## **Alternative clients for VPN access**

Warning: for these alternative clients, no support can be provided by "Divisione ISI".

## Linux with Network Manager (like Ubuntu, Debian)

## AnyConnect compatible connection method

**NOTE:** instructions were made on an Italian language system, images and English translations could be not accurate. Feel free to write us corrections.

These instructions are verified on a Ubuntu 10.10 installation.

As an alternative to the official Cisco client, the package *openconnect* can be used and integrated in the Network Manager with the package *network-manager-openconnect* (install with the preferred package manager). Sometimes a logout/login or a reboot is required to enable correctly the component.

At this point in the connection manager window of the *Network Manager* (right click on the Network Manager icon in the menu bar  $\rightarrow$  Manage connections...), in the *VPN* tab is possible to create the connection pressing "Add..." button.

1) In the window that will appear, select the type "Cisco AnyConnect compatible VPN" and press "Create...":

Ŧ	Connessioni di rete				
?					
2	Scegliere un tipo di connessione VPN				
	Selezionare il tipo di VPN da usare per la nuova connessione. Se il tipo di connessione VPN desiderato non appare nell'elenco significa che il plugin VPN corrispondente non è installato.				
	VPN compatibile con Cisco AnyConnect (openconnect)				
	VPN SSL compatibile con Cisco AnyConnect.				
	A <u>n</u> nulla Crea				

2) In the options, write *caronte.units.it* in the "Gateway" field, while on the "IPv4 settings" tab press the "Routes..." button and verify that the voice "Use this connection only for resources on its network" is checked:

Connessioni di rete	
Mome Modifica di Connessione VPN 1	Ultimo uso Aggiungi Modifica
Nome della connessione:       Connessione VPN 1         Connettere <u>a</u> utomaticamente         VPN       Impostazioni IPv4	Elimina Modifica instradamenti IPv4 per Connessione VPN × Indirizzo Maschera Gateway Metrica Aggiungi
Metodo:       Automatico (VPN)       ▼         Indirizzi       Indirizzo       Maschera       Gateway       Aggiungi         Elimina	Elimina
Server <u>D</u> NS: Domini di <u>r</u> icerca:	A <u>n</u> nulla <u>Q</u> K
Disponibile per tutti gli utenti A <u>n</u> nulla Applica	

3) At this point, left click on the Network Manager icon on the menu bar, select "VPN connections" and then the newly created connection; the login window will appear, press the button next to the "VPN Host" *caronte.units.it* field to start the first connection:



4) Now you will be asked to accept server's certificate (this will happen only on the first connection!):

۹	Connect to VPN 'Connessione VPN 1'	
?	Unknown certificate from VPN server "caronte.units.it". Do you want to accept it?	
Certifical Data: Versid Serial 77:f Signa Issuer Valid Not Subje Subje Pub RSA M	te: humber: 2:f6:0e:bb:70:98:a2:97:1c:57:1f:49:d2:17:f5 ture Algorithm: sha1WithRSAEncryption :: C=NL, O=TERENA, CN=TERENA SSL CA ity Before: Dec 1 00:00:00 2010 GMT : After : Nov 30 23:59:59 2013 GMT ct: C=IT, O=Universit\xC3\xA0 degli Studi di Trieste, OU=ISI, CN=ferryboat.units.it ct C=Universit\xC3\xA0 degli Studi di Trieste, OU=ISI, CN=ferryboat.units.it ct C=Universit\xC3\xA0 degli Studi di Trieste, OU=ISI, CN=ferryboat.units.it ct C=Universit\xC3\xA0 degli Studi di Trieste, OU=ISI, CN=ferryboat.units.it ct Public Key Info: lic Key Algorithm: rsaEncryption .Public Key: (1024 bit) odulus (1024 bit): 00:c5:10:39:47:7f:8e:5f:59:6b:ea:6a:f7:8e:c5: 51:03:fe:c6:71:f6:12:97:c4:13:c9:7c:a0:3c:08: 8c:1b:68:4a:a9:76:7a:0b:d6:3b:cc:4b:2b:94:28: 14:f8:91:e4:47:4d:f7:9a:4f:1c:79:61:8d:80:11: 20:92:0c:93:c2:c6:6c:27:1e:66:b4:81:d9:70:9d: 85:60:09:16:e5:66:90:ef:a3:c6:2f:48:06:24:06: 46:7d:bd:36:cb:ca:86:e4:4d:d7:65:58:ee:66: 1a:25:ef:f9:59:53:45:f0:47:5e:90:7f:70:2c:f6: 54:67:0b:42:65:4f:ae:e3:5d ponent: 65537 (0x10001) <i>d</i> extensions: 903 Authority Key Identifier:	
ke	eyid:0C:BD:93:68:0C:F3:DE:AB:A3:49:6B:2B:37:57:47:EA:90:E3:B9:ED	▼
	A <u>n</u> nulla	ōĸß

5) Verify that it is the correct one, verifying at least the green fields:

**WARNING!** be sure to view this instruction page through an *https* connection, to be reasonably sure that this instructions are not fake!

