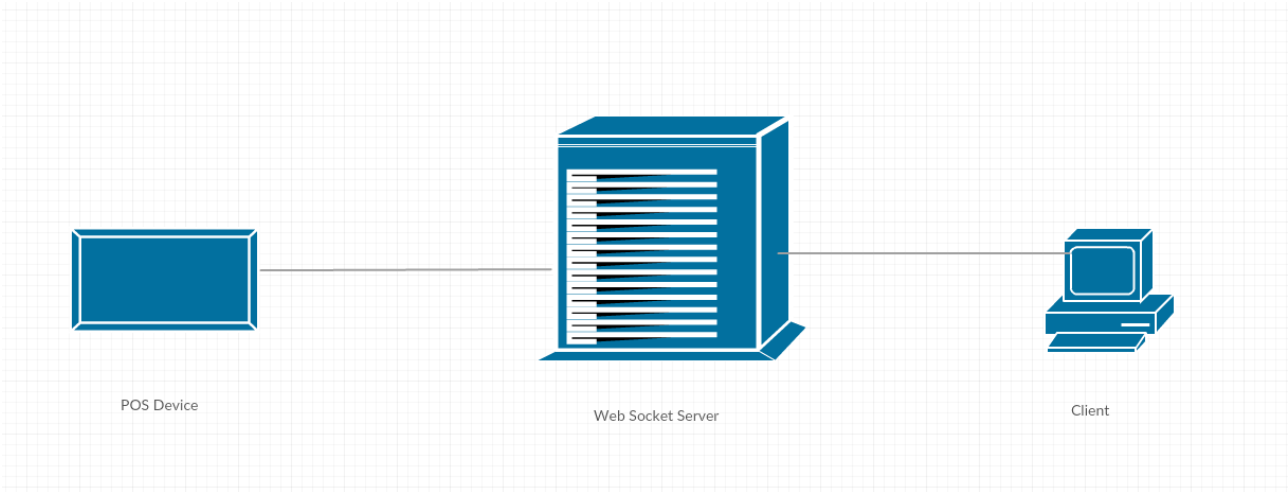
TASK

Create a tunnel between two hosts on separate networks using a web socket server.



Basic Steps

- Create a SSH connection with Web Socket Server - Local Port Forward
- Create a SSH connection from POS Device to Web Socket Server – Remote Port Forward

Description

When the web socket server is running, initially the POS devices should send a message “POS” through a socket to the Web Socket Server. Using this message server will save the reference of the POS device.

After that the client should send a message “SSH_ME” to the Web Socket Server. Then the server will read the message and again sends another message called “SSH2SERVER” to the POS device, stating that start a SSH connection with the Web Socket Server. Then the POS device will start a SSH connection with the Web Socket Server on a per-defined port. (Remote Port Forwarding)

Then again the Web Socket Server will send a message “SSHto6000” to the POS device.(here 6000 is the port which client should connect). Finally the client will establish a SSH connection (Local Port Forwarding) to Web Socket Server where the port is the same port where the POS device is made a connection with the Web Socket Server.

How to run

- First the web socket server should be started (run the Server.java). In this case it’s a Azure Virtual Machine
- Then run the Client.java in both POS and client machine. (Here there are some changes in the two Client.java files, both are not the same)
- Type “POS” in the terminal which belongs to the POS device.

- Then type “SSH_ME” from the client terminal.
- Then the server will automatically set up the connection.

In the current running version, both client and POS will connect to Web Socket Server’s 6000 port. POS.