

VPN Galileo

pptp manual

[/etc/NetworkManager/system-connections/galileo.nmconnection](#)

```
[connection]
id=galileo
uuid=97852b85-b57b-4b38-9687-d919f2820e57
type=vpn
autoconnect=false
permissions=user:scipio;;
timestamp=1623922800

[vpn]
gateway=94.230.76.2
mru=1400
mtu=1400
password-flags=0
user=xxx
user-auth-type=password
service-type=org.freedesktop.NetworkManager.l2tp

[vpn-secrets]
password=xxx

[ipv4]
dns-search=
ignore-auto-dns=true
method=auto

[ipv6]
addr-gen-mode=stable-privacy
dns-search=
method=disabled

[proxy]
```

```
chmod 600 /etc/NetworkManager/system-connections/galileo.nmconnection
```

change:

- permissions=user:scipio;; (this is local linux user)
- user=xxx
- password=xxx

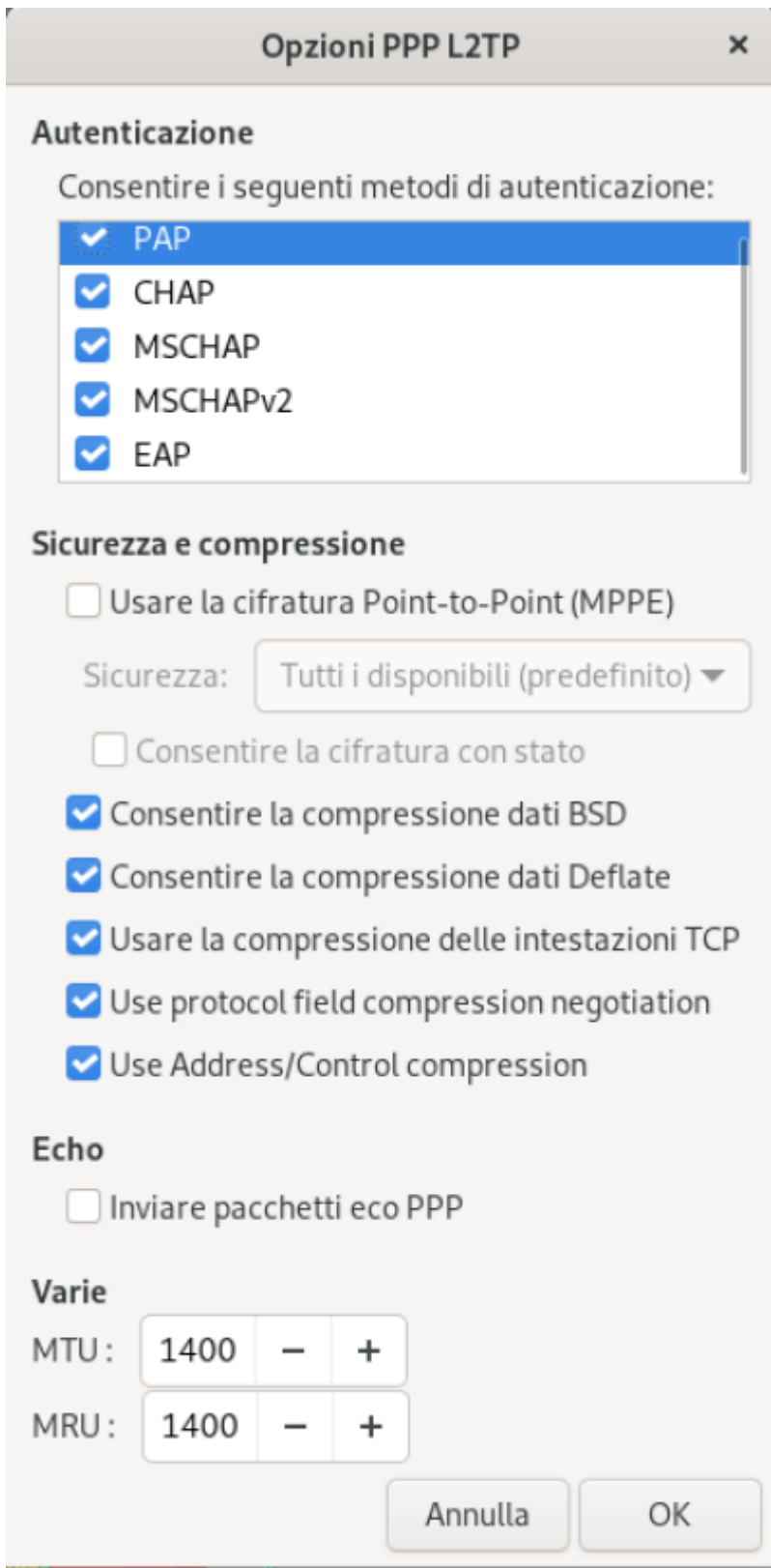
pptp GUI

Installare il package networkmanager-pptp

Aggiungere una VPN pptp

The screenshot shows the 'Identità' (Identity) tab of the 'VPN galileo' settings window. At the top, there are buttons for 'Annulla' (Cancel) and 'Applica' (Apply). Below the title bar, there are tabs for 'Dettagli' (Details), 'Identità' (Identity), 'IPv4', and 'IPv6'. The 'Identità' tab is active. The 'Nome' (Name) field contains 'galileo'. Under the 'Generale' (General) section, the 'Gateway' field contains 'vpn1.csgalileo.org'. The 'Autenticazione utente' (User