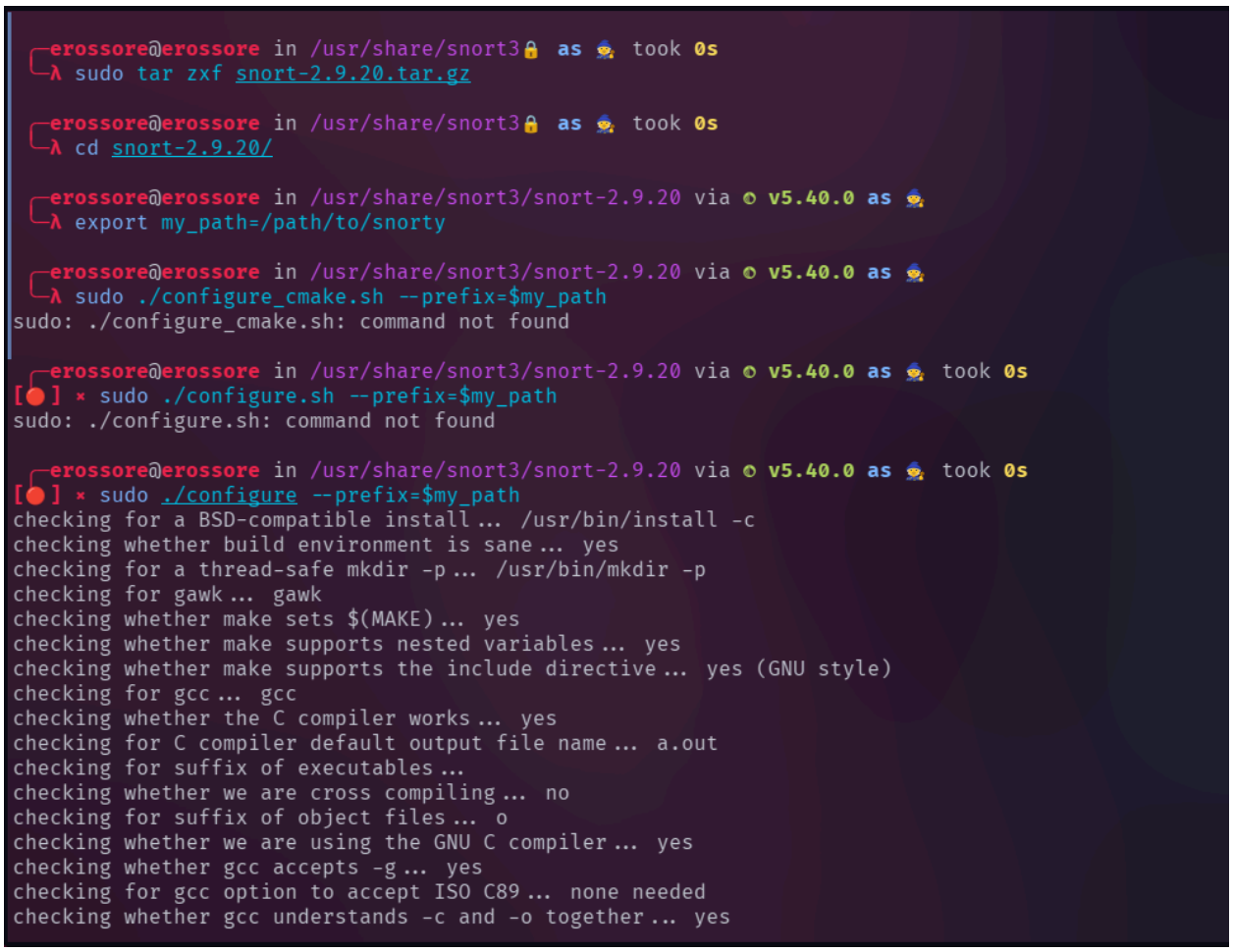
Samantha Jackson
CSCI4406
11-15-2024

Lab 9 - Snort

Observations/Issues: I'm attempting to run Snort on Garuda Linux, because I just moved to this OS. Being that this is an Arch-Based system it uses pacman as a packet manager, so apt-get is not available for these distributions. I obtained a tarball of snort from their official website and attempted to configure it in /usr/share/snort3/snort-2.9.20. Had to download the dependencies libpcap and libdnet.



```
  ERROR!  dnet header not found, go get it from
  http://code.google.com/p/libdnet/ or use the --with-dnet-*
  options, if you have it installed in an unusual place
```

```
erossore@erossore in /usr/share/snort3/snort-2.9.20 via ⬢ v5.40.0 as 🧙 took 0s
λ sudo pacman -S libdnet
resolving dependencies...
looking for conflicting packages...

Package (1)    New Version  Net Change  Download Size

extra/libdnet  1.18.0-1       0.16 MiB       0.06 MiB

Total Download Size:   0.06 MiB
Total Installed Size:  0.16 MiB

:: Proceed with installation? [Y/n] y
```

After attempting to download it again snort wants the daq_static library so that tar file had to be configured as well. After that the configuration of Snort was finally successful. However, making the file was not successful.

```
  ERROR!  daq_static library not found, go get it from
  http://www.snort.org/.
```

```
erossore@erossore in /usr/share/snort3🔒 as 🧙 took 0s
λ cd daq-2.0.7/

erossore@erossore in /usr/share/snort3/daq-2.0.7🔒 as 🧙
λ sudo ./configure
```

This is a view of the snort.conf file. Many of the files referred to in the PDF documentation do not exist in my version of snort, likely because I couldn't complete a cmake command. Snort's documentation didn't provide me any further direction and troubleshooting hasn't worked so far. There were several recommendations saying that the libntirpc-dev package should be installed and a few of the files modified however I cannot find these packages in Garuda and I cannot find them on the Arch Linux website or a github. I'm at a loss.

```
opts.o sf_snort_plugin_hdropts.c
sp_rpc_check.c:32:10: fatal error: rpc/rpc.h: No such file or directory
   32 | #include <rpc/rpc.h>
      |          ^~~~~~~~~~~
compilation terminated.
make[3]: *** [Makefile:489: sp_rpc_check.o] Error 1
