Stuller Software Network Requirements

Firewall Access Rules Needed

You will need to configure your Network Firewall Appliance to allow clients to talk to the following addresses to allow MatrixGold to function properly.

- ALLOW **TCP Port 443** TO: gemvision.s3.amazonaws.com
- ALLOW **TCP Port 443** TO: gems.gemvision.services
- ALLOW **TCP Port 443** TO: amazonaws.com

- ALLOW **TCP Port 443** TO: countersketch.biz
- ALLOW **TCP Port 443** TO: countersketch.azurewebsites.net

- ALLOW **TCP Port 80/443** TO: stuller.com
- ALLOW **TCP Port 443** TO: assets.stullercloud.com
- ALLOW **TCP Port 443** TO: api.stuller.com

Testing Connection to MG Services

1. Open Command Prompt (WIN+R > CMD).
2. Type: **ping -n 1 gemvision.s3.amazonaws.com**
3. Press **[ENTER]**
4. You should see the Ping command resolve the above domain address to an **IP Address (52.x.x.x)**, and a packet loss of 100% (this is for security, and has nothing to do with your network config).

```
Pinging s3-1-w.amazonaws.com [52.216.176.43] with 32 bytes of data:
Request timed out.

Ping statistics for 52.216.176.43:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

5. Type: **ping -n 1 gems.gemvision.services**
6. Press **[ENTER]**
7. You should see:

```
Pinging gems.gemvision.services [13.225.54.75] with 32 bytes of data:
Request timed out.

Ping statistics for 13.225.54.75:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
```

8. The IP Addresses may change over time, so long as you are seeing those IP Addresses, your **DNS** is properly configured to talk to our services.

How to Test Access through your Firewall to some of our Services

1. Using the browser of your choice try accessing the above domains.

2. Enter https://gemvision.s3.amazonaws.com/ in the address bar and press **[ENTER]**
   a. You should see an **AccessDenied** message from Amazon if everything is working:

   This XML file does not appear to have any style information associated with it. The document tree is shown below.
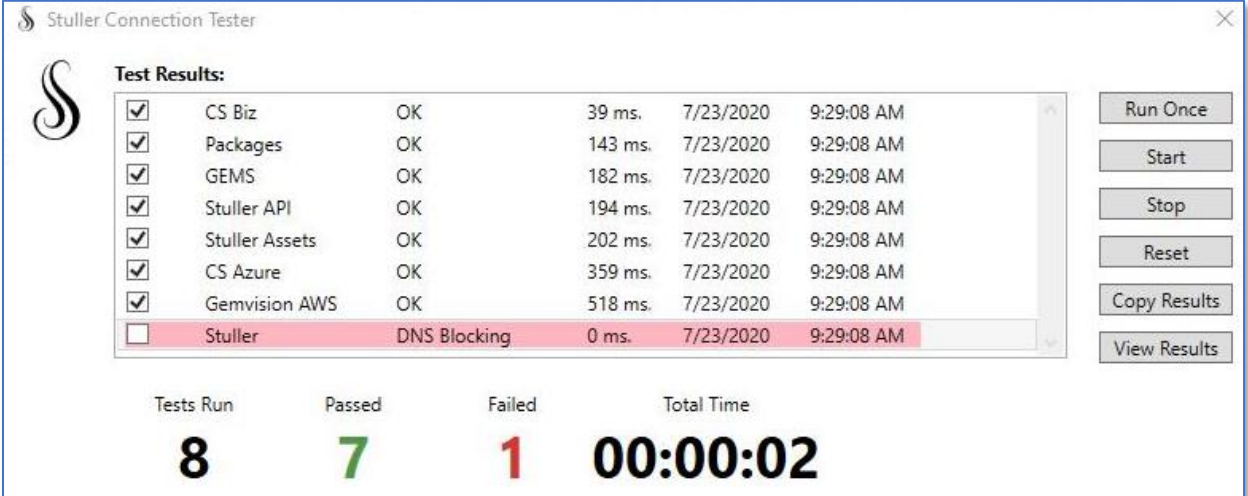
   ```
   ▼<Error>
       <Code>AccessDenied</Code>
       <Message>Access Denied</Message>
       <RequestId>595BEFCCE4A66B2F</RequestId>
     ▼<HostId>
         3DRuTwPsVCuuLo5PDRQjT0RjOtg7ooWndbt9BLskrURYPHjd7ey1Epyf2N1Mvx5BoIC3UC6tijU=
       </HostId>
   </Error>
   ```

3. Enter https://gems.gemvision.services/ in the address bar and press **[ENTER]**
   a. You should see a **Forbidden** response from our Services if everything is working:

   ```
   {"message":"Forbidden"}
   ```

Automated Network Testing

We have developed a testing tool that can help you to identify connectivity issues with our software. The **Stuller Connection Tester** tool can be obtain by contacting our support staff. With this tool, it will test all connections and show you what needs to be fixed.


```
 1  ------------------------------------------------------------------
 2  Stuller Connection Tester Failures
 3  ------------------------------------------------------------------
 4  User: jstev
 5  Domain: SSI0114
 6  Machine: SSI0114
 7  Version: Microsoft Windows NT 6.2.9200.0
 8  ------------------------------------------------------------------
 9  Tests Started:7/23/2020 9:59:06 AM
10  Tests Completed:8
11  Tests Passed:7
12  Tests Failed:1
13  Tests Ended:7/23/2020 9:59:06 AM
14  ------------------------------------------------------------------
15  7/23/2020, 9:59:06 AM, Stuller, 0, DNS Blocking, Domain Blocked = www.stuller.com
16  ------------------------------------------------------------------
```

Firewall settings for Rhino

- https://accounts.rhino3d.com (TCP port 443)
- https://api.mcneel.com (TCP port 443)
- https://cloudzoo.rhino3d.com (TCP port 443)

https://wiki.mcneel.com/rhino/install/wizard/start/windows/6/commercial/czpersonal/firewall