

Installing and Uninstalling the Cisco VPN Client 3.5 and later for Mac OS 10.1

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Introduction

This document provides step-by-step instructions on how to install and uninstall the Cisco VPN Client version 3.5 for Mac on a Mac OS version 10.1.

In order to download the latest VPN Client version for Mac OS, refer to the Software Center (registered customers only) .

Prerequisites

Requirements

The procedures in this document should be implemented in the Mac OS 10.1 hard drive.

Components Used

The information in this document is based on the software and hardware versions below.

- Cisco VPN Client 3.5
- Mac OS 10.1

Note: To use this sample configuration with Mac OS X 10.2, you must be running Cisco VPN Client 3.6 or later. In addition, note that the VPN Client for Mac version 3.6 does not work on interface en1 (Apple AirPort WiFi) card when running Mac OS X 10.2. More information and a workaround are recorded as Bug ID CSCdy4112 (registered customers only) .

Conventions

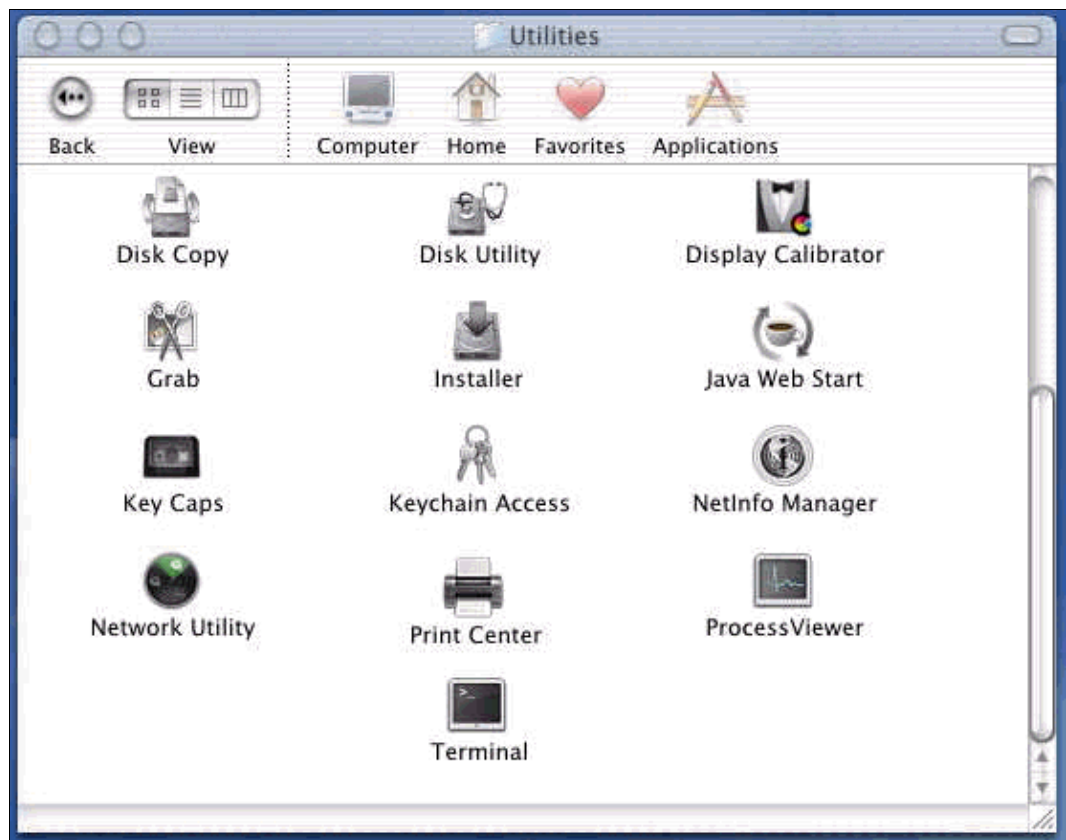
For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Installing the VPN Client

