STEP 0 - INSTALL PRE-REQS

sudo apt-get install -y build-essential autotools-dev libdumbnet-dev libluajit-5.1-dev libpcap-dev zlib1g-dev pkg-config libhwloc-dev cmake liblzma-dev openssl libssl-dev cpputest libsqlite3-dev libtool uuid-dev git autoconf bison flex libcmocka-dev libnetfilter-queue-dev libunwind-dev libmnl-dev ethtool libjemalloc-dev

STEP 1 – Install pcre

cd ~/snort

wget <https://sourceforge.net/projects/pcre/files/pcre/8.45/pcre-8.45.tar.gz>

tar -xzvf pcre-8.45.tar.gz

cd pcre-8.45

./configure

make

sudo make install

sudo ldconfig

STEP 3 – Install gperftools

cd ~/snort

wget <https://github.com/gperftools/gperftools/releases/download/gperftools-2.9.1/gperftools-2.9.1.tar.gz>

tar xzvf gperftools-2.9.1.tar.gz

cd gperftools-2.9.1

./configure

make

sudo make install

sudo ldconfig

STEP 4 – Install Ragel

cd ~/snort

wget <http://www.colm.net/files/ragel/ragel-6.10.tar.gz>

tar -xzvf ragel-6.10.tar.gz

cd ragel-6.10

./configure

make

sudo make install

sudo ldconfig

STEP 5 - download (but don’t install) the Boost C++ Libraries:

cd ~/snort

wget [https://downloads.sourceforge.net/project/boost/boost/1.77.0/boost\_1\_77\_0.tar.gz -O boost\_1\_77\_0.tar.gz](https://downloads.sourceforge.net/project/boost/boost/1.77.0/boost_1_77_0.tar.gz%20-O%20boost_1_77_0.tar.gz)

tar -xvzf boost\_1\_77\_0.tar.gz

STEP 6 – Install Hyperscan

cd ~/snort

wget <https://github.com/intel/hyperscan/archive/refs/tags/v5.4.2.tar.gz>

tar -xvzf v5.4.2.tar.gz

mkdir ~/snort/hyperscan-5.4.2-build

cd hyperscan-5.4.2-build/

cmake -DCMAKE\_INSTALL\_PREFIX=/usr/local -DBOOST\_ROOT=~/snort/boost\_1\_77\_0/ ../hyperscan-5.4.2

make

sudo make install

sudo ldconfig

STEP 7 – Install flatbuffers , LibML v2.0.0 , Libpcre2

cd ~/snort

wget https://github.com/google/flatbuffers/archive/refs/tags/v2.0.6.tar.gz -O flatbuffers-v2.0.6.tar.gz

tar -xzvf flatbuffers-v2.0.6.tar.gz

mv flatbuffers-2.0.6 flatbuffers-2.0.6

mkdir flatbuffers-build

cd flatbuffers-build

{

in new terminal

cd ~/snort/flatbuffers-2.0.6/include/flatbuffers

sed -i 's/const size\_type count\_/size\_type count\_/' stl\_emulation.h

done close new terminal }

cmake ../flatbuffers-2.0.6

make

sudo make install

sudo ldconfig

cd ~/snort

git clone https://github.com/snort3/libml.git

cd libml

sudo apt install -y cmake g++ libsqlite3-dev libpcap-dev libpcre3-dev zlib1g-dev

mkdir build

cd build

cmake ..

make

sudo make install

sudo ldconfig

cd ~/snort

wget https://github.com/PhilipHazel/pcre2/releases/download/pcre2-10.42/pcre2-10.42.tar.gz

tar -xzvf pcre2-10.42.tar.gz

cd pcre2-10.42

./configure

make

sudo make install

sudo ldconfig

STEP 8 - Install Data Acquistion (DAQ) from Snort

cd ~/snort

wget [https://github.com/snort3/libdaq/archive/refs/tags/v3.0.13.tar.gz -O libdaq-3.0.13.tar.gz](https://github.com/snort3/libdaq/archive/refs/tags/v3.0.13.tar.gz%20-O%20libdaq-3.0.13.tar.gz)

tar -xzvf libdaq-3.0.13.tar.gz

cd libdaq-3.0.13

./bootstrap

./configure

make

sudo make install

sudo ldconfig

STEP 9 - Update shared libraries

cd ~/snort

sudo ldconfig

STEP 10 – Download latest version of Snort 3

cd ~/snort

wget https://github.com/snort3/snort3/archive/refs/tags/3.1.74.0.tar.gz -O snort3-3.1.74.0.tar.gz

tar -xzvf snort3-3.1.74.0.tar.gz

cd snort3-3.1.74.0

./configure\_cmake.sh --prefix=/usr/local --enable-jemalloc

cd build

make

sudo make install

sudo ldconfig

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