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AIM: Configuration of VLAN in Cisco switch

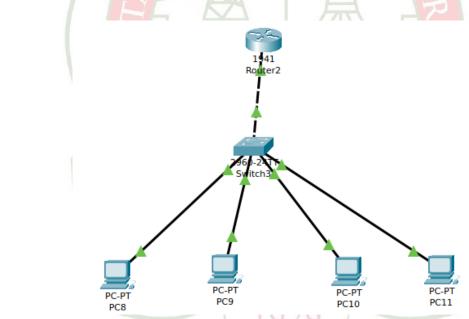
DESCRIPTION:

VLAN (Virtual Local Area Network) is a way to logically divide a physical network into separate, isolated segments. This segmentation helps improve network efficiency, security, and management by grouping devices based on criteria like function or department, even if they share the same physical infrastructure. VLANs allow for better control of broadcast traffic, enhanced security, and increased flexibility in network design.

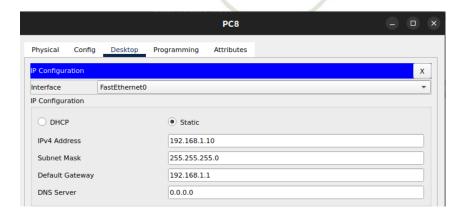
VLAN in Cisco switch:

- Open packet tracker.
- At the bottom we can find many options such as network devices, end device, components, connections etc.
- Select end devices and then choose 4 PCs, a switch-PT and a router- 1941.
- Connect all the devices as shown in the below figure, using connecting wires.
- Change the configuration of the devices accordingly.

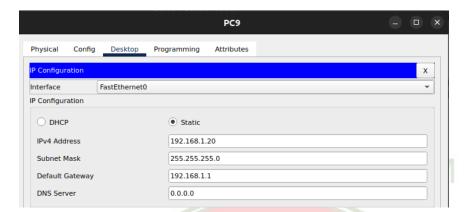
Configuration of VLAN:



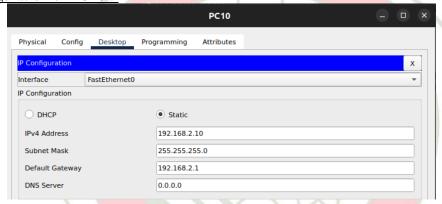
Configuration of PC8:



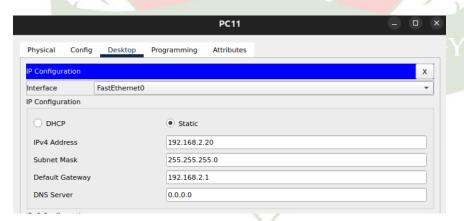
Configuration of PC9:



Configuration of PC10:



Configuration of PC11:

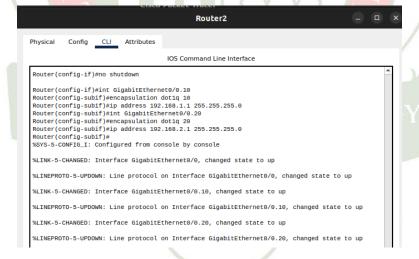


Roll No: 160121733091 Exp. No: Date:

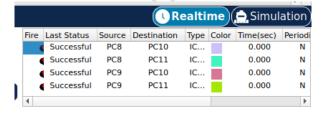
Configuration of switch:



Configuration of Router:



RESULT:



CONCLUSION:

We can see that the packet is successfully transmitted from PC8 to PC9. Thus the configurations and connections are correct.

Roll No: 160121733091	Exp. No:	Date:
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<u>AIM:</u> Develop different local area networks using GNS3. Connect two or more Local area networks. Explore various sub-netting options.

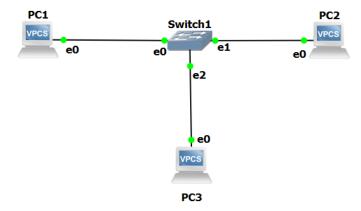
DESCRIPTION:

GNS3 stands for Graphical Network Simulator-3 which is an open source network software emulator that allows the combination of virtual and real networks, used to simulate complex network designs. It uses Dynamips emulation software to simulate Cisco IOS.

The resources utilized are 3 PCs, 1 switch.

