Port Knocking

Code can be found here: https://github.com/c2003-tamu/413

Environment Setup

- Ensure python is installed
- Ensure telnet is installed

Running the Project

- Clone git repo
- Navigate to 413/portknocking directory
- Open 2 terminal tabs
- In one tab, run command: python3 server.py
- In other tab, run command: ./demo.sh

Explanation

There is a predefined "combination" of ports that need to be connected to in order for the real service to open up on port 8080.

The output from the script ./demo.sh shows the following output:

```
Trying 127.8.8.1.

Connected 187.7.8.8.1.

Escape character is "]'.

Hello from port 1188

Connection closed by foreign host.

Trying 127.8.8.1..

Connected to 127.8.8.1..

Escape character is "]'.

Hello from port 1188

Connection closed by foreign host.

Trying 127.8.8.1..

Escape character is "]'.

Hello from port 1828

Connection closed by foreign host.

Trying 127.8.8.1..

Escape character is "]'.

Hello from port 1828

Connection closed by foreign host.

Trying 127.8.8.1..

Connected to 127.8.8.1.

Escape character is "]'.

Hello from port 1828

Connection closed by foreign host.

Trying 127.8.8.1..

Escape character is "]'.

Hello from port 1828

Connection closed by foreign host.

Trying 127.8.8.1..

Escape character is "]'.

Hello from port 1828

Connected to 127.8.8.1.

Escape character is "]'.

Hello from port 1828

Connected to 127.8.8.1.

Escape character is "]'.

Hello from port 1828

Connected to 127.8.8.1.

Escape character is "]'.

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Connected to 127.8.8.1.

Escape character is "]'.

Hello from port 1828

Connected to 127.8.8.1.

Escape character is "]'.

Hello from port 1828

Connected to 127.8.8.1.

Hel
```

- From this output, we can see that:
 Port 8080 is not initially open
 Ports are knocked in correct order: 1027, 1026, 1100, 1025, 1028, 1029
 Port 8080 is then open and able to be connected to