authentication) section has a 'Tipo' (Type) dropdown set to 'Password'. The 'Nome utente' (Username) field is redacted with a black bar. The 'Password' field contains eight dots and has a 'Mostra la password' (Show password) checkbox below it, which is currently unchecked. The 'Dominio NT' (NT Domain) field is empty. At the bottom, there are two buttons: 'IPsec Settings...' and 'PPP Settings...'.

The screenshot shows the 'IPv4' tab of the 'VPN galileo' settings window. At the top, there are buttons for 'Annulla' (Cancel) and 'Applica' (Apply). Below the title bar, there are tabs for 'Dettagli' (Details), 'Identità', 'IPv4', and 'IPv6'. The 'IPv4' tab is active. The 'Metodo IPv4' (IPv4 Method) section has four radio button options: 'Automatico (DHCP)' (selected), 'Solo link-local', 'Manuale', and 'Disabilita'. There is also an option 'Condivisa con altri computer'. The 'DNS' section has a text input field and a toggle switch set to 'Automatico'. Below the DNS field, it says 'Separare gli indirizzi IP con virgole'. The 'Instradamenti' (Routing) section has a text input field with columns for 'Indirizzo', 'Netmask', 'Gateway', and 'Metrica', and a toggle switch set to 'Automatico'. At the bottom, there is a checkbox 'Usare questa connessione solo per risorse nella sua rete' which is unchecked.