Steps to create GNS3 topology with 3 PC's and 1 Switch:

- 1) Click on **End devices** in the Devices Toolbar, drag and drop 3 instances of **VPCS** to the GNS3 Workspace
- 2) Click on Switches in the Devices Toolbar. Drag and drop the built-in ethernet switch
- 3) Click the **Add a Link** button, and add links from each PC to switch.
- 4) Click on the **Interface labels** button on the GNS3 Toolbar, which shows interfaces connected between devices.
- 5) Click the Green "Play" button on the GNS3 Toolbar to power on all devices in the topology.



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Roll No:....160121733091 Date:.... Exp. No:.... 6) Click the Console connect to all devices button on the GNS3 Toolbar to open a connection to every device in the topology. 7) Configure PC1 PC1 - PuTTY X PC1> ip 192.168.1.1 255.255.255.0 Checking for duplicate address... PC1: 192.168.1.1 255.255.255.0 8)Configure PC-2 PC2 - PuTTY X PC2> ip 192.168.1.2 255.255.255.0 Checking for duplicate address... PC1 : 192.168.1.2 255.255.255.0 9)Configure PC3 PC3 - PuTTY X PC3> ip 192.168.1.3 255.255.255.0 Checking for duplicate address... PC1 : 192.168.1.3 255.255.255.0 10) Check whether PC1 can ping with PC2 PC1> ping 192.168.1.2 84 bytes from 192.168.1.2 icmp seq=1 ttl=64 time=1.584 ms 84 bytes from 192.168.1.2 icmp seq=2 ttl=64 time=1.044 ms 84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=1.599 ms 84 bytes from 192.168.1.2 icmp seq=4 ttl=64 time=0.965 ms 84 bytes from 192.168.1.2 icmp seq=5 ttl=64 time=1.513 ms PC1> 11) Similarly, check with other PC's **RESULT:** After the configuration and connection of all devices, the ping is successful

between all the PC's

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Signature of the Faculty.....

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AIM: Configure Static routing using GNS3 tool.

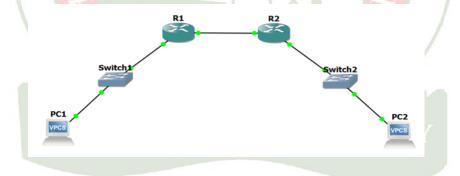
ALGORITHM:

- 1.Start
- 2. Setup the topology and initialise devices.
- 3. Configure devices and verify connectivity.
- 3. Display device information
- 4.End

DESCRIPTION AND EXECUTION:

The resources utilized are 2 PCs, 2 switches and 2 routers.

Arrange the resources in the topology format given below and begin by configuring the PC's with IP addresses followed by configuration of the routers.



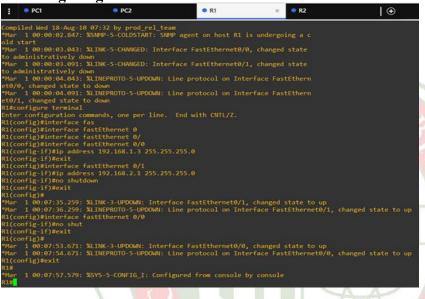
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Configuring PC's:





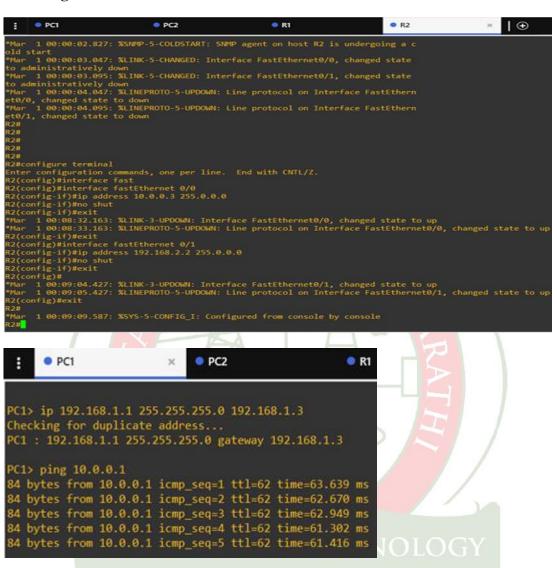
Configuring Router's:



```
R1(config)#interface fastEthernet 0/1
R1(config-if)#ip address 192.168.2.1 255.255.255.0
R1(config-if)#ip address 192.168.2.1 255.255.255.0
R1(config-if)#exit
R1(config)#
"Mar 1 00:07:35.259: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state of the config of th
```

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Checking connection:



RESULT: After the configuration and connection of all devices, the ping is successful from PC1 to PC2



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AIM: Basic OSPF configuration using GNS3 tool.

