



7.3 Linux ??????????????

?????SoftEther VPN Server?? Linux ???Linux
??
?????Linux ??? TCP/IP ??????????
?????? (?????????) ?????????????????????????????

7.3.1 ??????

????????????????????????

?SoftEther VPN Server?? Linux ???Linux ??? 2.4 ???
???????????????????????? Linux ????????????? (???)

- **Red Hat Enterprise Linux AS / ES Version 4 / 5 (x86 ??? x64 ?)**
(?? Kernel 2.6.9-22 ?????????????????????)
- **Turbolinux 10 Server (x86 ??? x64 ?)**
(?? Kernel 2.6.8-5 ?????????????????????)
- **Fedora Core 4 ?? (x86 ??? x64 ?)?CentOS 4 ?? (x86 ??? x64 ?)**
(??)

????????????????????? [???](#) ???????????

??/usr/local/vpnserver/?????
?????????? ??? VPN Server ?????????????????????????

Red Hat Enterprise Linux AS / ES Version 4 / 5 ????????

????????????????????Red Hat Enterprise Linux AS / ES Version 4 / 5 ?????????????????????????????????
??

- Red Hat Enterprise Linux AS / ES Version 4 / 5 ?????????????????????????????????????
Linux ???
- ?????????????????????????????/usr/ ???
VPN Server ? /usr/local/vpnserver/ ????????????????????????? VPN Server ?????????
??
- ??? (????????)????????????????????????????
?????VPN Server ?????????? make ? gcc?binutils ??????????????libc (glibc)?zlib?
openssl?readline ??? ncurses ?????????????????? (devel ??????????????) ??????

- Red Hat Network Linux (Kernel 2.6.9-22) Red Hat Enterprise Linux AS / ES Version 4 VPN Server
- SELinux VPN Server

TurboLinux 10 Server

TurboLinux 10 Server

- TurboLinux 10 Server Linux
- /usr/ VPN Server ? /usr/local/vpnserver / VPN Server
- VPN Server make ? gcc?binutils ?libc (glibc)?zlib? openssl?readline ??? ncurses (devel) ?
- TurboLinux 10 Server Linux (Kernel 2.6.8-5) TurboLinux 10 Server VPN Server
- SELinux VPN Server

Fedora Core 4

Fedora Core 4 VPN Server Fedora Core 4 VPN Server

- Fedora Core 4 Linux
- /usr/ VPN Server ? /usr/local/vpnserver / VPN Server

- `make ? gcc?binutils ?libc (glibc)?zlib? openssl?readline ??? ncurses (devel) ?`
- `Linux ? VPN Server`
- `SELinux ? VPN Server`

7.3.2

[3.1](#) [3.2](#) SoftEther VPN Server 2 ?
 VPN Server
 Linux VPN Server
 Linux vpnservice

7.3.3

VPN Server ? Linux
 (7.3.1)

- `gcc`
- `binutils`
- `tar ? gzip`
- `chkconfig`
- `cat ? cp`
- `EUC-JP ? UTF-8`
- `libc (glibc)`
- `zlib`
- `openssl`
- `readline`
- `ncurses`
- `pthread`


```
[root@machine vpnserver]# make
./install.sh
```

Do you want to read the License Agreement for this software ?

- 1. Yes
- 2. No

Please choose one of above number:

1

??
???????????????????????????? SSH ???
???? Ctrl+C ?????? make ?????????????????? vpnserver ?????????????????????????????
????????????????????

??1???????????

EULA

Did you read and understand the License Agreement ?
(If you couldn't read above text, Please read License_ReadMe.txt
file with any text editor.)

- 1. Yes
- 2. No

Please choose one of above number:

1

??
??1??????????
???

Did you agree the License Agreement ?

- 1. Agree
- 2. Do Not Agree

Please choose one of above number:

1

?????????????????? vpnserver ??????????????????

```
make[1]: Entering directory `/root/vpnserver'
ranlib libssl.a
ranlib libcrypto.a
ranlib vpnserver.a
gcc vpnserver.a -pthread -lrt -lm -lz libssl.a libcrypto.a -lpthread -ldl
-lreadline -lcurses -o vpnserver
strip vpnserver
ranlib vpncmd.a
gcc vpncmd.a -pthread -lrt -lm -lz libssl.a libcrypto.a -lpthread
-ldl -lreadline -lcurses -o vpncmd
strip vpncmd
make[1]: Leaving directory `/root/vpnserver'

[root@machine vpnserver]#
```

????????????????????????vpnserver ??????????????????????????????7.3.1 ??????? ??
7.3.3 ????????????????????????? ?????????????????????????????????????

