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Snort tutorial

Step 1: Installation

Open your terminal.

Update the package list to ensure you have the latest information on available packages:

```
sudo apt update
```

Install Snort using the package manager:

```
sudo apt install snort
```

You might be prompted to confirm the installation. Type "Y" and press Enter.

1. During the installation, you may be asked to configure your network interface. Choose the interface that connects to your network
2. After installation, Snort should be up and running.

Step 2: Configure Snort

1. Create a configuration file for Snort. You can use the default configuration as a starting point:

```
sudo cp /etc/snort/snort.conf /etc/snort/snort.local.conf
```

Edit the configuration file:

```
sudo nano /etc/snort/snort.local.conf
```

Customize your Snort rules, network settings, and include any additional rulesets as needed. Save the changes.

Snort uses rules to detect suspicious network activity. You can find and download community rules from the Snort website:

<https://www.snort.org/community>.

You can also enable/disable specific rules in your configuration file.

Step 4: Start Snort

1. Start Snort in Network Intrusion Detection mode:

```
sudo snort -A console -q -u snort -g snort -c /etc/snort/snort.local.conf -i <your_network_interface>
```

Replace **<your_network_interface>** with the appropriate network interface you configured earlier.

Snort will start monitoring network traffic and generating alerts.

Step 5: Test and Monitor

1. Generate some network traffic or attempt known attacks to test Snort's functionality.
2. Snort will generate alerts for any suspicious activity based on the defined rules.

Step 6: View Alerts

To view Snort alerts, you can check the `/var/log/snort/alert` file. You can also use Snorby, BASE, or other web interfaces to manage Snort alerts.

Step 7: Customization and Ongoing Management

Customize your rules and configurations based on your network's specific needs and monitor Snort regularly for security events.

This is a basic guide to get you started with Snort. For a production environment, you should consider additional security measures and consult Snort documentation and best practices.

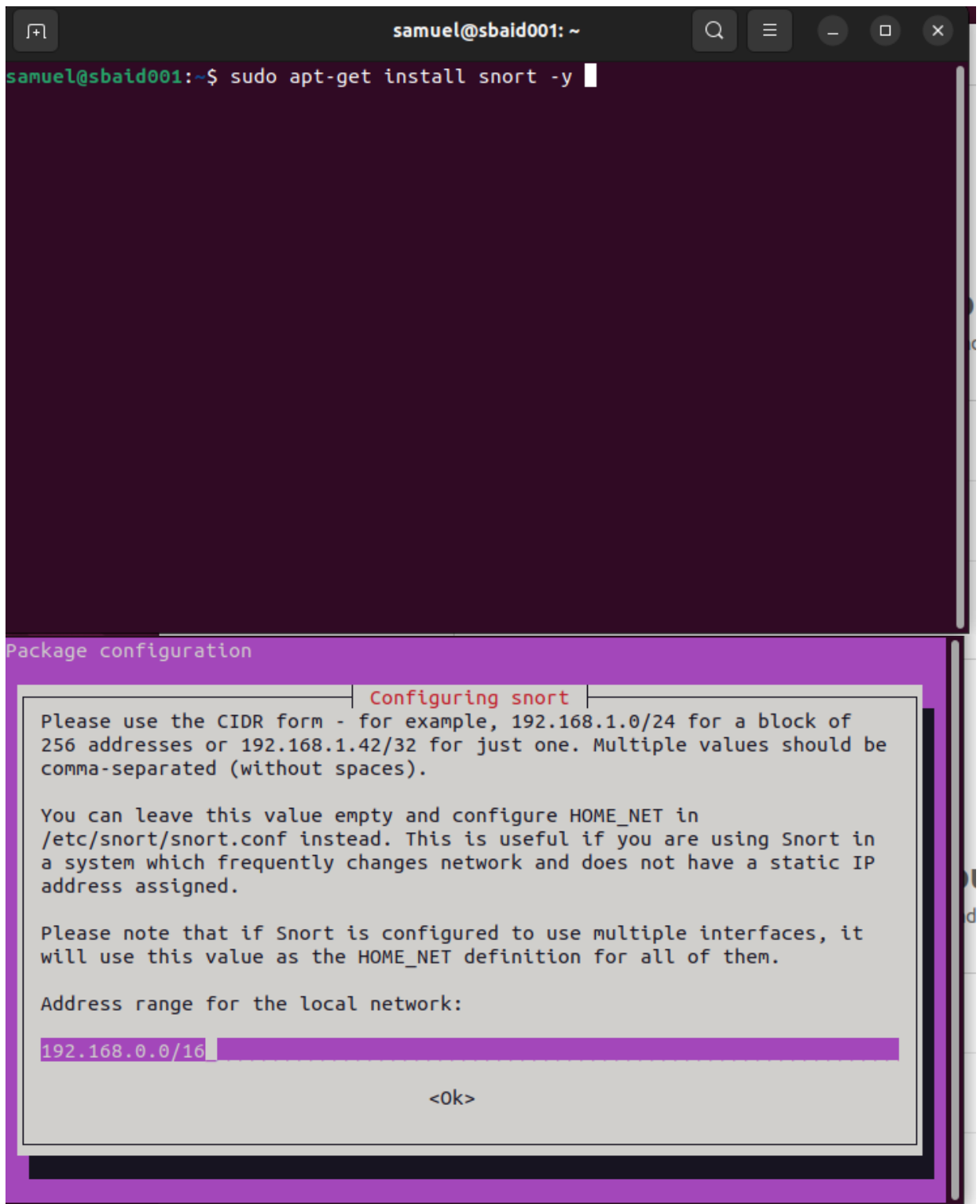
1. Ensure you have a Linux-based system (e.g., Ubuntu) with administrative privileges.
2. Install Snort using the package manager.
3. Create and customize a Snort configuration file.
4. Download community rules or create custom rules for specific network monitoring.
5. Start Snort in Network Intrusion Detection mode, monitoring network traffic.
- 6.