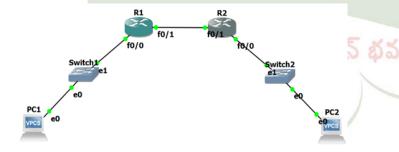
ALGORITHM:

- 1.Start
- 2. Setup the topology and initialise devices.
- 3. Configure devices and verify connectivity.
- 3. Display device information
- 4.End

DESCRIPTION AND EXECUTION:

Open Shortest Path First (OSPF) is a link-state routing protocol that is used to find the best path between the source and the destination router using its own Shortest Path First). OSPF is developed by Internet Engineering Task Force (IETF) as one of the Interior Gateway Protocol (IGP), i.e, the protocol which aims at moving the packet within a large autonomous system or routing domain. It is a network layer protocol which works on protocol number 89 and uses AD value 110. OSPF uses multicast address 224.0.0.5 for normal communication and 224.0.0.6 for update to designated router(DR)/Backup Designated Router (BDR).

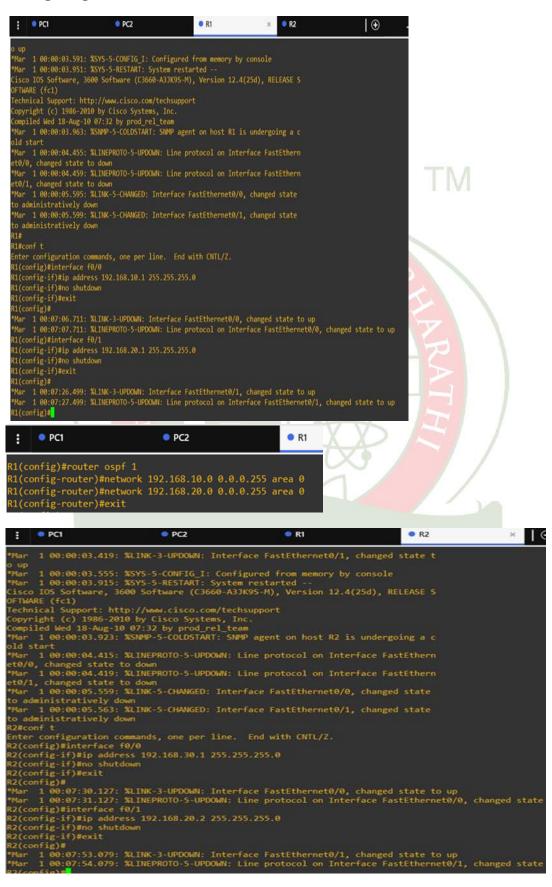
The resources utilized are 4 PCs, 1 switch and 1 router. Arrange the resources in the topology format given below and begin by configuring the PC's with IP addresses followed by configuration of the switch and router.



Configuring PC's:

```
PC2 ip 192.168.30.2 255.255.0 192.168.30.1 Checking for duplicate address...
PC1: 192.168.10.2 255.255.255.0 192.168.10.1 Checking for duplicate address...
PC1: 192.168.10.2 255.255.255.0 gateway 192.168.10.1 PC2
```

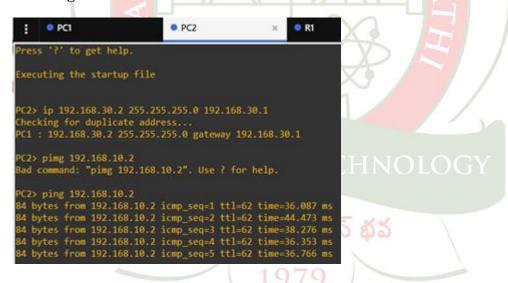
Configuring Router's



Roll No: 160121733091 Exp. No: Date:



Checking connection:



RESULT: After the configuration and connection of all devices, the ping is successful from PC1 to PC2

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AIM: Basic EIGRP Configuration using GNS3 tool.