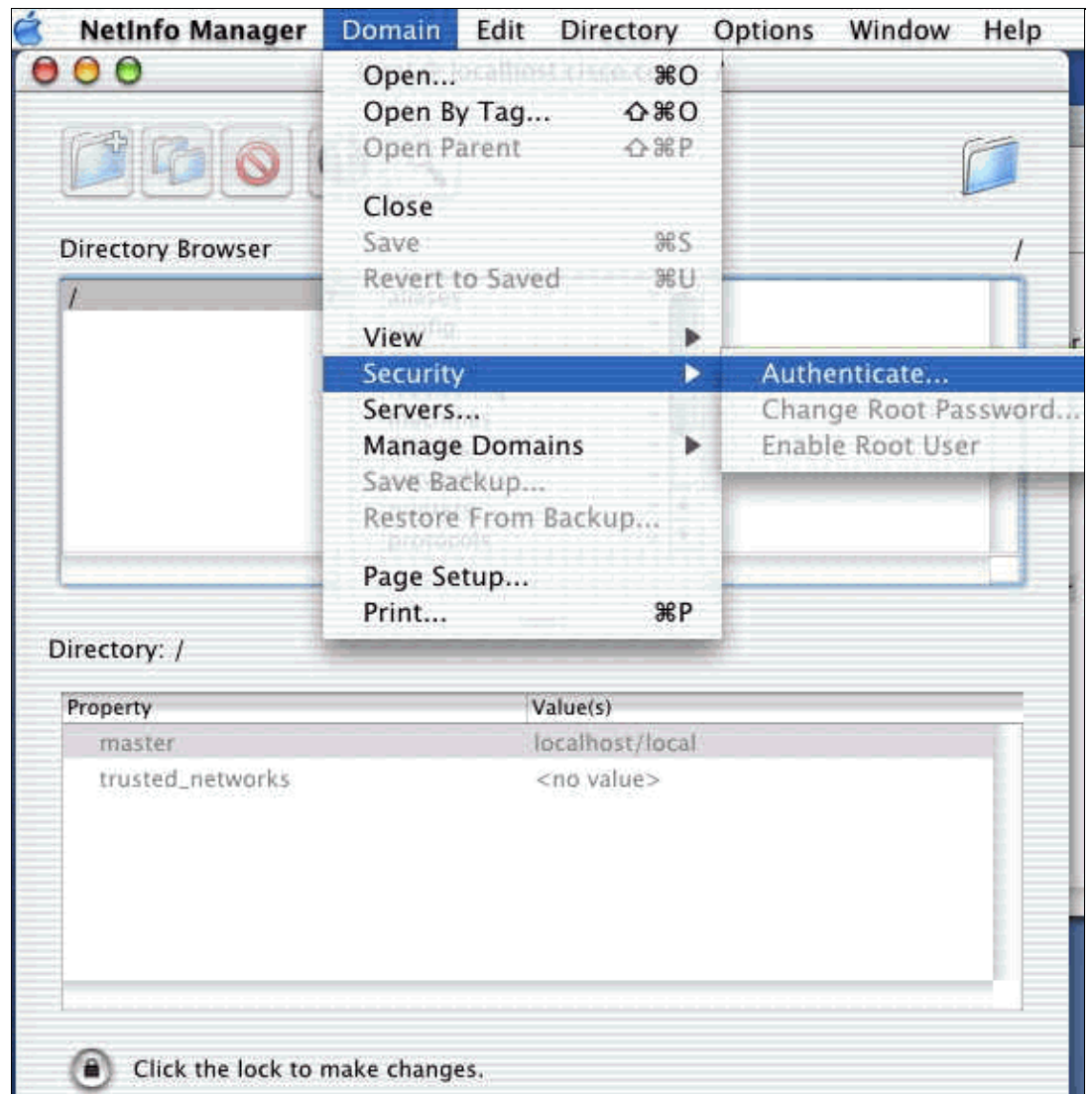
In order to install the VPN Client, which requires registry changes to your Mac OS 10.1, you must be in root mode.

Follow these instructions in order to install the VPN Client:

1. Complete these steps in order to enable the root user and set up the password:
 - a. Enable Root mode.
 - b. Sign into your Mac as a regular user.
 - c. Double click the **Hard Drive** icon.
 - d. Choose **Applications > Utilities > Netinfo Manager**.