Test Snort by generating network activity and monitor alerts.

7. View alerts in the `/var/log/snort/alert` file and consider using web interfaces for management.

8. Customize and manage Snort's rules and configurations as needed for your network's security.

Include screenshots of key steps for reference. This guide provides a starting point; consult Snort documentation and best practices for production environments.



```
samuel@sbaid001:~$ sudo apt-get install snort -y
```

Package configuration

Configuring snort

Please use the CIDR form - for example, 192.168.1.0/24 for a block of 256 addresses or 192.168.1.42/32 for just one. Multiple values should be comma-separated (without spaces).

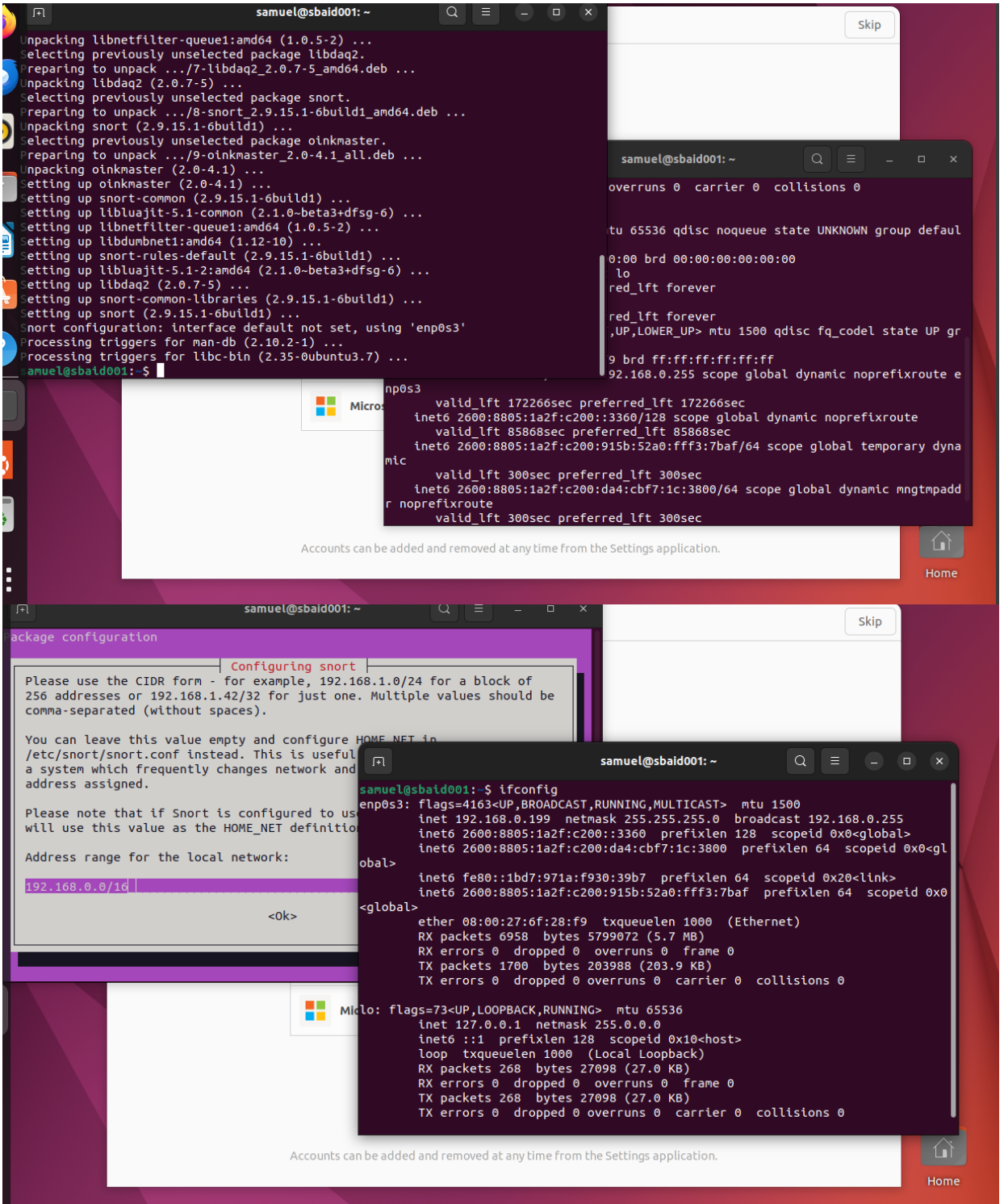
You can leave this value empty and configure HOME_NET in /etc/snort/snort.conf instead. This is useful if you are using Snort in a system which frequently changes network and does not have a static IP address assigned.

