GSW
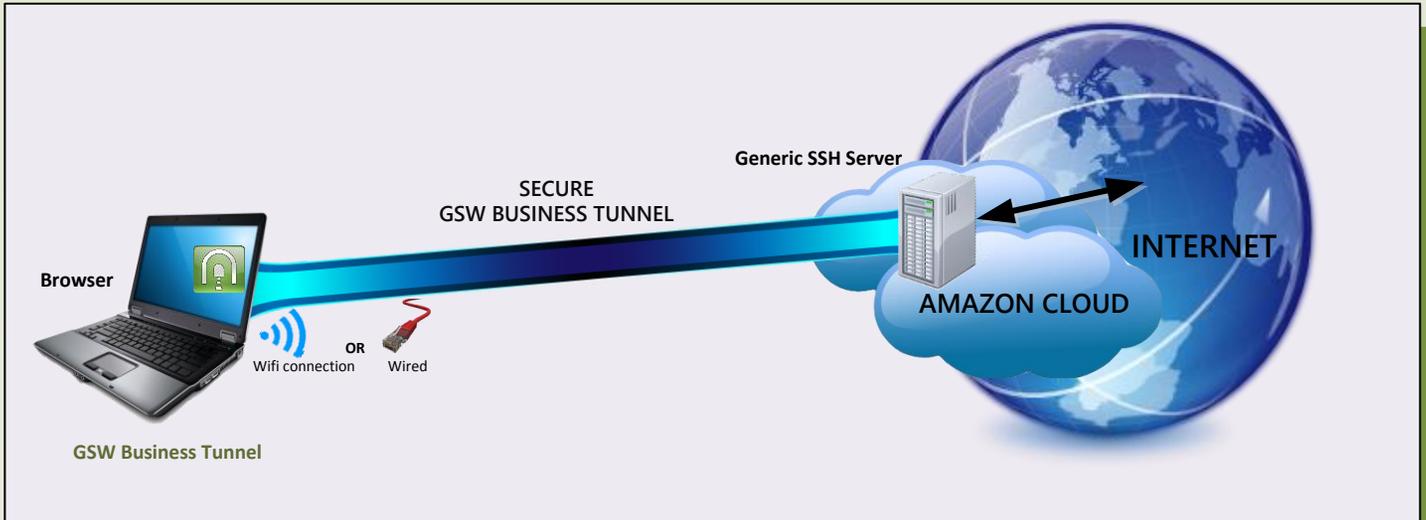# Business Tunnel

Example D01

Browse Internet Securely by Tunneling through a Generic SSH Server on Amazon Cloud

Browser

Wifi connection OR Wired

GSW Business Tunnel

Generic SSH Server

SECURE
GSW BUSINESS TUNNEL

INTERNET

AMAZON CLOUD

CASE: *Securely Browse the Internet by Tunneling through a Generic SSH Server on Amazon Cloud*
Matt is on vacation. But his company needs him to run payroll today. Matt does not want to risk accessing payroll via non-secure internet access. Matt can create a secure tunnel for his laptop to access his companies payroll website.

Laptop- Browser Configuration

IE -> TOOLS -> Internet Options -> Connections ->   [LAN settings]

Local Area Network (LAN) Settings

Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
- [x] Automatically detect settings
- [ ] Use automatic configuration script
  Address:

Proxy server
- [x] Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
  Address: Port: [Advanced]
- [ ] Bypass proxy server for local addresses

  [OK] [Cancel]

1. Enable Proxy Server

2. Click on Advanced
   Opens Proxy Settings.

Laptop- GSW Business Tunnel Settings

Tunnel Settings

Enable this tunnel: [x]

SSH Host info
Name: Anywhere to Amazon Cloud SSH Server
Host: ec2-54-234-49-254.compute-1
Host fingerprint 1:
Host fingerprint 2:
Host fingerprint 3:
Port: 22

Authentication
Login: ubuntu
Use public key: [x]
Password:
Re-enter Password:
Import private key ... [x] Private key imported:
Key type: ssh-rsa   Key length: 2048
Key fingerprint: e7:34:b4:3c:e2:6b:58:d4:5a:a0:22:51:36:20:32:c6

More details
Compression level: 6
Protocol: SSH2 only
Allow IPv6: [ ]
Encryption algorithm: AES-256
Use proxy: [ ] Configure proxy ...

[Cancel] [OK]

SSH Host and Authentication Settings

1. Set Address of SSH Server Host. This is provided when you set up your Amazon Cloud.

2. Set Authentication Requirements. This is the logon ID and the private key provided when you set up the Amazon Cloud.

Proxy Settings

Servers
Type   Proxy address to use   Port
HTTP: :
Secure: :
FTP: :
Socks: 127.0.0.1   :   10001
[ ] Use the same proxy server for all protocols

Exceptions
Do not use proxy server for addresses beginning with:

Use semicolons (;) to separate entries.

[OK] [Cancel]

3. Configure Proxy Address and Port Number
   The channel configuration for the local address and local port is used in the browser configuration. These must match. (See arrow)

4. Click OK, OK, OK
   Your browser is now configured to use the Tunnel.
   In some instances it applies to new browsers opened.

Laptop- GSW Business Channel Settings

Channel Settings

Enable this channel: [x]
Name: Browsing using Amazon Cloud
Forwarding type: Dynamic
Local address: 127.0.0.1
Local port: 10080
Remote address:
Remote port: 0

[Cancel] [OK]

1. Select Dynamic Forwarding.
2. Use the loopback address
3. Choose an available port for the local port.

Note: Each browser has a way to enable a proxy server for the LAN.
This example shows Microsoft Internet Explorer 11 (IE 11).

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