

# Instructions for the new VPN UNITN service

The VPN service allows access to internal resources of the UniTN network from external locations. It is based on SSL encryption.

For the usage and configuration of the VPN you have to install Pulse Secure, visit the right section:

Operating System	Supported Client	Instructions
Windows, MacOSx	Pulse Secure	<a href="#">Pulse Secure Desktop</a>
Linux	Pulse Secure	<a href="#">Pulse Secure Linux</a>
Mobile devices (Smartphone & Tablet)	Pulse Secure	<a href="#">Pulse Secure Mobile</a>

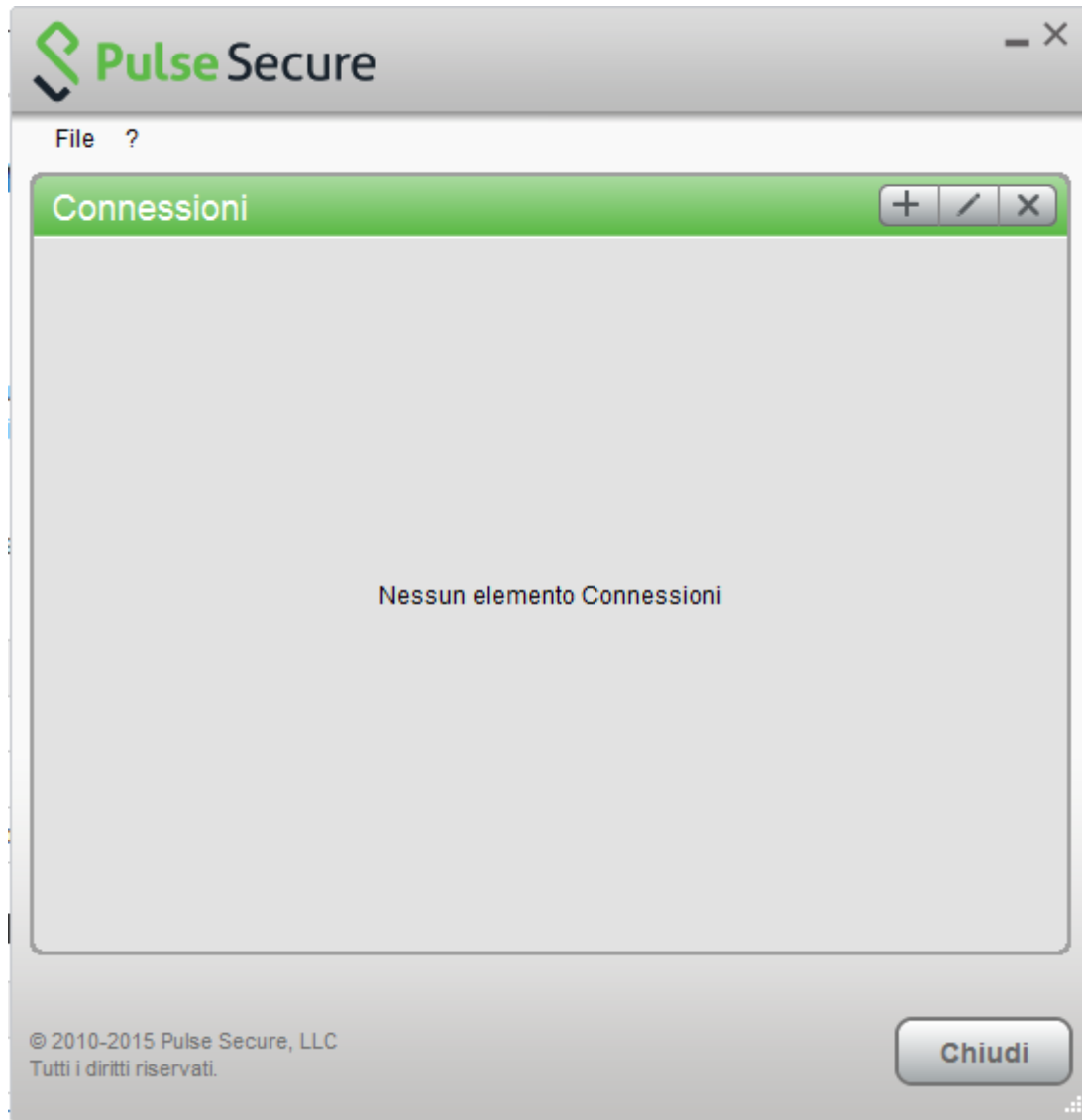
**NEWS:** The new version for linux (5.3r3) is 64bit native and provide a stable connection.