Please note that if Snort is configured to use multiple interfaces, it will use this value as the HOME_NET definition for all of them.

Address range for the local network:

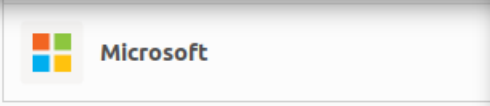
192.168.0.0/16

<Ok>



```
-----
# 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 : 2.9.15.1
#
# Snort build options:
# OPTIONS : --enable-gre --enable-mpls --enable-targetbased --enable-ppm --e
# able-perfprofiling --enable-zlib --enable-active-response --enable-normalizer -
# enable-reload --enable-react --enable-flexresp3
#
# 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
# /etc/snort/snort.conf" 756L, 29775B                               6,1           Top
```

```
-----
# $Id: local.rules,v 1.11 2004/07/23 20:15:44 bmc Exp $
#
# LOCAL RULES
#
# This file intentionally does not come with signatures.  Put your local
# additions here.
#
# /etc/snort/rules/local.rules" 6L, 199B                               1,1           All
```



```
2: enp0s3: <B
te UP group d
link/ethe
inet 192.
```

```

samuel@sbaidd001: ~
# $Id: local.rules,v 1.11 2004/07/23 20:15:44 bmc Exp $
# -----
# LOCAL RULES
# -----
# This file intentionally does not come with signatures.  Put your local
# additions here
alert icmp any any -> $HOME_NET any (msg:"Ping Detected!"; sid:100001; rev:1;)

```

```

/etc/snort/rules/local.rules" 8L, 280B                               8,0-1           All
ERROR: /etc/snort/snort.local.conf(0) Unable to open rules file "/etc/snort/snort.local.conf": No such file or directory.
Error, Quitting..
samuel@sbaidd001:~$ sudo vim /etc/snort/rules/local.rules
samuel@sbaidd001:~$ sudo vim/etc/snort/rules/local.rules
sudo: vim/etc/snort/rules/local.rules: command not found
samuel@sbaidd001:~$ sudo vim /etc/snort/rules/local.rules
samuel@sbaidd001:~$ sudo vim /etc/snort/rules/local.rules
samuel@sbaidd001:~$ sudo snort -A console -q -u snort -g snort -c /etc/snort/snort.local.conf -i enp0s3
ERROR: /etc/snort/snort.local.conf(0) Unable to open rules file "/etc/snort/snort.local.conf": No such file or directory.
Error, Quitting..
samuel@sbaidd001:~$ ls /etc/snort/
activation.conf  file_magic.conf  rules              threshold.conf
classification.conf  gen-msg.map      snort.conf         unicode.map
community-sid-msg.map  reference.config  snort.debian.conf
samuel@sbaidd001:~$ e/etc/snort/snort.conf
/etc/snort/snort.conf: No such file or directory
samuel@sbaidd001:~$ sudo cp /etc/snort/snort.conf /etc/snort/snort.local.conf
samuel@sbaidd001:~$ sudo snort -A console -q -u snort -g snort -c /etc/snort/snort.local.conf -i enp0s3

11/24-14:14:16.260440  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {UDP} 0.0.0.0:68
5 255.255.255:67
11/24-14:14:19.322373  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {UDP} 0.0.0.0:68
5 255.255.255:67
11/24-14:14:37.377873  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {UDP} 0.0.0.0:68
5 255.255.255:67
11/24-14:14:37.522114  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {UDP} 0.0.0.0:68
5 255.255.255:67
11/24-14:14:38.681903  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {UDP} 0.0.0.0:68
5 255.255.255:67
11/24-14:29:16.729254  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {IPV6-ICMP} :: -
ff02::1:ffd7:fsb7
11/24-14:29:16.729699  [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] {IPV6-ICMP} :: -
::1:ffc:3800

```