

Remote Access VPN Configuration Guide – (L2TP-IPSEC & MFA SSTP)

Setup Instructions



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Enable Client VPN in the Uplevel Portal
<https://portal.uplevelsystems.com>

uplevel SYSTEMS Michael Rathon - Sergey Office

← To Dashboard

Overview

Devices

Wi-Fi

VPN

Storage

Ethernet

Firewall

Site Settings

Enable VPN

Connection Info: Cloud Hub VPN

VPN Hub Server IP: [REDACTED]

Protocols: L2TP/IPsec with pre-shared key (PSK), SSTP, SSL

Pre-Shared Key for L2TP: [REDACTED]

Root certificate for SSTP: [Download here](#)

Primary Site: [↗](#)
DNS settings taken from primary site if selected.

Use native VPN clients for L2TP, Windows 10 clients for SSTP, SoftEther VPN client for SSL.

Connection Info: Direct Site Remote Access

Select a primary site above to determine if direct remote-access VPN is possible.

Users

[Click here to add a VPN user...](#)

Click to add users

uplevel SYSTEMS Michael Rathon - Sergey Office

[← To Dashboard](#)

[Overview](#)

[Devices](#)

[Wi-Fi](#)

[VPN](#)

[Storage](#)

[Ethernet](#)

[Firewall](#)

[Site Settings](#)

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

Users

sergey-test

Enable this user

User Name

Password

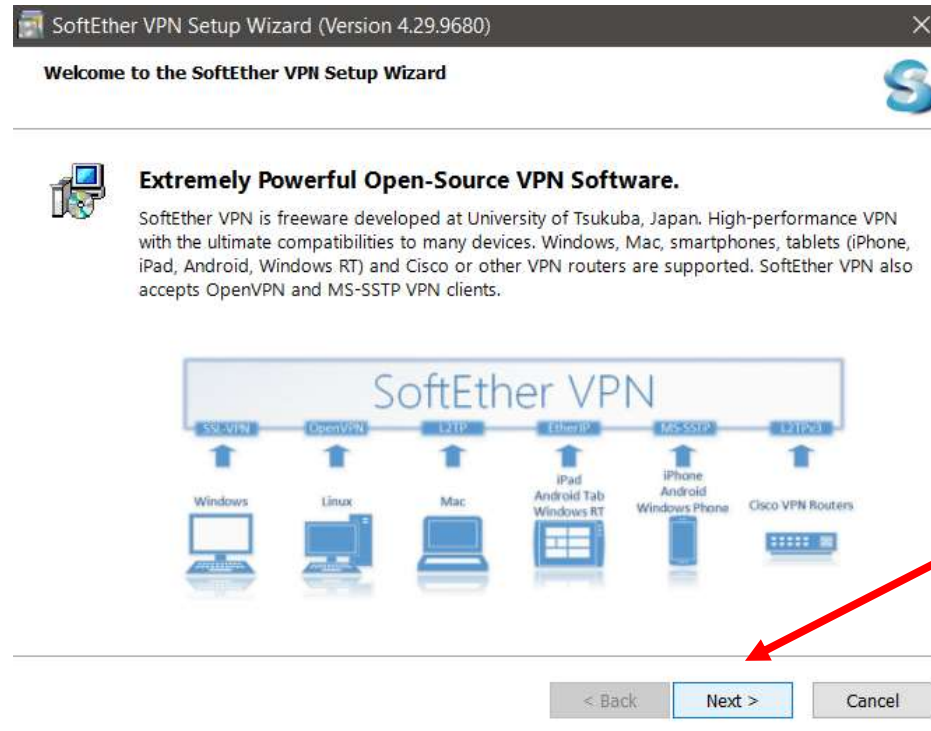
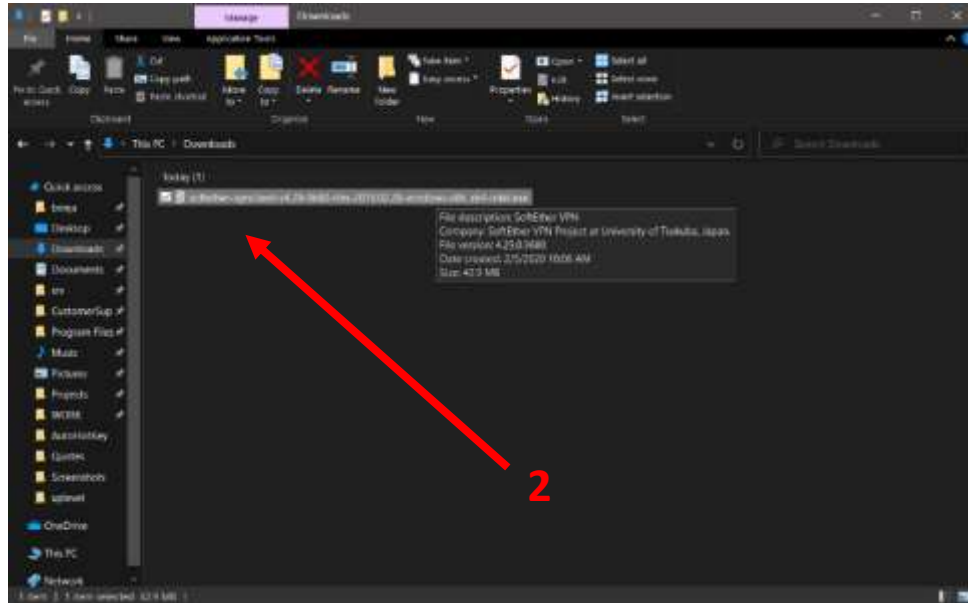
Member of

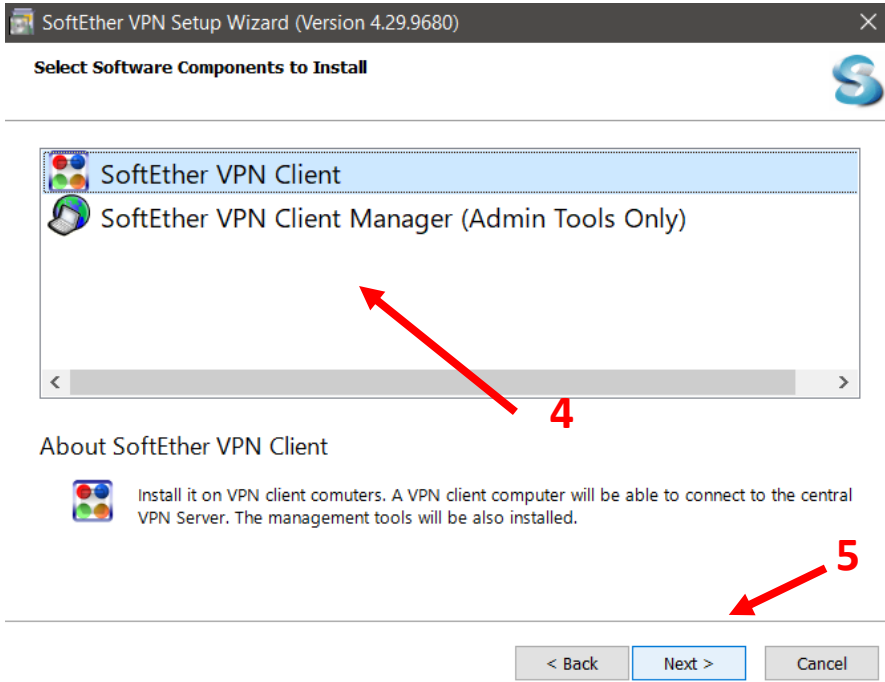
- Username
- Password
- Security Group (VLAN)

SoftEther Client Configuration

Installing SoftEther

1. [Download](#) SoftEther VPN Client
2. Double click the installer file
3. Choose Next





