



???????? (ChangeLog)

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

[PacketiX VPN 4.0](#) (?????????????????) ?????SoftEther VPN 4.0 ??????????????????

[???????????????????? \(SoftEther VPN ??????????\)](#)

[???????????????????? \(PacketiX VPN ???\)](#)

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

???: Beta ???RTM ?????????????????????????

- [SoftEther VPN ??????? GPLv2 ?? Apache License 2.0 ????????????? \(2019/01/21\)](#)
- **????????: SoftEther VPN 4.28 Build 9669 Beta (2018/09/11)**
???: PacketiX VPN 4.28 Build 9669 Beta
 Windows XP ????????????????? IPsec IKE MD5 ????????????????? VPN Server ???
 ?????????????????????????????
 Windows XP ????????????????? SHA-256 Authenticode ?????????????????
 VPN Server ?????????????????
 SecureNAT ????? TCP/IP ?????????????
 VPN Client ?????????????????
 Linux x86 ??? x64 ????? Makefile ???Ubuntu 18.04 ?????????????????????
 ???"-no-pie" ?????????????????
- **????????: SoftEther VPN 4.27 Build 9668 Beta (2018/05/29)**
???: PacketiX VPN 4.27 Build 9668 Beta
 Ubuntu Linux ??? make ?? "-fPIC" ?????????????????
- **????????: SoftEther VPN 4.27 Build 9666 Beta (2018/04/21)**
???: PacketiX VPN 4.27 Build 9666 Beta
 Windows 10 Spring Creators Update (???? 1803) ?????LTE ??? 3G ?????????
 ?????????????????VPN Client ??? LAN ?????????????????????(LTE ??? 3G ?
 ?????????????????????VPN Client ? Build 9666 ????????????????? LAN ?????????
 ?????????????????)
 ?? LAN ???
 ?? LAN ??? MAC ????????? 00-AC-xx-xx-xx-xx ??
 5E-xx-xx-xx-xx-xx ???
 ???
 Windows ? VPN ?????????????LoadLibrary ? DLL ?????????????????????????????
 ??? DLL ?????????????????????????????????????

??: ??????Herman Groeneveld, aka
Sh4d0wman ????????????????

- **?????????: SoftEther VPN 4.25 Build 9656 RTM (2018/01/15)**
????: PacketiX VPN 4.25 Build 9656 RTM
????????????????????????????
????????????????[????????????????????](#) (Max Planck Institute for Molecular Genetics)
?????PacketiX VPN ?????????? SoftEther VPN ?????????????????????????????????????
?????????????????????????????????????Guido Vranken ??????????
??? VPN ?????????????????????????????????
????????????????? VPN ??????????????????????VPN ?????????????????? (???) ??????????????
????
7 ???
??
??
- Buffer overread in ParseL2TPPacket()
- Memory corruption in IcmpParseResult
- Missing bounds check in ParseUDP() can lead to invalid memory access
- Out-of-bounds read in IPsec_PPP.c (unterminated string buffer)
- Overlapping parameters to memcpy() via StrToIp6()
- PACK ReadValue() crash vulnerability
- Potential use of uninitialized memory via IPToInAddr6()
4 ?????????? (?????????????????????????) ???
??
- Memory leak in NnReadDnsRecord
- Memory leak in RadiusLogin()
- Memory leak via ParsePacketIPv4WithDummyMacHeader
- Remote memory leak in OpenVPN server code
?????????:
??? X.509 ??????????????????Alternative Subject Name ??????? DNS ??????????????????
?????
Windows ???

- **?????????: SoftEther VPN 4.24 Build 9652 Beta (2017/12/21)**
????: PacketiX VPN 4.24 Build 9652 Beta
Build 9647 ??? 9651 ??????????L2TP/IPsec ? Android Oreo ?????????????????????????
?????????????????DNS ??????????????????????????????

- **?????????: SoftEther VPN 4.24 Build 9651 Beta (2017/10/23)**
????: PacketiX VPN 4.24 Build 9651 Beta
Build 9647 ??????????OpenVPN Server ??????????????????????????

- **?????????: SoftEther VPN 4.23 Build 9647 Beta (2017/10/18)**
????: PacketiX VPN 4.23 Build 9647 Beta
OpenSSL ?????????? 1.0.21 ??????????????

