## Lab 3: Using Traceroute in Linux

**Scenario**

A company has hired you to test its network infrastructure penetration. As part of your assessment, you need to identify any potential vulnerabilities. You have to use the traceroute tool, which can be used to trace the route that network packets take from one location to another. Perform the task on both Windows and Linux machines.

**Solution**

A company has hired you to test its network infrastructure penetration. As part of your assessment, you need to identify any potential vulnerabilities. Depending on the company’s network infrastructure, you may need to use Windows and Linux machines to assess. The Windows and Linux versions of the traceroute tool may implement the traceroute function differently, which means that the results obtained from the two tools may differ.

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| 1. Turn on your **PattotOS** virtual machine. Open the **Terminal** and execute the following command: **sudo su** to run the programs as a root user. When prompted, enter your **root** password.    2. Execute the following command: **traceroute certifiedhacker.com** to trace the route or to see the hops in the path. It also shows the IP addresses of the routers a packet goes through.    4. It shows the IP addresses of the routers in the path to the destination.    You can also use tools like **Traceroute NG** ([**https://www.solarwinds.com**](https://www.solarwinds.com)) and **Visual Route** (<http://visualroute.com>). |