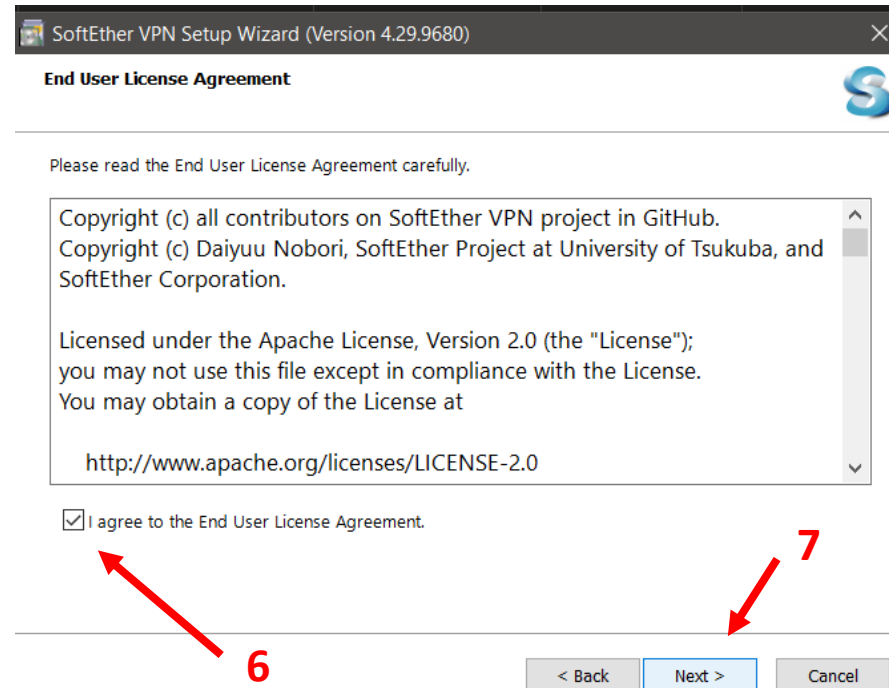
Installing SoftEther

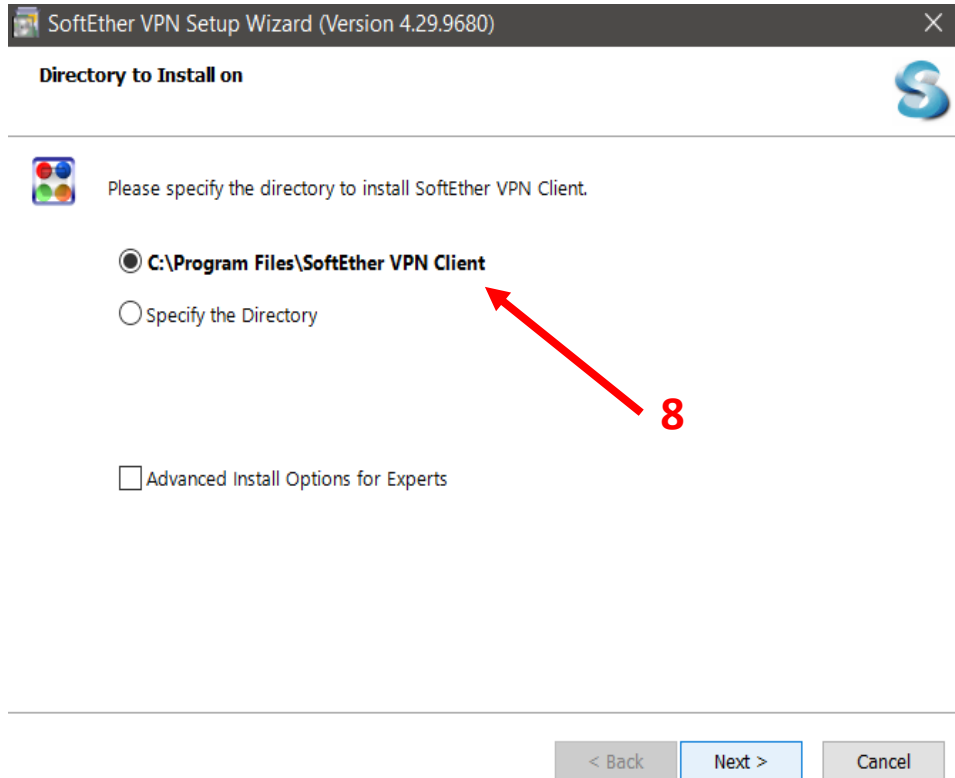
4. Choose SoftEther VPN Client

5. Choose Next

6. Agree to the EULA

7. Choose Next





8

8. Choose the install directory

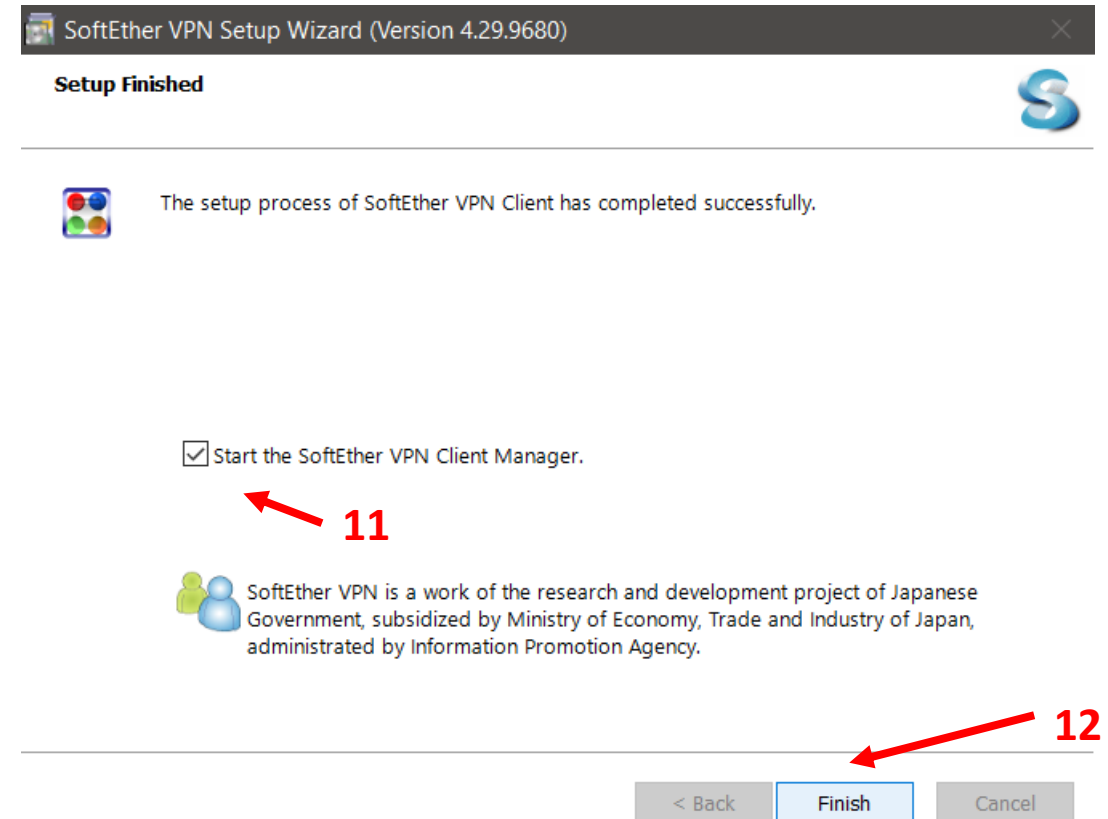
9. Choose Next

10. Choose Next to install

11. Choose Start SoftEther VPN Client Manager

12. Choose Finish

9



11

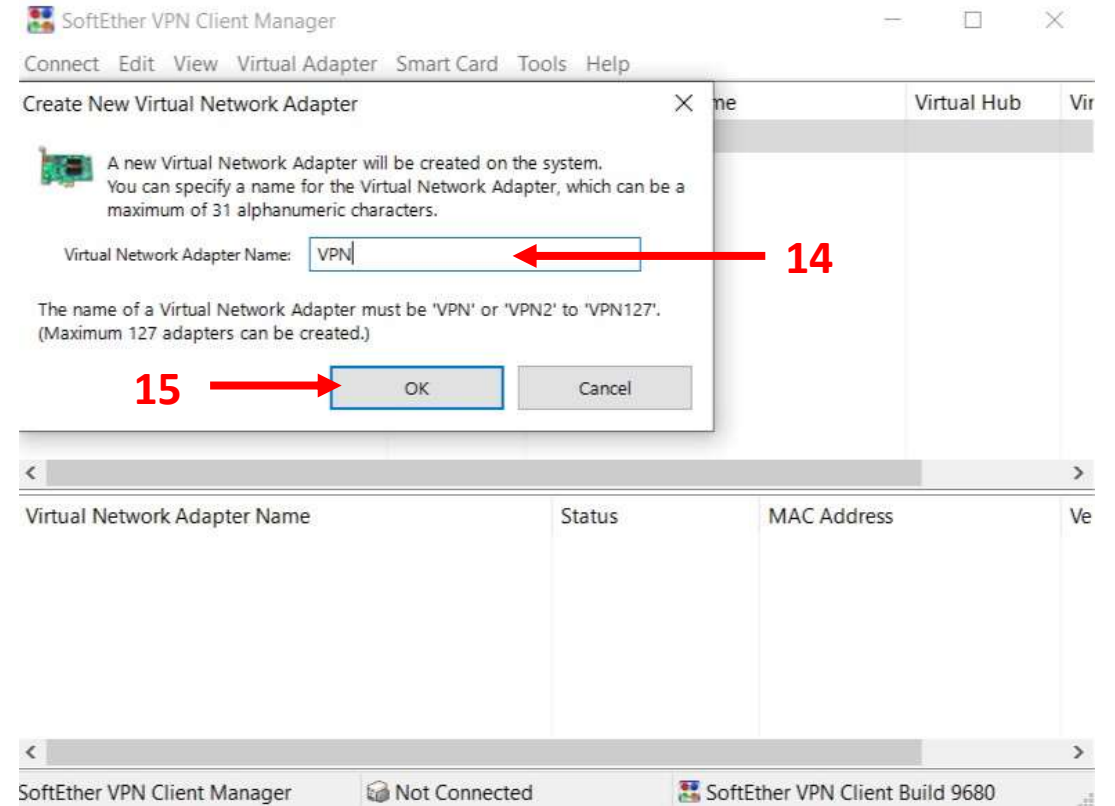
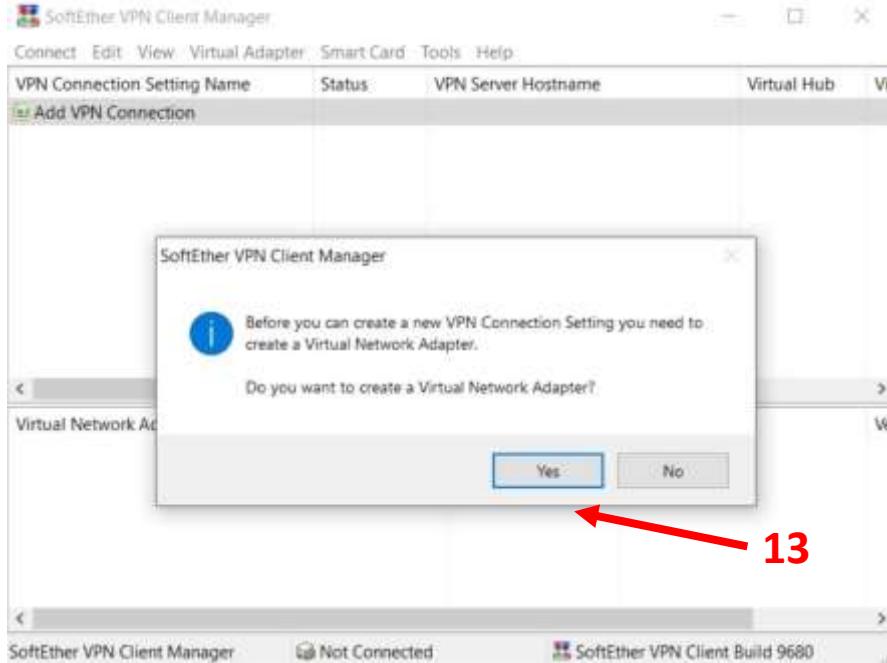
12

Adding a VPN Adaptor

13. Answer Yes to add a VPN Adaptor

14. Name the Adapter: VPN or VPN2 – VPN127

15. Click OK



The screenshot shows the 'SoftEther VPN Client Manager' window with the 'Add VPN Connection' button highlighted (16). Below it, the 'Properties of DogFood' dialog box is open, showing various configuration fields:

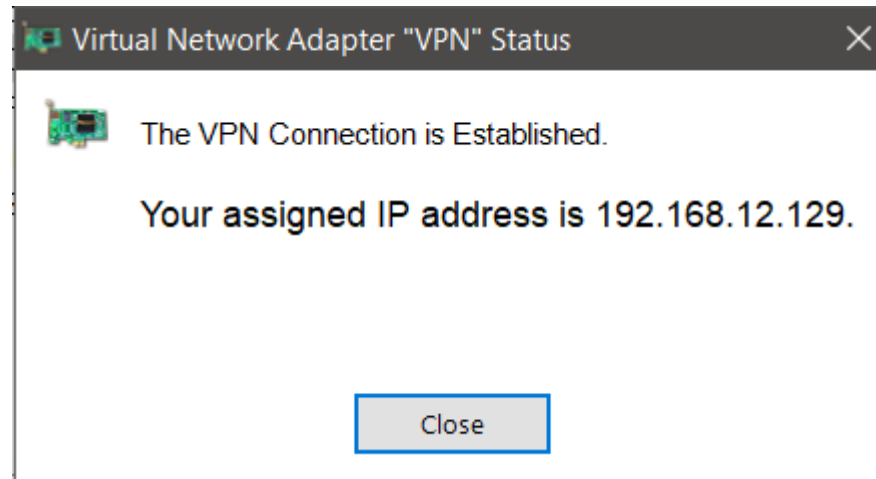
- Setting Name:** DogFood
- Destination VPN Server:**
 - Host Name: [Redacted] (17)
 - Port Number: [Redacted] (18)
 - Virtual Hub Name: DEFAULT (19)
- User Authentication Setting:**
 - Auth Type: Standard Password Authentication
 - User Name: ben (20)
 - Password: [Redacted] (20)
- Advanced Setting of Communication:**
 - Reconnects Automatically After Disconnected
 - Reconnect Count: [] times
 - Reconnect Interval: [15] seconds
 - Infinite Reconnects (Keep VPN Always Online)
 - Use SSL 3.0 (1)

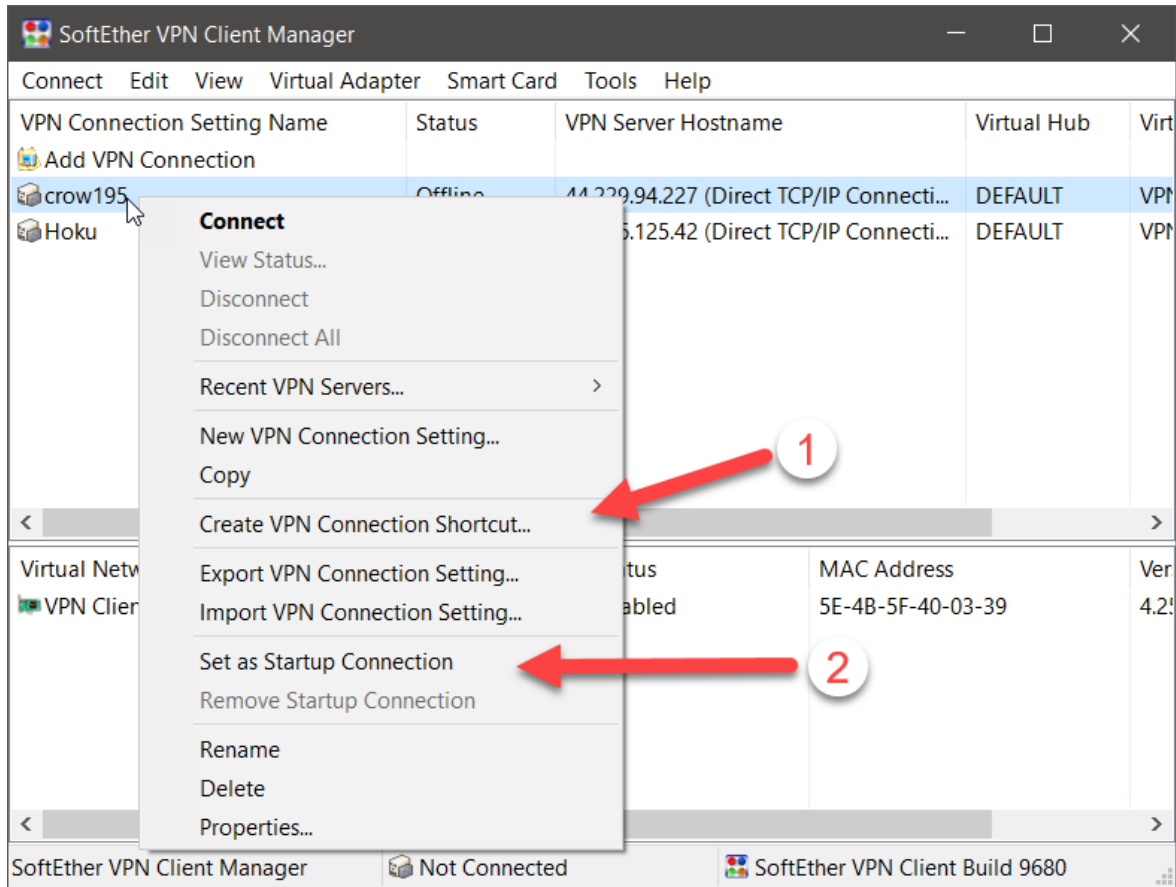
At the bottom, the 'OK' button is highlighted (21).

Configuring the VPN

16. Choose Add VPN Connection
17. Set IP Address from Uplevel UI
18. Set Port to 443
19. Choose VLAN – Default is the Employees VLAN. Please choose Boss if you are configuring a Boss Group member.
20. Set User Name and Password
21. Choose OK

Success!

