



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

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

3-4-1.png

?? HUB ???????

3.4.5 ???????

?? HUB ????????? VPN ???
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?? HUB ??????? VPN ???VPN ?????????????????
[????????] ???
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??[????????] ?????????????????????????????????
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[3-4-4.png](#)

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

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

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

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

?? 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 ?????????????????????
???????????? 2 ???

[3-4-9.png](#)

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

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

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

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

[3-4-13.png](#)

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

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

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 ?????????????????????????
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?vpn cmd????**StatusGet**???????????????? HUB ?????????????????????

?? HUB ????????

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

?? HUB ??????????VPN Server ???
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????????????????? 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) ?????????????? |

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|------------------------------|--|
| YieldAfterStorePacket | ???? true ????? HUB ??? ?? CPU ????????????????????? ???????????????????????????????????? true ??? |
|------------------------------|--|