**TCP/IP Attack- Task 2**

Completed by Eric Adamian

VirtualBox IP addresses:

|  |  |  |  |
| --- | --- | --- | --- |
| Virtual machine: | ClientVM | ServerVM | AttackerVM |
| IP address: | 10.0.2.4 | 10.0.2.5 | 10.0.2.6 |

**Task 2: TCP RST Attacks on telnet and ssh Connections**

Explanation: Using Netwox 78 tool to terminate an existing connection between client and server VM

**Step 1:** Turn on SYN cookies (server VM)

A screenshot of a computer

Description automatically generated

**Step 2:** Telnet from client to server VM; since SYN cookies are on, login credentials are required (VM login: seed, Password: dees) to establish TCP connection (client VM):

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Description automatically generated

**Step 3**: Gather ethernet network peripheral (enp0s3); attacker VM launches attack to disconnect existing TCP connection between client and server VM (attacker VM)

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**Step 4:** Ensure connection closed between client and server VM; IP address returns to original state for client VM (10.0.2.5🡪10.0.2.4) (client/server VM)

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**Step 5:** Test ssh connection between client and server VM (client VM)

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**Observation:** Connection from client to server VM resulted in a broken pipe; **disconnection attack for existing TCP connection was successful**