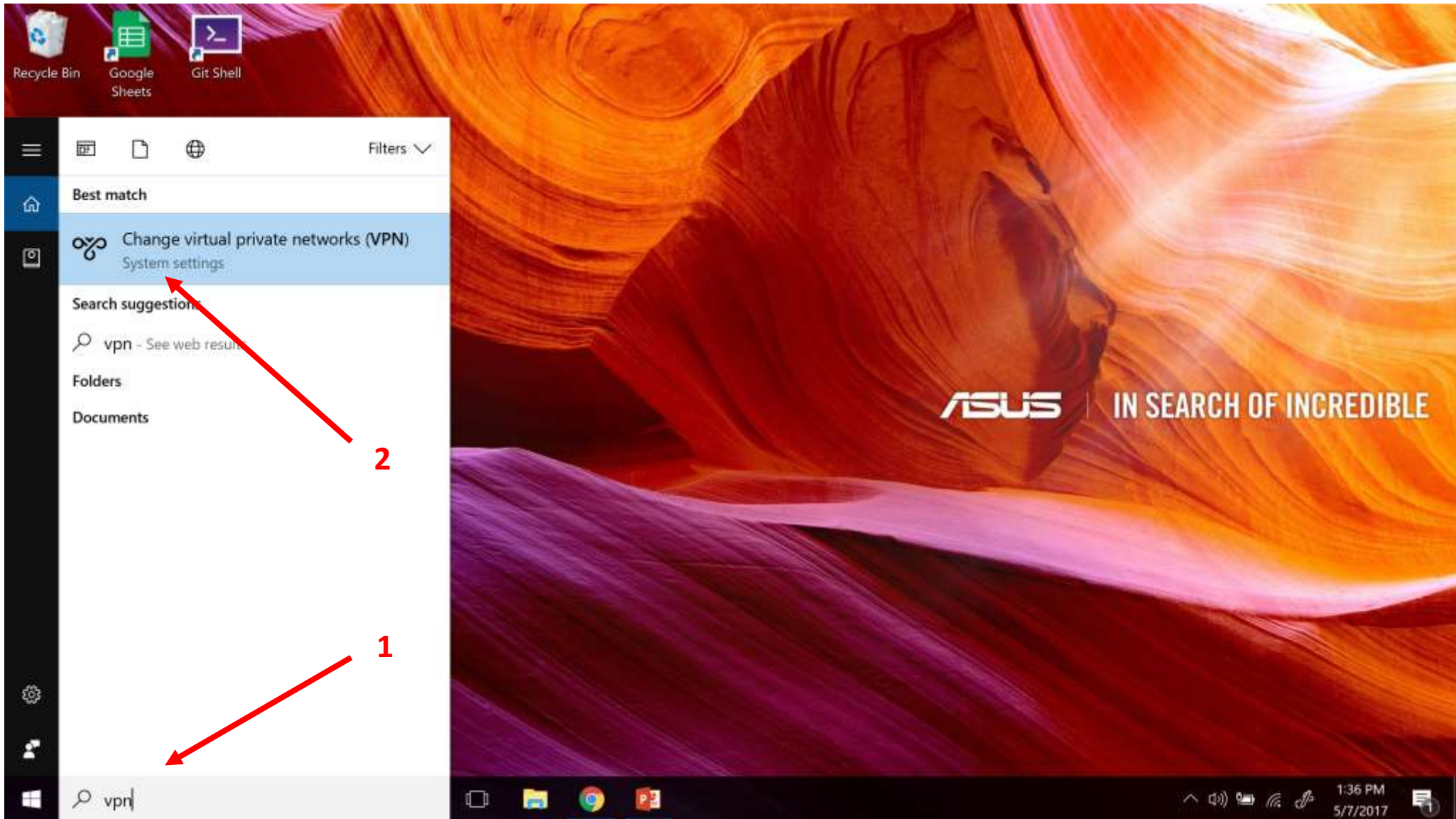


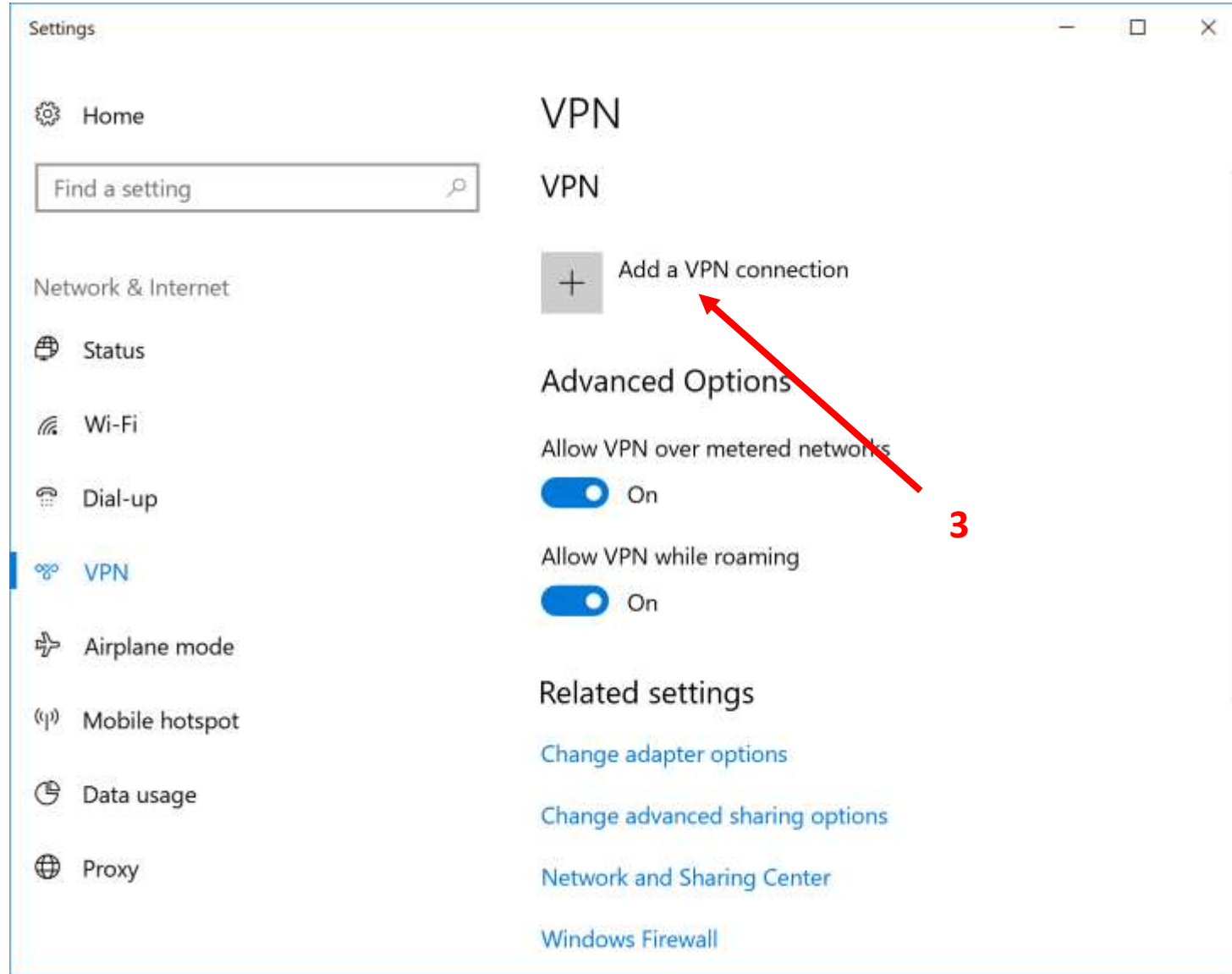


SoftEther Options

1. Send a shortcut to the Desktop
2. Set SoftEther to automatically connect when Windows starts

L2TP Configuration for Windows 10





Michael Rathon - Sergey Office

Enable VPN **4**

Connection Information

Server: [redacted] **4**

Shared Key: [redacted] **6**

Users

sergey-test

Enable this user

User Name: Boss_Remote_Access Password: e4dw2j2o Member of: Boss

Cancel Save

Settings

Add a VPN connection

VPN provider: Windows (built-in)

Connection name: Remote Boss

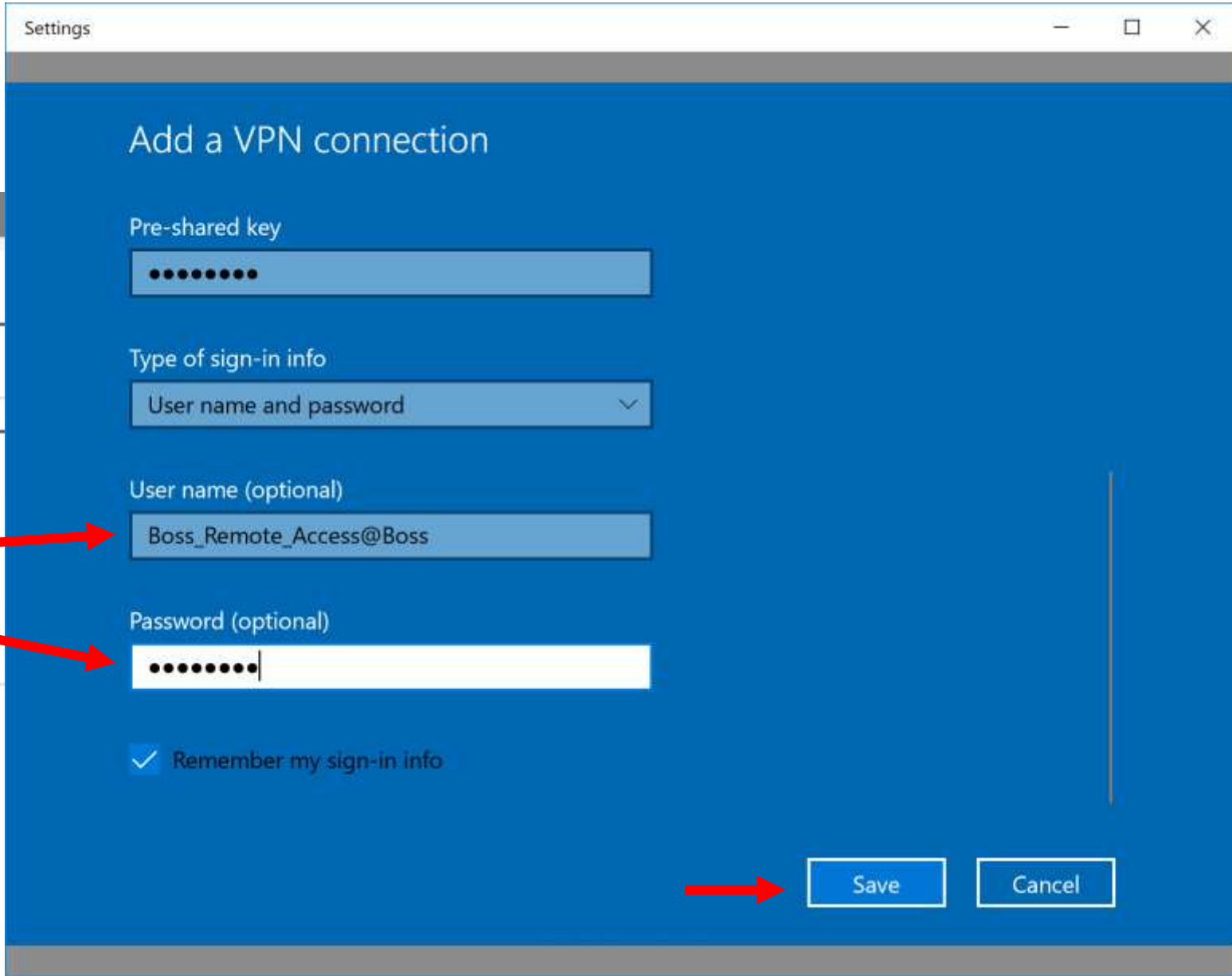
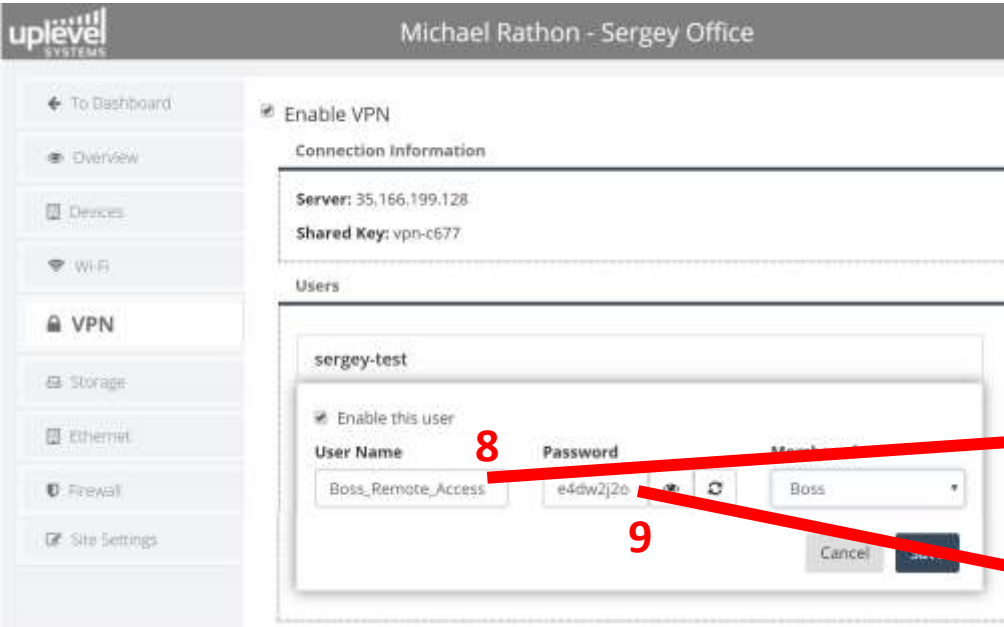
Server name or address: [redacted]