## MACOSX, Windows (Pulse Secure)

Junos Pulse Download
<a href="#">MACOSX (&gt;= 10.6 incl Sierra) Pulse Secure 5.2r5.0</a>
<a href="#">Windows XP, Vista and Windows 7/8/10 (32bit) Pulse Secure 5.2r5.0</a>
<a href="#">Windows XP, Vista and Windows 7/8/10 (64bit) Pulse Secure 5.2r5.0</a>

For Mac and Safari: Warning !!! Be sure that your browser is saving the file with .dmg extension (and not .exe) as “pulse.dmg”.

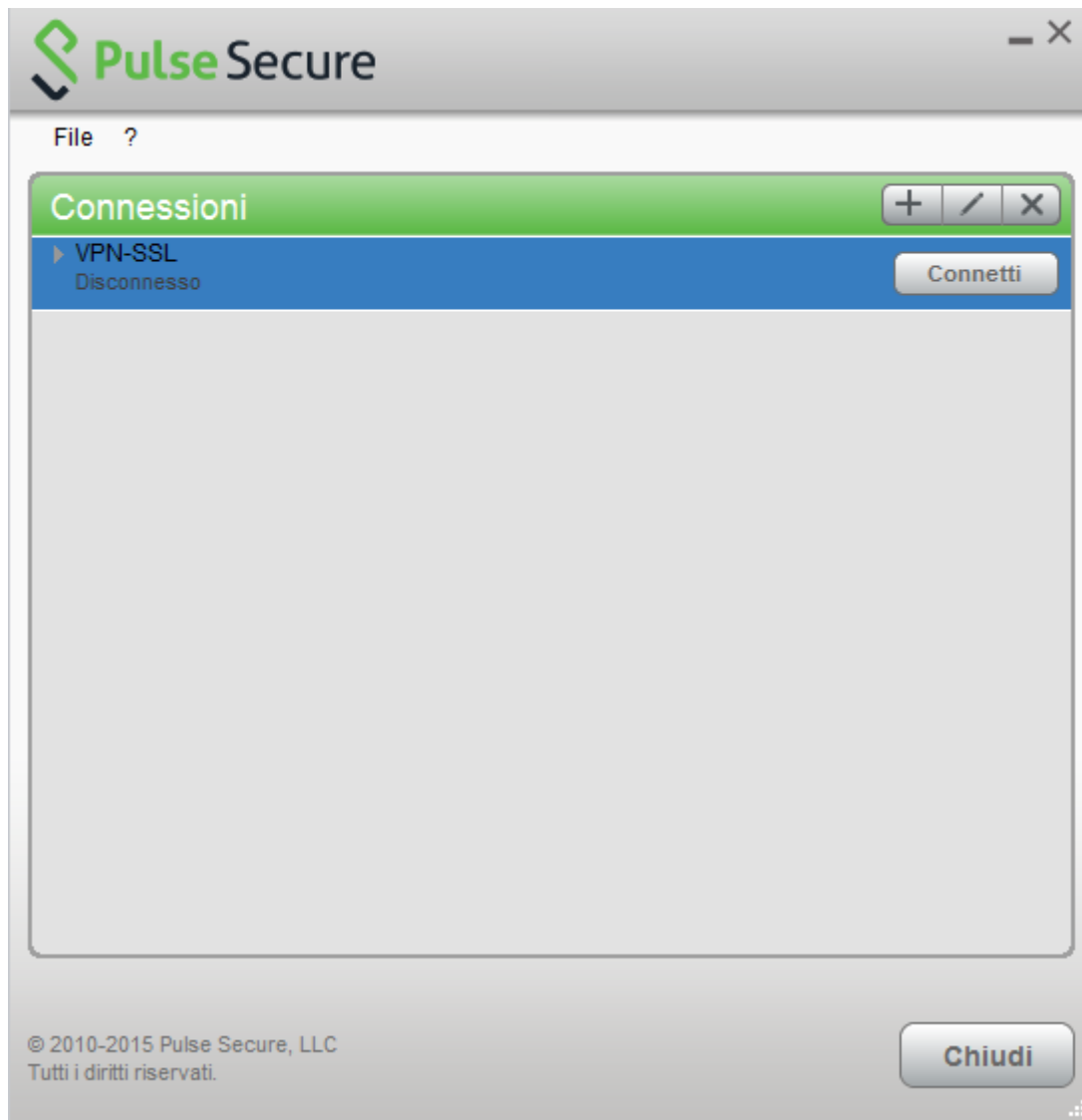
After the installation, launch the Pulse Secure Application, the main screen appears:



