## **Guide on Installing Snort on Kali**

## Why Snort?

"Snort is the foremost Open Source Intrusion Prevention System (IPS) in the world. Snort IPS uses a series of rules that help define malicious network activity and uses those rules to find packets that match against them and generates alerts for users." https://www.snort.org/

1.Try first to install snort by typing sudo apt install snort command in your terminal:
\$ sudo apt install snort
If you run an older Kali version this may works. However, on newer versions of Kali, it won't work. because snort is not included in the Kali repositories, However, snort is included in Ubuntu repositories.
The solution to installing snort on Kali is to use the Ubuntu repositories.
Repositories are the servers that hold software for particular distribution of Linux (Kali, Ubuntu). The repositories your system will search for software are stored in <i>sources.list</i> configuration file.
To view the default repos on your Kali system:
L—\$ nl /etc/apt/sources.list
2.Try to add the following Debian repo to the list of Kali repositories by editing the sources.list file.
Open sources.list with your editor (eg mousepad)

\$ sudo mousepad /etc/apt/sources.list

Then append the following new line (after the default Kali repos):

deb http://ftp.debian.org/debian stable maincontrib non-free

Save and close mousepad.

Now try again to install snort by typing *sudo apt install snort* command in your terminal:

\$ sudo apt install snort
Note: This may work on some newer Kali since both Kali and Ubuntu are Debian-based Linux distributions.
To check what version of snort is installed:  \$\sigma\$ snortversion
Note: If you installed snort, you may want to go back to the sources.listfile and comment (add #) in front of the added line.
3. If 1 and 2 did not work, you will need to use Ubuntu repositories.
Step1: Make a backup copy of sources.list file:
└─\$ sudo mv /etc/apt/sources.list /etc/apt/sources.list.bak
Note: .bak extension allows to retrieve the original sources.list after completing snort installation
Step 2: Remove updates:
└─\$ find /var/lib/apt/lists -type f -exec rm {} \;
Step 3: Open sources.list file with your editor (eg mousepad)
\$ sudo mousepad /etc/apt/sources.list
Then paste following Ubuntu repos:
deb http://archive.ubuntu.com/ubuntu/ focal main restricted universe multiverse

deb http://archive.ubuntu.com/ubuntu/ focal main restricted universe multiverse<br/>deb-src http://archive.ubuntu.com/ubuntu/ focal main restricted universe multiverse<br/>
multiverse<br/>

deb http://archive.ubuntu.com/ubuntu/ focal-updates main restricted universe multiverse<br/>
http://archive.ubuntu.com/ubuntu/ focal-updates main restricted universe

deb-src http://archive.ubuntu.com/ubuntu/ focal-updates main restricted universe multiverse<br/>

deb http://archive.ubuntu.com/ubuntu/ focal-security main restricted universe multiverse<br/>
http://archive.ubuntu.com/ubuntu/ focal-security main restricted universe

deb-src http://archive.ubuntu.com/ubuntu/ focal-security main restricted universe multiverse<br/>

deb http://archive.ubuntu.com/ubuntu/ focal-backports main restricted universe multiverse<br/>
http://archive.ubuntu.com/ubuntu/ focal-backports main restricted universe

deb-src http://archive.ubuntu.com/ubuntu/ focal-backports main restricted universe multiverse<br/>

deb http://archive.canonical.com/ubuntu focal partner<br/>deb-src http://archive.canonical.com/ubuntu focal partner<br/>br>

└─\$ Is

archive.canonical.com ubuntu dists focal InRelease

Save and close the mousepad. Step 4. Add the specified public keys \$\to\$\sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 3B4FE6ACC0B21F32 \$\sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 871920D1991BC93C Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see aptkey(8)). Step 5: └─\$ sudo apt update Step 6: Try now installing snort: —\$ sudo apt install snort -y Note: Now it will work - see: Reading package lists... Done Building dependency tree... Done Reading state information... Done The following additional packages will be installed: libdaq2 libestr0 libfastjson4 oinkmaster rsyslog snort-common snort-common-libraries snort-rules-default Note: If you check the snort version it is not the latest one, but there you have it: \$\subsets \subsets \subsets \subsets \subsets \text{snort --version} \text{ } \] Step 7: You will need to restore default Kali repositories. Follow the steps below: Go to folder: └─\$ cd /var/lib/apt/lists

archive.ubuntu.com_ubuntu_dists_focal-backports_Contents-amd64.lz4 archive.ubuntu.com_ubuntu_dists_focal-backports_InRelease archive.ubuntu.com_ubuntu_dists_focal-backports_main_binary-amd64_Packages
You will need to remove all Ubuntu files —(kaliadmin⊛kali)-[/var/lib/apt/lists]  —\$ rm archive*
The auxfiles and partial directory remains. Next we want now to bring the Kali sources.list back file:
└─\$ sudo mv /etc/apt/sources.list.bak /etc/apt/sources.list
Go home: └─\$ cd ~
Then apt update:  └─\$ sudo apt update
Note: You can now try to open sources.list file to see that your default Kali repositories are back:
└─\$ sudo mousepad /etc/apt/sources.list
4. Alternative Colutions Install Confests

## 4. Alternative Solution: Install Suricata

:"Suricata is a high performance, open source network analysis and threat detection software used by most private and public organizations, and embedded by major vendors to protect their assets." https://suricata.io/

└─\$ sudo apt install suricata