galileo openvpn

Server certificate

[ca.crt](#)

```

-----BEGIN CERTIFICATE-----
MIIDVDCCAjygAwIBAgIIK+uSMAP/qZcwDQYJKoZIhvcNAQELBQAwHDEaMBgGA1UE
AwwRQ0E+VlB0Q090Qy1NRVVDQ0kwHhcNMjEwNzE1MTAxOTQwWhcNMjEwNzE1MTAx
OTQwWjAcMR0wGAYDVQQDDDBFDQS1WUE5DT05DLU1FVUNDSTCCASIdQYJKoZIhvcN
AQEBBQADggEPADCCAQoCggEBAMpvDbQaXdZ670pKiI/b5WuQa3iXxr7A9Z37Yk82
5ezrDlDpG2fzX1L7VHFwP9ICxWl5f4D54k9tf4BjSdkSprCNGZy7m6jjub/6KAQu
Oggys//Ngd8izPAWVT7DT34z5rH8uuSbM/ZpZa+W0AQEQQi3NkVL7il1dN6vBZYZ
KDynF9xoWgrFN0jnzBB+/dJE/sz6Xz+HGhfMf8sQPg2Bp0hjJNaQ+V3giRlGMQEA
r6hUwr0IYe0/fcP148eFl8pReAMwcv+Ngv3IV53iZq/DrJAWKwWwdwR4gevskVvz
UeFulcgrXN0W+lGM1JWwSwMlCR5E8Q8u/Y2l35rxl4UE7NECAwEAAoBmTCBljAP
BgNVHRMBAf8EBTADAQH/MA4GA1UdDwEB/wQEAwIBBjAdBgNVHQ4EFgQUUGP2aPxrh
8UwB40CsmTunMwXwdjYwLgYDVR0fBCcwJTAjoCGgH4YdaHR0cDovLzk0LjIzMC43
Ni4yL2Nybc8xNC5jcmwwJAYJYIZIAYb4QgENBBcWFudlhmVyYXRlZCBieSBSb3V0
ZXJPUzANBkgqhkiG9w0BAQsFAA0CAQEAJ/9cl1glKLuvHHDXmnz17+bH5ZAWOR7g
KMjY1P2b9eK08mAAq4+Gp8/N/suiMBN6hA+WHTzbPYurXZgm1tAlI2kZE0XdLtig
o2rJ3Z24E/MuxxPGhNqe+l1Qx4v9Cp5Q98NIzh9Hl5KEV4ZvInvXbVxlz0Ssz+KN3
R9fWzZrV9KW0wfLXvPF4n/nLyVL702VDgpPaMmrShIOT0fbh90GcJ/IYDo5FN0C0
v00dg/IddWkJ0LDQLB78MXP6gXrXRhhSCosnASJyoFbX7C+2ouXDMzjDUH/bZbPI
ilkuUqzSXarAg4LqxShPRxfSnX2kUP6IXsDeonX/Uwmzrztrd+QZ2w==
-----END CERTIFICATE-----

```

GUI

ubuntu

```

sudo apt install network-manager-openvpn-gnome
sudo service network-manager restart

```

arch: pacman -S networkmanager-openvpn

add VPN connection with network manager GUI:

- type: openvpn
- gateway: **vpn1.csgalileo.org**
- user: <user>
- pass: <pass>
- CA certificate: <ca.crt>
- in advanced settings check **“Use TCP connection”**
- in route add 10.0.0.0/8 and 185.91.188.0/25

Console

```

sudo apt install openvpn

```

[auth.cfg](#)

```

<user>

```

```
<pass>
```

openvpn.conf

```
client
remote vpn.csgalileo.org 1194
auth-user-pass auth.cfg
ca ca.crt

route 10.0.0.0/8 vpn_gateway 3
route 185.91.188.32 255.255.255.224 vpn_gateway 3
route 185.91.188.64 255.255.255.224 vpn_gateway 3
dev tun
proto tcp-client
remote-cert-tls server
persist-tun
persist-key
auth-nocache
```