ALGORITHM:

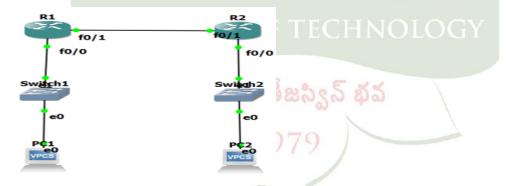
- 1.Start
- 2. Setup the topology and initialise devices.
- 3. Configure devices and verify connectivity.
- 3. Display device information
- 4.End

DESCRIPTION AND EXECUTION:

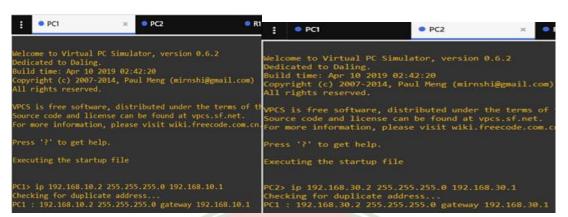
Enhanced Interior Gateway Routing Protocol (EIGRP) is a dynamic routing protocol that is used to find the best path between any two-layer 3 devices to deliver the packet. EIGRP works on network layer Protocol of OSI model and uses protocol number 88. It uses metrics to find out the best path between two layer 3 devices (router or layer 3 switches) operating EIGRP.

The resources utilized are 2 PCs, 2 switches and 2 routers.

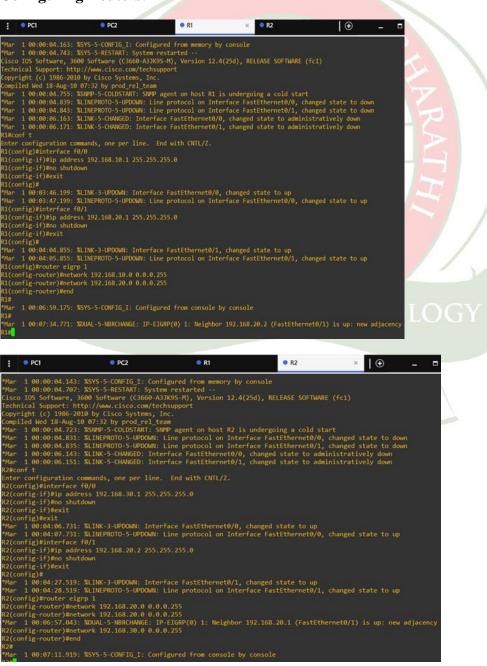
Arrange the resources in the topology format given below and begin by configuring the PC's with IP addresses followed by configuration of the switch and router.



Configuring PC's:



Configuring Routers:



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Checking connection:



RESULT: After the configuration and connection of all devices, the ping is successful between PCs

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21022 2 1011111111111111111111111111111	22.00.11.00	2

AIM: Illustrate TCPDUMP command

DESCRIPTION:

tcpdump is a packet sniffing and packet analyzing tool for a System Administrator to troubleshoot connectivity issues in Linux. It is used to capture, filter, and analyze network traffic such as TCP/IP packets going through your system. It is many times used as a security tool as well. It saves the captured information in a pcap file, these pcap files can then be opened through Wireshark or through the command tool itself.

COMMANDS:

Installing tepdump tool in Linux

For RedHat based linux OS yum install tcpdump

For Ubuntu/Debian OS apt install tcpdump

Working with tcpdump command:

 To capture the packets of current network interface sudo tcpdump
 This will capture the packets from the current interface of the network through which the system is connected to the internet.

OUTPUT:

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2. To capture packets from a specific network interface sudo tcpdump -i wlo1

This command will now capture the packets from wlo1 network interface. Output:

