

# [SSL VPN/MAG] How to install the 32 bit Network Connect client on 64 bit Linux platforms

[KB25230] Show KB Properties

#### SUMMARY:

This article provides information on how to install the 32 bit Network Connect client on 64 bit Linux platforms.

#### PROBLEM OR GOAL:

This article provides information on how to install the 32 bit Network Connect client on 64 bit Linux platforms.

The native Network Connect 64 bit client is not available yet; this article will be updated with the latest information; as and when obtained.

CAUSE:

### SOLUTION:

From 7.3 onwards, Juniper SA devices support 64-bit Linux (Redhat, OpenSuse, and Ubuntu) for Network Connect. Refer to the relevant Release Notes for the correct supported platforms (Secure Access (SA) Series).

Note: Juniper made changes in the existing 32 bit Network Connect client to launch it on 64 bit Linux platforms, which has all the necessary components/dependencies for 32 bit NC to work.

To launch NC on 64 bit Linux, you need to have the 64 bit Mozilla Firefox browser, with the Java plug-in already configured. You can use both the Oracle and OpenJDK JRE. If the user installs the OpenJDK JRE, then the version of **IcedTea-Web plug-in** (java plug-in) should be 1.2 or higher.

You also have to perform the following procedure:

1. Install the 32 bit Java version:

32 bit Java installation (Oracle JRE 6/ Oracle JRE 7, OpenJDK JRE 6/OpenJDK JRE 6):

Download jre-7u3-linux-i586.tar.gz and copy it to a folder (for example,/usr/java32).

Run the tar -xvf jre-7u3-linux-i586.tar.gz.

2. Update the alternatives link for Java:

Use the sudo update-alternatives --install /usr/bin/java java <32 bit java path> <priority> command.

For example: sudo update-alternatives --install /usr/bin/java java /usr/java32/jre1.7.0\_03/bin/java 10.

Ensure that the default Java version is still 64 bit. This can be checked by looking at the **link currently** points to string in the output of the update-alternatives --display java command.

If the default Java version is 32 bit, then change it to 64 bit, by using the sudo update-alternatives --config java command.

After performing the above steps, alternative links will look as illustrated in the following image (the highlighted rows show both the 32 bit Java path and the default Java version:

890	juniper@juniper-virtual-machine: ~
File Edit	View Search Terminal Help
juniper iava -	@juniper-virtual-machine沪\$ update-alternativesdisplay java auto mode
link usr/ja	<pre>currently points to /usr/lib/jvm/java-6-openjdk-amd64/jre/bin/java va32/jre1.7.0 03/bin/java - priority 20</pre>
/usr/li slave Current juniper	<pre>b/jvm/java-6-openjdk-amd64/jre/bin/java - priority 1061     java.1.gz: /usr/lib/jvm/java-6-openjdk-amd64/jre/man/man1/java.1.     'best' version is '/usr/lib/jvm/java-6-openjdk-amd64/jre/bin/java @juniper-virtual-machine:~S</pre>

Note: If 32 bit Java is installed via package managers, such as apt-get, yum or zypper, the 'alternatives' link may get automatically updated. In such a case, you can skip Step 2.

3. Install the standard 32 bit libraries and components:

Ubuntu:

sudo apt-get -y install ia32-libs

#### RedHat/Fedora:

yum -y install xterm yum -y ld-linux.so.2 yum -y libstdc++.so.6 yum -y libZ.so.1 yum -y libXext.so.6 yum -y libXrender.so.1 yum -y libXtst.so.6

#### OpenSUSE:

zypper install libXi.so.6

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Ask		

Knowledge Center Home Browse Popular Content Browse Recently Updated Browse All Knowledge Center News J-Net Search PR Search Create a Support Case Knowledge Center Feedback Report a Security Vulnerability Browse Knowledge Base Categories Now you can connect to the VPN server and click the start button to launch NC. If the NC launcher applet can find the 32 bit Java path in the alternatives links, NC will successfully launch. Otherwise, the following error message is generated:



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