go

```
sudo openvpn --config openvpn.conf
```

Connect with

```
./go
```

Winzozz

[c:\Program Files\OpenVPN\config\auth_galileo.cfg](#)

```
username
password
```

[c:\Program Files\OpenVPN\config\galileo.ovpn](#)

```
client
dev tun
proto tcp-client
remote-cert-tls server

remote vpn.csgalileo.org 1194
route 10.0.0.0 255.0.0.0 vpn_gateway 3
route 185.91.188.0 255.255.255.0 vpn_gateway 3
```

```

resolv-retry infinite
nobind
persist-key
persist-tun
verb 3
auth-user-pass auth_galileo.cfg
script-security 3
<ca>
-----BEGIN CERTIFICATE-----
MIIEE3zCCA8egAwIBAgIJAKI/infDrLaOMA0GCSqGSIb3DQEBCwUAMIGlMQswCQYD
VQQGEwJJVDELMaKGA1UECBMClIxDzANBgNVBACglZlcm9uYTEQMA4GA1UEChMH
R2FsaWxlbzEQMA4GA1UECXMHR2FsaWxlbzETMBEGA1UEAxMKR2FsaWxlbjBDQTEQ
MA4GA1UEKRMHRWFzeVJTQTEtMCsGCSqGSIb3DQEJARYec3RlZmFuby5zY2lwaW9u
aUBjc2dhdGlsZW8ub3JnMB4XDTE3MDMyMjE1MDQ0NFoXDTI3MDMyMDE1MDQ0NFow
gaUxCzAJBgNVBAYTAlUMQswCQYDVQQLIEwJWUJEPMA0GA1UEBxMGVmVyb25hMRAw
DgYDVQQKEwdHYWxpbGVvMRAwDgYDVQQLLWwvMRAwDgYDVQQLLWwvMRAwDgYDVQQLLWwv
bGVvIENBMRAwDgYDVQQPEwdFYXN5UlNBMS0wKwYJKoZIhvcNAQkBFh5zdGVmYW5v
LnNjaXBpb25pQGNzZ2FsaWxlbj5vcmcwggEiMA0GCSqGSIb3DQEBQUAA4IBDwAw
ggEKAoIBAQDgXkb1D0RrR5kZhTz1oj4ronvQaU8oyBc71y5oxp70XwIEQkW+87WT
lgfeT8fwqec6KIjQr6SJ0hMmIDphYifNlgwseJ4rtLf33WZ0sWgWN0eLjxcn354g
M26pWJt3ETP3THUu4dK4Y6T7t7dFJiaIZ0jRg15EIKHsFMZDYRtcl5Sc0EBw4G32
TndnWsy+vJRocM0zkniuDnNnI1GJh3M0LK+/nsk0AJ022+vmYJcE3fMsjho2zJgB
qUteWn5pBZm91Q2KQa5W50QYVNP44wbopQHxhhEXGDDwm+iQsqjBQVK39TQDwBGS
foMxbPZwr17pJGbhHGvNm8DP+XnTlTfAgMBAAGjggEOMIIBCjAdBgNVHQ4EFgQU
6kM1PE0CDJ+cqiazQu70mrXni+AwgdoGA1UdIwSB0jCBz4AU6kM1PE0CDJ+cqiaz
Qu70mrXni+ChgaukgagwgaUxCzAJBgNVBAYTAlUMQswCQYDVQQLIEwJWUJEPMA0G
A1UEBxMGVmVyb25hMRAwDgYDVQQLLWwvMRAwDgYDVQQLLWwvMRAwDgYDVQQLLWwv
MRMwEQYDVQQLLWwvIENBMRAwDgYDVQQPEwdFYXN5UlNBMS0wKwYJKoZIhvcNAQkBFh5zdGVmYW5v
LnNjaXBpb25pQGNzZ2FsaWxlbj5vcmeCCQCip4p3w6yw
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3/YQ9xlWkXlbp1E030vBMCRp1AnJRsZnZATBB4xnJ55ZPG6tEqCVS72j2fKMnCa2
vLW7
-----END CERTIFICATE-----
</ca>

```

Lavagno

[lavagno.pem](#)

```

-----BEGIN CERTIFICATE-----
MIIGATCCA+mgAwIBAgIJALHdThMpwfEhMA0GCSqGSIb3DQEBCwUAMIGWMQswCQYD
VQQGEwJJVDE0MAAwGA1UECAwFSXRhbHkxZDzANBgNVBACglZlcm9uYTEQMA4GA1UE
Cgw0Q29tdW5lIEExhdmFnbm8xHjAcBgNVBAMMFw5hdmFnbm8uY3NnYWxpbGVvLm9y
ZzEtMCsGCSqGSIb3DQEJARYec3RlZmFuby5zY2lwaW9uYUBjc2dhdGlsZW8ub3Jn