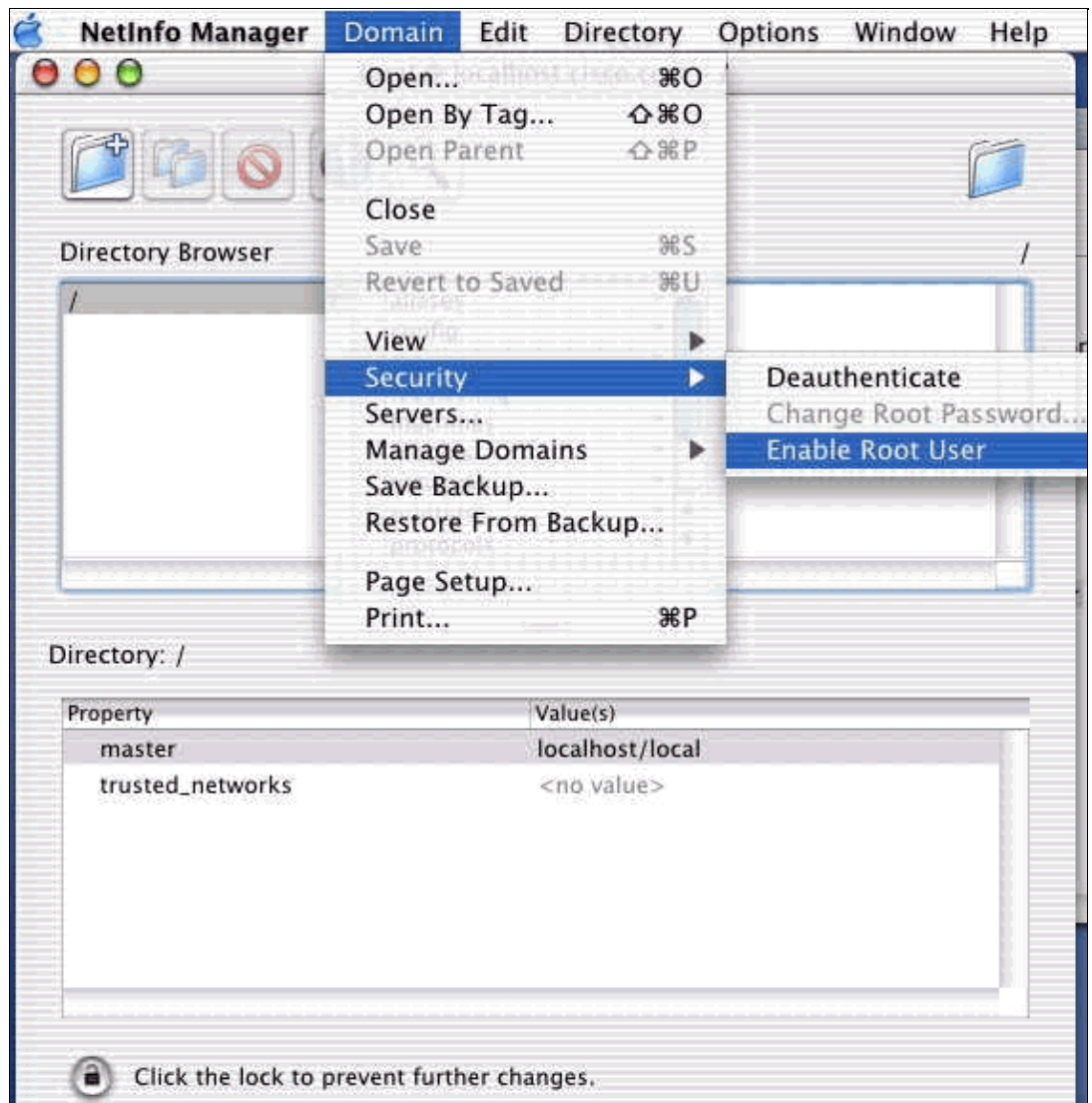


- e. From Netinfo Manager, choose **Domain > Security > Authenticate**.



You are prompted for administrator password for the admin user. The admin user is the one who created the administrator account.

- f. From Netinfo Manager, choose **Domain > Security > Enable Root User**.



- g. After you enable the root user, log in as the root user.
2. Locate the the VPN Client TAR file as downloaded from Cisco web site, and double-click the TAR image in order to unpack it.

The files will be placed into a folder called "vpnclient" on your desktop. The folder includes the necessary files to install and uninstall the VPN client.

