



3.4 ?? HUB ???

SoftEther VPN Server ??????? HUB ????????????????? HUB ??????????????? VPN ?
?????????? 2 ????????????????? HUB ??????????? HUB ?????????????????????????
HUB ??? HUB ?????????????????????????????

3.4.1 ?? HUB ???

SoftEther VPN Server ????????? HUB ????????????????? HUB ?????????????????????VPN
Server ???????????VPN Server ??? HUB ??????????? HUB ????????? HUB ?????????????
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????? HUB ??????????VPN ?????????????? [?? HUB ??] ?????????????????? HUB ??????
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????????????????? (?????????????)???????????????????????????????????? HUB ??????
HUB ?????????????????????????

?vpncommand?????HubCreate???????????????????????? (3.9 ????????) ?????????
?????HubCreateDynamic?????????HubCreateStatic????????????????

3-4-1.png

?? HUB ???????

	?? HUB ??? HUB ??????????? VPN ?? ?? HUB ??? VPN ???????????? ???????????????? HUB ????? VPN ????????????????? HUB ????????????????????? ??
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?? HUB ??????????????VPN ?????????????? [?? HUB ??????] ???[?? HUB ???] ? [?????] ?
?? [?????] ??????????????????????vpncmd?????**Online**????????? **Offline**?????????????

3.4.3 ????????

?? HUB ??? HUB ??????????
?? VPN ?????????????????? (?????????????????????????????????)

?? (?????????????????????????????)??SecureNAT ???
????????????????? 3 ????????????????????????????????? HUB ??????????????VPN Server / VPN Bridge
/ VPN Client ?????????????????????? VPN ?????????????????????????

?????????????????????VPN ????????????????? [?? HUB ??????] ???[????????????????????] ??????
????????[????????????????] ?????????????????????????????vpncmd?????**SetMaxSession**????????????
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3-4-3.png

?? HUB ?????????????????????????

???? HUB ??? HUB ????????? max_sessions
?????max_sessions_client ?????????? max_sessions_bridge ?????????????????????????????????
??????????????? [3.5 ?? HUB ?????????? ????????????](#)

3.4.4 ????????

?? HUB ??????VPN ?????????????????????????????????[1.6 VPN ??????](#) ?????????????????????????
????????????????? / ?????????????????? 2 ??????????

3.4.5 ???????

?? HUB ?????????? VPN ???
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?? HUB ??????? VPN ???VPN ???????????????????
[?????????] ??vpn cmd?????????? **SessionList**??????????????????
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??[????????] ?????????????????????????????????????
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3-4-4.png

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???????	????????? HUB ??????????????? ID ?????????? "SID-" ?????????????????? ????????????????????????????????

??	????????????????????[????????] ????????????????????????????????? ??
?????	<p>?? VPN ????????????????????? ??<u>2.2</u> ??? (*' ??? ?) ??? Radius ????????????????????? NT ????????????????????? ?? ??</p> <p>?? VPN ?????????????????????VPN Server ?? ??</p> <ul style="list-style-type: none"> • Local Bridge ?? • Cascade ???????????????????? (????????????????????????) ????????????????????? • SecureNAT ?SecureNAT ????????????????????????????? • L3SW ???????? 3 ?????????????????????????????????
?????????	VPN ????????????????????? VPN ???VPN ????????? ?? DNS ?????????????????????IP ?????????????????????
TCP ??????????	VPN ????????????????????? VPN ??? VPN ????? ????????????????????TCP/IP ???TCP/IP ????????????????????? <u>2.1</u> VPN ?????????????????????????????
?????????	VPN ??? Ethernet ?????????????????????????????????
?????????	VPN ??? Ethernet ?????????????????????????????????

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??[????] ???VPN
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?? 7 ?????????

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3-4.ht1.gif	???????????? VPN ????????? (??? VPN ??? / ?????? ????????????????????????) ?????????????????
3-4.ht2.gif	?????? / ?????????????????????????
3-4.ht3.gif	????????????????????????????????
3-4.ht4.GIF	????????????????????????????????
3-4.ht5.GIF	????????????????????????????????
3-4.ht6.GIF	?SecureNAT ?????????????????????????

??????	???????????? ID ???????
??????? (160bit)	VPN Server ????????????????????????????????? ID ???????
???? / ??????	???????????? / ?????????????????????
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??????????	SoftEther VPN ?????????VPN ????? VPN Server ????????????????? ?? (???????????? IP ?????????????????) ???????
??????????	SoftEther VPN ?????????VPN Server ?? VPN ????????????????????? ?? (???????????? IP ?????????????????) ???????
?????	??????? Ethernet ??? (????????? ????)?
??????????	VPN ?????????????????????????
??????????????	VPN ?????????????????????????
?????? OS ? / ??? ??	VPN ???
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??????????????	VPN ?????????????????????????????????????TCP/IP ???????????????
??????????	VPN ???
???? IP ????	VPN ???IP ???????????????
??????????	VPN ???
??????????????	VPN ??????????? VPN ??? ????????????????
?????? IP ????	VPN ??????????? VPN ??? ? IP ???????????????
??????????????	VPN ??????????? VPN ??? ? TCP/IP ?????????????????

