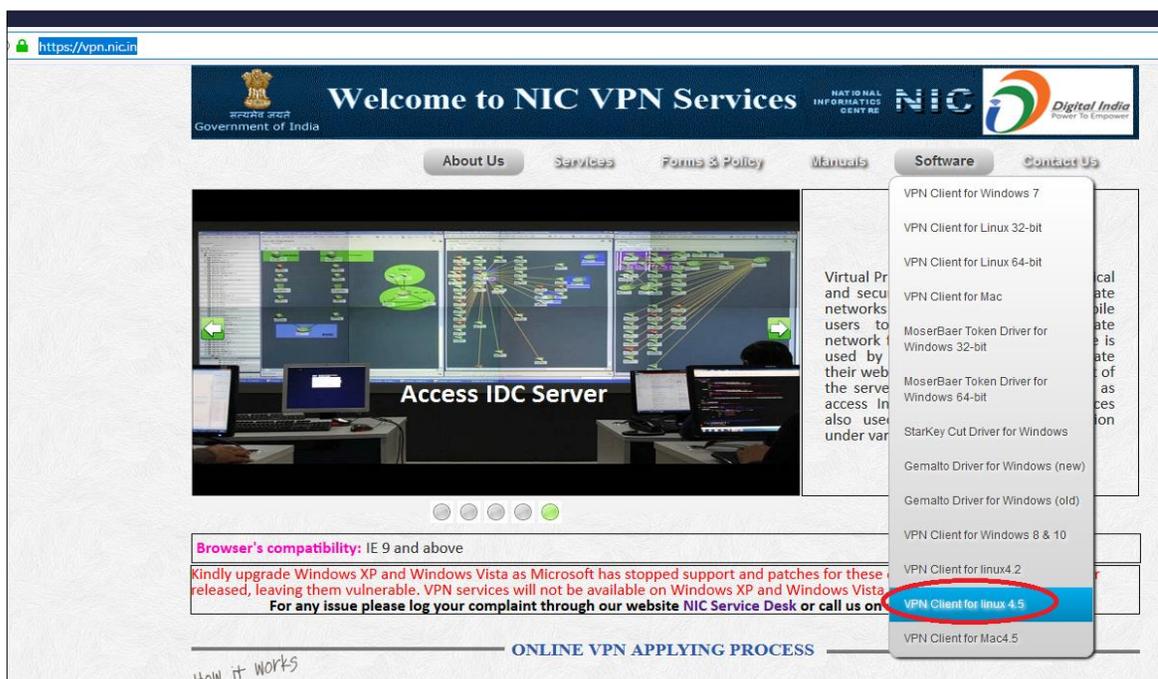


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## Manual for Configuring Cisco AnyConnect Secure Mobility Client in Ubuntu if user name is not prefilled

1. Download the DSC mailed to you by VPN Support (vpnservices@nic.in) , save it on your computer & extract it.



2. Open terminal as a super user(su) & install the package as given below

```
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002:/home/dinker# cd Downloads
root@dinker-WSG64115W7E-0002:/home/dinker/Downloads# cd anyconnect-linux64-4.5.02033
root@dinker-WSG64115W7E-0002:/home/dinker/Downloads/anyconnect-linux64-4.5.02033# cd vpn
root@dinker-WSG64115W7E-0002:/home/dinker/Downloads/anyconnect-linux64-4.5.02033/vpn# ./vpn_install.sh
```

3. Press y as below screen shot

```
Please refer to the Cisco Systems, Inc. End User License Agreement.
http://www.cisco.com/en/US/docs/general/warranty/English/EU1KEN_.html

Do you accept the terms in the license agreement? [y/n] █
```