3. From the terminal window, go to the vpnclient folder by changing the directory "/" folder, such as "cd \desktop/vpnclient," and pressing **Enter**. Then type **./vpn_install** to install the VPN Client in the desired folder.

```
Grab File Edit Capture Window Help
/usr/bin/login (ttyp2)
Welcome to Darwin!
[dhcp-171-69-89-115:~] root# cd \desktop/vpnclient
[dhcp-171-69-89-115:~/desktop/vpnclient] root# ./vpn_install

-----

Cisco Systems VPN Client Version 3.5 (Rel) for Darwin 1.4
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Please review the license agreement found in license.txt

-----

Directory where vpn binaries will be installed [/usr/local/bin]

Automatically load the VPN NKE at boot time [yes] yes

-----

- Cisco Systems VPN installation -

| the installation is configured to install the following
| files onto this system:

    vpn resource files : "/etc/CiscoSystemsVPNClient"
        IPsec NKE : "/System/Library/Extensions/CiscoVPN.kext",
        vpn applications : "/usr/local/bin",
        NKE autostart bundle : "/System/Library/StartupItems/CiscoVPN".

-----

Is the above correct [y] y

==> copying NKE to default system location: "/System/Library/Extensions/CiscoVPN.kext".
==> creating startup bundle for NKE in default location: "/System/Library/StartupItems/CiscoVPN".
==> creating directory tree for VPN resource files in "/etc/CiscoSystemsVPNClient".
==> creating default vpn initialization file "/etc/CiscoSystemsVPNClient/vpnclient.ini".
==> installing profiles into "/etc/CiscoSystemsVPNClient/Profiles/":
==> added the following profiles: sample
```

```
Grab File Edit Capture Window Help
/usr/bin/login (tty2)

