

<b>KB Name</b>	Endian VPN Keepalive modification		
<b>Type</b>	Config Example		
<b>Since revision</b>	NA		
<b>KB Number</b>	KB-0031-0	<b>Build</b>	3
<b>Mod date</b>	30. Jul 2009		

## Endian VPN Keepalive modification

### 1 Purpose

By default the Endian VPN server is configured with following parameters for the keepalive mechanism: keepalive 8 30

This means in fact that between eWON and the VPN server a Ping is executed every 8 seconds, if no packets have been sent during this time interval.

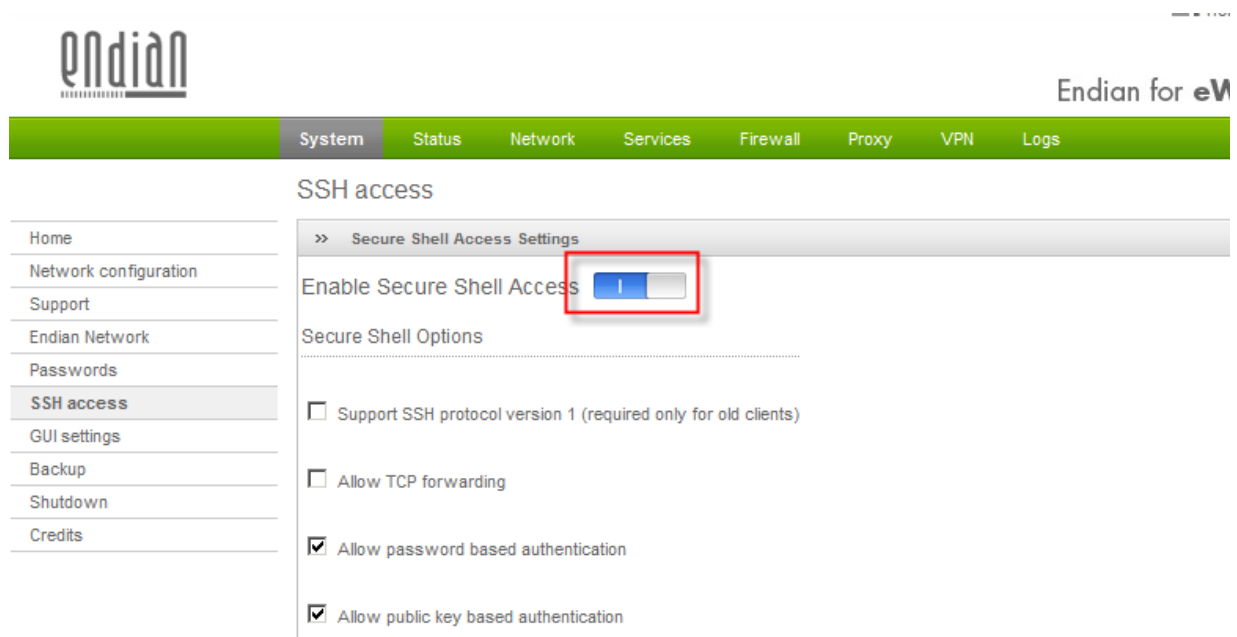
To reduce GPRS traffic, it is useful to increase the keepalive parameters on the Endian server.

This document explains how to proceed to change the keepalive setting of the Endian.

The eWON client will then also have its Keepalive parameters updated because those parameters are pushed to the VPN client during VPN connection initialization.

### 2 Connect to the Endian using the SSH access

First of all enable the Secure Shell Access on your Endian.