make[3]: *** Waiting for unfinished jobs....
```

```
 GNU nano 8.2                                    etc/snort.conf
#--------------------------------------------------
#   VRT Rule Packages Snort.conf
#
#   For more information visit us at:
#     http://www.snort.org                   Snort Website
#     http://vrt-blog.snort.org/    Sourcefire VRT Blog
#
#     Mailing list Contact:      snort-users@lists.snort.org
#     False Positive reports:    fp@sourcefire.com
#     Snort bugs:                bugs@snort.org
#
#     Compatible with Snort Versions:
#     VERSIONS : 2.9.20
#
#     Snort build options:
#     OPTIONS : --enable-gre --enable-mpls --enable-targetbased --enable-ppm --enable-perfprofiling --ena
#
#     Additional information:
#     This configuration file enables active response, to run snort in
#     test mode -T you are required to supply an interface -i <interface>
#     or test mode will fail to fully validate the configuration and
#     exit with a FATAL error
#--------------------------------------------------

###################################################
# This file contains a sample snort configuration.
# You should take the following steps to create your own custom configuration:
#
#  1) Set the network variables.
#  2) Configure the decoder
#  3) Configure the base detection engine
#  4) Configure dynamic loaded libraries
#  5) Configure preprocessors
#  6) Configure output plugins
#  7) Customize your rule set
#  8) Customize preprocessor and decoder rule set
#  9) Customize shared object rule set
###################################################

###################################################
# Step #1: Set the network variables.  For more information, see README.variables
###################################################

# Setup the network addresses you are protecting
ipvar HOME_NET any

# Set up the external network addresses. Leave as "any" in most situations
ipvar EXTERNAL_NET any

# List of DNS servers on your network
ipvar DNS_SERVERS $HOME_NET

# List of SMTP servers on your network
ipvar SMTP_SERVERS $HOME_NET
```

```
┌─erossore@erossore in /usr/share/snort3/snort-2.9.20 via C v14.2.1-gcc via ⬢ v5.40.0 as 🧙 took 0s
└[●] × sudo snort -T -c /etc/snort/snort.conf
sudo: snort: command not found
```