```

```

MB4XDTE3MDIw0DEzMEzN1oXDTI3MDIwNjEzMDEzN1owgZYxCzAJBgNVBAYTAKU
MQ4wDAYDVQQIDAVJdGFseTEPMA0GA1UEBwwGVmVyb25hMRcwFQYDVQQKDA5Db211
bmUgTGf2YwduzEeMBwGA1UEAwwVbGF2Ywduy5jc2dhdGlsZW8ub3JnMS0wKwYJ
KoZiHvcNAQkBFh5zdGVmYW5vLnNjaXBpb25pQGNzZ2FsaWxlb3VvcmcwggIiMA0G
CSqGSIb3DQEBAQUAA4ICDwAwggIKAoICAQCysUSjvroVYifgpS2Yc5q97GzlfUZW
9Fu04IZqrVXE8Mz8hsCsaGql0MmeMo7Y4TFL9gb6IvAv655mCRY3l3KzRzcyg94f
g4VB2SjqU3DhDtzZBURBWo1v9P5oidftxVQbyUrrRJ6QUhlj4Ue1BZWUNd8ViT09
xtnxUb8bz9XPxsfgUajpA4w2cRGMX3N537dSYujcwSEsRTYndJubPDKcVJ6/3db
oLH6Y3pB4o/K9/Mtt0GwrmeJIMsgxFxV/qlEXQxNrwZ0d9dpZvs83J0z+mHdd9j
36IBScGNQRHz+UcS0uek7YlgsP/bxiE0ra1D22ZdE0620fMfXoupNEV1B/4CgmhS
IOTpJcRjKfPHmfp0pbDcIgw3QEmXcrW9K/sXihk5c7vN2mbiUyWt06/Ihc8xmlUt
8Ilgvh1KSQ02IN9i0bv4KAxL5dVZXmtku6H9L6G6UfX/QxCg4/LH2RzwZc00Al35R
3zn7Fy0UKnvWrUuG/0hiCoS4AgpTTIc9DCI5bA/Yks0n8vz1SIklZ/vkjJ4LuxF
JkBGBCVl4b8oh0XR5Ecq1Q3Ai1AR/8n4b9ho50wqhioekRSQ6WjHLLn9XYQrEdCN
PXxulxnK7eiQtYD6Zn5A8MSvmfquQ080Q0sbMg05YUt0lMxSX6qbZnItF76KYWSbD
72PFSDV24Lrg3wIDAQABo1AwTjAdBgNVHQ4EFgQUdke3u6KNfH6n+1S0wmUmWsB8
h18wHwYDVR0jBBgwFoAUDke3u6KNfH6n+1S0wmUmWsB8h18wDAYDVR0TBAUwAwEB
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TE1kny0mhUj4tLv0s+sEjP4DHQRnKPP86tccn3Z4ydS5mKNbbq1mNaslzvl66Zr
fdhExA3uahUexo8wJ8BXL3b7YdQ/AP6kIh2eZ0slptj+BKzqQKqFKy9mqdv9jXM/
cseT6+zdt258u8dSSGDrBj/87f1HTUYt1wcjcn0g8l5v0x0YrcsjyBw/i6hkVZWy
bkByUTzuQSEJNZZwv7SHIDLZlXm10Sw1EoucrmxZAB2EsRLQfivbl536a711mgr8
DNof7+ttWpFBFb+U+G1ipDNhiBiAkhLJMSL7vB5JHcu/YLUgZiVXz0mD1YI812PJ
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fLAfq78Miu6KglFmJF2VSifxW7zynNIVE0dtXGmUOR16FKJfdwNXTzpmMznPviRz
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aBZVSFSow2dELbQdQo1aA/JR1hUk05NEXE6KAIc4JNrMzD4b4HxMPcc/youYLKDb3
Hd9TG/E=
-----END CERTIFICATE-----

```

add VPN connection with network manager GUI:

- type: openvpn
- gateway: **lavagno.csgalileo.org**
- user: galileo
- pass: <pass>
- CA certificate: <lavagno.pem>
- in advanced settings check **“Use TCP connection”**

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Permanent link: <https://wiki.csgalileo.org/tips/vpn/galileo?rev=1628502364>

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