

OpenVPN connection test

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After configuring and running both the OpenVPN server and client, it's a good idea to test if the VPN is working. This involves some tests on both the server and client.

OpenVPN Server

Network Device

After the server is started, a new interface should be created. Run `ifconfig` to get a list of all available interfaces. In case `tun` is configured in the `conf` file as device type, a new interface with name `tun0` is created.

```
ifconfig
```

Check server log for client connection

In case OpenVPN is started as a service, the log can be found at `/var/log/messages`. If you start it directly on the command line, the log will be shown on the shell. When a client connects, the log of the server

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shows the connection information.

```
tail -f /var/log/messages
```

The last lines show client1, meaning that the client not only connected, but is also correctly identified as client1. The connection is working.

OpenVPN client

Start OpenVPN and the client will try to connect to the server specified in the client.conf file. Client connecting and receiving IP.

```
openvpn /etc/openvpn/client.conf tail -f /var/log/messages
```

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After the connection was established, the client is also creating a new interface named tun0. Here a client named client1 connects and receives the IP 10.8.0.6.

```
ifconfig
```

Connection test

Easiest way to test that client and server can talk to each other is to ping both. Just run a ping from the server to the client IP, and from the client to the server IP. For this, the VPN IP address must be used (e.g. 10.8.0.x).

OpenVPN server

Ping client1 from server.

```
ping 10.8.0.6
```

OpenVPN client

Ping server from client.

```
ping 10.8.0.1
```