Create a new connection by clicking the '+' sign and entering the following parameters:



To start the connection, click on <Connect>



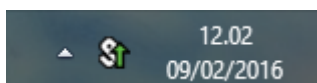
Fill the form with the username (@unitn.it) and password:

The image shows a screenshot of the Pulse Secure 'Connetti a: VPN' (Connect to: VPN) login form. The form has a title bar with the Pulse Secure logo. The main content area is titled 'Connetti a: VPN' and contains two input fields: 'Nome utente:' (Username) and 'Password:'. The username field contains the text 'nome.cognome@unitn.it'. The password field is masked with dots. Below the password field is a checkbox labeled 'Salva impostazioni' (Save settings). At the bottom of the form are two buttons: 'Connetti' (Connect) and 'Annulla' (Cancel).

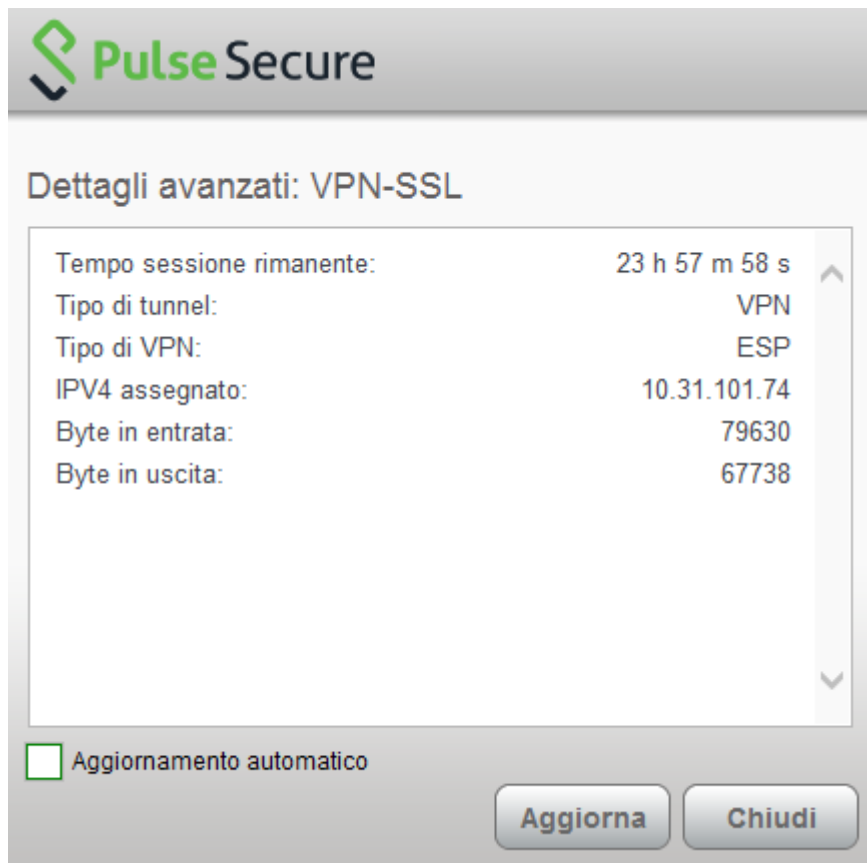
The connection is established, you can stop the vpn clicking on <Disconnect>



You can see the Pulse Secure notification icon in the lower right area:



You can show a status window from File→Connections→Advanced Connection Details...



## Linux Pulse Secure Client

**NEWS:** The new version for linux (5.3r3) is 64bit native and provide a stable connection.

Pulse Secure for Linux Download
<a href="#">Linux CentOS 32bit Pulse Secure 5.3r3 (Oct 2017)</a>
<a href="#">Linux Ubuntu (&gt; 14.04) 32bit Pulse Secure 5.3r3 (Oct 2017)</a>
<a href="#">Linux CentOS 64bit Pulse Secure 5.3r3 (Oct 2017)</a>
<a href="#">Linux Ubuntu (&gt; 14.04) 64bit Pulse Secure 5.3r3 (Oct 2017)</a>
<a href="#">Documentazione ufficiale client linux 5.3r3</a>

Download the package installer to the Linux client then run the installer using the following command:

