USING ROUTE COMMAND TO DISPLAY NETWORK INFORMATION

Tools: KALI LINUX

Route is used when you want to work with the IP/kernel routing table. It is typically used to setup static routes to specific networks of hosts via an interface. It is used for updating or showing the IP/kernel routing table. The route command is used to view or manipulate the IP routing table.

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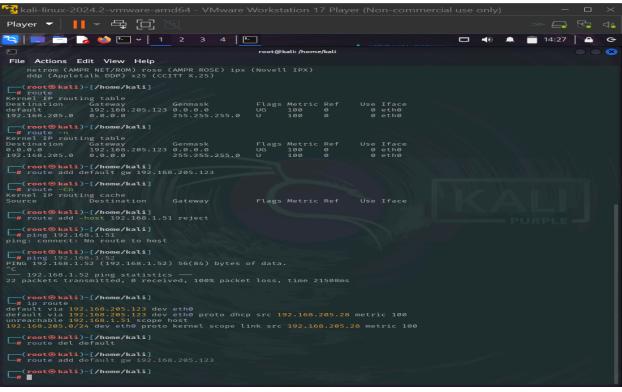
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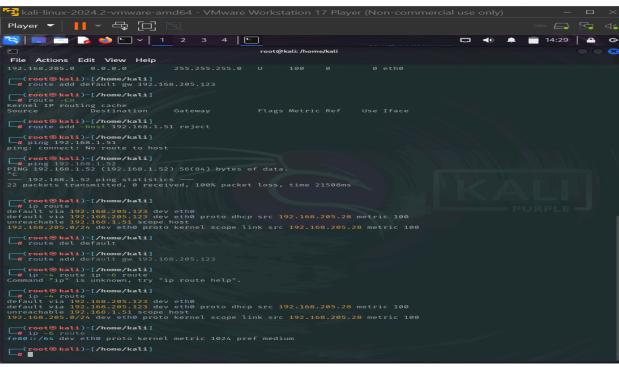
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Here we would be using the route command to display network information. We would first have to be a root user to use the command.

The route command is a network utility used to view and manipulate the IP routing table on Unix-like and Microsoft Windows operating systems.

It allows administrators to define routes for network traffic, ensuring data packets take the correct path to their destination.

Common Uses of the route Command:

1. Displaying the Routing Table:

To view the current routing table, use: route -n

 The -n flag displays addresses numerically, avoiding the need for name resolution.

2. Adding a Route:

```
To add a new route, the syntax is:
route add -net [destination_network] netmask
[subnet_mask] gw [gateway]
For example, to route traffic destined for the 192.168.1.0/24 network
through the gateway 192.168.0.1:
route add -net 192.168.1.0 netmask 255.255.255.0 gw
192.168.0.1
```

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3. **Deleting a Route:**

```
To remove an existing route:

route del -net [destination_network] netmask
[subnet_mask]

For instance, to delete the route to 192.168.1.0/24:

route del -net 192.168.1.0 netmask 255.255.25.0
```

Note: On modern Linux distributions, the route command has been deprecated in favor of the ip command from the iproute2 package. The equivalent commands using ip are:

Displaying the Routing Table:

ip route show

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Adding a Route:

```
ip route add [destination_network]/[prefix_length] via
[gateway]
```

For example:

```
ip route add 192.168.1.0/24 via 192.168.0.1
```

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Deleting a Route:

```
ip route del [destination_network]/[prefix_length]
For example:
```

ip route del 192.168.1.0/24

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It's advisable to use the ip command for managing routes on systems where it's available, as it offers more features and is actively maintained.

For comprehensive details on the route command and its options, you can refer to its manual page by executing man route in the terminal.