?????? OpenSSL 1.1.x ???TLS 1.2 ?????????? DHE-RSA-
CHACHA20-POLY1305, ECDHE-RSA-CHACHA20-POLY1305 ?????(????
?????????OpenSSL 1.1.x ??????????????????)
TrafficServer / TrafficClient ?? (?????) ??????????RSS ????? NIC ???
10Gbps ??????????????
SSL ?????????????????? RC4-MD5 ?? AES128-SHA ???
TCP MSS Clamp ?????????????????????????????????????
SecureNAT ????????????? NAT ?????? DHCP ?????????????????????
USB ????????????? CryptoID ?????????????????????? DLL ??????????API????????????
??
Mac OS X ??????Select ?????????? INFINITE ??? CPU ?????????????????????
Syslog ?????? RFC3339 ?? StrictSyslogDatetimeFormat ???
ServerConfiguration ???
UI ?????????????????
[Using client parameter in function CtConnect](#)
[Remove blank line at the start from init file \(Debian\)](#)
[Stop Radius Delay from counting to next_resend](#)
[Add DH groups 2048,3072,4096 to IPsec IKE](#)
[Add HMAC SHA2-256, HMAC SHA2-384, HMAC SHA2-512 support](#)
[Openvpn extend ciphers](#)
[Fixed RSA key bits wrong calculation for certain x509 certificate](#)
[Added support for RuToken USB key PKCS#11](#)
[OpenSSL 1.1 Port](#)

- **?????????: SoftEther VPN 4.22 Build 9634 Beta (2016/11/27)**
???: PacketiX VPN 4.22 Build 9634 Beta
TLS 1.2 ???TLS 1.2 ??????????AES128-GCM-SHA256?AES128-SHA256?
AES256-GCM-SHA384?AES256-SHA256?DHE-RSA-AES128-GCM-
SHA256?DHE-RSA-AES128-SHA256?DHE-RSA-AES256-GCM-SHA384?
DHE-RSA-AES256-SHA256?ECDHE-RSA-AES128-GCM-SHA256?ECDHE-
RSA-AES128-SHA256?ECDHE-RSA-AES256-GCM-SHA384???ECDHE-
RSA-AES256-SHA384 ??????
?? TLS ????????? / ??????????????????????VPN Server ??????????
Tls_Disable1_0?Tls_Disable1_1 ??? Tls_Disable1_2 ?????????????????? TLS ?
????????????????????
OpenVPN ? TLS 1.2 ?????????????????????????
OpenSSL ??????? 1.0.2j ?????????????
Windows Server 2016 ?????????
2038 ?????????????
???????? HTTPS ????????????? SNI ?????????????????
RADIUS ?????????? "Called-Station-ID (30)" ?????? ?? HUB ?????????????????
????????
????? 3 ??????????????ARP ?????????? 1 ??????
Windows 10 ? VPN Server ?????????????????
????????????? RSA ?????? 4096 bit ??????????

USB CryptoID
UI
[Fix that ParseTcpOption doesn't work correctly](#)
[Add LSB header](#)
[Support Debian package build on aarch64 architecture](#)
[Support Debian package build on ARMv7l architecture](#)
[cppcheck issues](#)
[Default to TLS connections only](#)
[Allow specific SSL/TLS versions to be disabled](#)
[Adding Radius AVP Called-Station-Id](#)
[Fixed typo](#)
[Update CentOS makefiles and spec file](#)
[Systemd service configuration files for SoftEther](#)
[Fix set initialization, set.OnlyCapsuleModelsInvalid could be garbage](#)
[Fixed OSX CPU utilization by replacing broken kevent\(\) with select\(\)](#)
[Add the possibility to send the Virtual Hub Name to an external DHCP server](#)
[Added armv5tel for debian/rules and made pushed routes work correct with OpenVPN](#)
[fix LogFileGet won't save to SAVEPATH](#)
[Fix for Debian Package](#)
[Try to autodetect OS and CPU instead of requiring user input](#)
[Support For Radius Realm](#)