Debian-based Linux (Ubuntu):

```
dpkg -i <package name>
```

RPM-based Linux (CentOS):

```
rpm -ivh <package name>
```

For example, if the Pulse Linux client is saved in `/$HOME/Downloads` on Ubuntu, then the command would be:

```
sudo dpkg -i /$HOME/Downloads/ps-pulse-linux-8.2r4.0-b47329-ubuntu-debian-installer.deb
```

Install the dependencies:

```
user@host:~$ sudo /usr/local/pulse/PulseClient.sh  
install_dependency_packages
```

if you want to launch the UI from a command line (/usr/local/pulse/pulseUi) you have to export this library path:

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/pulse
```



With Ubuntu 16.04 a 64bit you have to install 32bit **webkit** dependency:

```
sudo apt-get install libwebkitgtk-1.0-0:i386  
Export the path:  
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/lib/i386-linux-gnu  
export LD_LIBRARY_PATH
```

Or you can launch Pulse from your Applicazions by clicking on the Pulse icon.

- Main screen



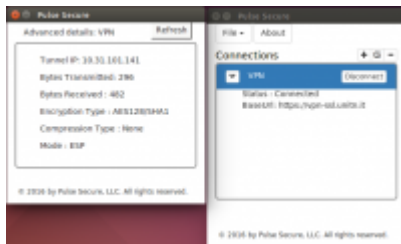
1. Create the connection:



1. Login:



## 1. Connection state:



If you don't want to use the UI, use the following command to launch the VPN client (you will be asked for the UniTN password):

```
/usr/local/pulse/PulseClient.sh -h vpn-ssl.unitn.it -u nome.cognome@unitn.it
-U https://vpn-ssl.unitn.it -r AR-unitn-ldap-ad
```

For example::

```
user@host:~$ /usr/local/pulse/PulseClient.sh -h vpn-ssl.unitn.it -u
username@unitn.it -U https://vpn-ssl.unitn.it -r AR-unitn-ldap-ad
Reading package lists... Done
Building dependency tree
Reading state information... Done
lib32z1 is already the newest version.
libc6-i386 is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 557 not upgraded.
executing command : /usr/local/pulse/pulsesvc -h vpn-ssl.unitn.it -u
username@unitn.it -U https://vpn-ssl.unitn.it -r AR-unitn-ldap-ad
VPN Password:
```

After few seconds the vpn connection is established, you have to leave this terminal window open and you can monitor the connection from another terminal window with the command:

```
user@host:~$ /usr/local/pulse/PulseClient.sh -S
```

Connection Status :

```
connection status : Connected
bytes sent : 1722
bytes received : 2586
Connection Mode : ESP
Encryption Type : AES128/SHA1
```



Comp Type : None  
Assigned IP : 10.31.0.80

To kill the connection:

