

[Scenario]

The user must have root privilege to install the SSL VPN client from the DSR router. Some Apple Mac operating systems do not enable root user by default.

[Topology]

PC(192.168.10.55)---(LAN1:192.168.10.1)DSR(WAN:61.218.67.126)---internet---MAC_OS

[Solution]

Since the SSL VPN tunnel can only be established as "root" user, the following method can be used to enable and login as a root user:

- Login as administrator
- Start the terminal: **Applications > Utilities > Terminal**
- At the command prompt enter these commands

% sudo passwd root Enter Password: Changing password for root New password: Verify password:

The first password asked for is the Administrator account password, to prove that you are authorized to make changes to this system. After that, enter the new root password (twice for verification). The "root" account is enabled after these steps with the new password.

• Logout of the administrator account. In the login prompt of the OS, select other and supply "root" as username and new password defined previous step

• Once logged in, SSL VPN client binaries can be downloaded to this operating system and SSL VPN tunnels can be established.



Check the browser, OS version and java version(v14.1-b02-90), and ensure the Safari is running in 32-bit mode. In MAC-10.6 O.S (Snow Leopard) Safari can be run in two different modes. By default it will run in 64-bit mode. To enable 32-bit mode from MAC desktop options select **Go** -> **Applications** -> **Safari. Right client on Safari icon** -> **Select Get Info** and select Open in 32-bit mode. For Java Run-Time Environment

JavaFrameEmbedding.framework needs to be installed. It is available in **System -> Library - > Frameworks** directory and should be installed if not present

\varTheta 🕙 🍥 Safari Info	
Safari 57.1 MB Modified: Today 3:38 PM	
▼ Spotlight Comments:	
 General: Kind: Application (Intel) Size: 57.1 MB on disk (48,473,383 bytes) 	
Where: /Applications	\varTheta 🔿 🔿 About This Mac
Modified: Today 3:38 PM Version: 5.0.2, Copyright © 2003-2010 Apple Inc. Label:	
Open in 32-bit mode	
	Mac OS X
More Info:	Version 10.6.4
Name & Extension:	Software Update
▼ Preview:	Processor 2.26 GHz Intel Core 2 Duo
	Memory 2 GB 1067 MHz DDR3
	Startup Disk 未命名 More Info TM and © 1983-2010 Apple Inc.
Sharing & Permissions:	All Rights Reserved.



● ○ ○ Terminal — sh — 80×24	
<pre>-ea[:<packagename> :<classname>]</classname></packagename></pre>	
<pre>-enableassertions[:<packagename> :<classname>]</classname></packagename></pre>	ń
enable assertions	
-da[: <packagename> :<classname>]</classname></packagename>	
<pre>-disableassertions[:<packagename> :<classname>]</classname></packagename></pre>	
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<pre>-esa -enablesystemassertions</pre>	
enable system assertions	
-dsa -disablesystemassertions	
disable system assertions	
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Java HotSpot(TM) 64_Bit Server VM (build 14 1_b02_00 mixed mode)	1
MACs_MacBook_Drois root#	Y
hacs-hacbook-FF0.* Tool#	11.

Login to the portal of SSL-VPN-Client. (Username/password:test/test)

Product Page: DSR-1000N		Hardware Version: A1	Firm
D-Lit	1 k		
DSR-1000N			
	LOGIN		
	forDlinkBanner		
	WelcomeBanner		
	Username: Password: Login		
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On the page of "VPN tunnel", click the icon of "SSL VPN Tunnel Client Installer"

Product Page: DSR-1000N				Hardware Version: A1
D-Li	n k			Welcome t
DSR-1000N	Portal Information	VPN Tunnel	Port Forwarding	Change Password
VPN TUNNEL				
Supported Features	•			
This page allows user gateway of the corpor	to esatablish a SSL VPN tuni ate network	nel client which provide	es a point-to-point connection	on between the remote c
SSL VPN Tunnel Clie	nt Installer / Launcher			
SSL VPN Tunnel Client	Installer			
2				
Click the Icon to conne	ct to the remote network. Ke	eep your browser open	to maintain the connection	
SSL VPN Tunnel Client	Uninstaller:			
V				

STEP4

"Trust" the certification for downloading the tool.



lows user to esatablish a SSL VPN tunnel client which provides a point-to-point connection between the remote clien the corporate network



Allow the applet installation.

-1000N	Hardware Version: A1 Firmwa
	An applet from "61.218.67.126" is requesting unrestricted access to your computer. The digital signature could not be verified. Click "Details" for rd
	more information about the certificate.
atures:	Details Deny Allow
s user to esatablisme SSE VITY corporate network	anner eitent winten provides a point to-point connection between the remote client mad
el Client Installer / Launche	

STEP6

Enter the root's password.

	😝 🔿 🔿 Authentication Required	
SL VPN	Enter your password to complete installation	tween
	•••••	
Launch	Cancel Ok	



SSL-VPN software has been starting to establish the SSL tunnel.

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-	D-link- SSLVPN-Tunnel			clientlinux		
0				News (10) v	Popu	
l	Connect	sconnect		_		
	Connecting DSR-1000N // Port	al Information		VPN Tunnel		

STEP8

SSL Tunnel established.

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/	D-link-	SSLVPN-Tunnel	urt	
	Connect	Disconnect		
e (Connected to: 61.218.0	67.126	it-	



Try to PING the PC(192.168.10.55) in which is behind DSR-1000N.

			DSR-10	PLACES				2	her
	• • •			Terminal —	ping — 8	30×24		Pi	ilei
	p	ing [·	-AaDdfLnoQgRrv]	[-c count]	[-I ifa	ce] [-i wa	ait] [-l preload]	8	
		[-	-M mask time]	[-m ttl] [-	-p patte	n] [-S si	rc_addr]		
		[-	-s packetsize]	[-T ttl] [-1	t timeout	t] [-W wai	ittime]		
		[-	-z tos] mcast-g	oup					
1	ACs-Mac	Book-	Pro:∼ root# ping	192.168.10	0.55				1
F	PING 192	.168.	10.55 (192.168.1	10.55): 56 (data byte	es			-
6	64 bytes	from	192.168.10.55:	<pre>icmp_seq=0</pre>	ttl=127	time=4.49	94 ms	k	Utili
6	64 bytes	from	192.168.10.55:	<pre>icmp_seq=1</pre>	ttl=127	time=2.87	71 ms		
6	64 bytes	from	192.168.10.55:	icmp_seq=2	ttl=127	time=2.46	54 ms		
6	64 bytes	from	192.168.10.55:	icmp_seq=3	ttl=127	time=3.07	78 ms		
6	64 bytes	from	192.168.10.55:	icmp_seq=4	ttl=127	time=2.94	14 ms		-
6	64 bytes	from	192.168.10.55:	icmp_seq=5	ttl=127	time=2.87	79 ms		
6	64 bytes	from	192.168.10.55:	icmp_seq=6	ttl=127	time=3.01	L4 ms		
	o4 bytes	trom	192.168.10.55:	<pre>icmp_seq=/</pre>	ttl=12/	time=3.02	29 ms		
	04 bytes	Trom	192.168.10.55:	1cmp_seq=8	ttl=127	time=2.59	98 ms	lC	es
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e e	4 bytes	from	192.168.10.55	icmp_seq=1	6 ++1=12	time=2.5	GR ms		
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			* If you rel	oad your browse	er, SSL VPN	Tunnel Client	will disconnect and ther	reconnect to t	the re

* If you reload your browser, SSL VPN Tunnel Client will disconnect and then reconnect to the re * Installation/Uninstallation can be done only as "root".