- **SoftEther VPN 4.21 Build 9613 Beta (2016/04/24)**
[SoftEther VPN Server Manager for Mac OS X](#)
SoftEther VPN Server Mac
???
- **SoftEther VPN 4.20 Build 9608 RTM (2016/04/18)**
PacketiX VPN 4.20 Build 9608 RTM
???
- **SoftEther VPN 4.19 Build 9605 Beta (2016/03/06)**
PacketiX VPN 4.19 Build 9605 Beta
OpenSSL 1.0.2g
OpenSSL SSLv2 ?
VPN TCP IP IP
???
- **SoftEther VPN 4.19 Build 9599 Beta (2015/10/19)**
PacketiX VPN 4.19 Build 9599 Beta
Windows 10 VPN Server VPN Bridge
???

vpnconfig "TrafficServer" /NOHUP /dev/null &&
vpnconfig /REDIRECTURL /dev/null &&
vpnconfig /dev/null &&
vpnconfig ACL /dev/null &&
vpnconfig Win10Pcap /dev/null && Meysam Firozi

- **SoftEther VPN 4.19 Build 9582 Beta (2015/10/06)**

PacketiX VPN 4.19 Build 9582 Beta

YAMAHA RTX L2TPv3 over IPsec

[YAMAHA RTX](#)

Linux SecureNAT NAT Linux (VM) Ethernet (?? Amazon EC2/AWS ? Windows Azure ???) SecureNAT TCP/IP SecureNAT RAW IP RAW IP Linux VPN Server ? root RAW IP NAT RAW IP RAW IP TCP, UDP ?? ICMP NAT NAT RAW IP Linux NAT iptables HUB DisableIpRawModeSecureNAT ? 1 RAW IP

SecureNAT SecureNAT

L2TP VPN

Cisco 800 (? : Cisco 841M) L2TPv3 over IPsec Cisco L2TPv3 SoftEther VPN Server

EAP ?? PEAP RADIUS RFC3579 (EAP) ?? Protected EAP (PEAP) ?? MS-CHAPv2 L2TP VPN MS-CHAPv2 RADIUS EAP ?? PEAP HUB MS-CHAPv2 EAP vpn_server.config RadiusConvertAllMsChapv2AuthRequestToEap true MS-CHAPv2 PEAP vpn_server.config RadiusConvertAllMsChapv2AuthRequestToEap RadiusUsePeapInsteadOfEap true

- **SoftEther VPN 4.19 Build 9578 Beta (2015/09/15)**

Windows 10

- **SoftEther VPN 4.18 Build 9570 RTM (2015/07/26)**

PacketiX VPN 4.18 Build 9570 RTM

[Windows 10 ????????](#)

lang.config ?????????????????????? VPN ??????????????????????
lang.config ??????????????????????

- **?????????: SoftEther VPN 4.17 Build 9566 Beta (2015/07/16)**
???: PacketiX VPN 4.17 Build 9566 Beta
Windows 10 ??????????????????
OpenSSL ?????????? 1.0.2d ??????????
- **?????????: SoftEther VPN 4.17 Build 9562 Beta (2015/05/30)**
???: PacketiX VPN 4.17 Build 9562 Beta
Windows 10 Technical Preview Build 10130 ??????
Ethernet ?????????? 1560 ?? 1600 ??????
????????? Windows ??????????????????
??
PacketiX VPN Client 3.0 ?? PacketiX VPN Server 4.0 ??????????????????????
?????
VPN Client ? VPN ???
?????
Windows ?????????????????????? SHA-256 ??????????????????????
- **?????????: SoftEther VPN 4.15 Build 9546 Beta (2015/04/05)**
???: PacketiX VPN 4.15 Build 9546 Beta
Windows 10 Technical Preview Build 10049 ? VPN Server / VPN Bridge ??????
?????????????????????????????
- **?????????: SoftEther VPN 4.15 Build 9539 Beta (2015/04/04)**
???: PacketiX VPN 4.15 Build 9539 Beta
VPN Client ?????? Windows ?? VPN ??????????
??????
- **?????????: SoftEther VPN 4.15 Build 9538 Beta (2015/03/27)**
???: PacketiX VPN 4.15 Build 9538 Beta
Windows 10 Technical Preview Build 10041 ?????????????????????????????????
- **?????????: SoftEther VPN 4.15 Build 9537 Beta (2015/03/26)**
???: PacketiX VPN 4.15 Build 9537 Beta
?????? OpenSSL ??????? 0.9.8za ?? 1.0.2a ??????????????
???: ???
????????????????????
- **?????????: SoftEther VPN 4.14 Build 9529 Beta (2015/02/02)**
???: PacketiX VPN 4.14 Build 9529 Beta
???????????????????? 4.13 (Beta) ?? L2TP ?????????????????????????? Build
9514 ? 9524 ????????????????????? (????????????????????) ?????????????????????

