualBox:/home/aulia# apt-cache search clamav
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```

Scanning menggunakan clamscan engine pada direktori /home/aulia

```
root@aulia-VirtualBox:/home/aulia# clamscan
LibClamAV Error: cli_loaddbdir(): No supported database files found in /var/lib/
clamav
ERROR: Can't open file or directory

----------- SCAN SUMMARY -----------
Known viruses: 0
Engine version: 0.100.3
Scanned directories: 0
Scanned files: 0
Infected files: 0
Data scanned: 0.00 MB
Data read: 0.00 MB (ratio 0.00:1)
Time: 0.015 sec (0 m 0 s)
root@aulia-VirtualBox:/home/aulia#
```

Scanning menggunakan clamscan engine pada direktori /var/www

```
root@aulia-VirtualBox:/var/www# clamscan -r /www
LibClamAV Error: cli_loaddbdir(): No supported database files found in /var/lib/
clamav
ERROR: Can't open file or directory

----------- SCAN SUMMARY -----------
Known viruses: 0
Engine version: 0.100.3
Scanned directories: 0
Scanned files: 0
Infected files: 0
Data scanned: 0.00 MB
Data read: 0.00 MB (ratio 0.00:1)
Time: 0.007 sec (0 m 0 s)
root@aulia-VirtualBox:/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
 2019
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

```
root@aulia-VirtualBox:/home/aulia# clamscan --infected --remove --recursive ./ei
car.com
./eicar.com: Eicar-Test-Signature FOUND
./eicar.com: Removed.

----------- SCAN SUMMARY -----------
Known viruses: 6140217
Engine version: 0.100.3
Scanned directories: 0
Scanned files: 1
Infected files: 1
Data scanned: 0.00 MB
Data read: 0.00 MB (ratio 0.00:1)
Time: 60.980 sec (1 m 0 s)
root@aulia-VirtualBox:/home/aulia#
```

Tugas

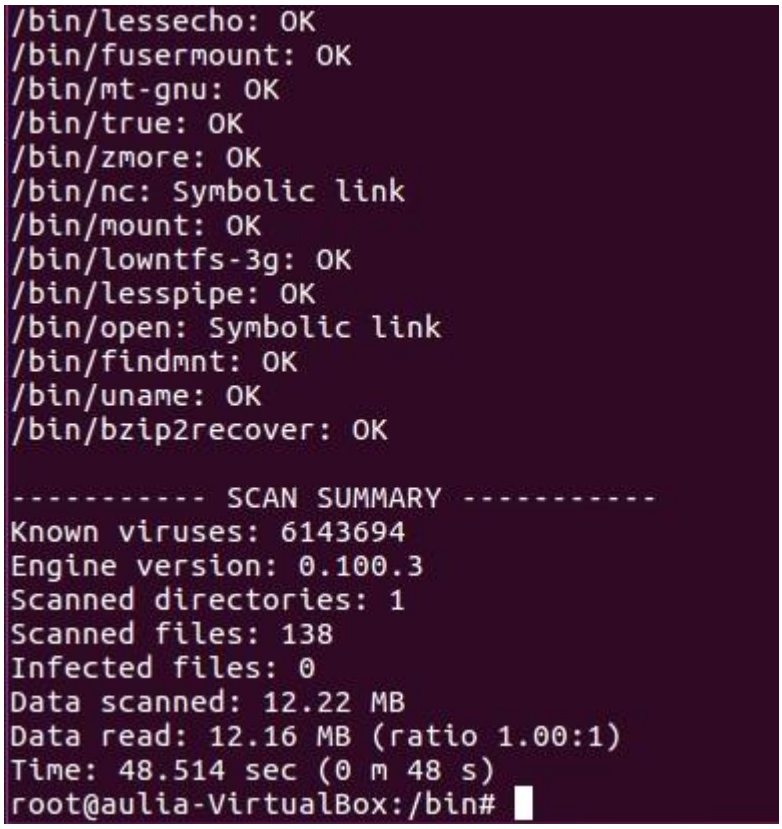
1. Scanning direktori dibawah direktori utama (root)

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

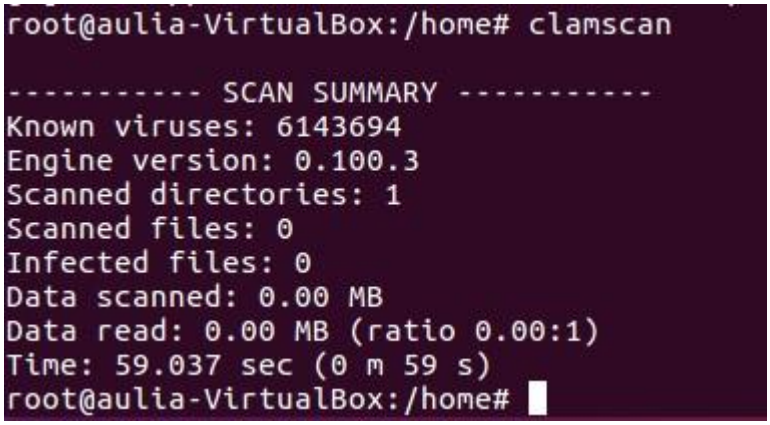
- **Dibawah Root**