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?? HUB ???VPN ?????????????????
???????????? [??] ??????????????????vpnncmd?????SessionDisconnect????????????

3.4.6 MAC ????????

?1.6 VPN ?????? ?????????????? HUB ?????? MAC ?????????????????????????????????
???????????????? Ethernet ????????????????????? HUB ?????????? HUB ? MAC ??????
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?? HUB ? MAC ????????????

?VPN ????????????? [????????] ???[MAC ?????????] ?????????????MAC ??????????
?????????vpnncmd?????MacTable????????????????????

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3-4-6.png

MAC ?????????????

MAC ????????????? (MAC ?????????) ?????????????????????

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MAC ????	MAC ?????????????MAC ??????????
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??	????????????? MAC ????????????????? VPN Server ?????????????????

?? HUB ? MAC ?????????????

????????????????? HUB ????????? MAC ?????????????????????????????MAC ?????????????????
?????VPN ????????????????? MAC ?????????????????[????????????] ??????????????????vpn cmd??
??**MacDelete**?????????????????????????

?? HUB ? IP ???????????

?VPN ?????????? [?????] ???[IP ?????????] ??????????IP ??????????????
??vpncmd????IpTable????????????????

???????????????? IP ??? IP ??????
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3-4-8.png

IP ????????????

IP ????????????? (IP ??????) ?????????????????

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??????	IP ?????????????????????????????????
IP ????	IP ?????????????IP ?????????? ??IP ????????? "(DHCP)" ????????????????? IP ??????VPN ? ? DHCP ????????????? IP ?????????????
?????	IP ?????????????????????????????????
?????	?? HUB ????????????????? IP ????????????????????????????? ????????[????] ?? 60 ????? IP ?????????????????????????
??	???????????? IP ????????????? VPN Server ?????????????

?? HUB ? IP ????????????

?????????????? HUB ??????? IP ?????????????????????????????????IP ?????????????????????
?VPN ?????????????? IP ?????????????? IP ??????????????[????????????] ?????????????????
?vpn cmd?????IpDelete????????????????????

???????????????????? IP ???????????????????

?VPN ?????????????? [????????] ?????????????????????????????????[???????? IP ???] ?????????????????
???????????????? IP ??? IP ???????
???????????? IP ???vpn cmd?????IpTable????????????????
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???????????????????????????????? VPN ????????????????????? (????????) ????????????? IP ???
?? 2 ??????? HUB ??????? IP ?????????????????????????
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[3-4-9.png](#)

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3.4.8 IP ???????????????????

?? HUB ? 3.4.7 ??????? IP ????????????????????????????????????? IP ?????????????????????
????????????IP ????????????????????? IP ?????????? HUB ?????????? 2 ?????????????????????

???????? HUB ??? 2 ?????????????
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3-4-10.png

?? HUB ??????????

?? HUB???????????????????????? HUB?? 2 ??? HUB ?
?? HUB ??? VPN ?????
?? (??? / ??????????) ??? VPN Client ?????? HUB ?? VPN ?????????????????
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3-4-11.png

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?? HUB ????? HUB ?????????????????????VPN ????????????? [????????] ?????????
?????["? HUB ?" ?????????] ????????????????????? [????] ????????????????? VPN ???
???????????? HUB?? TCP/IP ?????????
HTTP ????????? SOCKS ????????????????? VPN ?????????????

??VPN Client ???
????????????[4.4 VPN Server](#) ?????????????????????????

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?? HUB ????????????????????????? HUB ????????????????????? ????????????????? ? VPN Server ??? HUB ??? ?? VPN Server ??? HUB ? VPN Bridge ????????????????????? VPN Server ??? HUB ????????? ????????????VPN Bridge ? "BRIDGE" ????????? HUB ?????????????????????????????????VPN Bridge ????????????? VPN ????????????????????? ???????????????? HUB ??? ????? HUB ???

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?? HUB ???
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[?????] ?????????????????

?? HUB ?????????????????????????????????????
????? VPN Server ??? HUB ???[??] ? [???? (???)] ??????
????????????????????????[??] ???
???????????????????? [??] ????????????????????????????????????? [????] ?????????????????????