VPN type: L2TP/IPsec with pre-shared key **5**

Pre-shared key: [redacted]

7 Scroll Down

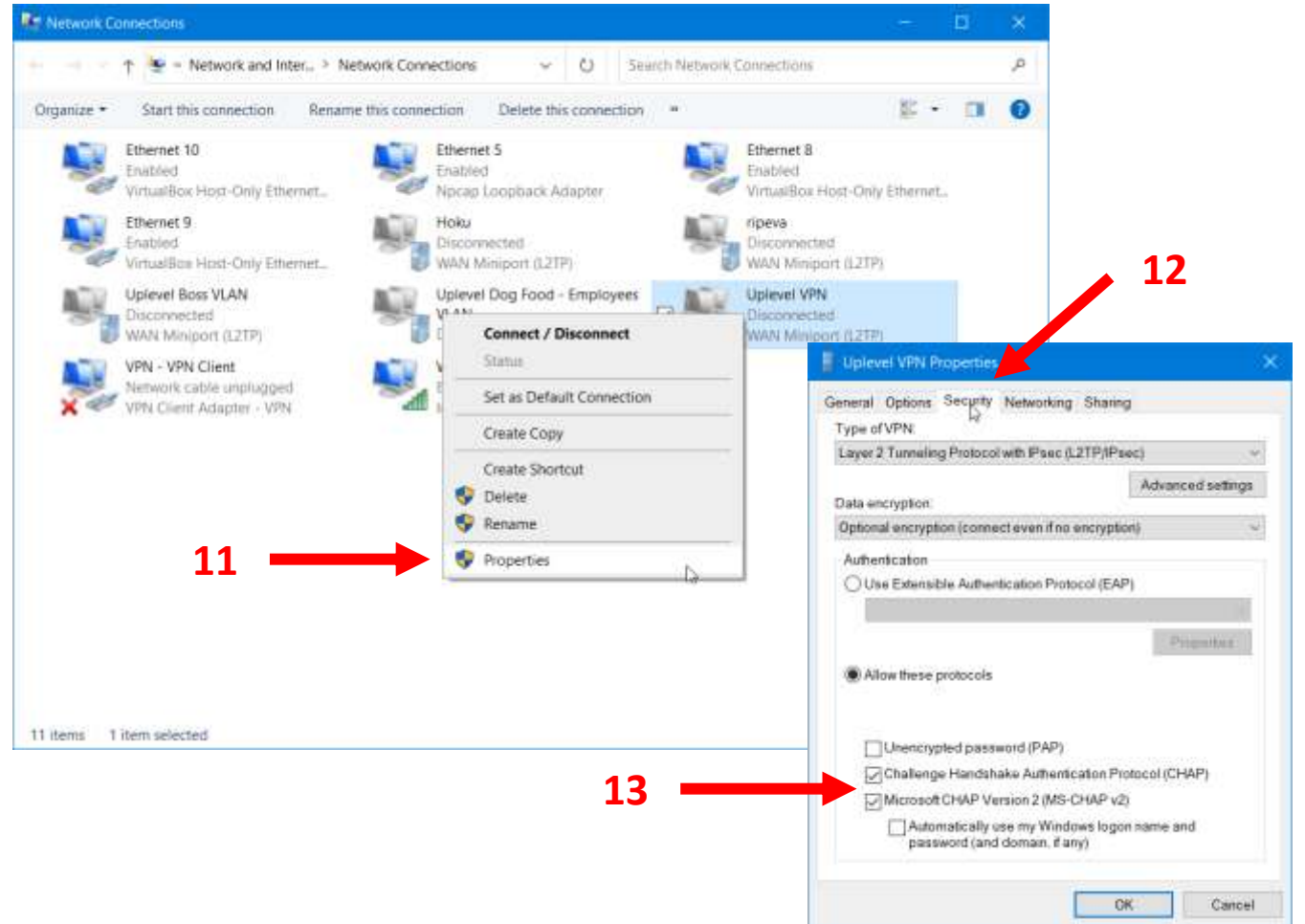
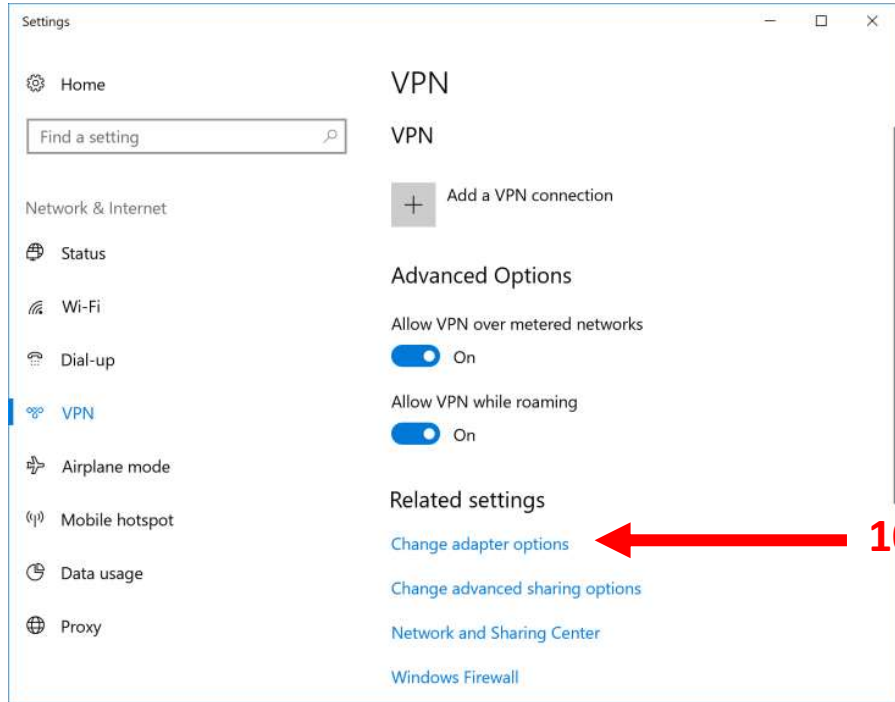
Save Cancel



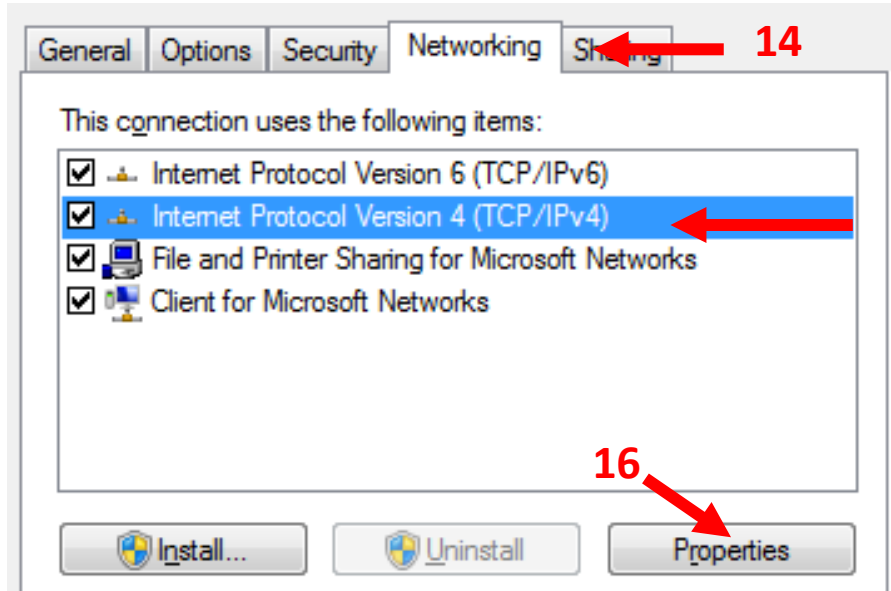
Add @Boss to UserName to identify security Group in SMB Network

Enable CHAPv2

- 10. Change Adapter Settings
- 11. Choose Properties
- 12. Choose Security Tab
- 13. Allow these Protocols – CHAP & MS-CHAP-V2



Enabling Split Tunneling



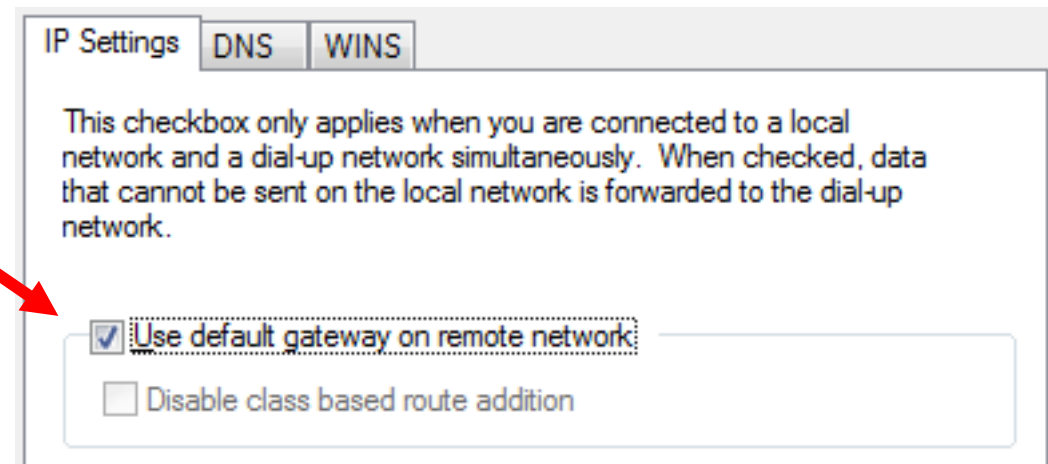
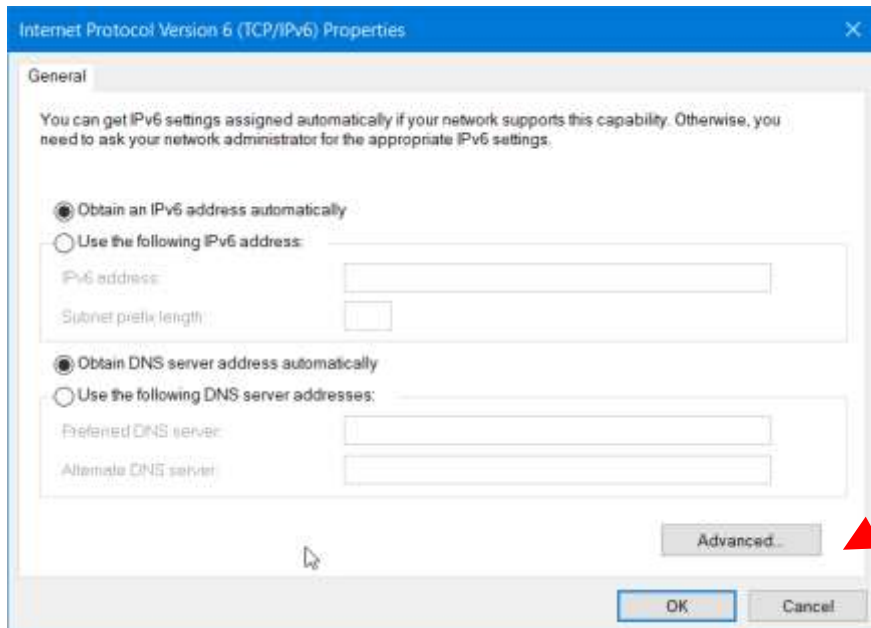
14. Choose Networking