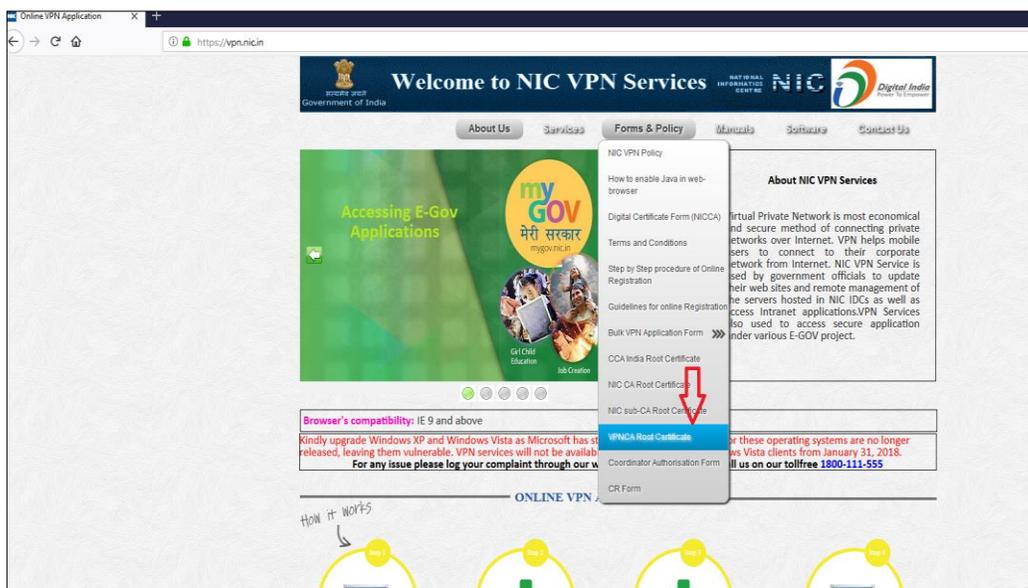
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4. Package is installed on your system now as given below

```
Do you accept the terms in the license agreement? [y/n] y
You have accepted the license agreement.
Please wait while Cisco AnyConnect Secure Mobility Client is being installed...
Starting Cisco AnyConnect Secure Mobility Client Agent...
Done!
root@dinker-WSG64115W7E-0002: /home/dinker/Downloads/anyconnect-linux64-4.5.02033/vpn#
```

In order to connect through the VPN, follow the below steps

1. First download the root certificate to desktop as given below



2. Download the certificate to desktop which is received from vpnservices@nic.in
3. Make ready your password which is received from vpnservices@nic.in
4. Make ready your private key which is received by SMS in your mobile
5. Open terminal & login with super user

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```

root@dinker-WSG64115W7E-0002: /home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002:/home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002:/home/dinker/Desktop#

```

- convert private key to .key format by using following command  
root@dinker-WSG64115W7E-0002:/home/ubuntu# cd Desktop/  
root@dinker-WSG64115W7E-0002:/home/ubuntu/Desktop# openssl pkcs12 -in TestCert.pfx  
-nocerts -out TestCert.key

**Note:** TestCert.pfx is certificate which you have received in your mail from  
vpnservices@nic.in

Enter the Private key received on mobile as given below

```

root@dinker-WSG64115W7E-0002:/home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002:/home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002:/home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -nocerts -out TestCert.key
Enter Import Password:

```

Enter the Password received on the mail as given below

```

root@dinker-WSG64115W7E-0002:/home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002:/home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002:/home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -nocerts -out TestCert.key
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:

```

```

root@dinker-WSG64115W7E-0002:/home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002:/home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002:/home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -nocerts -out TestCert.key
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
root@dinker-WSG64115W7E-0002:/home/dinker/Desktop#

```

- convert .pfx file to .pem format by using following command  
root@dinker-WSG64115W7E-0002:/home/ubuntu/Desktop#  
root@dinker-WSG64115W7E-0002:/home/ubuntu/Desktop# openssl pkcs12 -in  
TestCert.pfx -out TestCert.pem

Enter the Private key received on mobile as given below

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```

root@dinker-WSG64115W7E-0002: /home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002: /home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -nocerts -out TestCert.key
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -out TestCert.pem
Enter Import Password:

```

Enter the Password received on the mail as given below

```

root@dinker-WSG64115W7E-0002: /home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002: /home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -nocerts -out TestCert.key
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -out TestCert.pem
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:

```

```

root@dinker-WSG64115W7E-0002: /home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002: /home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -out TestCert.pem
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop#

```

- convert vpnca-root.cer to vpnca-root.pem by using following command

```

root@dinker-WSG64115W7E-0002: /home/ubuntu/Desktop# openssl pkcs12 -in vpnca-root.cer -out vpnca-root.pem

```

```

root@dinker-WSG64115W7E-0002: /home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002: /home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -out TestCert.pem
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in vpnca-root.cer -out vpnca-root.pem

```

```

root@dinker-WSG64115W7E-0002: /home/dinker/Desktop
dinker@dinker-WSG64115W7E-0002:~$ su
Password:
root@dinker-WSG64115W7E-0002: /home/dinker# cd Desktop/
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in TestCert.pfx -out TestCert.pem
Enter Import Password:
MAC verified OK
Enter PEM pass phrase:
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop# openssl pkcs12 -in vpnca-root.cer -out vpnca-root.pem
139791536019096:error:0D0680AB:asn1 encoding routines:ASN1_CHECK_TLEN:wrong tag:tasn_dec.c:1197:
139791536019096:error:0D07803A:asn1 encoding routines:ASN1_ITEM_EX_D2I:nested asn1 error:tasn_dec.c:374:Type=PKCS12
root@dinker-WSG64115W7E-0002: /home/dinker/Desktop#