```
user@host:~$ /usr/local/pulse/PulseClient.sh -K
```

References - official documentation:

[https://kb.pulsesecure.net/articles/Pulse\\_Secure\\_Article/KB40126/?q=linux&l=en\\_US&fs=Search&pn=1&atype=](https://kb.pulsesecure.net/articles/Pulse_Secure_Article/KB40126/?q=linux&l=en_US&fs=Search&pn=1&atype=)

## Mobile Devices

### REQUISITI

- iPhone, iPod Touch, iPad
- Android devices 4.0 or higher
- Windows Mobile 6.5

**INSTRUCTIONS:** (screenshots related to Android version 5)

- Install the app “Pulse Secure” from ther App Store or Google Play
- Start the application “Pulse Secure”



- Create a new connection by entering:
  - “Connection Name” (your choice)
  - “URL”: <https://vpn-ssl.unitn.it/>
  - “User Name” (in the form username@unitn.it)
  - Touch on “Create Connection”



Nuova connessione

Nome connessione  
VPN unitn

URL  
https://vpn-ssl.unitn.it

Nome utente  
nome.cognome@unitn.it

Tipo autenticazione  
Password

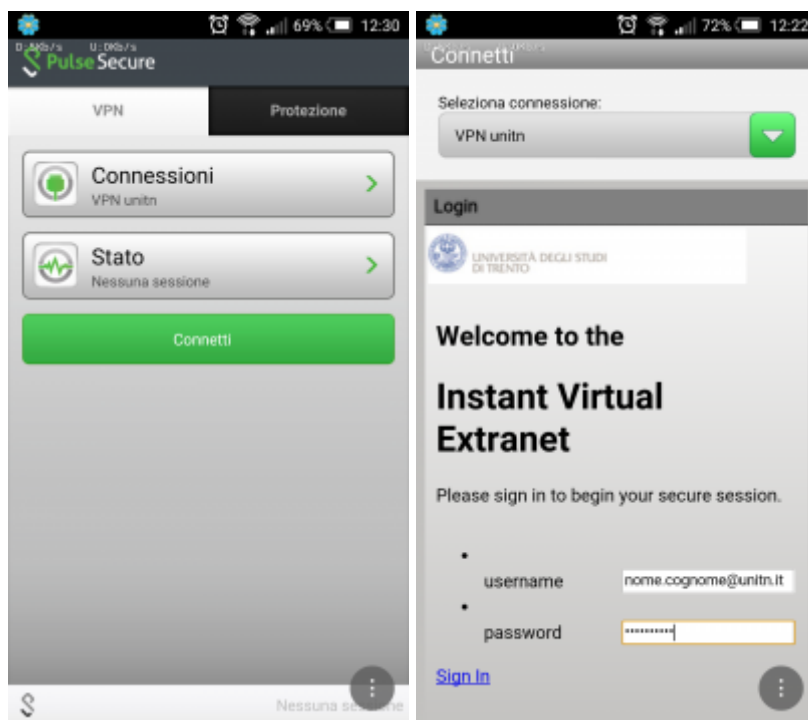
Dominio

Ruolo

Crea connessione

Nessuna sessione

- Tap on “Connect”, enter your password and select “Sign In” (possibly accept the warning about security and trusted application)



VPN Protezione

Connessioni  
VPN unitn

Stato  
Nessuna sessione

Connetti

Connetti

Seleziona connessione:  
VPN unitn

Login

UNIVERSITÀ DEGLI STUDI  
DI TRENTO

Welcome to the  
Instant Virtual  
Extranet

Please sign in to begin your secure session.

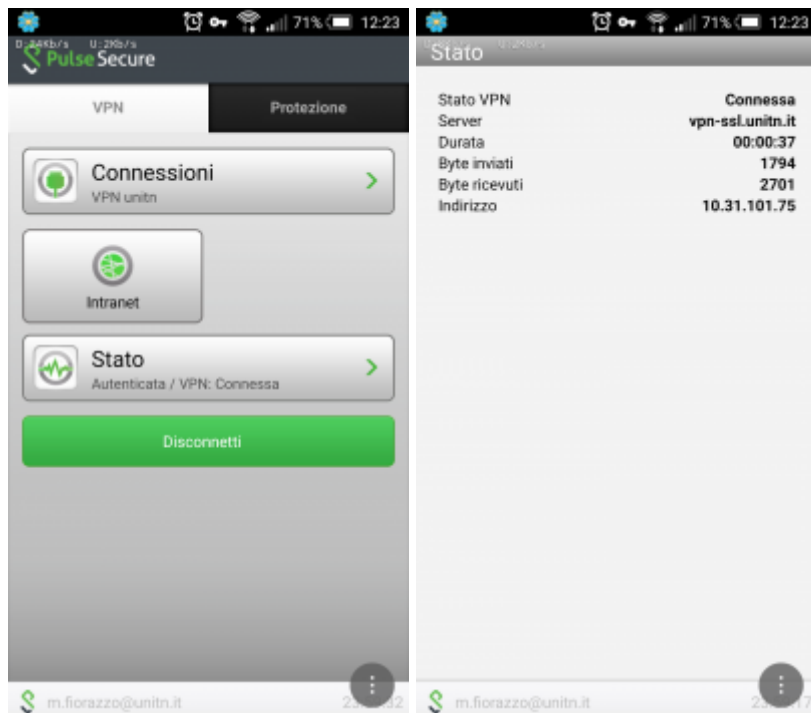
• username nome.cognome@unitn.it

• password

Sign In

Nessuna sessione

- after a while, the connection is established, verify it by tapping on “Status”



- to terminate the session, tap on “Disconnect”

## Features of vpn-ssl service

### IP addresses assigned to the clients

To connected vpn clients is assigned an ip in the range from 10.31.0.10 to 10.31.0.254

### "split-tunnel" mode

The VPN connection provides traffic directed to intranet IP using the VPN tunnel while traffic to other networks (eg Internet) is provided by standard client connection (eg ADSL at home).

NB: the routing change doesn't affect the already “established” connections at the moment of the connection

### User-side Firewall rules

VPN traffic is encrypted in SSL and uses TCP destination port 443. For the ESP mode (which increases performance) you must open the UDP destination port 4500 too.

From:

<https://wiki.unitn.it/> - **Wiki UniTn**

Permanent link:

<https://wiki.unitn.it/pub:conf-vpn-en?rev=1508828114>



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