7.3.6 VPN Server ???

vpnserver ?????????????????????????????????????? vpnserver ?????????/usr/local/ ???????????
????????????????????? vpnserver ??????? /usr/local/ ??????????? ??????????????root????????
?????????????

```
[root@machine vpnserver]# cd ..
[root@machine root]# mv vpnserver /usr/local
[root@machine root]# ls -l /usr/local/vpnserver/
Total 13000
-rwxrwxrwx 1 root root 20245 12?Ž 8 16:14 License_ReadMeFirst.txt*
-rwxrwxrwx 1 root root 20317 12?Ž 8 16:14 License_ReadMeFirstSjis.txt*
-rwxrwxrwx 1 root root 30210 12?Ž 8 16:14 License_ReadMeFirstUtf.txt*
-rwxrwxrwx 1 root root 609 12?Ž 8 16:14 Makefile*
-rwxrwxrwx 1 root root 4018399 12?Ž 8 16:14 hamcore.se2*
-rwxrwxrwx 1 root root 1942994 12?Ž 9 02:23 libcrypto.a*
-rwxrwxrwx 1 root root 336070 12?Ž 9 02:23 libssl.a*
-rwxr-xr-x 1 root root 1814216 12?Ž 9 02:23 vpncmd*
-rwxrwxrwx 1 root root 1630858 12?Ž 9 02:23 vpncmd.a*
-rwxr-xr-x 1 root root 1814120 12?Ž 9 02:23 vpnserver*
```



```
[root@machine vpnserver]# ./vpncmd
vpncmd command - SoftEther VPN Command Line Management Utility
SoftEther VPN Command Line Management Utility (vpncmd command)
```

By using vpncmd program, the following can be achieved.

1. Management of VPN Server or VPN Bridge
2. Management of VPN Client
3. Use of VPN Tools (certificate creation and communication speed measurement)

Select 1, 2 or 3: 3

VPN Tools was launched. By inputting HELP, you can view a list of the commands that can be used.

```
VPN Tools>check
```

```
Check command - Check if SoftEther VPN Operation is Possible
```

```
-----
SoftEther VPN Operation Environment Check Tool
```

If this operation environment check tool is run on a system and that system meets the requirements, it is highly likely that SoftEther VPN software can operate on that system. This check may take a while. Please wait...

```
Checking 'Kernel System'...
```

```
[Pass]
```

```
Checking 'Memory Operation System'...
```

```
[Pass]
```

```
Checking 'ANSI / Unicode string processing system'...
```

```
[Pass]
```

```
Checking 'File system'...
```

```
[Pass]
```

```
Checking 'Thread processing system'...
```

```
[Pass]
```

```
Checking 'Network system'...
```

```
[Pass]
```

All checks passed. It is highly likely that SoftEther VPN Server / Bridge can operate normally on this system.

```
The command terminated normally.
```

```
VPN Tools>exit
```

```
[root@machine vpnserver]#
```


check SoftEther VPN Server /
Bridge VPN Server
VPN Server

7.3.1
7.3.3

7.3.8

vpnservice /usr/local/vpnservice/
vpnservice Linux
vpnservice ?

vpnservice Linux /etc/init.d/vpnservice
()?

```
#!/bin/sh
# chkconfig: 2345 99 01
# description: SoftEther VPN Server
DAEMON=/usr/local/vpnservice/vpnservice
LOCK=/var/lock/subsys/vpnservice
test -x $DAEMON || exit 0
case "$1" in
start)
$DAEMON start
touch $LOCK
;;
stop)
$DAEMON stop
rm $LOCK
;;
restart)
$DAEMON stop
sleep 3
$DAEMON start
;;
*)
echo "Usage: $0 {start|stop|restart}"
exit 1
esac
exit 0
```

????????????????? /etc/init.d/vpnserver ?????????????????????????????????????cat ?????????
 ??? Ctrl+D ??????????

```

[root@machine vpnserver]# cat > /etc/init.d/vpnserver
#!/bin/sh
# chkconfig: 2345 99 01
# description: SoftEther VPN Server
DAEMON=/usr/local/vpnserver/vpnserver
LOCK=/var/lock/subsys/vpnserver
test -x $DAEMON || exit 0
case "$1" in
start)
$DAEMON start
touch $LOCK
;;
stop)
$DAEMON stop
rm $LOCK
;;
restart)
$DAEMON stop
sleep 3
$DAEMON start
;;
*)
echo "Usage: $0 {start|stop|restart}"
exit 1
esac
exit 0
  
```

/etc/init.d/vpnserver ???root ?????????????????????
 ?????????????????

```

[root@machine vpnserver]# chmod 755 /etc/init.d/vpnserver
  
```

?????chkconfig???????????????????????????????????? Linux ???

```

[root@machine vpnserver]# /sbin/chkconfig --add vpnserver
  
```

?? VPN Server ???

7.3.9 ????????????

???????????????? VPN Server ??Linux ????????????????? Linux ?????????????????????????????
????????????VPN Server ???

???????????????? VPN Server ?????????????????????????????????

VPN Server ?????????????????

VPN Server ?????????????????root ?????????????????VPN Server ?????????????

```
[root@machine vpnserver]# /etc/init.d/vpnserver start
```

VPN Server ?????????????????

VPN Server ?????????????????root ?????????????????VPN Server ?????????????

```
[root@machine vpnserver]# /etc/init.d/vpnserver stop
```

VPN Server ?????????????????

VPN Server ???

- ???
- VPN Server ?????????????????vpnserver ?????????????????????????????????
(vpnserver?vpncmd ?? hamcore.se2 ??????????????????????????????????????)?
- ??? VPN Server ?????????????????????????????????

vpnserver ????????????

??VPN Server ?????????????????????????????
???? VPN Server ?????????????????????????????vpnserver ?????????????????????????????????
????vpnserver ?????????????????????????????[3.2.2](#) ????????? ? ?kill????????????????????

7.3.10 ????????????????????

Linux ? VPN Server ???
????????????????????? ?./**vpnservice start**?????? VPN Server ?????????????????????????
Windows ?????????????????????? vpnservice ???
?? VPN Server ??

- ???????????(???? [3.6](#) ?????????? ??????????) ????????????
- ?????????????????????????? vpnservice ??