**Linux Firewall Exploration- Task 4**

Completed by Eric Adamian

VirtualBox IP addresses:

|  |  |  |  |
| --- | --- | --- | --- |
| Virtual machine: | MachineA | MachineB | MachineC |
| IP address: | 10.0.2.21 | 10.0.2.22 | 10.0.2.23 |

**Task 4: Evading Ingress Filtering**

Explanation: Using SSH (assuming VPN is not being used) to access a protected web server (Machine A) through an outside machine (Machine B)

**Step 1:** Ensure the correct IP addresses for Machine A and Machine B (Machine A and Machine B)

A screenshot of a cell phone

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**Step 2:** Using a random port (ie. Port 9345), send the ssh tunnel from Machine A to Machine B using the following command: ssh -R 9345:localhost:22 seed@10.0.2.22 (Machine A)

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**Step 3:** Complete reverse SSH from outside machine tunnel using the follow command: ssh -p 9345 localhost

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**Step 4:** Ensure both IP addresses have swapped; Machine A should have Machine B’s IP address, and Machine B should have Machine A’s IP address

A screenshot of a cell phone

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**Observation:** The reverse ssh tunnel was properly implemented; **the outside Machine B has access to the protected web server (Machine A)**