The screenshot shows the Endian VPN web interface. The top navigation bar includes 'System', 'Status', 'Network', 'Services', 'Firewall', 'Proxy', 'VPN', and 'Logs'. The 'SSH access' page is displayed, with a sidebar on the left containing links like 'Home', 'Network configuration', 'Support', 'Endian Network', 'Passwords', 'SSH access', 'GUI settings', 'Backup', 'Shutdown', and 'Credits'. The main content area is titled 'SSH access' and contains a sub-section 'Secure Shell Access Settings'. The 'Enable Secure Shell Access' toggle switch is currently turned on and is highlighted with a red rectangular box. Below this, under 'Secure Shell Options', there are four checkboxes: 'Support SSH protocol version 1 (required only for old clients)' (unchecked), 'Allow TCP forwarding' (unchecked), 'Allow password based authentication' (checked), and 'Allow public key based authentication' (checked).

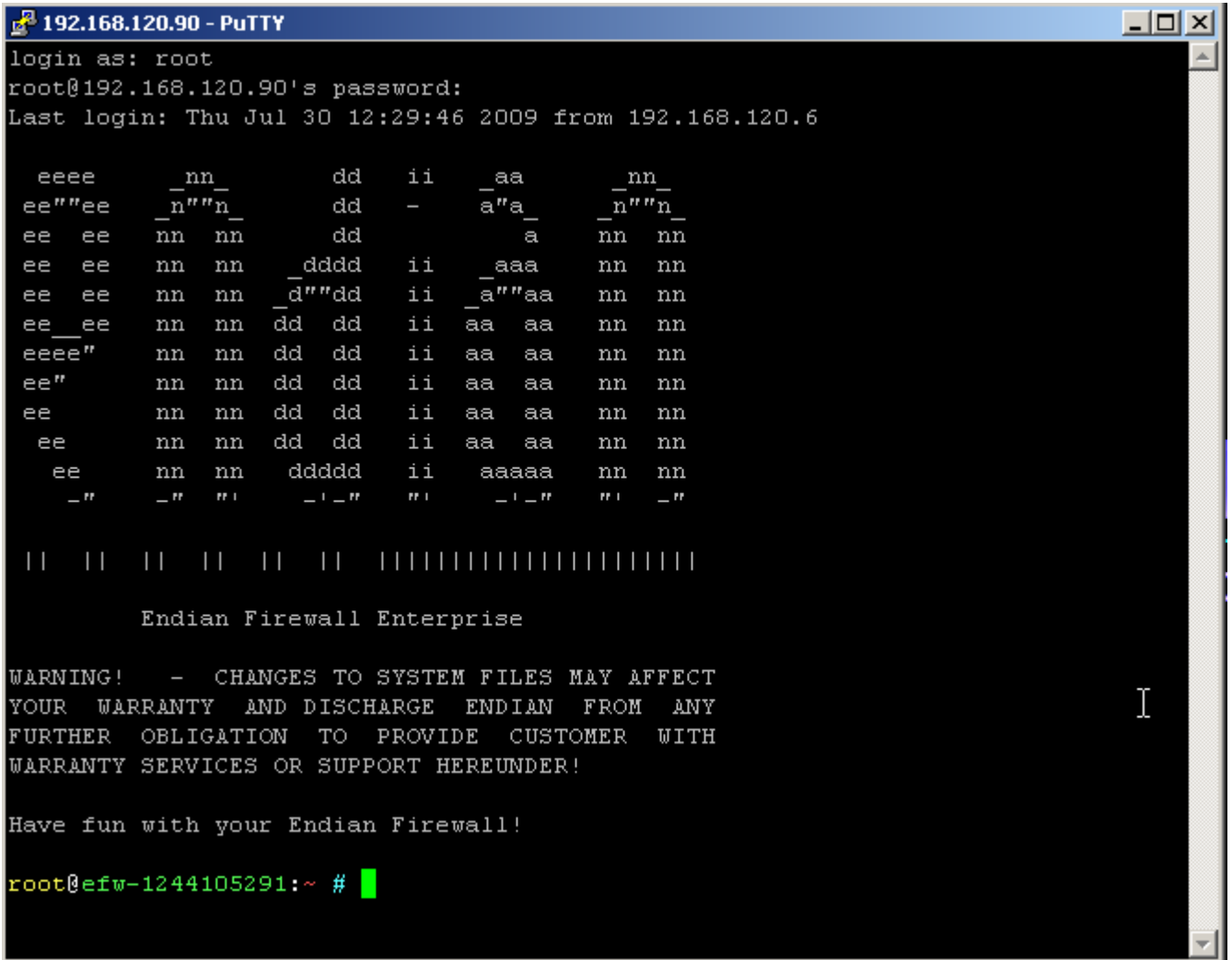
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### Knowledge Base Information