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode listening on ens3, link-type EN10MB (Ethernet), capture size 262144 bytes 05:52:28.931050 IP api.snapcraft.io.https > onworks-Standard-PC-i440FX-PIIX-1996.50582: Flags [F.], seq
0, ack 546792116, win 8760, length 0
05:52:28.931051 IP api.snapcraft.io.https > onworks-Standard-PC-i440FX-PIIX-1996.60882: Flags [F.], seq
0, ack 108906055, win 8760, length 0
05:52:28.931848 IP onworks-Standard-PC-i440FX-PIIX-1996.52595 > 10.0.2.3.domain: 39045+ [1au] PTR? 15.2.
0.10.in-addr.arpa. (51)
05:52:28.937091 IP 10.0.2.3.domain > onworks-Standard-PC-i440FX-PIIX-1996.52595: 39045 NXDomain 0/0/1 (5
05:52:28.937253 IP onworks-Standard-PC-i440FX-PIIX-1996.52595 > 10.0.2.3.domain: 39045+ PTR? 15.2.0.10.i
n-addr.arpa. (40)
05:52:28.942497 IP 10.0.2.3.domain > onworks-Standard-PC-i440FX-PIIX-1996.52595: 39045 NXDomain 0/0/0 (4
05:52:28.943034 IP onworks-Standard-PC-¶440FX-PIIX-1996.59248 > 10.0.2.3.domain: 13188+ [1au] PTR? 40.92
.189.91.in-addr.arpa. (54)
05:52:28.963868 IP 10.0.2.3.domain > onworks-Standard-PC-i440FX-PIIX-1996.59248: 13188 1/0/1 PTR api.sna
pcraft.io. (84)
05:52:28.964545 IP onworks-Standard-PC-i440FX-PIIX-1996.36643 > 10.0.2.3.domain: 32716+ [1au] PTR? 3.2.0
.10.in-addr.arpa. (50)
05:52:28.969811 IP 10.0.2.3.domain > onworks-Standard-PC-i440FX-PIIX-1996.36643: 32716 NXDomain 0/0/1 (5
05:52:28.969931 IP onworks-Standard-PC-1440FX-PIIX-1996.36643 > 10.0.2.3.domain: 32716+ PTR? 3.2.0.10.in
-addr.arpa. (39)
05:52:28.975127 IP 10.0.2.3.domain > onworks-Standard-PC-i440FX-PIIX-1996.36643: 32716 NXDomain 0/0/0 (3
05:52:29.338869 IP onworks-Standard-PC-i440FX-PIIX-1996.50588 > api.snapcraft.io.https: Flags [S], seq 6
32749650, win 64240, options [mss 1460,sackOK,TS val 527748808 ecr 0,nop,wscale 7], length 0
05:52:30.439288 IP api.snapcraft.io.https > onworks-Standard-PC-i440FX-PIIX-1996.60880: Flags [F.], seq
0. ack 1150855087. win 8760. length 0
```

3. To capture specific number of packets

sudo tcpdump -c 4 -i wlo1

This command will capture only 4 packets from the wlo1 interface.

OUTPUT

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ sudo tcpdump -c 4 -i ens3
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on ens3, link-type EN10MB (Ethernet), capture size 262144 bytes
05:53:58.218801 IP api.snapcraft.io.https > onworks-Standard-PC-i440FX-PIIX-1996.50590: Flags [F.], seq
0, ack 2605884239, win 8760, length 0
05:53:58.219421 IP onworks-Standard-PC-i440FX-PIIX-1996.59279 > 10.0.2.3.domain: 6954+ [1au] PTR? 15.2.0
.10.in-addr.arpa. (51)
05:53:58.224558 IP 10.0.2.3.domain > onworks-Standard-PC-i440FX-PIIX-1996.59279: 6954 NXDomain 0/0/1 (51)
05:53:58.224629 IP onworks-Standard-PC-i440FX-PIIX-1996.59279 > 10.0.2.3.domain: 6954+ PTR? 15.2.0.10.in
-addr.arpa. (40)
4 packets captured
9 packets received by filter
0 packets dropped by kernel
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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4. To print captured packets in ASCII format

sudo tcpdump -A -i wlo1

This command will now print the captured packets from wlo1 to ASCII value.

OUTPUT:

5. To display all available interfaces sudo tcpdump -D

This command will display all the interfaces that are available in the system.

OUTPUT:

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ sudo tcpdump -D
1.ens3 [Up, Running]
2.lo [Up, Running, Loopback]
3.any (Pseudo-device that captures on all interfaces) [Up, Running]
4.bluetooth-monitor (Bluetooth Linux Monitor) [none]
5.nflog (Linux netfilter log (NFLOG) interface) [none]
6.nfqueue (Linux netfilter queue (NFQUEUE) interface) [none]
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$
```

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6. To display packets in HEX and ASCII values sudo tcpdump -XX -i wlo1

This command will now print the packets captured from the wlo1 interface in the HEX and ASCII values.