IPSec NKE : "/System/Library/Extensions/CiscoVPN.kext".
vpn applications : "/usr/local/bin".
NKE autostart bundle : "/System/Library/StartupItems/CiscoVPN".

-----

Is the above correct [y] y

==> copying NKE to default system location: "/System/Library/Extensions/CiscoVPN.kext".
==> creating startup bundle for NKE in default location: "/System/Library/StartupItems/CiscoVPN".
==> creating directory tree for VPN resource files in "/etc/CiscoSystemsVPNClient".
==> creating default vpn initialization file "/etc/CiscoSystemsVPNClient/vpnclient.ini".
==> installing profiles into "/etc/CiscoSystemsVPNClient/Profiles/":
==> added the following profiles: sample
==> copying vpn applications into "/usr/local/bin".
==> setting permissions on applications and resource files

    /usr/local/bin/vpnclient, /usr/local/bin/cvpnd (setuid root)
    /etc/CiscoSystemsVPNClient (world writable)
    /etc/CiscoSystemsVPNClient/Profiles (world writable)
    /etc/CiscoSystemsVPNClient/Certificates (world writable)

==> touching kernel extensions directory to update cache.

NOTE: You may wish to change these permissions to restrict access to root.

==> The Cisco Systems IPsec NKE will load automatically when you boot this system.

    to load:    /System/Library/StartupItems/CiscoVPN/CiscoVPN start
    to unload:  /System/Library/StartupItems/CiscoVPN/CiscoVPN stop
    to restart: /System/Library/StartupItems/CiscoVPN/CiscoVPN restart

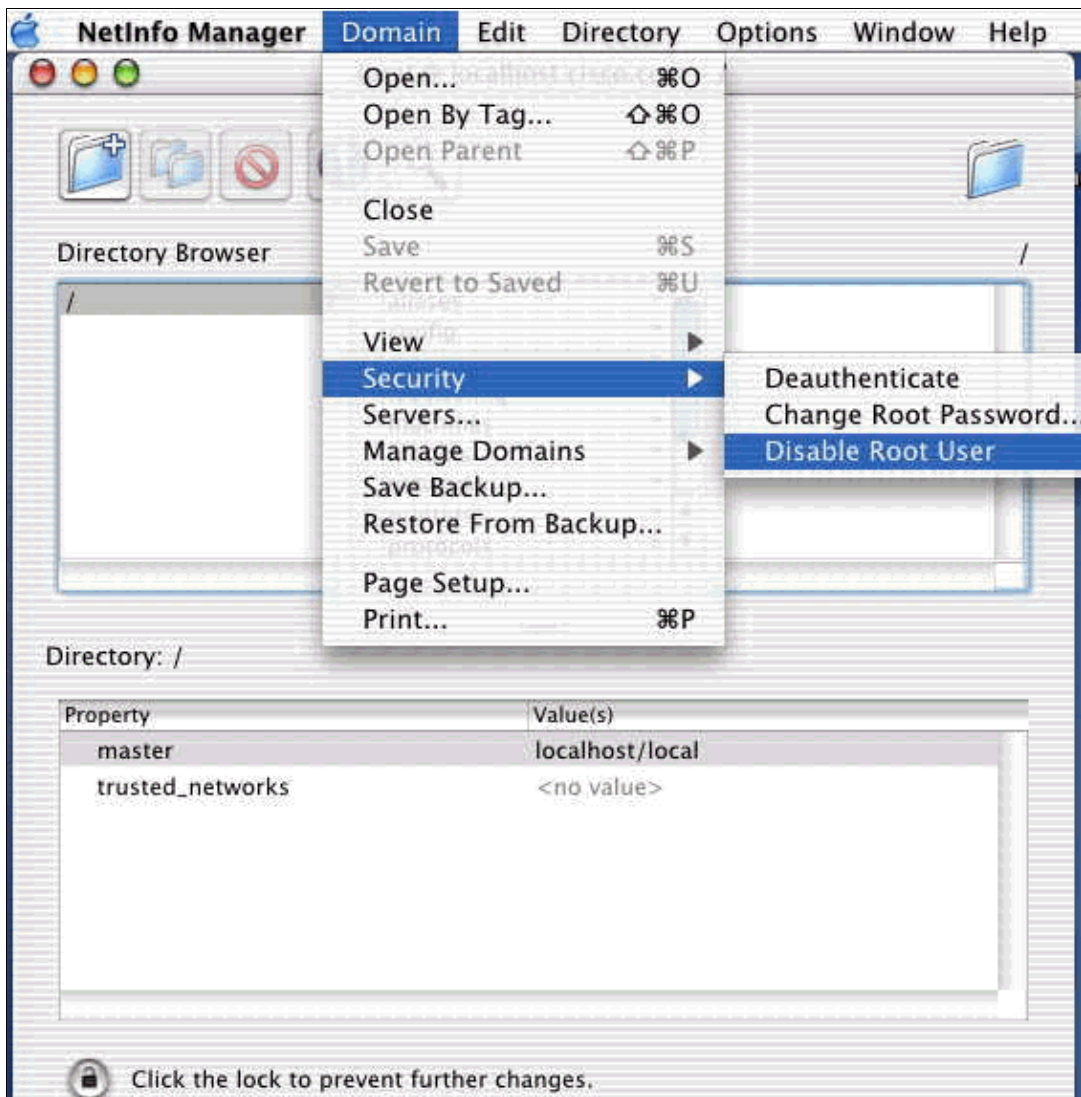
-----

Cisco Systems VPN client installation completed successfully.

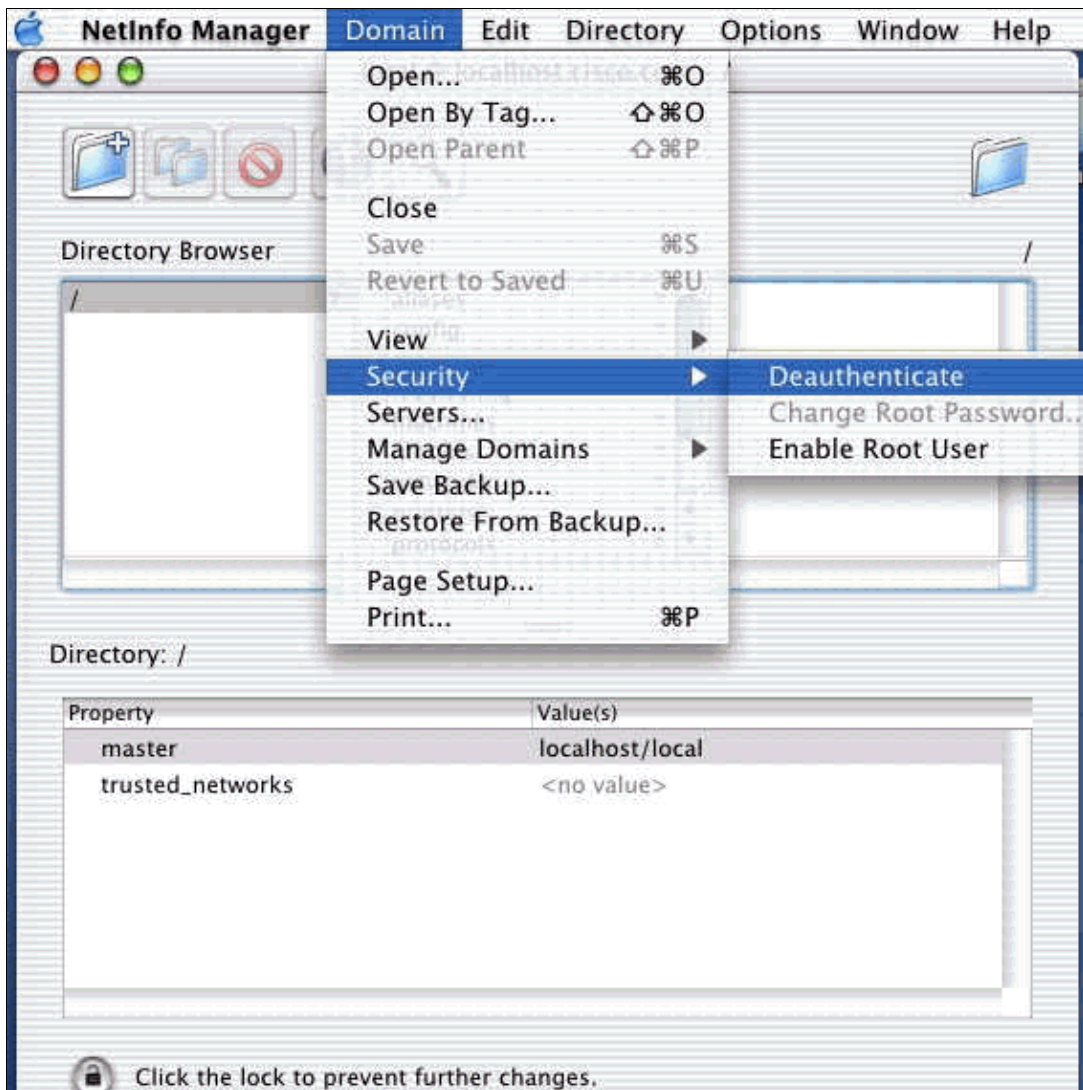
-----

[dhcp-171-69-89-115:~/desktop/vpnclient] root# █
```