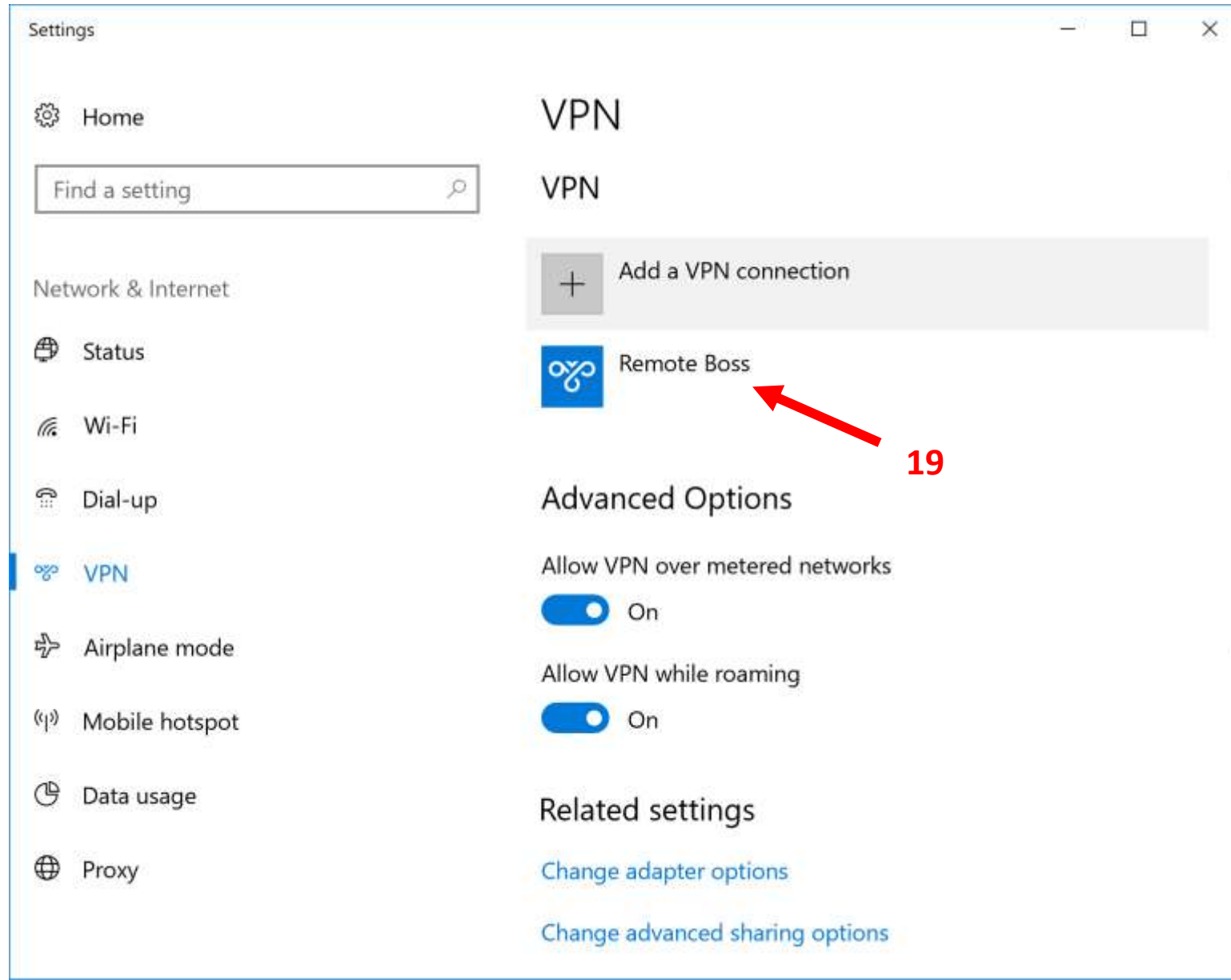
15. Highlight Internet Protocol Version 4 (TCP/IPv4)

16. Click Properties

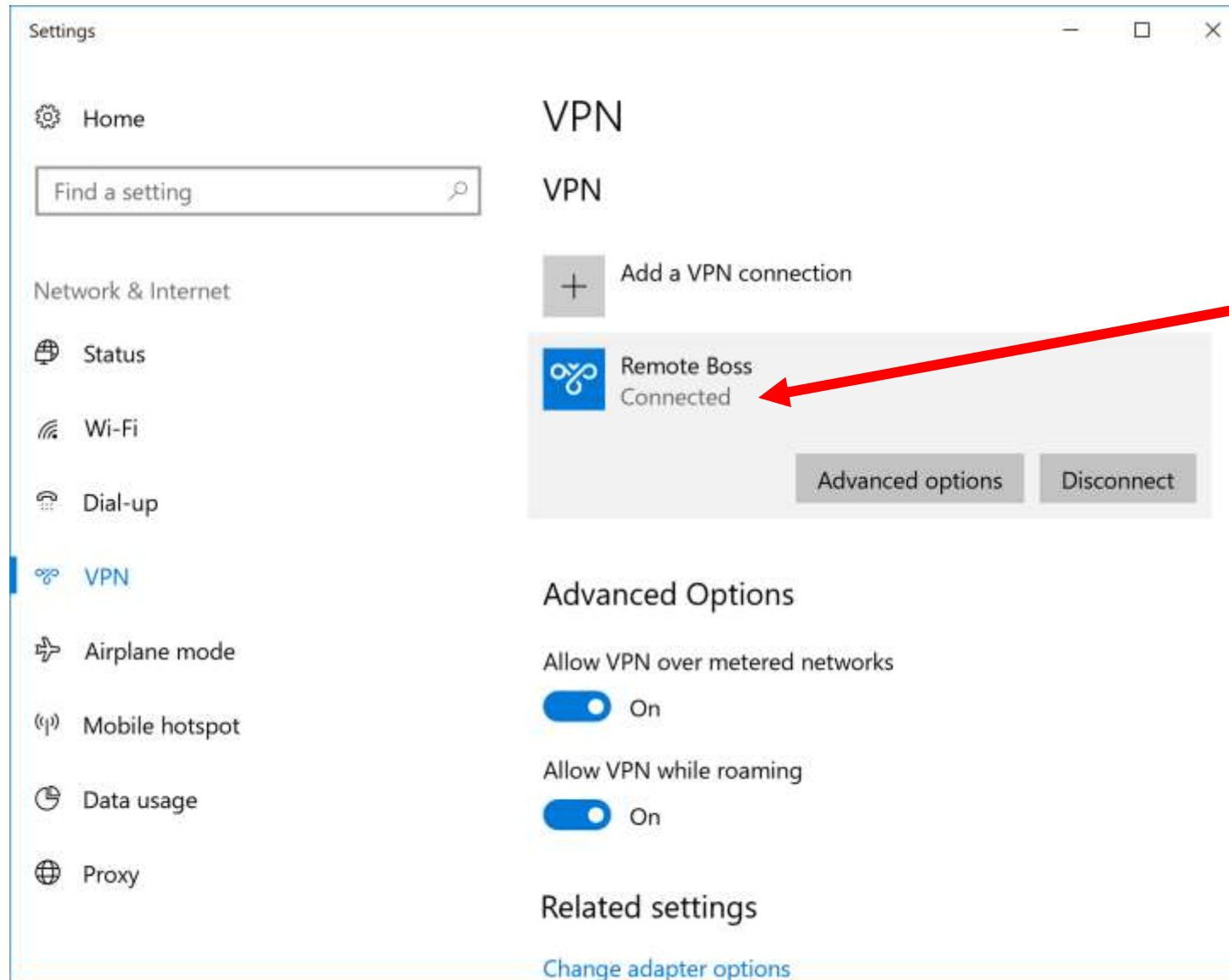
17. Click Advanced

18. Deselect the box for "Use default gateway on remote network"



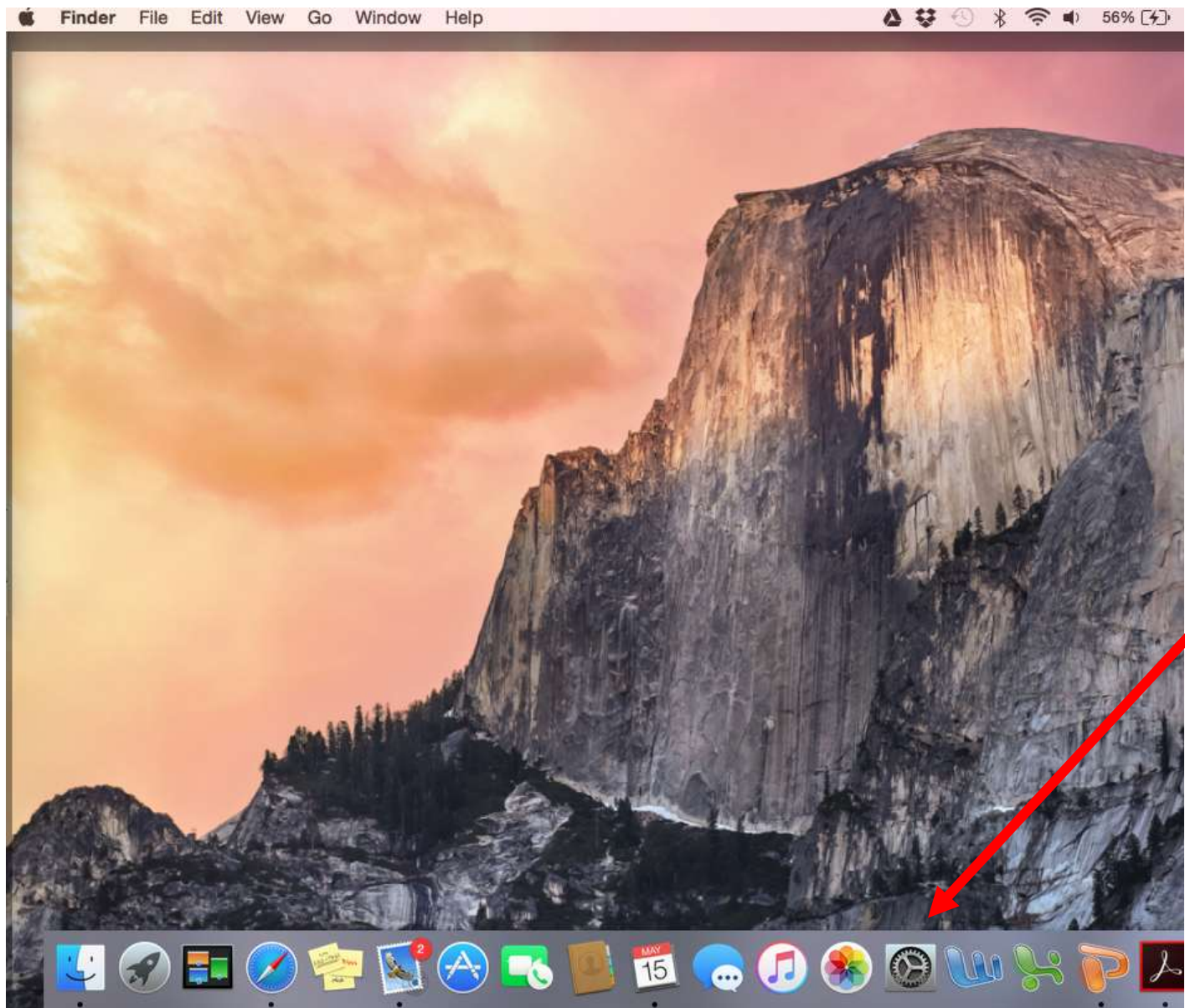


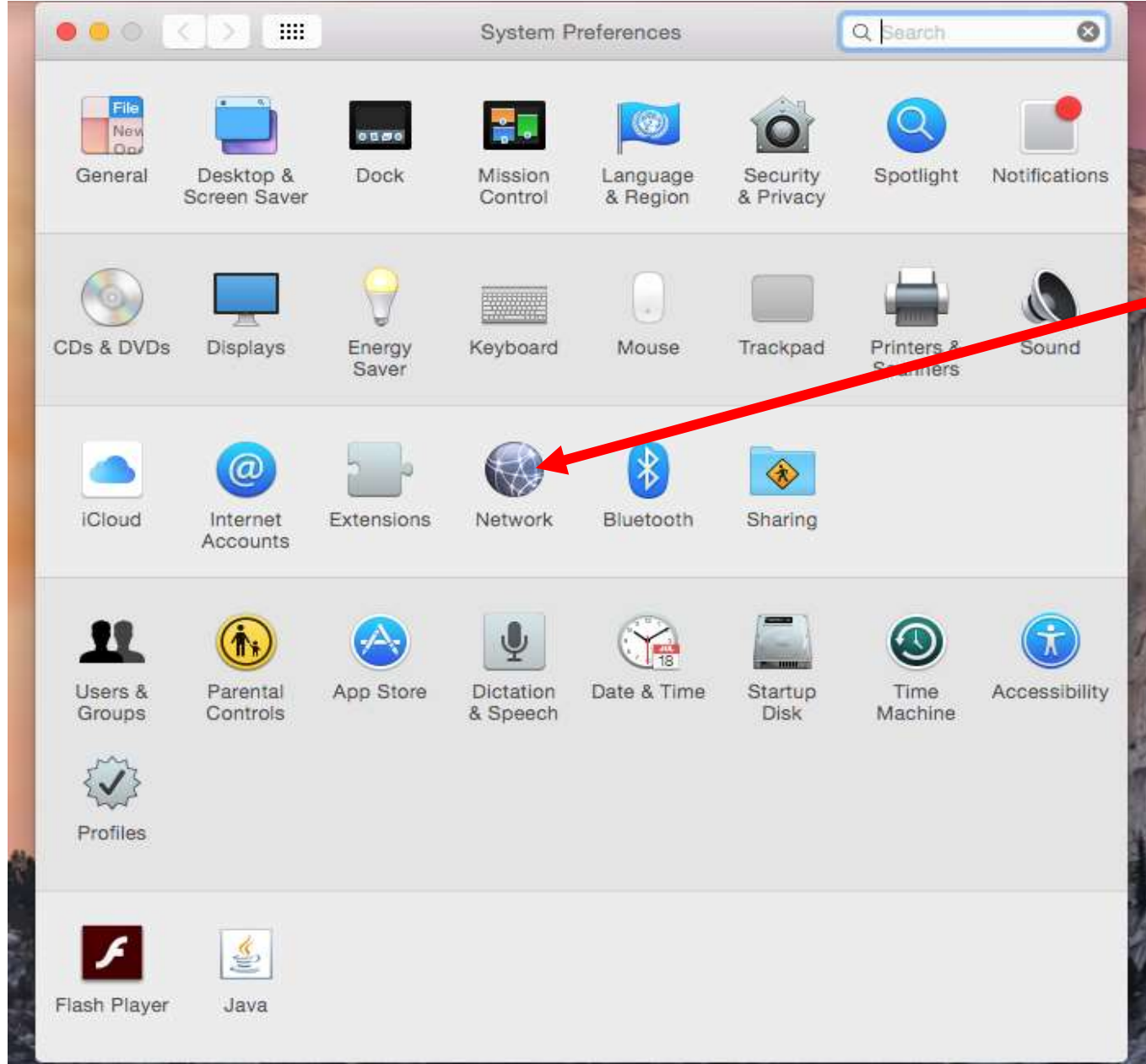
The screenshot shows the Windows 10 Settings application with the 'VPN' section selected in the left-hand navigation pane. The main content area is titled 'VPN' and features a search bar at the top. Below the search bar, there is a section for 'Network & Internet' with sub-options for Status, Wi-Fi, Dial-up, VPN (highlighted), Airplane mode, Mobile hotspot, Data usage, and Proxy. The 'VPN' section contains a '+ Add a VPN connection' button and a list of existing connections. The first connection is 'Remote Boss', which has a blue icon with a white infinity symbol. Below the 'Remote Boss' entry are three buttons: 'Connect', 'Advanced options', and 'Remove'. A red arrow points to the 'Connect' button, with the number '20' written in red next to it. Below the 'Connect' button is the 'Advanced Options' section, which includes two toggle switches: 'Allow VPN over metered networks' (set to 'On') and 'Allow VPN while roaming' (set to 'On'). At the bottom of the page is the 'Related settings' section, which includes a link for 'Change adapter options'.



