VPN Galileo

pptp

Installare il package networkmanager-pptp

Aggiungere una VPN pptp

galileo openvpn

Server certificate

ca.crt

```
-----BEGIN CERTIFICATE-----
MIIDVDCCAjygAwIBAgIIK+uSMAP/qZcwDQYJKoZIhvcNAQELBQAwHDEaMBgGA1UE
AwwRQ0EtVlBOQ09OQy1NRVVDQ0kwHhcNMjEwNzE1MTAxOTQwWhcNMjIwNzE1MTAx
OTQwWjAcMRowGAYDVQQDDBFDQS1WUE5DT05DLU1FVUNDSTCCASIwDQYJKoZIhvcN
AQEBBQADggEPADCCAQoCggEBAMpvDbQaXdZ670pKiI/b5WuQa3iXxr7A9Z37Yk82
5ezrDlDpG2fzX1L7VHFwP9ICxWl5f4D54k9tf4BjSdkSprCNGZy7m6jjub/6KAQu
Ogqys//Ngd8izPAWVT7DT34z5rH8uuSbM/ZpZa+W0AQEQQi3NkVL7il1dN6vBZYZ
KDynF9xoWgrFNOjnzBB+/dJE/sz6Xz+HGhfMf8sQPg2BpOhjJNaQ+V3giRlGMQEA
r6hUwrOIYe0/fcP148eFl8pReAMwcw+Ngv3IV53iZq/DrJAWKwWwdwR4gevskVvz
UeFulcgrXN0W+lGM1JWwSwMlCR5E8Q8u/Y2l35rxl4UE7NECAwEAAaOBmTCBljAP
BgNVHRMBAf8EBTADAQH/MA4GA1UdDwEB/wQEAwIBBjAdBgNVHQ4EFgQUGP2aPxrh
8UwB4OCsmtunMwXwdjYwLgYDVR0fBCcwJTAjoCGgH4YdaHR0cDovLzk0LjIzMC43
Ni4yL2NybC8xNC5jmwwJAYJYIZIAYb4QgENBBcWFUdlbmVyYXRlZCBieSBSb3V0
ZXJPUzANBgkqhkiG9w0BAQsFAAOCAQEAJ/9cl1glKLuvHHDXmnz17+bH5ZAWOR7g
KMjY1P2b9eK08mAAq4+Gp8/N/suiMBN6hA+WHtzbPYurXZgm1tAlI2kZE0XdLtig
o2rJ3Z24E/MuxxPGhNQe+l1Qx4v9Cp5Q98NIZh9Hl5KEV4ZvInvXbVxlzOSz+KN3
R9fWzZrV9KWOWfLXvPF4n/nLyVL702VDgpPaMmrShIOTOfbh9OGcJ/IYDo5FN0C0
vO0dg/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-----
MIIE3zCCA8egAwIBAgIJAKI/infDrLAoMA0GCSqGSIb3DQEBCwUAMIGlMQswCQYD
VQQGEwJJVDELMAkGA1UECBMCVlIxDzANBgNVBAcTBlZlcm9uYTEQMA4GA1UEChMH
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MA4GA1UEKRMHRWFzeVJTQTEtMCsGCSqGSIb3DQEJARYec3RlZmFuby5zY2lwaW9u
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gaUxCzAJBgNVBAYTAklUMQswCQYDVQQIEwJWUjEPMA0GA1UEBxMGVmVyb25hMRAw
DgYDVQQKEwdHYWxpbGVvMRAwDgYDVQQLEwdHYWxpbGVvMRMwEQYDVQQDEwpHYWxp
bGVvIENBMRAwDgYDVQQpEwdFYXN5UlNBMS0wKwYJKoZIhvcNAQkBFh5zdGVmYW5v
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ggEKAoIBAQDgxKb1DORrR5kZhTz1oj4ronvQaU8oyBc71y5oxp70XwIEQkW+87WT
lgfeT8fwqec6KIjQr6SJOhMmIDphYifN1gwseJ4rtLf33WZOsWgWNOeLjxcn354g
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A1UEBxMGVmVyb25hMRAwDgYDVQQKEwdHYWxpbGVvMRAwDgYDVQQLEwdHYWxpbGVv
MRMwEQYDVQQDEwpHYWxpbGVvIENBMRAwDgYDVQQpEwdFYXN5UlNBMS0wKwYJKoZI
hvcNAQkBFh5zdGVmYW5vLnNjaaXBpb25pQGNzZ2FsaWxlby5vcmeCCQCiP4p3w6yw
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3/YQ9xlWkXlbp1E03OvBMCRp1AnJRsznZATBB4xnJ55ZPG6tEqCVS72j2fKMnCa2
vlW7
-----END CERTIFICATE-----
</ca>
```

