

User Manual

for

Port Forwarder Server

<Final Project>

Version 1.0

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1 How to Compile the Port Forwarder

1.1 Permissions

In order to compile the server, the user will need to have permissions to do so. If the user has access to root or has privileges, then the user will be able to compile the port forwarder server.

1.2 Compiling the Server

Steps to Compile the portForwarder.c

1. Open the shell program
2. Locate and cd to the directory where portForwarder.c is saved
3. Type "make"

2 How to Run the Port Forwarder

2.1 Permissions

In order to start the server, the user will need to have permissions to do so. If the user has access to root or has privileges, then the user will be able to run port forwarder server.

2.2 Running the Server

Steps to Run the portForwarder.c

1. Open the shell program
2. Locate and cd to the directory where portForwarder.c is saved
3. Type "./portForwarder"

3 How to Use the Configuration File

3.1 Permissions

In order to change the configuration file, the user will need to have permissions to do so. If the user has access to root or has privileges, then the user will be able to modify the port forwarder server settings.

3.2 Modify Settings

Steps to Modify the portForwarder.conf

1. Locate to the directory where portForwarder.conf is saved
2. Double click the configuration file
3. Look for listenPort at the beginning of the script
 - Type the port number that the port forwarder will be listening on (i.e. listenPort=8000)
 - i. You can only specify one port
 - ii. Spacing will matter, so specify as above
4. Look for forwardIpAddress
 - Type the IP address that the port forwarder will forward the socket to (i.e. forwardIpAddress=72.30.38.140)
 - i. You can only specify one IP address
 - ii. It cannot read domain names
 - iii. Spacing will matter, so specify as above
5. Look for forwardPort
 - Type the port number that the port forwarder will forward the socket to (i.e. forwardPort =80)
 - i. You can only specify one port
 - ii. Spacing will matter, so specify as above
6. Add a blank line afterwards
7. Repeat steps 3-6 if you want another listenPort
8. Click save or press ctrl+s

4 Getting the Domain Name's IP Address

4.1 Grab IP Address

Steps to Grab the IP Address

1. Run the Shell program
2. Type nslookup "domain name"
 - Type the domain name to convert it to an IP address
(i.e. nslookup google.ca)