?[2.1 VPN ????????](#)? ??????VPN ?????????? VPN ???
????? VPN ??????????????????????VPN ??????????????????????10 ?? 1 ????????????????????????????? HUB
???????????????????? HUB ???

?? VPN Server ????????????????????? HUB ?????????????????????
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????????????????????HUB????????????????????????????????????[3.10 ????????](#)? ??????????

3-4-13.png

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???????????????? HUB ????????????????????? Ethernet ?????????????????????
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???????????????? HUB ????????????????????? Ethernet ?????????????????????
???????????????????? [????????????] ?????????????????????????????????

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3-4-14.png

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?? HUB ?????? **128** ??? 1 ??? HUB ??????
??????????

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??VPN ?????????????? ["?? HUB ?" ???
?????] ?????????????????[??] ???
?????VPN Client ? VPN ???[4.5 VPN Server](#)
[?????](#) ????????????

???????????????????? / ????????????????????? HUB ?????????????????
???????????????? [????????] ?????????????????????????????????3.4.5 ??????????

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?? SoftEther VPN ?????????????????????????????
????????????????????????????????????

- ????????????????????? VPN ?????????????????????????????????????
???????????????? 3 ??? HUB ????????????????????????????? LAN ?????????????????
???????????? HUB ????????????????????? 2 ?????????????????????????????
?? 2 ?????????????????????????????
- ?????????????????SoftEther VPN Server ?????????????????????????????
- ????????????????? HUB ???
HUB ???
- ?????????????????????????????VPN Client ??? VPN ?????????????????????????
???????????? VPN Client ?????????????????????????????

vpncmd ?????????????????????????????????

?vpncmd??VPN ?
???????????? GUI ?????????????????vpncmd????????????????vpncmd????????????????
????[6.4 VPN Server / VPN Bridge ?????????????? \(?? HUB ?\)](#) ??????????

3.4.12 ?????????????????????

????????????????[2.3 ??????](#) ??? VPN Client ?????????????
???????????????????? VPN Server ?????????????????????????????????????

???????? VPN Server ????????????????????????????????????? [????????] ????????? X.509 ???
?? HUB ? [????????????]
???????????? (????????) ??????????

SoftEther VPN Bridge ??? HUB ("BRIDGE" ??????????????) ???SoftEther VPN Server ?? SoftEther VPN Bridge ?? ???????

3.4.13 ?????????????????

?[1.4 VPN ??????????](#) ?????????????????????????????????SoftEther VPN Server ?????????????????
???????????????? HUB ????????????????? HUB ? VPN Server ????????????????????? LAN ?????
??[3.6 ??????????](#) ??????????

3.4.14 Administrator ?????????

?? HUB ??? (???????????????? 3.5.4 ??????????)?????? HUB ???
?????????? VPN ????????????? HUB ????????????? HUB ???

???????? HUB ????????????????????????????????????? HUB ????????????? **Administrator**??????????????
? HUB ????????????????? VPN ????????????????? VPN ??????? HUB ??????? 1 ?????????????????
???????????????? HUB ????????????????????????????????????? HUB ????? VPN ????????????? (VPN
Client ??????????????VPN Server / VPN Bridge ??????????????????)?

????Administrator?? HUB ?????????????????

?Administrator???????? HUB ? VPN ???

- [????????????????????] ???
- [????????????????] ???

?? (3.5 ?? HUB ?????????? ??????????) ??????
?????

????????Administrators???????? HUB ? VPN ???[????????
?] ??????? VPN ?????????????????

3.4.15 ?? HUB ???????

?? HUB ????????? HUB ????????????????????????????????? HUB ????????????????????? HUB ??????? [?
??? HUB ???????] ????????????????? [?????????] ????????????????? HUB ?????????????????????????
???

?vpncommand????**StatusGet**???????????????? HUB ?????????????????

?? HUB ????????

3.4.16 ?????? HUB ??????

?? HUB ?????????VPN Server ???
 ???

????????????????? false ??????????true ?????????????VPN Server ?????????????VPN Server ??
 ?????????? vpn_server.config ?? [VirtualHUB] [?? HUB ?] [Option] ?????????????????????

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NoIpTable	????? true ???IP ?????????? HUB ????????????????????? HUB ??? IP ?????????????????????????????????????
ManageOnlyPrivateIP	????? true ???IP ????????????????? IP ????????????????????? ????? IP ?????? IP ??????????????????
FilterPPPoE	????? true ?????? HUB ????????? PPPoE (PPP over Ethernet) ?? ?????????
FilterOSPF	????? true ?????? HUB ????????? OSPF (Open Shortest Path First) ??????????????

YieldAfterStorePacket	???? true ????? HUB ??? ?? CPU ????????????????????? ???????????????????????????????????? true ???
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