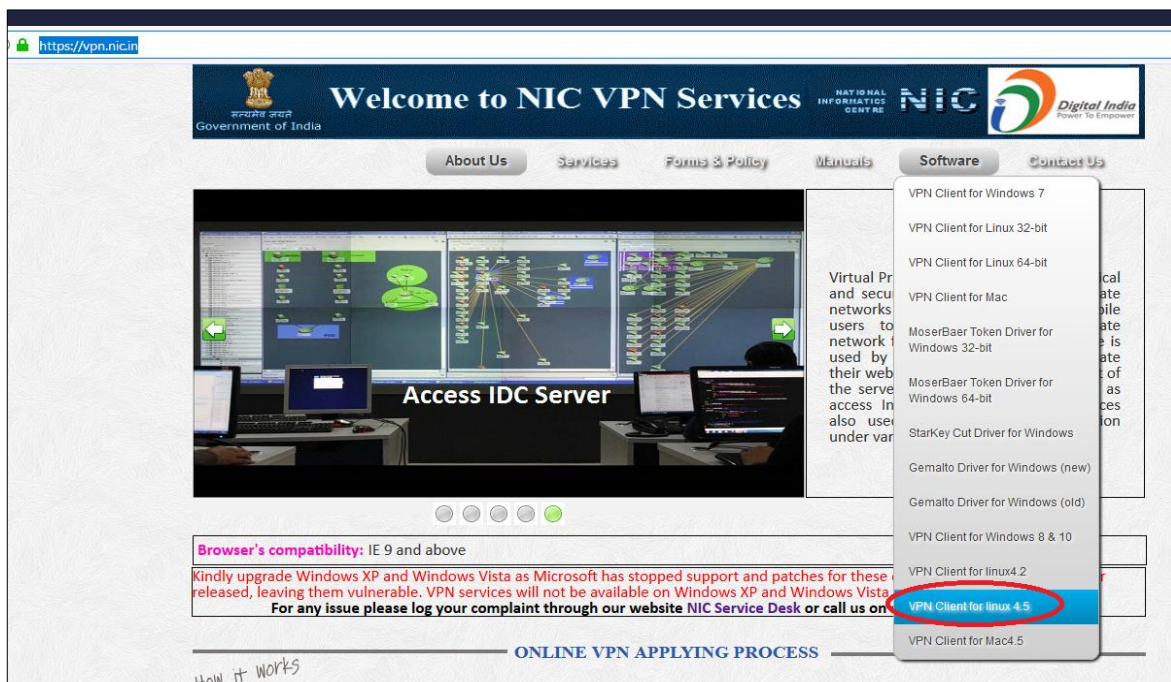


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## Manual for Configuring Cisco AnyConnect Secure Mobility Client in Ubuntu if user name is not prefilled

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] 
```

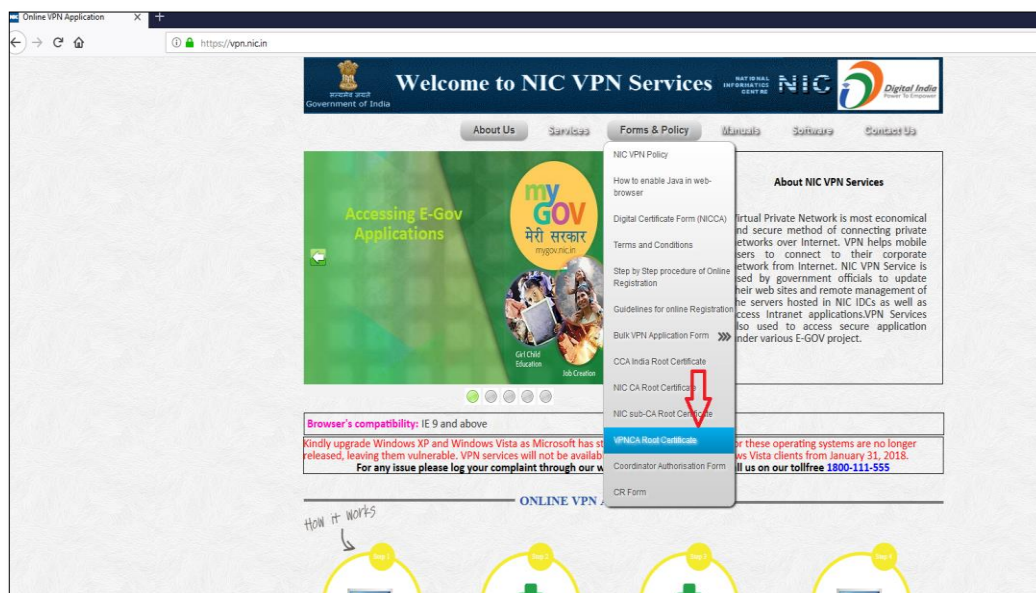
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- Package is installed on your system now as given below