If the certificate does not correspond, it is possible that someone is trying to intercept the connection: stop this procedure and please contact the network administrators to point out the problem.

```
Certificate:
   Data:
        Version: 3 (0x2)
        Serial Number
            77:f2:f6:0e:bb:70:98:a2:97:1c:57:1f:49:d2:17:f5
        Signature Algorithm: shalWithRSAEncryption
        Issuer: C=NL, O=TERENA, CN=TERENA SSL CA
        Validity
            Not Before: Dec 1 00:00:00 2010 GMT
            Not After : Nov 30 23:59:59 2013 GMT
        Subject: C=IT, O=Universit\xC3\xA0 degli Studi di Trieste, OU=ISI, CN=ferryboat.units.it
Subject Public Key Info:
            Public Key Algorithm: rsaEncryption
            RSA Public Key: (1024 bit)
                Modulus (1024 bit):
                    00:c5:10:39:47:f7:8e:5f:59:6b:ea:6a:f7:8e:c5:
                    51:03:fe:c6:71:f6:12:97:c4:13:c9:7c:a0:3c:08:
                    8c:1b:68:4a:a9:76:7a:0b:d6:3b:cc:4b:2b:94:28:
                    14:f8:91:e4:47:4d:f7:9a:4f:1c:79:61:8d:80:11:
                    20:92:0c:93:c2:c6:6c:27:1e:66:b4:81:d9:70:9d:
                    85:60:09:16:e5:66:90:ef:a3:c6:2f:48:06:24:06:
                    46:7d:bd:36:cb:ca:e8:6e:46:df:d7:65:58:ee:66:
                    1a:25:ef:f9:59:53:45:f0:47:5e:90:7f:70:2c:f6:
                    54:67:0b:42:65:4f:ae:e3:5d
                Exponent: 65537 (0x10001)
        X509v3 extensions:
            X509v3 Authority Key Identifier:
                keyid:0C:BD:93:68:0C:F3:DE:AB:A3:49:6B:2B:37:57:47:EA:90:E3:B9:ED
            X509v3 Subject Key Identifier:
                36:B4:ED:07:DD:FB:FF:15:02:79:C7:2F:65:AA:34:28:15:D5:B1:B8
            X509v3 Key Usage: critical
                Digital Signature, Key Encipherment
            X509v3 Basic Constraints: critical
                CA: FALSE
            X509v3 Extended Key Usage:
                TLS Web Server Authentication, TLS Web Client Authentication
            X509v3 Certificate Policies:
                Policy: 1.3.6.1.4.1.6449.1.2.2.29
            X509v3 CRL Distribution Points:
                URI:http://crl.tcs.terena.org/TERENASSLCA.crl
            Authority Information Access:
                CA Issuers - URI:http://crt.tcs.terena.org/TERENASSLCA.crt
                OCSP - URI:http://ocsp.tcs.terena.org
            X509v3 Subject Alternative Name:
                DNS:ferryboat.units.it, DNS:caronte.units.it, DNS:vpn.units.it
    Signature Algorithm: shalWithRSAEncryption
        a9:41:be:87:c5:1f:4d:b1:30:3e:61:ff:12:13:bb:c7:19:5c:
        17:ac:e4:d8:e3:45:b7:79:39:64:a6:81:f3:45:ee:e9:c3:39:
        0e:71:bd:ac:72:60:9e:2d:ef:ef:07:c7:89:bd:74:dd:3f:da:
        78:66:f9:fa:8a:44:8c:99:d1:d0:ca:fe:8c:37:f2:fc:10:6e:
        c4:55:66:b8:3f:cc:16:a9:db:ea:3b:9f:85:55:98:45:88:ac:
        ef:75:fd:7e:8b:f0:98:eb:28:94:67:7e:14:ae:3f:6b:1c:08:
        47:9f:b8:b1:d8:33:5c:19:5e:c8:91:ca:8e:f7:a7:92:b5:01:
        3d:7a:5c:83:1a:d7:df:80:0d:a7:f2:6c:1b:f2:f6:76:7c:c6:
        43:cf:a5:56:f1:04:4e:7f:2f:ef:fc:28:f1:f2:2d:7d:56:7c:
        2a:24:46:fd:ef:63:bd:c8:f2:8b:cd:e0:41:97:cd:6c:3d:11:
        32:a1:80:b0:de:87:3a:06:8e:2d:40:5b:99:a6:1c:59:18:b5:
        58:75:86:05:43:b5:88:21:91:a7:da:b9:0b:e4:b7:14:61:83:
        77:51:2b:72:fd:00:ca:4c:2e:97:7c:d8:8f:c1:19:6b:b3:2b:
        0f:b1:39:20:2b:8c:da:93:65:28:43:01:4f:6c:9f:da:12:11:
        51:78:8e:57
```

6) Now the client tries to connect without letting you specify the *username* and *password*, so the connection will fail:



7) Start the connection again as done at point 3), this time your credentials will be asked for: write them complete with *domain* informations and do the *login*.

😴 Connessioni di rete							
🚿 Via cavo 🔚 Senza fili 🚛 Banda larga	a mobile 🔓 VPN 💉 DSL						
Nome Connectione VPN 1	Ultimo uso Aggiungi						
	Modifica						
	Elimina						
	<u>I</u> mporta						
🔍 Connect to VPN 'Connessione V 🗁	E <u>s</u> porta						
VPN host caronte.units.it	▼ Chiudi						
Automatically start connecting next ti	Automatically start connecting next time						
Please enter your username and passwo	ord.						
GROUP: Uten	nza 🔻						
Username:							
PASSCODE:							
Annulla	Login						
▶ Log							
	<u>C</u> hiudi						
	and the second se						

8) At this point the VPN connection should be working correctly: the activation will be confirmed by the appearance of a small padlock next to the Network Manager icon on the menu bar:

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di di	F	c	onnessioni di	rete			
	🚿 Via cavo	RII Senza	i fili 📶 Band	a larga mobil	e 🔒 V	/PN 🚿 DSL	
	Nome			Ultin	no uso	Aggiungi	
	Connession	e VPN 1		ades	so	Modifica	
						Modifica	
						Elimina	
						<u>I</u> mporta	
						E <u>s</u> porta	
						<u>C</u> hiudi	
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Have a good work!

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