4. Choose **Applications > Security > Netinfo Manager**, and then choose **Domain > Security > Disable Root User** in order to disable the root user.



5. Choose **Domain > Security > Deauthenticate** in order to deauthenticate the root user.



6. Quit the **NetInfo Manager**.
7. Restart your Mac and log in as a normal user. This starts the VPN service that is installed with the VPN Client.

Location of the User Profiles

You can modify the sample.pcf file and save it as a new file in same location.

```
[dhcp-171-69-89-169:/etc/CiscoSystemsVPNClient/Profiles] root#ls sample.pcf
[dhcp-171-69-89-169:/etc/CiscoSystemsVPNClient/Profiles] root#
[main]
Description=sample user profile
Host=10.7.44.1
AuthType=1
GroupName=monkeys
EnableISPConnect=0
ISPConnectType=0
ISPConnect=
ISPCommand=
Username=chimchim
SaveUserPassword=0
EnableBackup=0
BackupServer=
EnableNat=0
CertStore=0
CertName=
```

```
CertPath=  
CertSubjectName=  
CertSerialHash=00000000000000000000000000000000  
DHGroup=2  
ForceKeepAlives=0
```

Uninstalling the VPN Client

In order to uninstall the VPN Client, you must clean registry entries from within the Mac system. You also need root access. The following is output from uninstalling the VPN Client.

1. Enable root mode. (This is the same as Step 1 in Installing the VPN Client.)
2. Uninstall the VPN Client.

```
[dhcp-171-69-89-169:~/desktop] root#cd vpnclient  
[dhcp-171-69-89-169:~/desktop/vpnclient] root#./vpn_uninstall  
==> removing : /usr/local/bin/vpnclient ( VPN dialer )  
==> removing: /usr/local/bin/ipseclog ( VPN log viewer )  
==> removing: /usr/local/bin/cvpnd ( VPN daemon )  
==> removing: /usr/local/bin/cisco_cert_mgr ( VPN certificate manager )  
==> removing: /System/Library/StartupItems/CiscoVPN ( autostart feature )  
==> removing: /System/Library/Extensions/CiscoVPN.kext ( IPsec NKE )  
==> removing: /etc/CiscoSystemsVPNClient ( profiles, certificates, initfiles )
```

3. Disable and deauthenticate root mode. (This is the same as Steps 4 and 5 in Installing the VPN Client.)
4. Restart the Mac.

Related Information

- [Installing the VPN Client for Mac OS X, Release 4.0](#)
- [Installing the VPN Client for Mac OS X, Release 3.7](#)
- [Installing the VPN Client for Mac OS X, Release 3.5.1](#)
- [IP Security \(IPSec\) Product Support Pages](#)
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