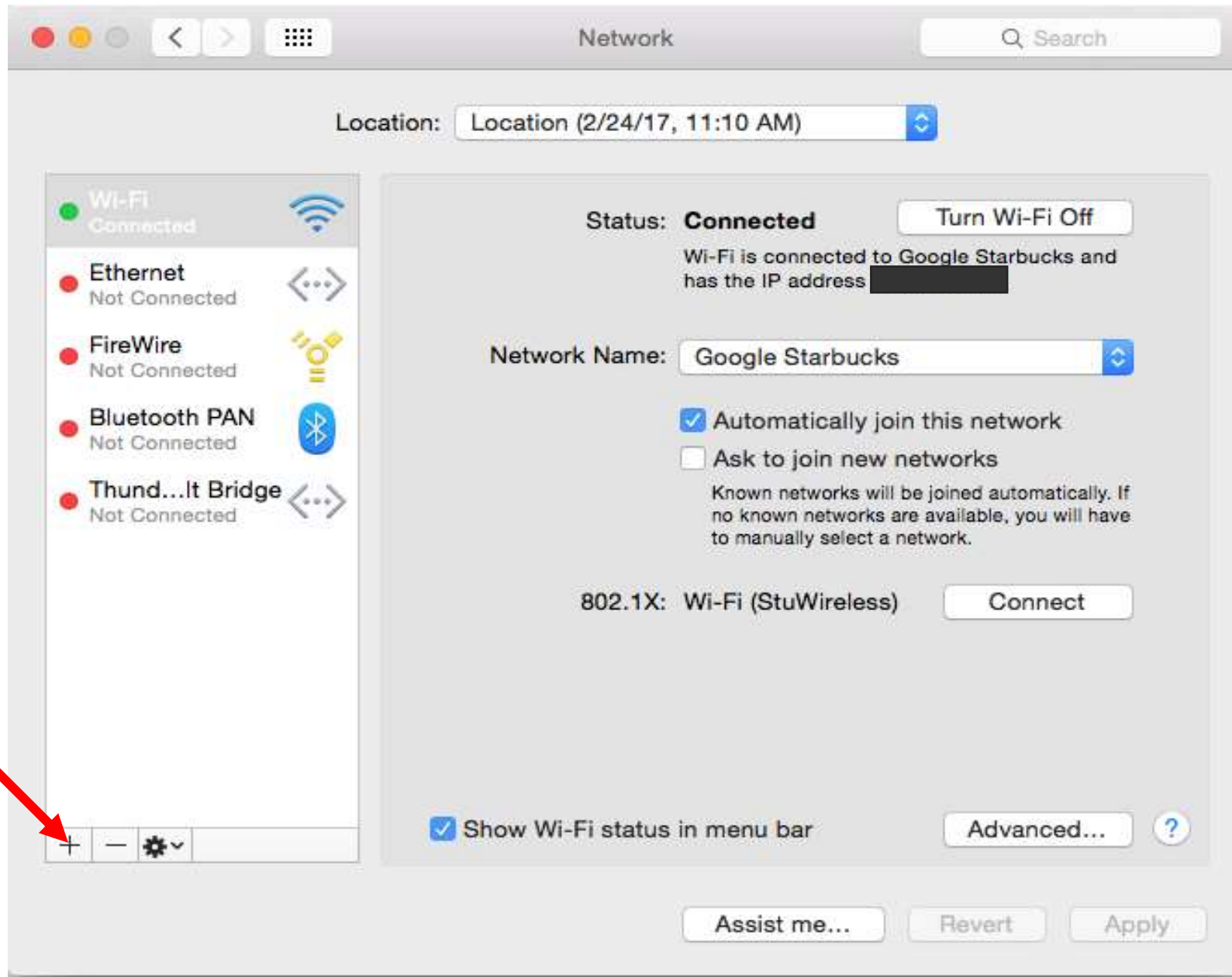
SUCCESS!

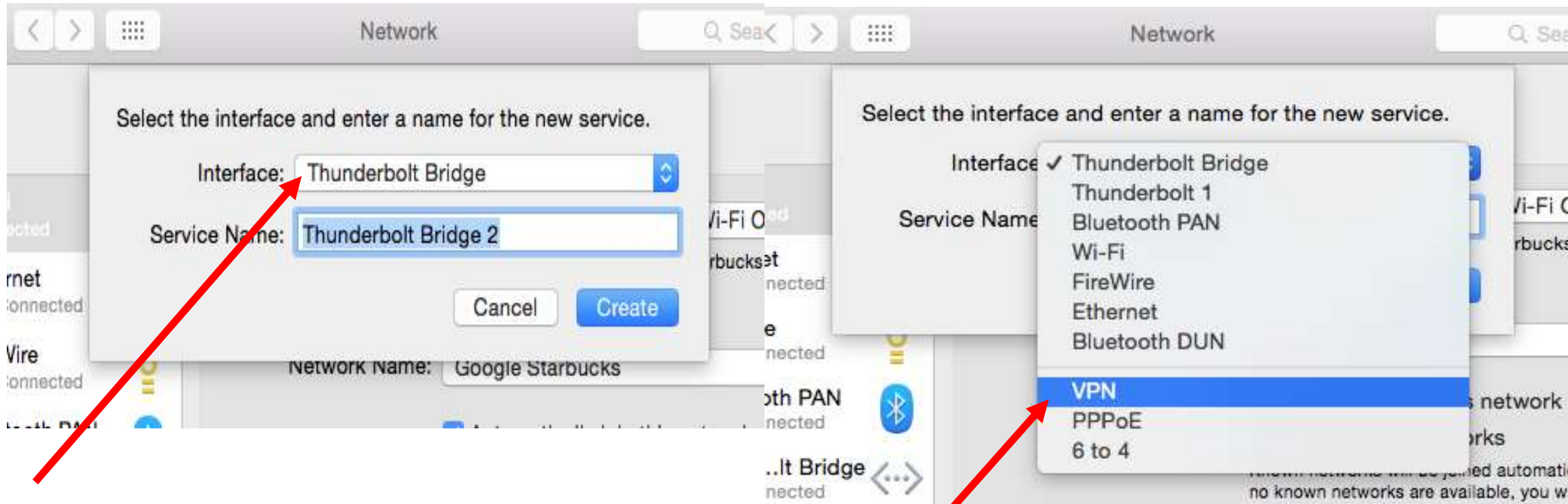
L2TP Configuration for OSX

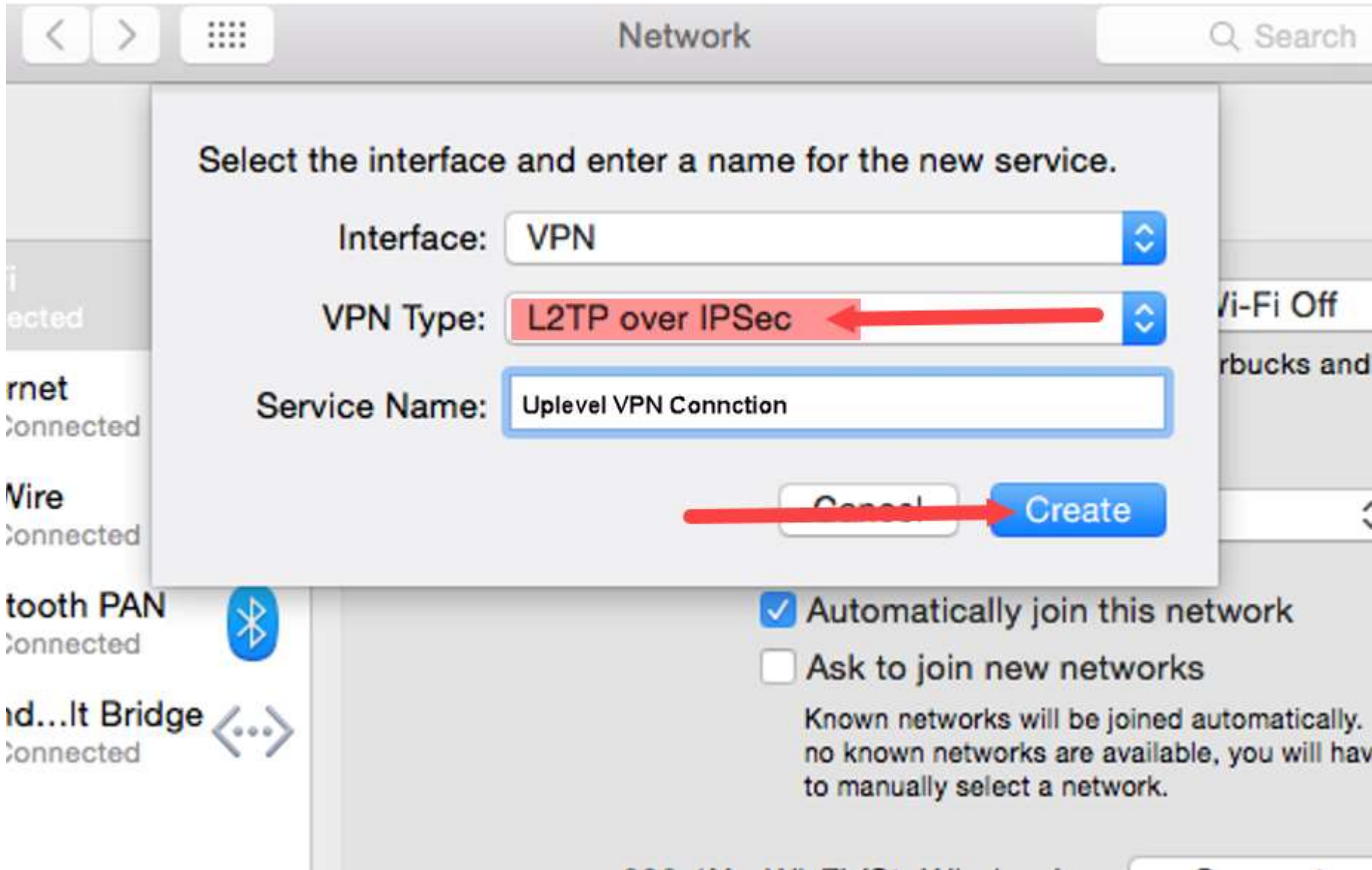


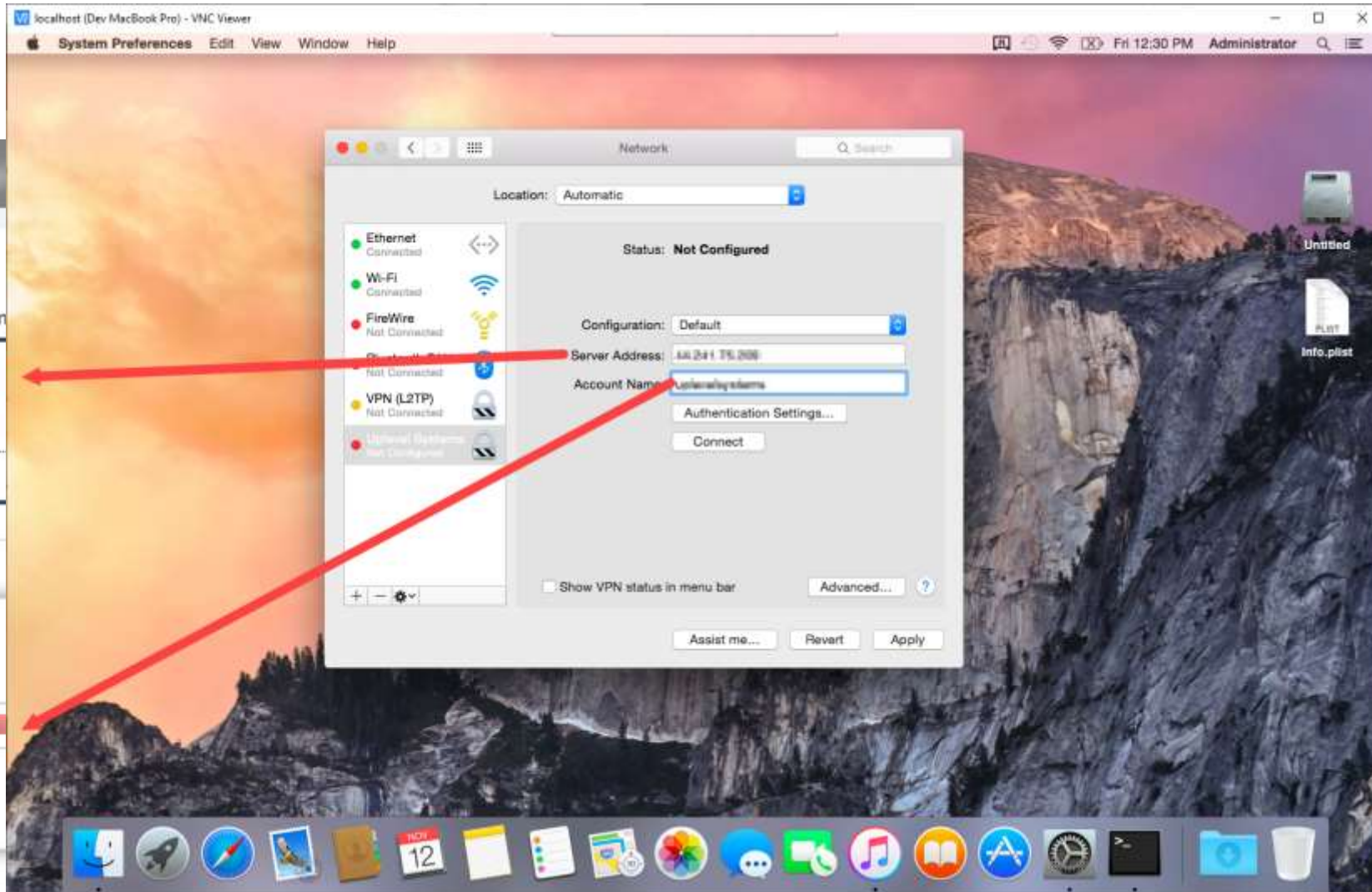


2









The image shows a macOS VPN configuration window titled "Michael Rathon - Sergey Office". The window is divided into several sections:

