

# 2. - Oracle SBC - Virtual Machines for testing

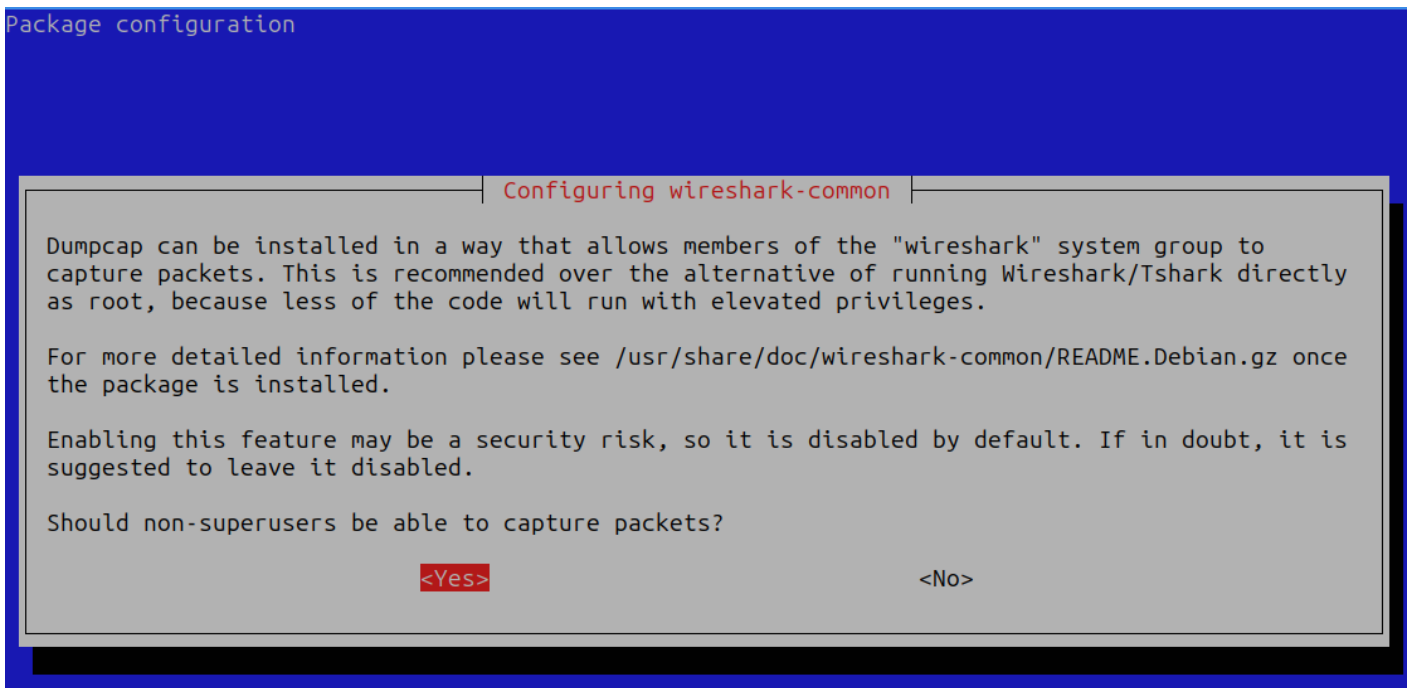
We need to deploy 2 virtual machines in order to test communication between phones via Oracle SBC

we will not go over the deployment, feel free to choose any distribution, for this lab we are using Ubuntu. (feel free to use windows if needed) visit <https://www.linphone.org/> to download.

first we need to update our distro and install necessary tools

```
sudo apt-get update
```

```
sudo apt-get install wireshark (make sure you allow non-superusers to capture packets)
```



next we will add linphone repository and install linphone

```
sudo add-apt-repository ppa:linphone/release
```

```
sudo apt-get update
```

## ***sudo apt-get install linphone -y***

Last step is to manually assign IP address to our interfaces, example below is for VLAN 1 we are using

enp1s0 - 192.168.10.21

enp3s0 - 192.168.11.101

```
csr@vm1:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen
1000
    link/ether 52:54:00:1b:aa:1f brd ff:ff:ff:ff:ff:ff
    inet 192.168.10.21/24 brd 192.168.10.255 scope global noprefixroute enp1s0
        valid_lft forever preferred_lft forever
    inet6 fe80::9fdc:3b2e:a4a9:29af/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: enp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen
1000
    link/ether 52:54:00:c7:c9:c5 brd ff:ff:ff:ff:ff:ff
    inet 192.168.10.30/24 brd 192.168.10.255 scope global dynamic noprefixroute enp2s0
        valid_lft 6425sec preferred_lft 6425sec
    inet6 fe80::a096:1c9d:9db0:f414/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
4: enp3s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen
1000
    link/ether 52:54:00:0e:0c:17 brd ff:ff:ff:ff:ff:ff
    inet 192.168.11.101/24 brd 192.168.11.255 scope global noprefixroute enp3s0
        valid_lft forever preferred_lft forever
    inet6 fe80::d0ef:196b:c26b:f50d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

ping all gateways to validate connectivity.

```
csr@vm1:~$ ping 192.168.10.1
PING 192.168.10.1 (192.168.10.1) 56(84) bytes of data.
64 bytes from 192.168.10.1: icmp_seq=1 ttl=64 time=0.249 ms
64 bytes from 192.168.10.1: icmp_seq=2 ttl=64 time=0.203 ms
^C
--- 192.168.10.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1004ms
rtt min/avg/max/mdev = 0.203/0.226/0.249/0.023 ms
csr@vm1:~$ ping 192.168.11.1
PING 192.168.11.1 (192.168.11.1) 56(84) bytes of data.
64 bytes from 192.168.11.1: icmp_seq=1 ttl=64 time=0.436 ms
64 bytes from 192.168.11.1: icmp_seq=2 ttl=64 time=0.244 ms
^C
--- 192.168.11.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1021ms
rtt min/avg/max/mdev = 0.244/0.340/0.436/0.096 ms
csr@vm1:~$ ping 192.168.12.1
PING 192.168.12.1 (192.168.12.1) 56(84) bytes of data.
64 bytes from 192.168.12.1: icmp_seq=1 ttl=64 time=0.271 ms
64 bytes from 192.168.12.1: icmp_seq=2 ttl=64 time=0.268 ms
^C
--- 192.168.12.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1023ms
rtt min/avg/max/mdev = 0.268/0.269/0.271/0.001 ms
```

---

Revision #1

Created 27 April 2023 04:35:09 by Cesar Gzz

Updated 27 April 2023 04:46:57 by Cesar Gzz