For security reason don't forget to deactivate this option after the VPN config modification.

Then connect to the Endian using a SSH client software (like PuTTY)

Default Username/Password (root/endan)



```

192.168.120.90 - PuTTY
login as: root
root@192.168.120.90's password:
Last login: Thu Jul 30 12:29:46 2009 from 192.168.120.6

  eeee      _nn_      dd   ii   _aa_      _nn_
ee""ee     _n""n_     dd   -   a"a_     _n""n_
ee ee     nn nn      dd      a      nn nn
ee ee     nn nn      dddd   ii   _aaa_   nn nn
ee ee     nn nn      d""dd   ii   _a""aa_ nn nn
ee__ee    nn nn      dd dd   ii   aa aa   nn nn
eeee"     nn nn      dd dd   ii   aa aa   nn nn
ee"       nn nn      dd dd   ii   aa aa   nn nn
ee        nn nn      dd dd   ii   aa aa   nn nn
  ee      nn nn      dddd   ii   aaaaa_ nn nn
   _"    _"  "!"    _!_"  "!"    _!_"  "!"

||  ||  ||  ||  ||  ||  ||||||||||||||||||||

      Endian Firewall Enterprise

WARNING!  -  CHANGES TO SYSTEM FILES MAY AFFECT
YOUR WARRANTY AND DISCHARGE ENDIAN FROM ANY
FURTHER OBLIGATION TO PROVIDE CUSTOMER WITH
WARRANTY SERVICES OR SUPPORT HEREUNDER!

Have fun with your Endian Firewall!

root@efw-1244105291:~ #

```

Type: `cd /etc/openvpn`

To check the actual VPN settings (like the Keepalive parameter) open the "openvpn.conf" file.