- Enable VPN:** A checked checkbox.
- Connection Information:** Fields for "Server:" and "Shared Key:", both of which are redacted with black boxes.
- Users:** A list of users, with "sergey-test" selected. Below the list, there is a sub-window for configuring the user "sergey-test".

The sub-window for "sergey-test" includes:

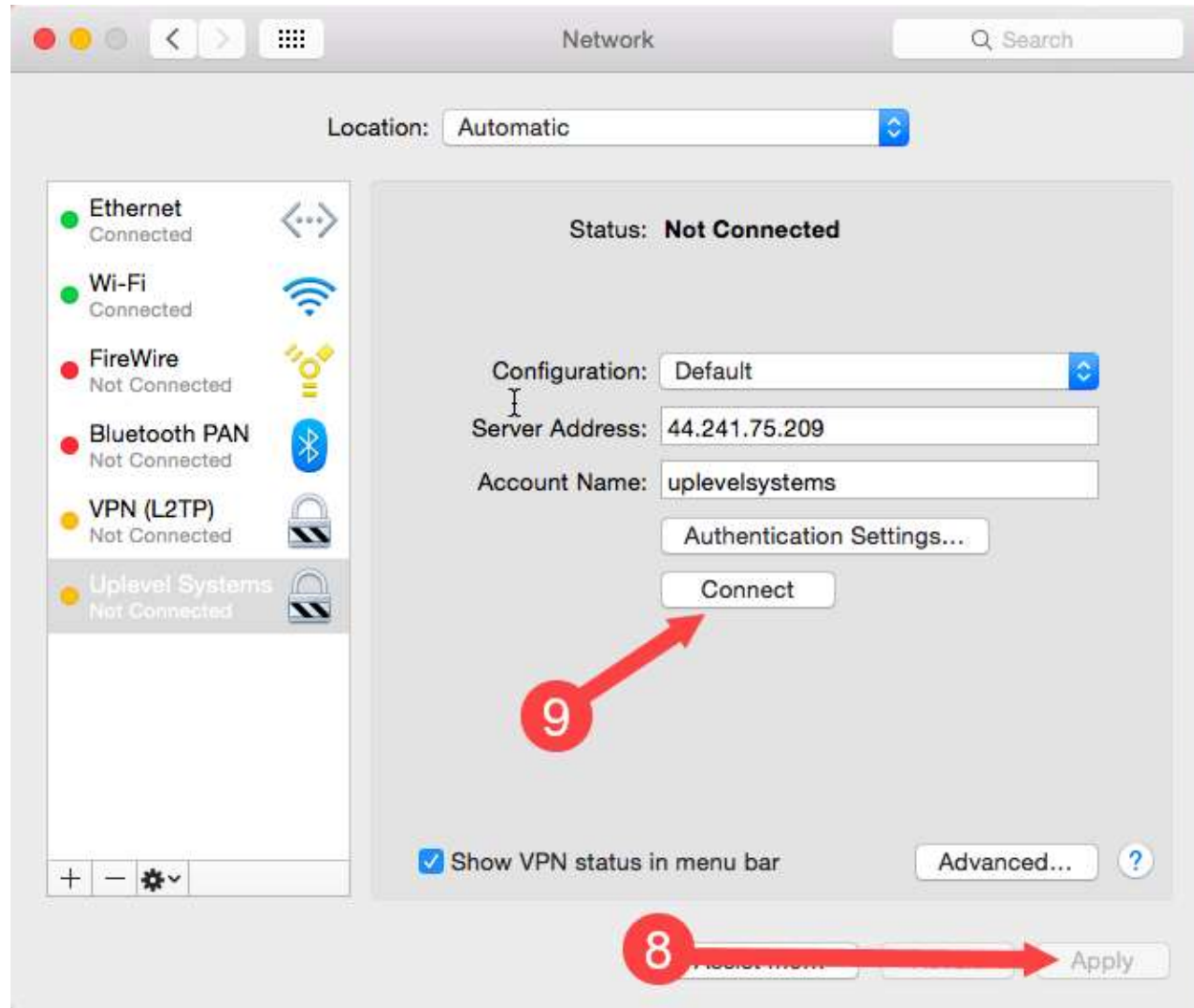
- Enable this user:** A checked checkbox.
- User Name:** A text field containing "sergey-test".
- Password:** A text field containing "12345678", with an eye icon to toggle visibility and a refresh icon.
- Member of:** A dropdown menu showing "Boss".

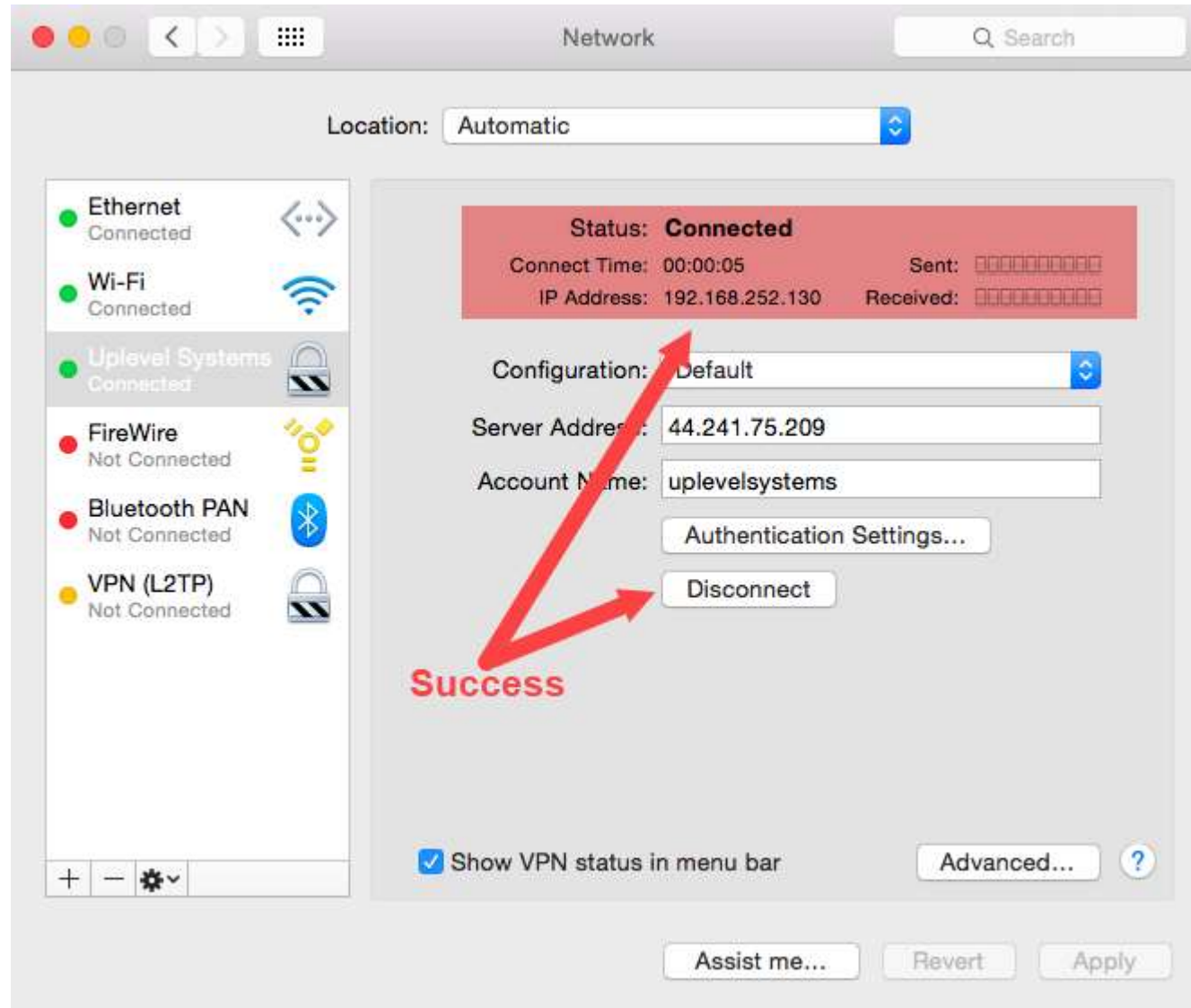
Overlaid on the right side of the main window is a "User Authentication" dialog box with the following options:

- User Authentication:**
 - Password: [Redacted]
 - RSA SecurID
 - Certificate [Select...]
 - Kerberos
 - CryptoCard
- Machine Authentication:**
 - Shared Secret: [Redacted]
 - Certificate [Select...]
- Group Name:** A text field containing "Default" (Optional).
- Buttons:** "Cancel" and "OK".

Red arrows indicate the following connections:

