

# Build a Reverse Tunnel for your Local Computers

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With Spark Gateway, you can connect to a computer from anywhere, but some computers are not reachable because they are buried deeply in another private/internal network. To solve this problem, a reverse tunnel can be built between the gateway and the target computer, which allow you connect to any computers/devices.

## Getting Started

1. Reverse connection is disabled by default on the gateway. Please set `reverse.enabled = true` in `GatewayInstallDir\gateway.conf` to enabled it (Need to restart the gateway).
2. Make sure you have installed the SparkGateway Agent, otherwise, please download and install it from the following links:

[Agent for Windows](#)

[Agent for macOS](#)

[Agent for Linux \(Executable\)](#)

## Start the Agent

1. Help information: `sg_agent reverse --help`
2. Build a reverse tunnel between localhost on port 3389 and gateway (`https://yourgateway`), default protocol for the tunnel is RDP.

```
sg_agent reverse --host localhost --port 3389 --remote https://yourgateway
```

3. Build a reverse tunnel between another local computer (192.168.0.8) on port 5900 and gateway (`https://yourgateway`), protocol: `vnc` (or `rfb`), allow self-signed or expired certificate on gateway (`-k`):

```
sg_agent reverse --host 192.168.0.8 --port 5900 --remote https://yourgateway --  
protocol vnc -k
```

The agent will create a server on the gateway which is disabled by default. The administrator need to review and enabled it before it can be connected. You can set `reverse.review = false` in `gateway.conf` to disable this default behavior.

The agent will output a HTTP link if it connected to the gateway successfully, and you can use this link to connect to your local computer from anywhere.