4.13 L2TP IP HUB "NoPhysicalIPOnPacketLog" "1"

• **SoftEther VPN 4.13 Build 9524 Beta (2015/01/31)**

PacketiX VPN 4.13 Build 9524 Beta

Linux ? VPN Server Ethernet ?
1 Ethernet 1
HUB SecureNAT_RandomizeAssignIp 1 (?)
SecureNAT DHCP DHCP IP IP
HUB DetectDormantSessionInterval 0
VPN (???) VPN
HUB
OpenSSL ? SHA() SHA() C
OpenSSL ? SHA()
Windows 10 Technical Preview ? OS

• **SoftEther VPN 4.12 Build 9514 Beta (2014/11/17)**

PacketiX VPN 4.12 Build 9514 Beta

VLAN ID IEEE802.1Q L2
HUB VPN VLAN ID
VPN RADIUS RADIUS VLAN
RADIUS "Tunnel-Pvt-Group-ID" (ID = 81)
HUB
?AssignVlanIdByRadiusAttribute?
vpn_server.config OpenVPNDefaultClientOption
OpenVPN Client --enable-small
OpenVPN Client
VPN Server OpenVPN Client
DHCP 255
Linux resolv.conf
VPN
3 UDP
NAT (NAT)

• **SoftEther VPN 4.11 Build 9506 Beta (2014/10/22)**

PacketiX VPN 4.11 Build 9506 Beta

[SSLv3 POODLE](#) SoftEther VPN Server / PacketiX VPN Server ?
vpn_server.config "AcceptOnlyTls" SoftEther VPN Server /
PacketiX VPN Server SSLv3
SSL/TLS Perfect Forward Security (PFS) SoftEther VPN Server
/ PacketiX VPN Server ?DHE-RSA-AES128-SHA ? DHE-RSA-

?? VPN ????????????????????? VPN ?????????????????????
????????????????

SoftEther VPN ????????????? Web ????????????????????????????????????? URL ?????????????????
???????????? HTTP ?????????????????????????????????????

???????????????? Github ????????????? ["update debian packaging, install init script"](#) ???
????

• ?????????: **SoftEther VPN 4.09 Build 9451 Beta (2014/06/09)**

??? : PacketIX VPN 4.09 Build 9451 Beta

???????? SecureNAT ?????????????????????TCP_FIN ?????????????????????????????????FTP
????????????????????????????????

• ?????????: **SoftEther VPN 4.08 Build 9449 (2014/06/08)**

??? : PacketIX VPN 4.08 Build 9449

RSA 2048 bit ??????????????

vpncmd ????????????????????? MakeCert ????? 1024 bit ????? RSA ?????????????????
2048 bit ? RSA ?????????????????????????????????????MakeCert2048 ?????????????????
????????????????????2048 bit ????? RSA ?????????????????????

NAT ??????????????????

TCP/IP ????? UDP ??? NAT ????????????????????????????????????? (Ver 4.08) ??
VPN ????????????????????????????????? TCP ??? VPN Server ?????????????????????
????NAT ?????????????????????????????NAT ??? VPN Server ?????????????????
????????????????????????????????

???? (Ver 4.07) ????? VPN Client ? VPN Server ????????? VPN Client ???
TCP/IP ?????????????????????????TCP ????? 3 ????????????????????????? TCP ?????
?? VPN ????????????? 7 ?????????????????NAT ?????????????????????????????
????????????????????TCP ?? 443 ????????????????? NAT ????? VPN ?????????
????????????????????????????????VPN Client ??? TCP ?? 443 ?????????NAT ?? VPN
???????? (?? HTML ??????????) ?????????????????????????????