```

- Create directory & sub directory under opt/cisco then copy vpnca-root.pem file to below path

```

root@dinker-WSG64115W7E-0002: /#
root@dinker-WSG64115W7E-0002: /# cd opt
root@dinker-WSG64115W7E-0002: /opt# cd ./cisco
root@dinker-WSG64115W7E-0002: /opt/cisco#

```

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```

root@dinker-WSG64115W7E-0002:/opt/.cisco#mkdir certificates
root@dinker-WSG64115W7E-0002:/opt/.cisco# cd certificates
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates#mkdir ca
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/ca#
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/ca# cp
/home/dinker/Desktop/vpnca-root.pem vpnca-root.pem

```

- 10.** Create Sub Directory under certificates & run below Command to copy converted client certificate TestCert.pem to below directory

```

root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates#mkdir client
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates#cd client
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/client#
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/client#cp
/home/dinker/Desktop/TestCert.pem TestCert.pem

```

- 11.** Create Sub Directory under client & run below Command to copy converted private key file to below directory:

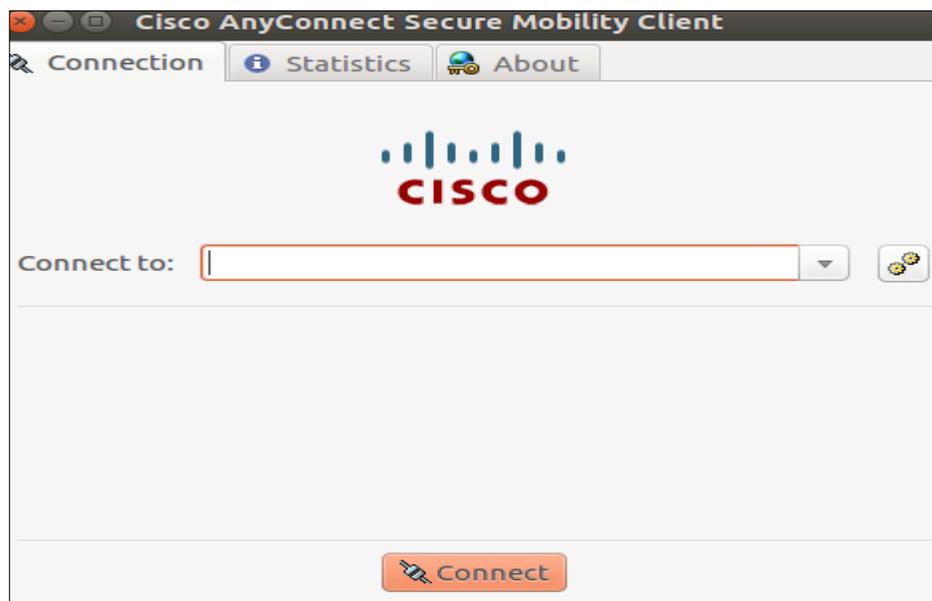
```

