GSW
Business Tunnel

Example D02

Securely connect to your home computer from work and use it to browse the internet

Work Computer
Lion7
192.168.1.161

Internet

Home Computer
THOMAS
192.168.1.124
GSW SSH Server

Port 10080

GSW Business Tunnel

SECURE
GSW BUSINESS TUNNEL

Router IP
98.18.77.166
Tunnel Port 22

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

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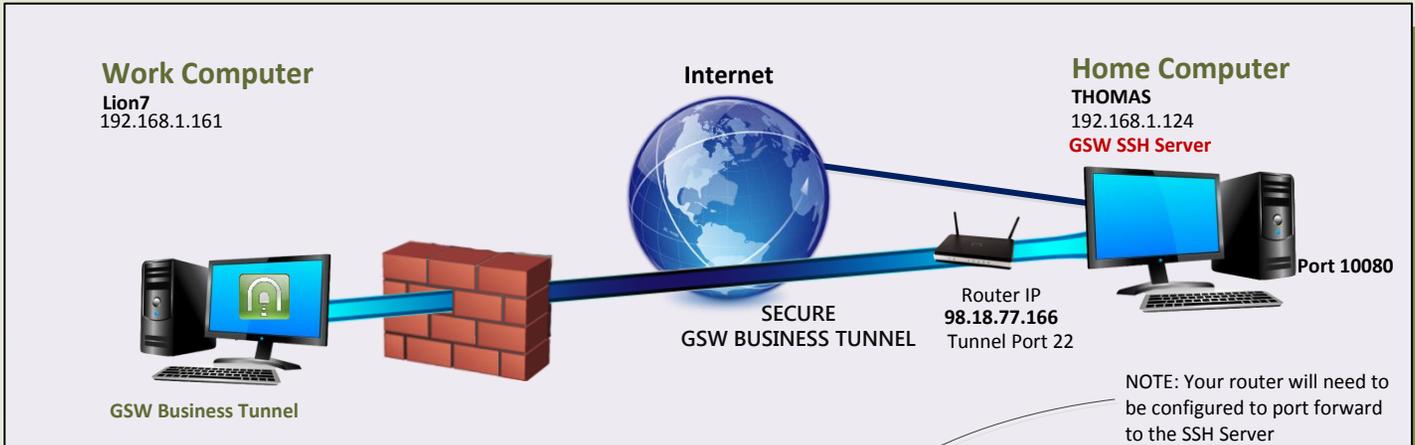
CASE: *Securely create a tunnel through a firewall to a SSH Server and Browse the Internet*
Your company firewall blocks all internet browsing. You have received permission to access certain web sites for work, but company policy will not allow the firewall to be opened up to HTTP traffic. The company firewall is open to SSH traffic. You can create a secure tunnel to a SSH server located at home (or anywhere else that you have access) and browse the internet.

NetGear N300 Router – Port Forwarding Configuration

	#	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

Lion7 – GSW Business Tunnel Configuration
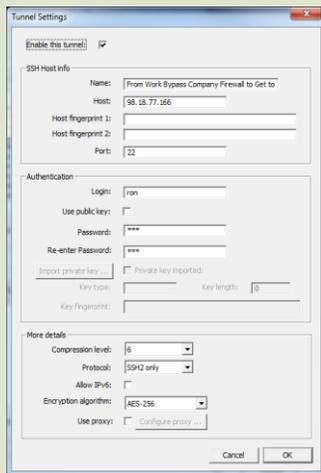
SSH Host and Authentication Settings

1. Set Address of SSH Server Host. In this case, the router is forwarding 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

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Lion7 – Channel Configuration
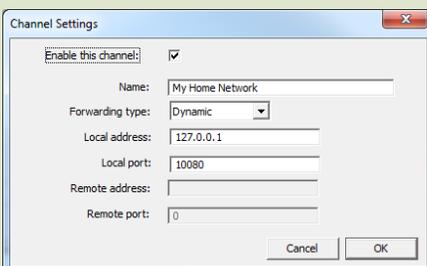
1. Select Dynamic forwarding type.

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 10080.

Note: Make sure that the local address and local port are the same ones used in the browser proxy configurations for SOCKS address and Port (see right)

Lion7 – Browser Configuration

1. Enable Proxy Server
IE -> TOOLS -> Internet Options -> Connections -> Advanced   LAN settings

2. Configure SOCKS Address and Port
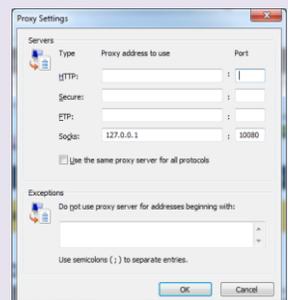
Note: Each browser has a way to enable a proxy server for the LAN. This example shows Microsoft Internet Explorer 10 (IE 10).

Lion7 – Browser Usage

Open Browser and enter the URL to start browsing.