Type: `cat openvpn.conf`

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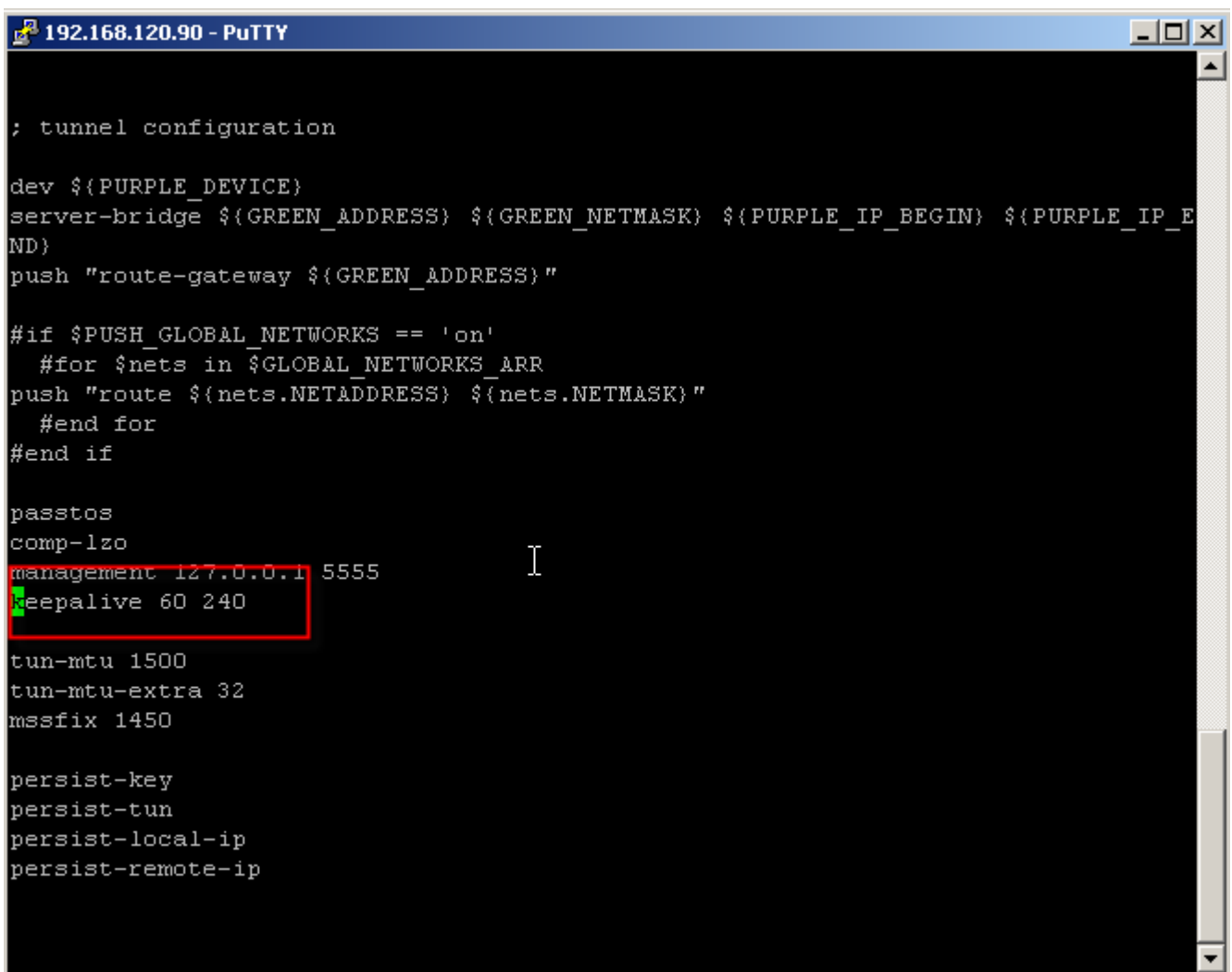
### Knowledge Base Information

To make a permanent change of the VPN parameters the "openvpn.conf.tpl" file must be modified.

Open the file for Edition

Type: `vi openvpn.conf.tpl`

Using the navigation arrows on the keyboard go to the "keepalive" parameter.



```

; tunnel configuration

dev ${PURPLE_DEVICE}
server-bridge ${GREEN_ADDRESS} ${GREEN_NETMASK} ${PURPLE_IP_BEGIN} ${PURPLE_IP_END}
push "route-gateway ${GREEN_ADDRESS}"

#if $PUSH_GLOBAL_NETWORKS == 'on'
  #for $nets in $GLOBAL_NETWORKS_ARR
push "route ${nets.NETADDRESS} ${nets.NETMASK}"
  #end for
#end if

passtos
comp-lzo
management 127.0.0.1 5555
keepalive 60 240

tun-mtu 1500
tun-mtu-extra 32
mssfix 1450

persist-key
persist-tun
persist-local-ip
persist-remote-ip

```

Push the "Insert" button to activate the Edit mode. Once finished the modification click "Esc" to disable the Edit mode and to able again to use the navigation arrows.

Save the modification and close the file.

Type: `:wq`

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Once you have completed the modify you must run following script and see from the debug messages if everything is fine.

Type: `"restartopenvpn.py -fid"`

Reboot the Endian to make sure that the modification will be also applied on the VPN clients.

Note: In case of openvpn package upgrade, the openvpn.conf.tpl file could be overwritten. So the changes must then be reapplied.