root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/client# mkdir private
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/client#cd private
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/client/private#
root@dinker-WSG64115W7E-0002:/opt/.cisco/certificates/client/private# cp
/home/dinker/Desktop/TestCert.key TestCert.key

```

- 12.** Now open cisco any connect mobility client

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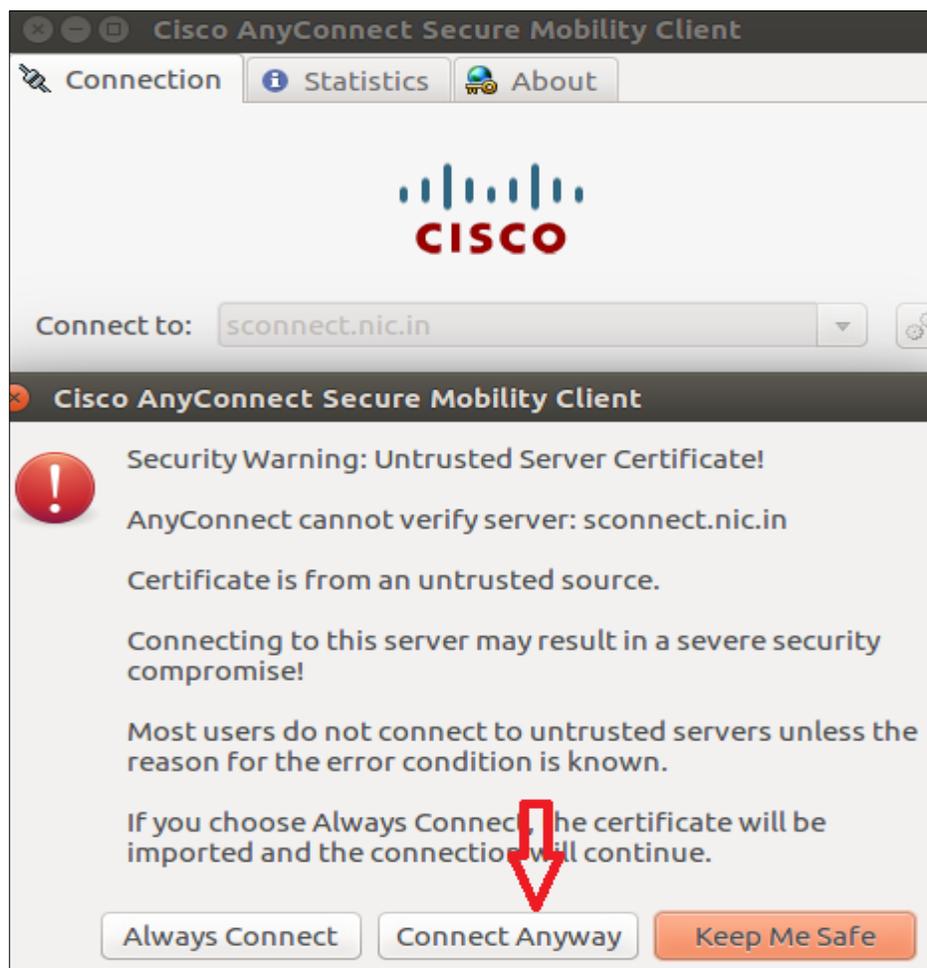


13. Write sconnect.nic.in as given below



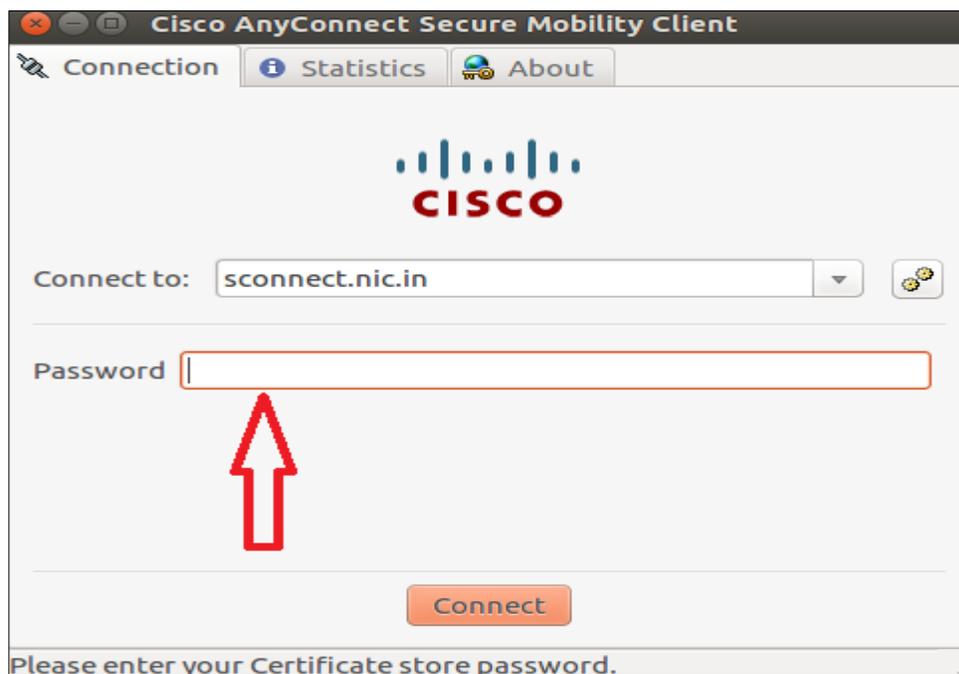
14. Select connect anyway as given below

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15. Enter the private key received by sms as given below

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16. Enter the password receive from vpnservices@nic.in



17. VPN will be connected in a minute