OUTPUT:

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo tcpdump -XX -i ens3
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on ens3, link-type EN10MB (Ethernet), capture size 262144 bytes
86:06:08.998046 IP onworks-Standard-PC-i440FX-PIIX-1996.60890 > api.snapcraft.io.https: Flags [S], seq 5
18894480, win 64240, options [mss 1460,sackOK,TS val 924234676 ecr 0,nop,wscale 7], length 0 0x0000: 5255 0a00 0202 5254 0012 3456 0800 4500 RU...RT..4V..E. 0x0010: 003c dba1 4000 4006 9b3b 0a00 020f 5bbd .<..@.@..;...[
                   faf0 c40d 0000 0204 05b4 0402 080a 3716
         0x0030:
                   b3b4 0000 0000 0103 0307
         0x0040:
06:06:08.998122 IP onworks-Standard-PC-i440FX-PIIX-1996.60888 > api.snapcraft.io.https: Flags [S], seq 2
b3b4 0000 0000 0103 0307
         0x0040:
06:06:08.998784 IP onworks-Standard-PC-i440FX-PIIX-1996.56572 > 10.0.2.3.domain: 17108+ [1au] PTR? 19.92
0000 0000 0001 0231 3902 3932 0331 3839
                                                                    .....19.92.189
.91.th-addr.arpa
         0x0030:
                   0239 3107 696e 2d61 6464 7204 6172 7061
         0x0040:
         0x0050:
                   0000 0000 0100 0029 0200 0000 0000 0000
06:06:09.329377
                                                                   i440FX-PIIX-1996.56572: 17108 1/0/1 PTR api.sna
                  IP 10.0.2.3.domain > onworks-Standard-PC-
pcraft.io. (84)
0x0000:
                    5254 0012 3456 5255 0a00 0202 0800 4500
                                                                    RT..4VRU.....E.
                                                                    .pW...@......
...5...\..B.....
         0x0010:
                   0070 57e2 0000 4011 0a8a 0a00 0203 0a00
                   020f 0035 dcfc 005c 96e1 42d4 8180 0001
         0x0020:
         0x0030:
                   6001 0000 0001 0231 3902 3932 6331 3839
                                                                    ......19.92.189
                    0239 3107 696e 2d61 6464 7204 6172
                                                             7061
                                                                    .91.in-addr.arpa
```

7. To save captured packets into a file sudo tcpdump -w captured_packets.pcap -i wlo1

This command will now output all the captures packets in a file named as captured_packets.pcap.

OUTPUT

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:—$ sudo tcpdump -w captured_packets.pcap -i ens3
[sudo] password for onworks:
tcpdump: listening on ens3, link-type EN10MB (Ethernet), capture size 262144 bytes
^C6945 packets captured
6945 packets received by filter
0 packets dropped by kernel
onworks@onworks-Standard-PC-1440FX-PIIX-1996:—$
```

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8. To read captured packets from a file sudo tcpdump -r captured_packets.pcap

This command will now read the captured packets from the captured_packets.pcap file.