Lavagno

lavagno.pem

```
-----BEGIN CERTIFICATE-----
MIIGATCCA+mgAwIBAgIJALHdThMpwfEhMA0GCSqGSIb3DQEBCwUAMIGWMQswCQYD
VQQGEwJJVDEOMAwGA1UECAwFSXRhbHkxDzANBgNVBAcMBlZlcm9uYTEXMBUGA1UE
CgwOQ29tdW5lIExhdmFnbm8xHjAcBgNVBAMMFWxhdmFnbm8uY3NnYWxpbGVvLm9y
```

ZzEtMCsGCSqGSIb3DQEJARYec3RlZmFuby5zY2lwaW9uaUBjc2dhbGlsZW8ub3Jn
MB4XDTE3MDIwODEzMDEzN1oXDTI3MDIwNjEzMDEzN1owgZYxCzAJBgNVBAYTAklU
MQ4wDAYDVQQIDAVJdGFseTEPMA0GA1UEBwwGVmVyb25hMRcwFQYDVQQKDA5Db211
bmUgTGF2YWdubzEeMBwGA1UEAwwVbGF2YWduby5jc2dhbGlsZW8ub3JnMS0wKwYJ
KoZIhvcNAQkBFh5zdGVmYW5vLnNjaXBpb25pQGNzZ2FsaWxlby5vcmcwggIiMA0G
CSqGSIb3DQEBAQUAA4ICDwAwggIKAoICAQCysUSjvroVYifgpS2Yc5q97GzlFUZw
9Fu04IZqrVXE8Mz8hsCsaGql0MmeMo7Y4TFL9gb6IvAv655mCRY3l3KzRzcyg94f
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xtnxUb8bz9XPxsf+GUajpA4w2cRGMX3N537dSYujcwSEsRTYndJubPDKcVJ6/3db
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IOTpJcRjKfPHmfpOpbDcIgw3QEmXcrW9K/sXihk5c7vN2mbiUyWtO6/Ihc8xmlUt
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3zn7FyOUKnvWrUuG/0hIiCoS4AgpTTIc9DCI5bA/YksOn8vz1SIklZ/vkjJ4LuxF
JkBgBCVl4b8ohOXR5Ecq1Q3Ai1AR/8n4b9ho50wqhioekRSQ6WjHLLn9XYQrEdCN
PXxulxnK7eiQtYD6Zn5A8MSvmfqUQ80QQsbMgO5YUt0lMxSX6qbZnItF76KYWSbD
72PFSDV24Lrg3wIDAQABo1AwTjAdBgNVHQ4EFgQUDke3u6KNfH6n+1S0wmUmWsB8
h18wHwYDVR0jBBgwFoAUDke3u6KNfH6n+1S0wmUmWsB8h18wDAYDVR0TBAUwAwEB
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TE1knyOmhUj4tLvOs+sEjP4DHQRnKPpL86tccn3Z4ydS5mKNbbq1mNaslzvl66Zr
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bkByUTzuQSEJNZZwv7SHIDlZlXml0Sw1EoucrmxZAB2EsRLQfivbl536a711mgr8
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aBZVSFSow2dELbQdqo1aA/JR1hUk05NExE6KAIc4JNrMzD4b4HxMPcc/yuYLKDb3
Hd9TG/E=
-----END CERTIFICATE-----

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