

26/11/24

Exp No: 16

Packet Sniffing

AIM:

To write a code using RFB socket to implement packet sniffing

PROGRAM:

```
from scapy all import sniff
from scapy layer init import IP, TCP, UDP, ICMP
```

```
def packet_callback(packet):
```

```
    if IP in packet:
```

```
        IP_layer = packet[IP]
```

```
        Protocol = IP_layer.proto
```

```
        Src_IP = IP_layer.src
```

```
        Dst_IP = IP_layer.dst
```

```
    # Determine the protocol
```

```
    Protocol_name = ""
```

```
    if Protocol == 1:
```

```
        Protocol_name = "ICMP"
```

```
    elif Protocol == 6:
```

```
        Protocol_name = "TCP"
```

```
    elif Protocol == 17:
```

```
        Protocol_name = "UDP"
```

```
    else:
```

```
        Protocol_name = "Unknown Protocol"
```

```
    # Print Packet details
```

```
    print(f"Protocol: {Protocol_name}")
```

```
    print(f"Source IP: {Src_IP}")
```

```
    print(f"Destination IP: {Dst_IP}")
```

```
    print(f" - " r#0)
```



```
def main()
    Sniff (1 if src = "wifi", param = Packet = callback,
          filter = "ip", store = 0)
    if - name == "main"
        main()
```

O/P:

Protocol : TCP

Source IP: 20.247.164.172

Destination IP: 172.20.10.2

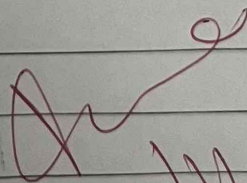
Protocol : TCP

Source IP: 20.247.164.142

Destination IP: 172.20.10.2

Result:

Thus the Packet sniffing process is executed & output is verified successfully.


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