OUTPUT

```
06:09:49.639495 IP onworks-Standard-PC-i440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http:
Flags [.], ack 366723, win 65535, length 0
^C06:09:49.639491 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-i440FX-PIIX-1996.43466
: Flags [P.], seq 366723:368183, ack 487, win 8760, length 1460: HTTP
 onworks@onworks-Standard-PC-1440FX-PIIX-1996:~$ sudo tcpdump -r captured packets.pcap
06:09:50.673298 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-1440FX-PIIX-1996.43466:
Flags [P.], seq 8782587:8784047, ack 6995, win 8760, length 1460: HTTP: HTTP/1.1 200 OK
06:09:50.673314 IP onworks-Standard-PC-1440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http:
Flags [.], ack 8784047, win 65535, length 0
06:09:50.673298 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-i440FX-PIIX-1996.43466:
Flags [P.], seq 8784047:8784659, ack 6995, win 8760, length 612: HTTP
06:09:50.677271 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-i440FX-PIIX-1996.43466:
Flags [P.], seq 8784659:8786119, ack 6995, win 8760, length 1460: HTTP: HTTP/1.1 200 OK
06:09:50.677277 IP onworks-Standard-PC-i440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http:
86:09:50.67/27/ IP onworks-standard-PC-1440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http: Flags [.], ack 8786119, win 65535, length 0 86:09:50.677271 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-1440FX-PIIX-1996.43466: Flags [P.], seq 8786119:8787361, ack 6995, win 8760, length 1242: HTTP 06:09:50.689237 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-1440FX-PIIX-1996.43466: Flags [P.], seq 8787361:8787592, ack 6995, win 8760, length 231: HTTP: HTTP/1.1 200 OK 06:09:50.689246 IP onworks-Standard-PC-1440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http:
Flags [.], ack 8787592, win 65535, length 0

06:09:50.689360 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-i440FX-PIIX-1996.43466: Flags [P.], seq 8787592:8788344, ack 6995, win 8760, length 752: HTTP: HTTP/1.1 200 OK 06:09:50.733069 IP onworks-Standard-PC-i440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http:
Flags [.], ack 8788344, win 65535, length 0
06:09:51.971131 IP onworks-Standard-PC-i440FX-PIIX-1996.43466 > ubuntu-mirror-1.ps6.canonical.com.http:
Flags [F.], seq 6995, ack 8788344, win 65535, length 0
66:09:51.971237 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-i440FX-PIIX-1996.43466:
Flags [.], ack 6996, win 8760, length 0
06:09:51.971622 IP onworks-Standard-PC-i440FX-PIIX-1996.55472 > 141.30.62.22.http: Flags [F.], seq 11122
, ack 11759863, win 65535, length 0
06:09:51.971678 IP 141.30.62.22.http > onworks-Standard-PC-i440FX-PIIX-1996.55472: Flags [.], ack 11123,
 win 8760, length 0
06:09:51.990490 IP 141.30.62.22.http > onworks-Standard-PC-1440FX-PIIX-1996.55472: Flags [R.], seq 11759
863, ack 11123, win 8760, length 0
06:09:52.120914 IP ubuntu-mirror-1.ps6.canonical.com.http > onworks-Standard-PC-i440FX-PIIX-1996.43466:
Flags [R.], seq 8788344, ack 6996, win 8760, length 0
06:09:52.769093 IP6 onworks-Standard-PC-i440FX-PIIX-1996 > fec0::2: ICMP6, neighbor solicitation, who ha
s fec0::2, length 32
06:09:52.769195 IP6 fec0::2 > onworks-Standard-PC-i440FX-PIIX-1996: ICMP6, neighbor advertisement, tgt i
s fec0::2, length 32
 onworks@onworks-Standard-PC-1448FX-PIIX-1996:-$ ^C
 onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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9. To capture packets with ip address sudo tcpdump -n -i wlo1

This command will now capture the packets with IP addresses. OUTPUT

```
rd-PC-i440FX-PIIX-1996:-$ sudo tcpdump -n -i ens3
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode listening on ens3, link-type EN10MB (Ethernet), capture size 262144 bytes 06:13:49.830711 IP 10.0.2.15.50648 > 91.189.92.40.443: Flags [S], seq 2473722447, win 64240, options [ms s 1460,sack0K,TS val 527781608 ecr 0 nop,wscale 7], length 0 06:13:49.830770 IP 10.0.2.15.50646 > 91.189.92.40.443: Flags [S], seq 4139998373, win 64240, options [ms 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781608 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 1460 accepts T seq 157781609 ecr 0 nop,wscale 7] length 0 14
s 1460,sackOK,TS val 527781608 ecr 0,nop,wscale 7], length 0
06:13:50.730668 IP 91.189.92.40.443 > 10.0.2.15.50646: Flags [F.], seq 0, ack 4139998374, win 8192, leng
th 0
06:13:50.730668 IP 91.189.92.40.443 > 10.0.2.15.50638: Flags [F.], seq 0, ack 478652487, win 8760, lengt
h e
06:13:50.730668 IP 91.189.92.40.443 > 10.0.2.15.50630: Flags [F.], seq 0, ack 3530249906, win 8760, leng
th 0
06:13:50.730668 IP 91.189.92.40.443 > 10.0.2.15.50628: Flags [F.], seq 0, ack 3627054957, win 8760, leng
th 0
06:13:51.944216 IP 91.189.92.40.443 > 10.0.2.15.50626: Flags [F.], seq 0, ack 816105158, win 8760, lengt
h 0
06:13:51.944216 IP 91.189.92.40.443 > 10.0.2.15.50624: Flags [F.], seq 0, ack 3202938958, win 8760, leng
th 0
8 packets captured
8 packets received by filter
0 packets dropped by kernel
         works@onworks-Standard-PC-1440FX-PIIX-1996:-$
```

10. To capture only TCP packets sudo tcpdump -i wlo1 tcp

This command will now capture only TCP packets from wlo1. OUTPUT:

CONCLUSION: The tcpdump command is studied and analysed