GSW
Business Tunnel

Example L03

Securely Access Blocked Website via Home Computer due to Company Proxy Filter

Head Quarters
HQ7 Server
192.168.1.161

www.craigslist.com

Home
Thomas (Home Computer)
192.168.1.124
GSW SSH Server

Channel Port 10083

Internet

Firewall blocks
incoming
connections

Netgear N300
Router IP:
98.18.77.166

Tunnel Port 22

GSW Business Tunnel

NOTE: In this example,
www.craigslist.com is the blocked
website we want to access
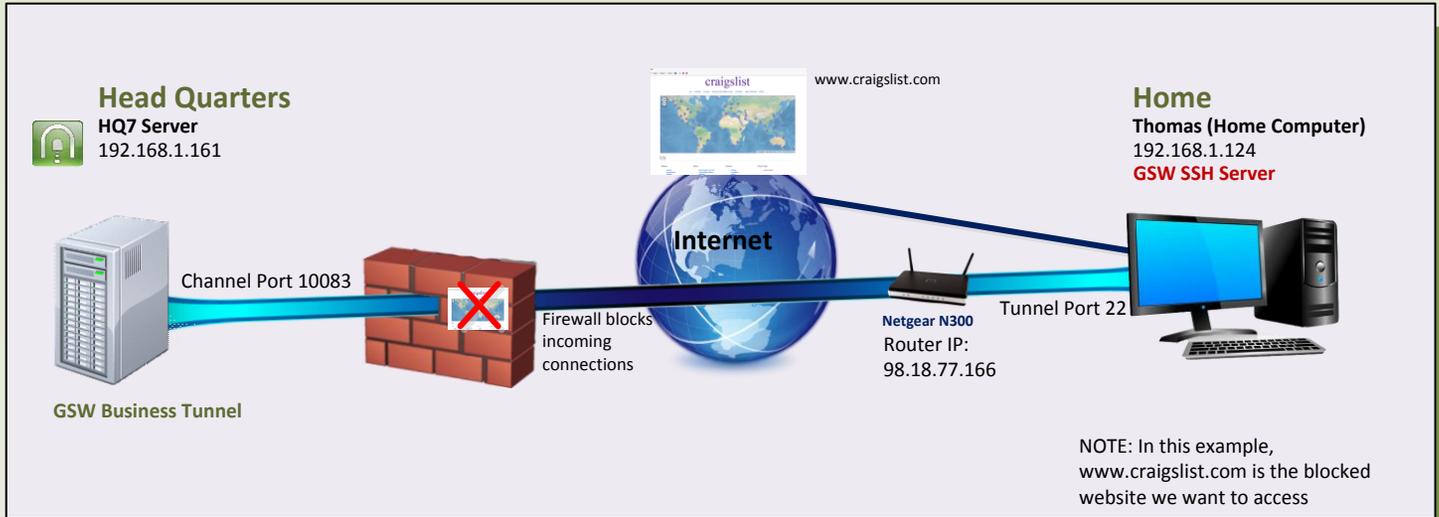
CASE: *Access Blocked Web Site from home (due to company proxy filter)*
Access to www.craigslist.com is blocked by the company proxy filter at Head
Quarters. However, the facilities manager needs to access craigslist to find old
desks for sale in the area. His computer (Thomas) at home is running the GSW SSH
Server.
The developer can create a Tunnel to his home computer and then browse
www.craigslist.com from HQ7.

NetGear N300 Router – Port Forwarding Configuration

Your router will need to be configured to port forward to the SSH Server

#	Service Name	External Start Port	External End Port	Internal Start Port	Internal End Port	Internal IP address
1						
2	GSW SSH	22	22	22	22	192.168.1.124

HQ7 – GSW Business Tunnel Configuration

SSH Host and Authentication Settings

1. Set Address of SSH Server Host. In this case, the router is forwarded to the SSH Server Host, so we use the router IP Address

2. Set Authentication Requirements. In this case, Authentication consisted of: Logon name and a password.

Thomas – GSW SSH Server Configuration

Make sure local port forwarding is enabled on the SSH Server. With the GSW SSH
Server, the setting is in the registry, as shown below.

x64 system:
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Georgia SoftWorks\GSW_SSHD\Parameters

x86 system:
HKEY_LOCAL_MACHINE\SOFTWARE\Georgia SoftWorks\GSW_SSHD\Parameters

HQ7 – Browser Configuration

1. Open browser and enter URL
http://127.0.0.1:10083
(from the channel configuration)
and browse www.craigslist.com

HQ7 – Channel Configuration

1. Select Local forwarding type.
2. Set the loopback address (127.0.0.1) as the local address.
3. Choose available port number to assign for local port. We selected 10083.
4. Fill in the host address of the blocked website as the remote address.
5. Use 80 for the remote port

*Note: This example works as long as the links and objects on the website have relative addresses