```
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**


root@aulia-VirtualBox:/home# clamscan
----------- SCAN SUMMARY -----------
Known viruses: 6143694
Engine version: 0.100.3
Scanned directories: 1
Scanned files: 0
Infected files: 0
Data scanned: 0.00 MB
Data read: 0.00 MB (ratio 0.00:1)
Time: 59.037 sec (0 m 59 s)
root@aulia-VirtualBox:/home#

- **Etc**

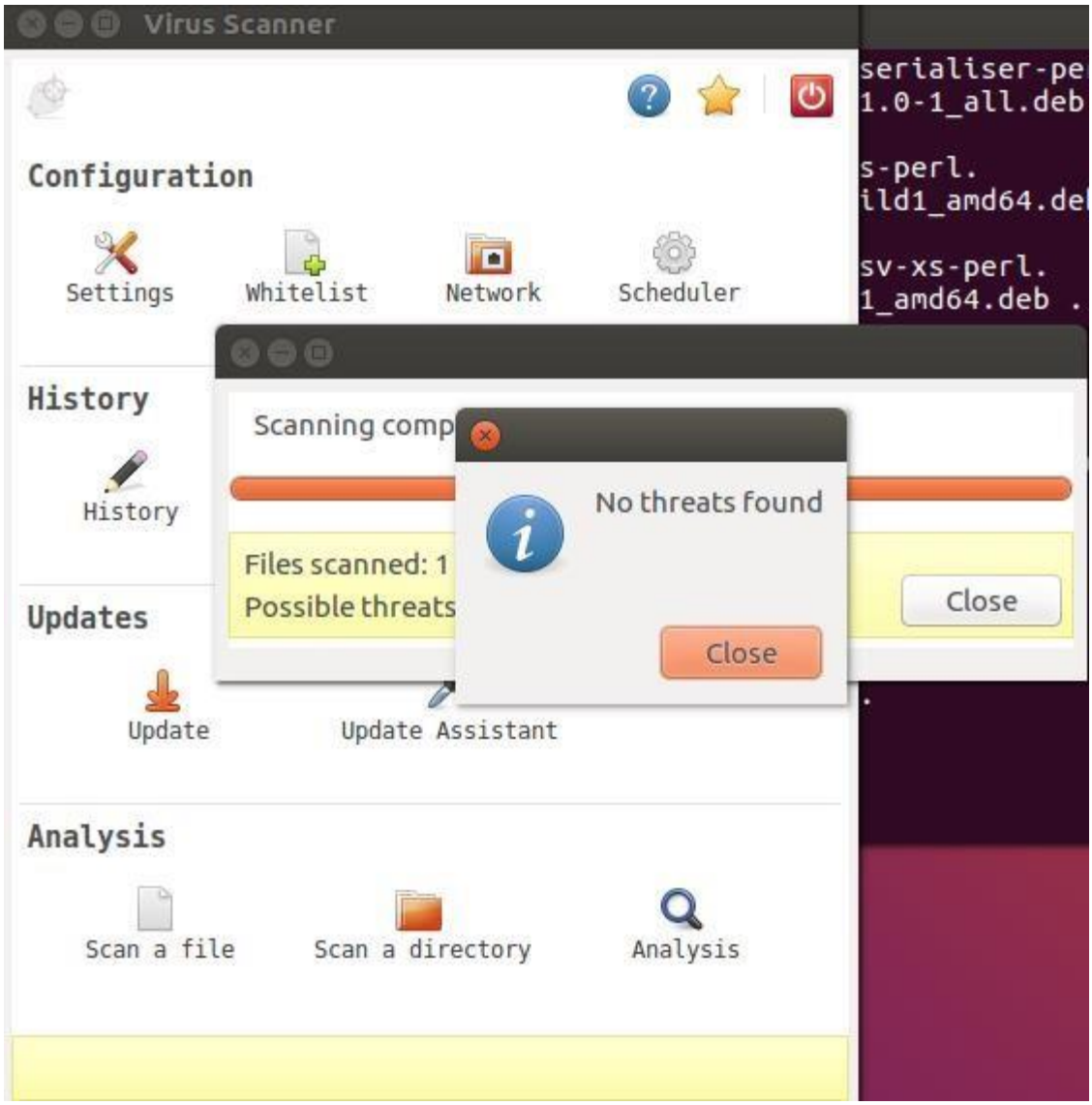
```
/etc/group-: OK
/etc/logrotate.conf: OK
/etc/fuse.conf: OK
/etc/subgid: OK
/etc/kerneloops.conf: OK
/etc/subuid-: Empty file
/etc/.pwd.lock: Empty file
/etc/gai.conf: OK
/etc/rpc: OK
/etc/subgid-: Empty file
/etc/.host.conf.swp: OK
/etc/bash.bashrc: OK
/etc/hdparm.conf: OK

----------- 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.**

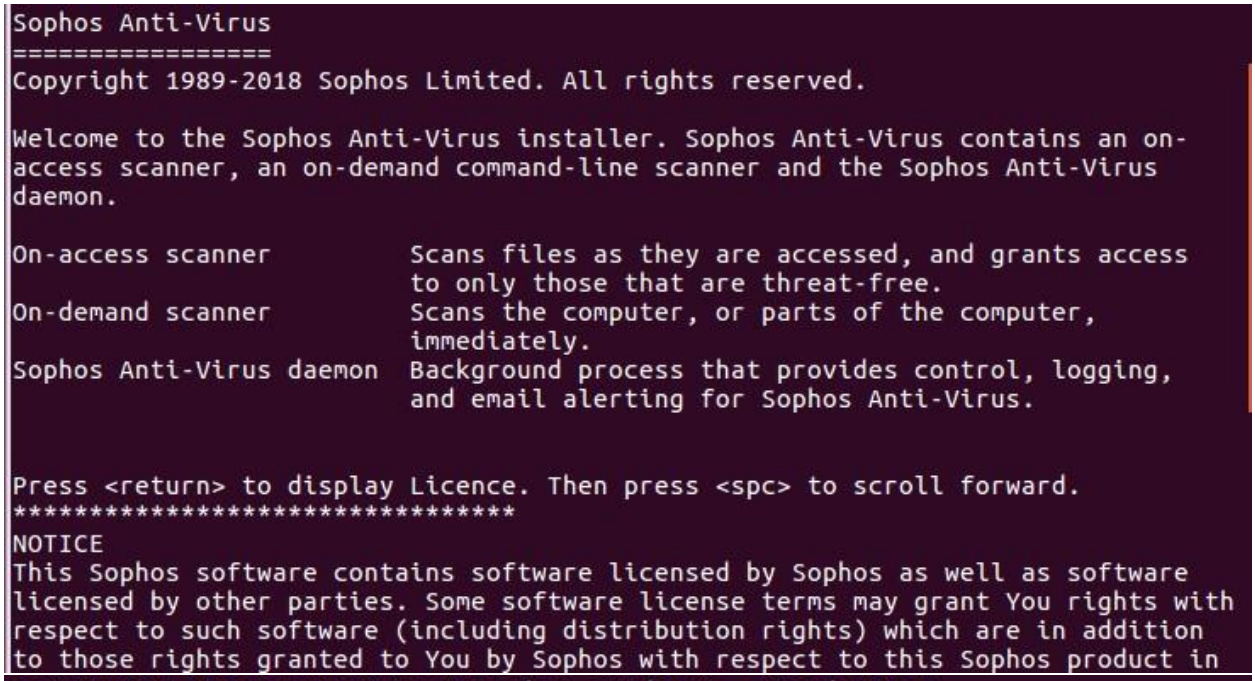
```
aulia@aulia-VirtualBox:~$ clamscan ./ root
./.Xauthority: OK
./.xsession-errors: OK
./.bash_logout: OK
./.dmrc: OK
./.xsession-errors.old: OK
./examples.desktop: OK
./.sudo_as_admin_successful: Empty file
./.bashrc: OK
./.bash_history: OK
./a.out: Empty file
./.profile: OK
./.ICEauthority: OK
root: 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:
  gnome-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]
```


Virus Scanner
Configuration
Settings
Whitelist
Network
Scheduler
History
History
Updates
Update
Update Assistant
Analysis
Scan a file
Scan a directory
Analysis
Scanning comp
Files scanned: 1
Possible threats
Close
No threats found
Close
serialiser-pe
1.0-1_all.deb
s-perl.
ild1_amd64.de
sv-xs-perl.
1_amd64.deb .

- Sophos Antivirus




```
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#
```