British Columbia Institute of Technology

Port Forwarder

Assignment 3 - COMP 8005

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**PORT FORWARDER DIAGRAM** 

**Pseudocode**

Clear (X Button next to each rule)

{

Will check if the selected port is in the array of rules

If it exists Remove Rule()

}

Remove Rule

{

Remove listed port from array of rules

Close listening port and current connection to that port

}

Add (+ Button)

{

Generate a new row in the GUI to add a new rule

Incoming Port / Hostname or IP Address / Outgoing Port

}

Reload (Refresh Button)

{

Will apply the new set of rows created

Based on the Outgoing Port it will call

If (outgoing port == 443) SSL Forwarder()

Else TCP Forwarder()

}

SSL Forwarder

{

Create a SSL socket after passing the generated self-signed certificates

Listen on the SSL server socket for new connections

}

TCP Forwarder

{

Create a TCP Server Socket and listen for new connections

}

Listening

{

Listen for new connections until a client is connected

In the case of a connection Connect to Server()

}

Connect to Server

{

After getting a client create a new socket connection to the server and Redirect Traffic()

If (SSL Forwarder) then pass signed certificate to establish connection to the server.

}

Redirect Traffic()

{

Pipe the stream from the Client to Remote Server

Pipe the stream from the Remote Server to Client

}

Exit

{

Close GUI

Close all Connections

}