???????????????????? (Ver 4.08) ? VPN Client ?????????????????????????????????
TCP ??? VPN Server ?????????????????????VPN ????????? NAT ?????????????????
????????????????????NAT ????????? VPN ?????????????????????????????

??? : SoftEther VPN ????????? NAT ?????????????????????????????????NAT ??? VPN
Server ?????????????????????UDP ??? NAT ????????????? NAT ?????????????????
???????????????????? NAT ????????? 1 ? UDP ?????????????????????????????NAT ??
? VPN Server ?????????????????????NAT ?????????NAT ????????????? VPN ?????
?? IP ?????????????VPN ????????? (?) TCP ?? 443) ?????????????????????

• ?????????: **SoftEther VPN 4.07 Build 9448 (2014/06/06)**

??? : PacketIX VPN 4.07 Build 9448

????????? SSL ?????????????? OpenSSL 0.9.8za ??????????

?????? ([6 ? 5 ?](#)) ?????????????????? [OpenSSL ??????????????????????](#)OpenSSL ??????

VPN Server ? SSL ???
??
??
??
??

UI ???

- **?????????: SoftEther VPN 4.06 Build 9435 (Beta) (2014/03/26)**
???: PacketiX VPN 4.06 Build 9435 (Beta)
????????? VPN Client ???VPN Client ?????????? RPC (?????????????) ???
TCP ?????????? (TCP ??? 9999 ??? 9930) ?????????????????????????????????????
??
- **?????????: SoftEther VPN 4.06 Build 9433 (Beta) (2014/03/21)**
???: PacketiX VPN 4.06 Build 9433 (Beta)
????????????????????
?????? (Build 9432) ???UNIX ?????????????? VPN Server ? VPN Client ? NAT ??
??Unicode ??? (NAT ?
?????????????????????????????) ??????????????????Build 9433 ??????????????????Build
9430 ??? 9432 ? UNIX ?????????????????????? Build 9433 ??????????????????
- **???: PacketiX VPN 4.06 Build 9432 (Beta) (2014/03/20)**
?????? (Build 9430) ???RSA ???RSA ???
????????????????? Build 9432 ?????????????????????????
- **?????????: SoftEther VPN 4.06 Build 9430 (Beta) (2014/03/20)**
???: PacketiX VPN 4.06 Build 9430 (Beta)
???????????????? (??????PacketiX VPN ??????):
- ?????????????????????????????????????? VPN ????????????????? IPv4 ?????????????????
?????????
- SecureNAT ??? DHCP ?????????????????????????? DHCP ?????????????????????
VPN ???
- SecureNAT ?????????? DHCP ???
(RFC 3442)?
- ?????????? VPN ?????? (SoftEther VPN ???????OpenVPN ???????L2TP/IPsec
????????? MS-SSTP ??????) ?????????????????????????????????????

VPN ?????????? DDNS ?????????????????????????????????????? DDNS ??????????????
??
??? VPN ?????????????????????????????????? ARP ?????????????????????????????
??? ARP ?????????????????????????????
??? "DropBroadcastsInPrivacyFilterMode" ???
"DropArpInPrivacyFilterMode" ??? bool ?????????? HUB ?????????????????????????
???????

?????: SecureNAT ?????????????????????????????????

- **Ver 1.00 Build 9035 RC2 Fix8 (2013/03/26)**
?????????: X.509 ?????????????????????????????????
??
??
- **Ver 1.00 Build 9033 RC2 Fix7 (2013/03/22)**
?????????
- **Ver 1.00 Build 9030 RC2 Fix6 (2013/03/21)**
?????: L2TP/SSTP/OpenVPN ??????????????????????????????
- **Ver 1.00 Build 9029 RC2 Fix5 (2013/03/17)**
?????????????
- **Ver 1.00 Build 9027 RC2 Fix4 (2013/03/12)**
?????????
- **Ver 1.00 Build 9026 RC2 Fix3 (2013/03/10)**
?????: DDNS ??????????????????????????
- **Ver 1.00 Build 9024 RC2 Fix2 (2013/03/09)**
?????: Windows ? VPN over DNS ??????????
- **Ver 1.00 Build 9023 RC2 Fix1 (2013/03/08)**
?????????
- **Ver 1.00 Build 9022 RC2 (2013/03/08)**
?????????