How to use OpenVPN on mPBX

1. Summary

OpenVPN is a free and open source software application that implements virtual private network (VPN) techniques for creating secure point-to-point or site-to-site connections in routed or bridged configurations and remote access facilities. It uses SSL/TLS security for encryption and is capable of traversing network address translators (NATs) and firewalls. OpenVPN allows peers to authenticate each other using a pre-shared secret key, certificates, or username/password. When used in a multi-client-server configuration, it allows the server to release an authentication certificate for every client, using signature and Certificate authority. It uses the OpenSSL encryption library extensively, as well as the SSLv3/TLSv1 protocol, and contains many security and control features.

If Open the VPN for mPBX, mPBX can access to the company's branch, IP phones in the branch can register the accounts and make calls. But the server configuration, please consult the server vendors.

mPBX-100 and mPBX100R support Open VPN feature in version 2.13.0.87 and higher.
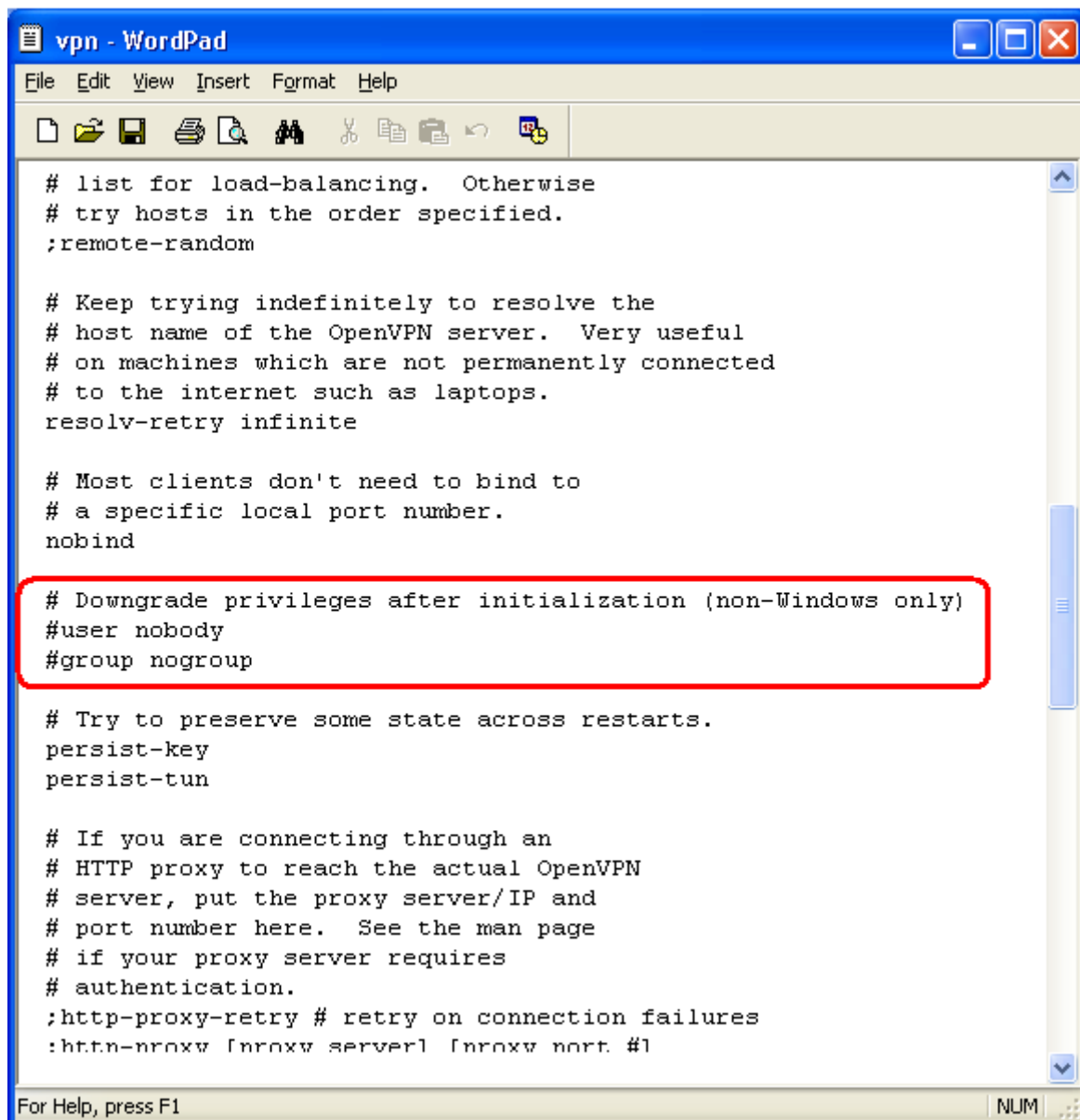
2. Settings

2.1 make OpenVPN file

Remark:

"VPN Config": For the VPN configuration, please consult your OpenVPN Provider. And you can also refer to the template file provided by Yeastar.

VPN Config: http://www.yeastar.com/tools/OpenVPNConfig.tar

Configuration file format: The file format must be .tar format. The file name of .rar file can use numbers, letters „_"and „.". The .tar file contains two certificates, one key and configuration file. All these info are given by your VPN service provider.

Since our mPBX is based on UC Linux, you should use .conf format client configuration file instead of .ovpn which is used on Windows OS.

NOTE: Do not use „user" and „group" in the client configuration file, or the OpenVPN will not work on mPBX. The following is the example:

```
# list for load-balancing.   Otherwise
# try hosts in the order specified.
;remote-random

# Keep trying indefinitely to resolve the
# host name of the OpenVPN server.  Very useful
# on machines which are not permanently connected
# to the internet such as laptops.
resolv-retry infinite

# Most clients don't need to bind to
# a specific local port number.
nobind

# Downgrade privileges after initialization (non-Windows only)
#user nobody
#group nogroup

# Try to preserve some state across restarts.
persist-key
persist-tun

# If you are connecting through an
# HTTP proxy to reach the actual OpenVPN
# server, put the proxy server/IP and
# port number here.  See the man page
# if your proxy server requires
# authentication.
;http-proxy-retry # retry on connection failures
;http-proxy [proxy server] [proxy port #]
```

2.2 Upload the OpenVPN file to mPBX:

1. Open the mPBX's web page;

2. The client-side configuration via web management „VPN settings->enable

VPN->browse", choose the file then click „import":

▶ **VPN Settings** ↻

VPN Settings

Enable VPN: ☑

Import VPN Config ⓘ : [_____] Procházet...

Import

✔ Save ✖ Cancel

If your OpenVPN can't work well on mPBX, please check if it can be used successfully on your Windows (Win2000/XP/Vista, if use OpenVPN on Win7, it should be run OpenVPN compatible with Win XP and as administrator) or Mac OS.