```
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

- First download the root certificate to desktop as given below



- Download the certificate to desktop which is received from vpnservices@nic.in
- Make ready your password which is received from vpnservices@nic.in
- Make ready your private key which is received by SMS in your mobile
- 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

```

ot@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:

```

```

ot@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:
MAC verified OK
Enter PEM pass phrase:

```

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:

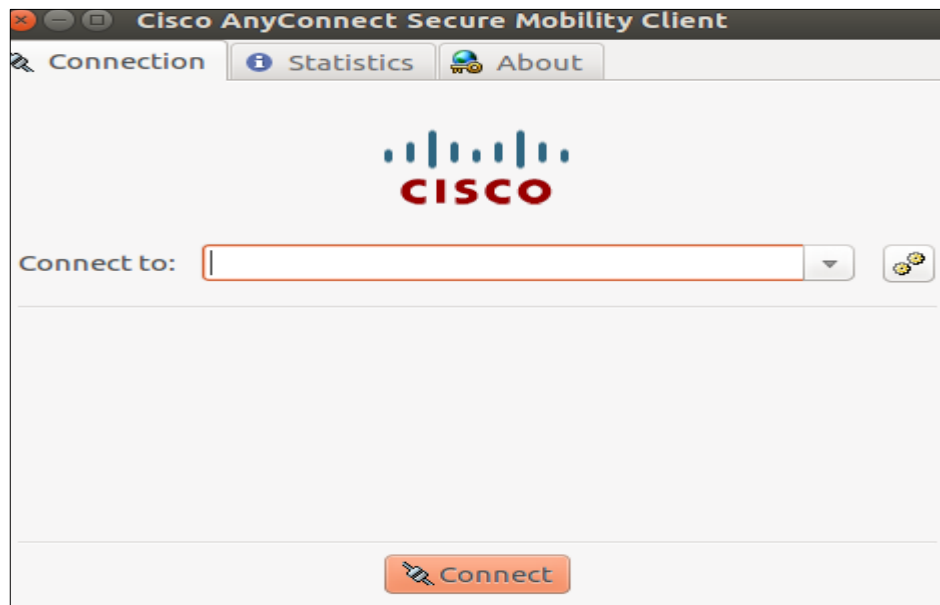
```

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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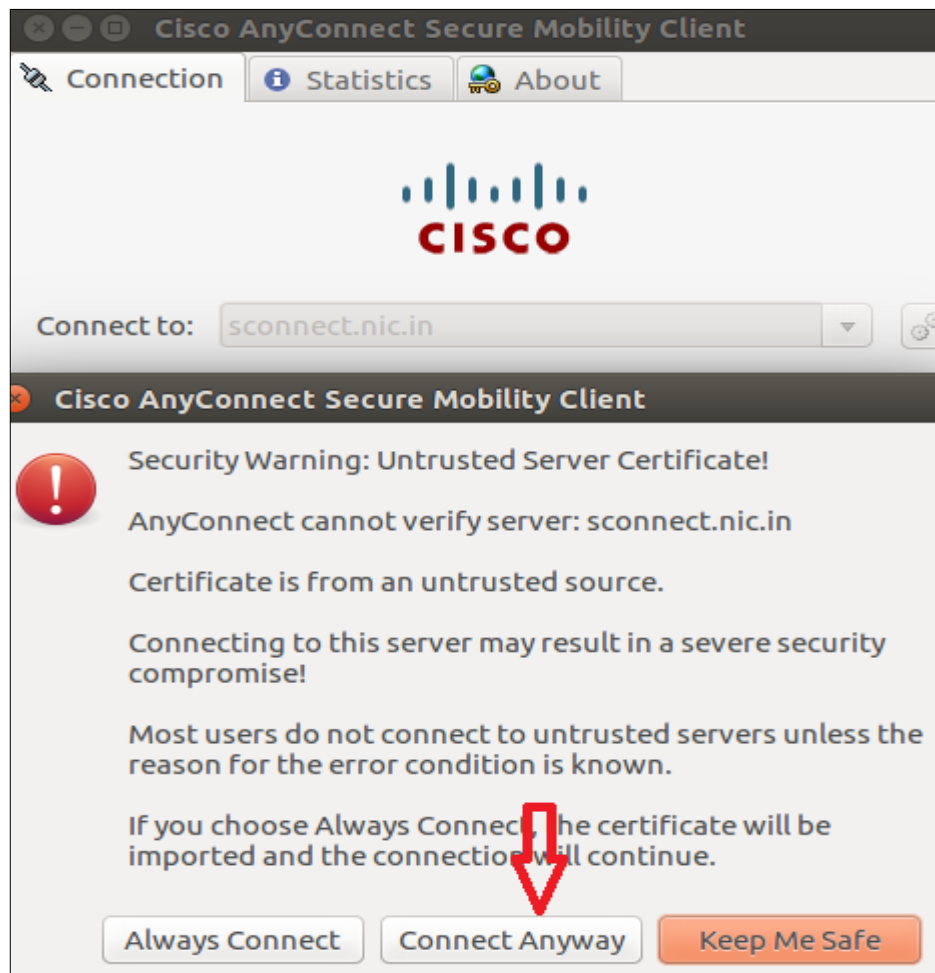


13. Write sconnect.nic.in as given below



14. Select connect anyway as given below

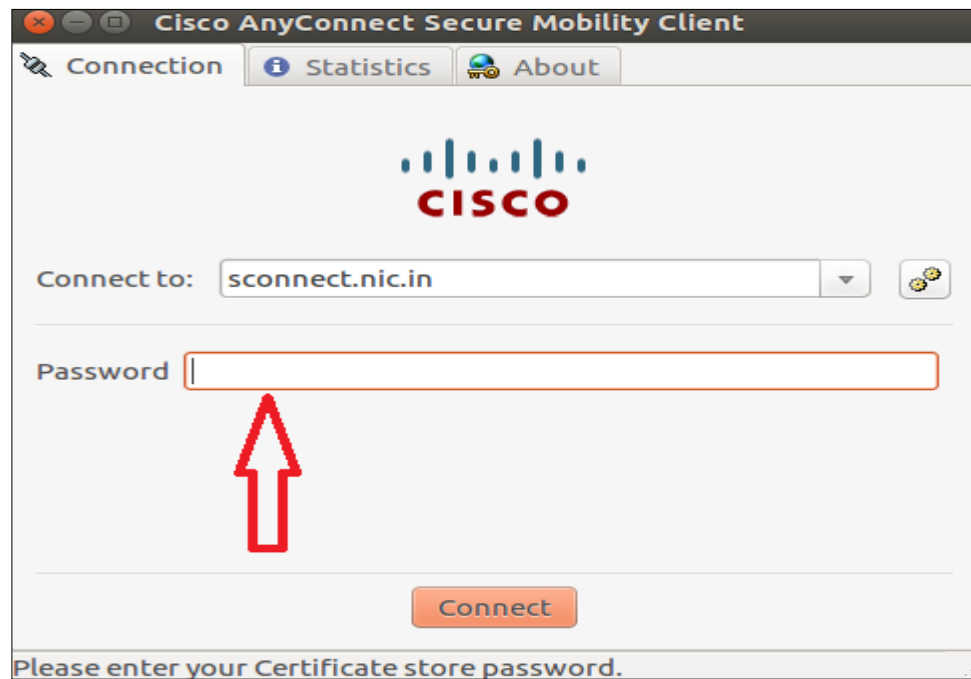
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15. Enter the private key received by sms as given below



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



17. VPN will be connected in a minute