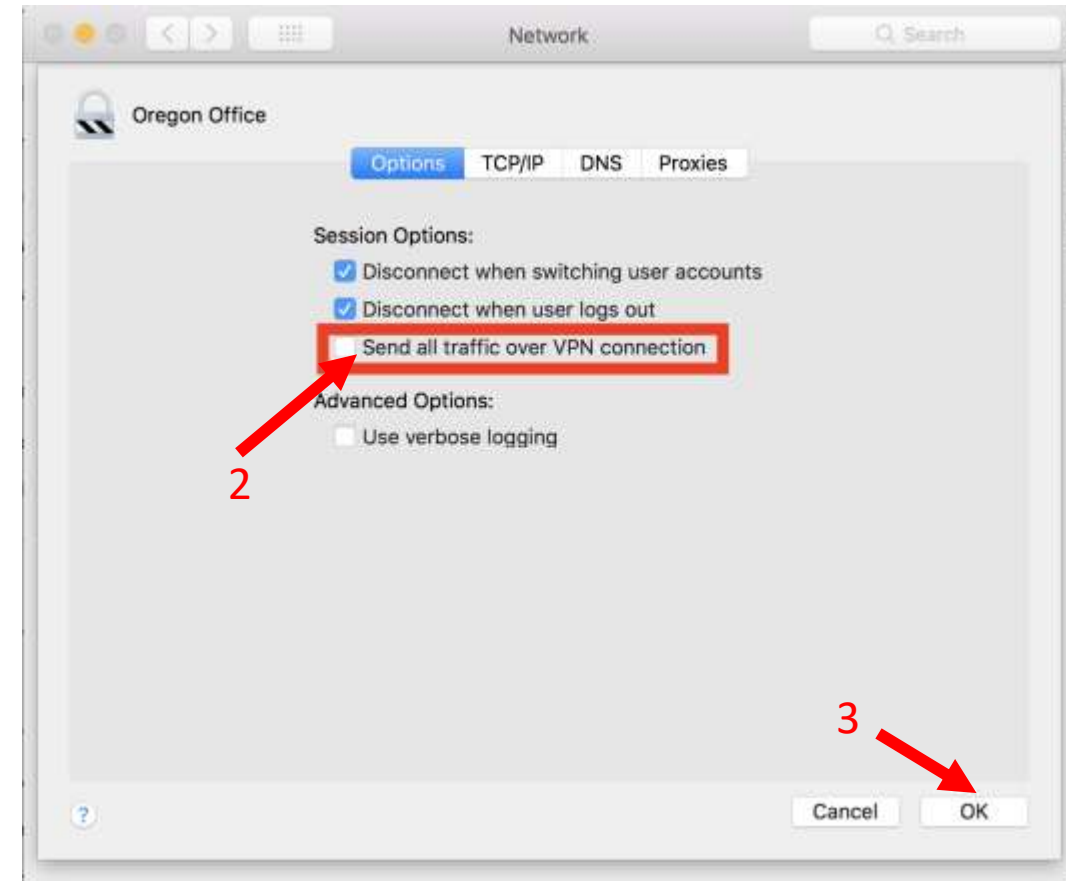
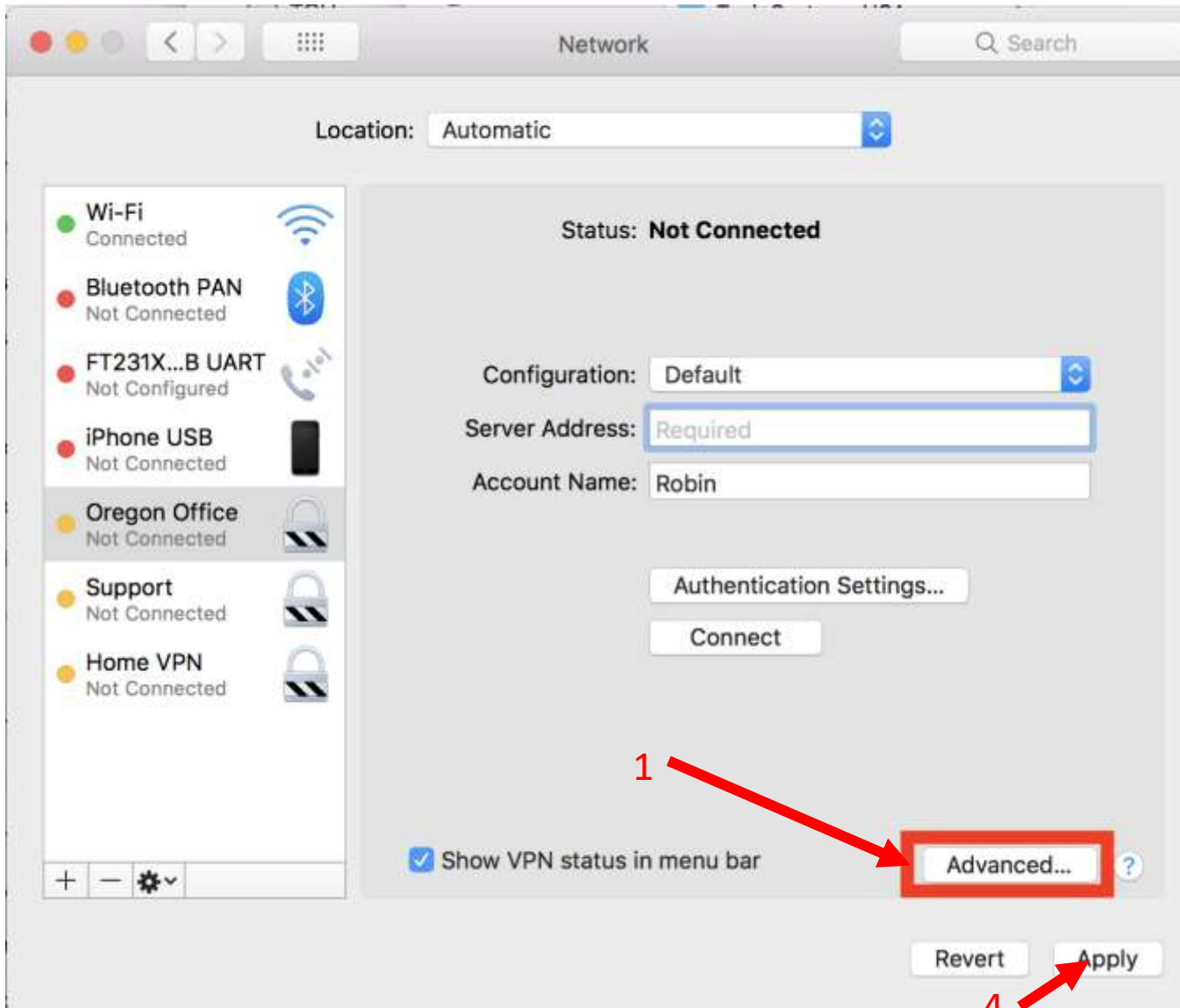
- From the "Shared Key:" field in the main window to the "Shared Secret:" field in the authentication dialog.
- From the "Password:" field in the authentication dialog to the "Password:" field in the user configuration sub-window.
- From the "Group Name:" field in the authentication dialog to the "Member of:" dropdown in the user configuration sub-window.
- From the "OK" button in the authentication dialog to the bottom right corner of the slide, marked with a red "7".



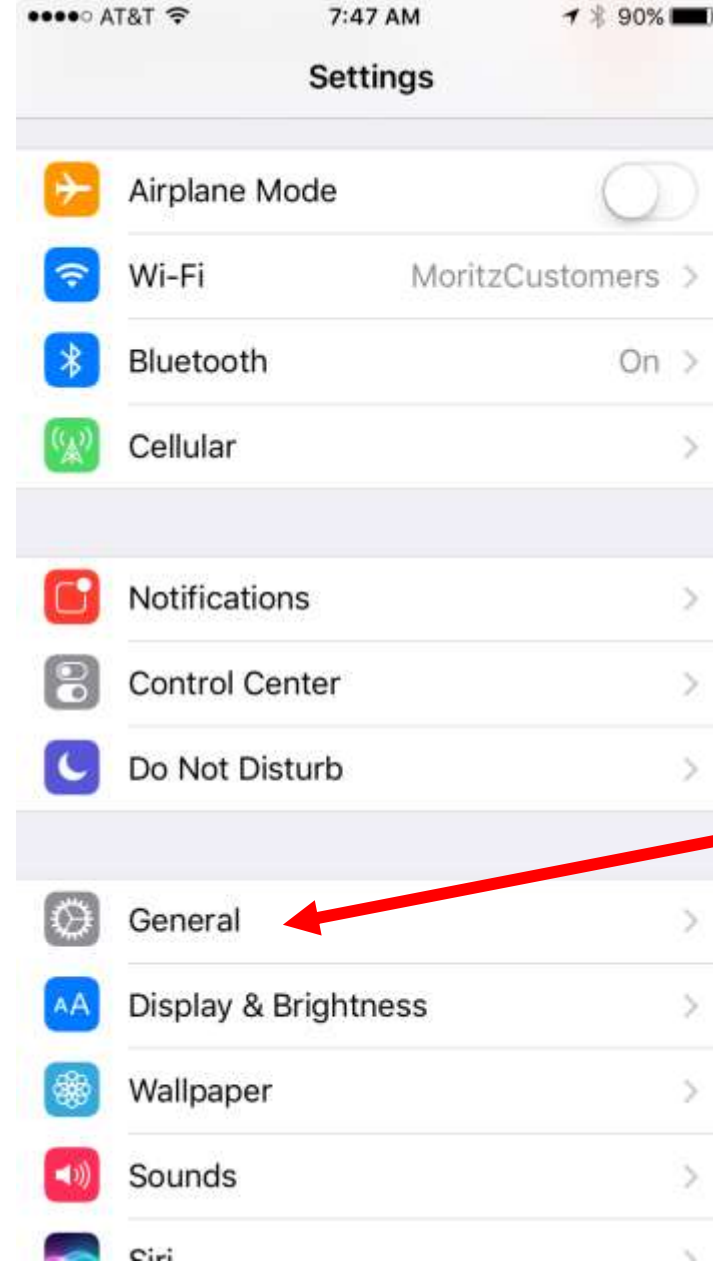
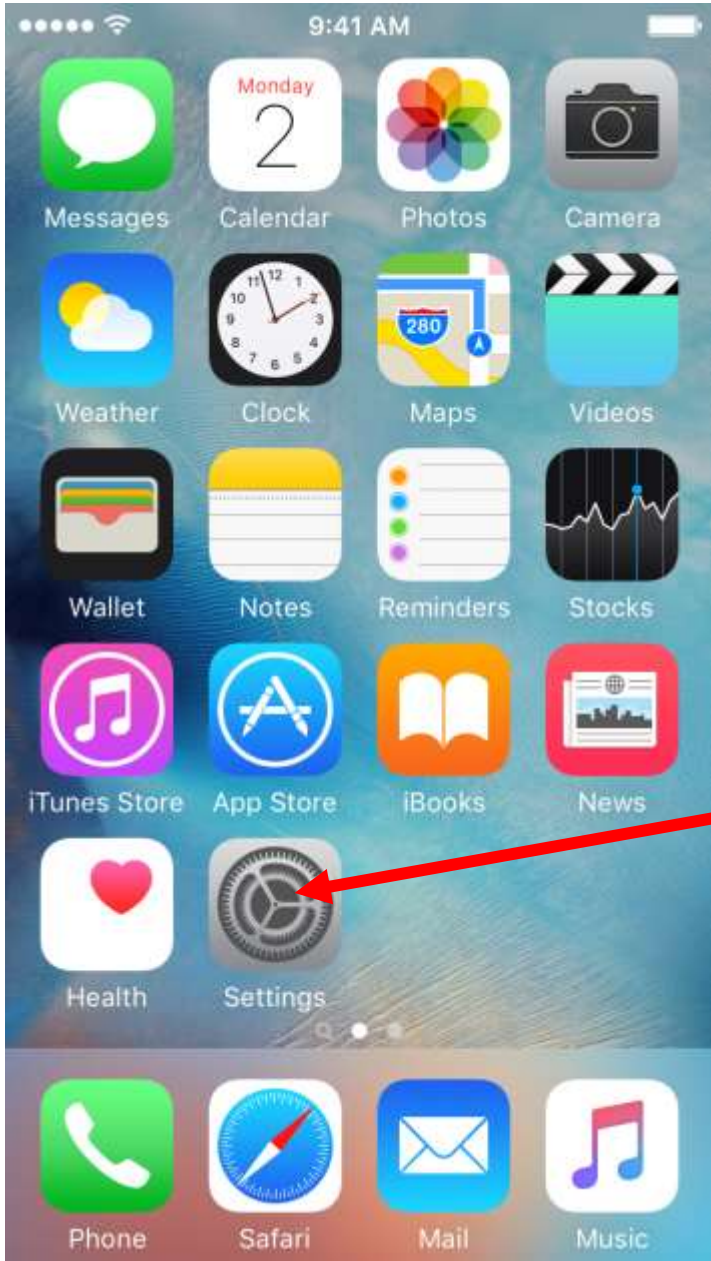


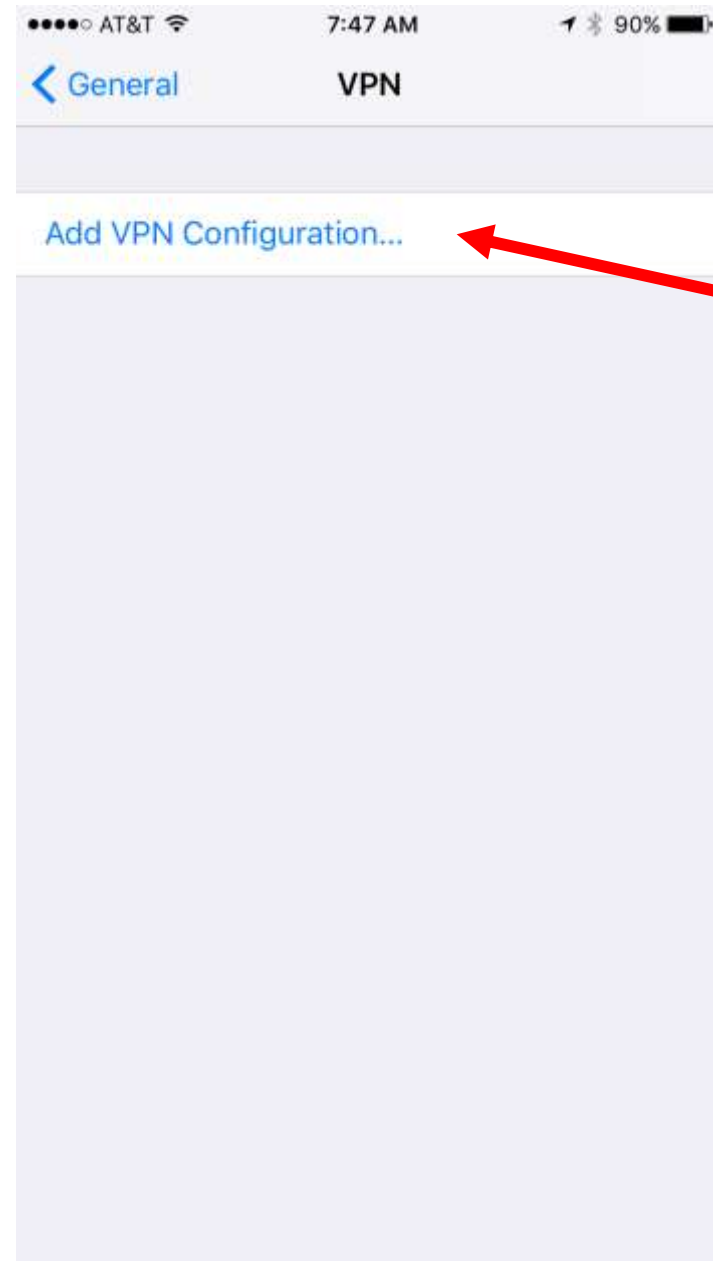
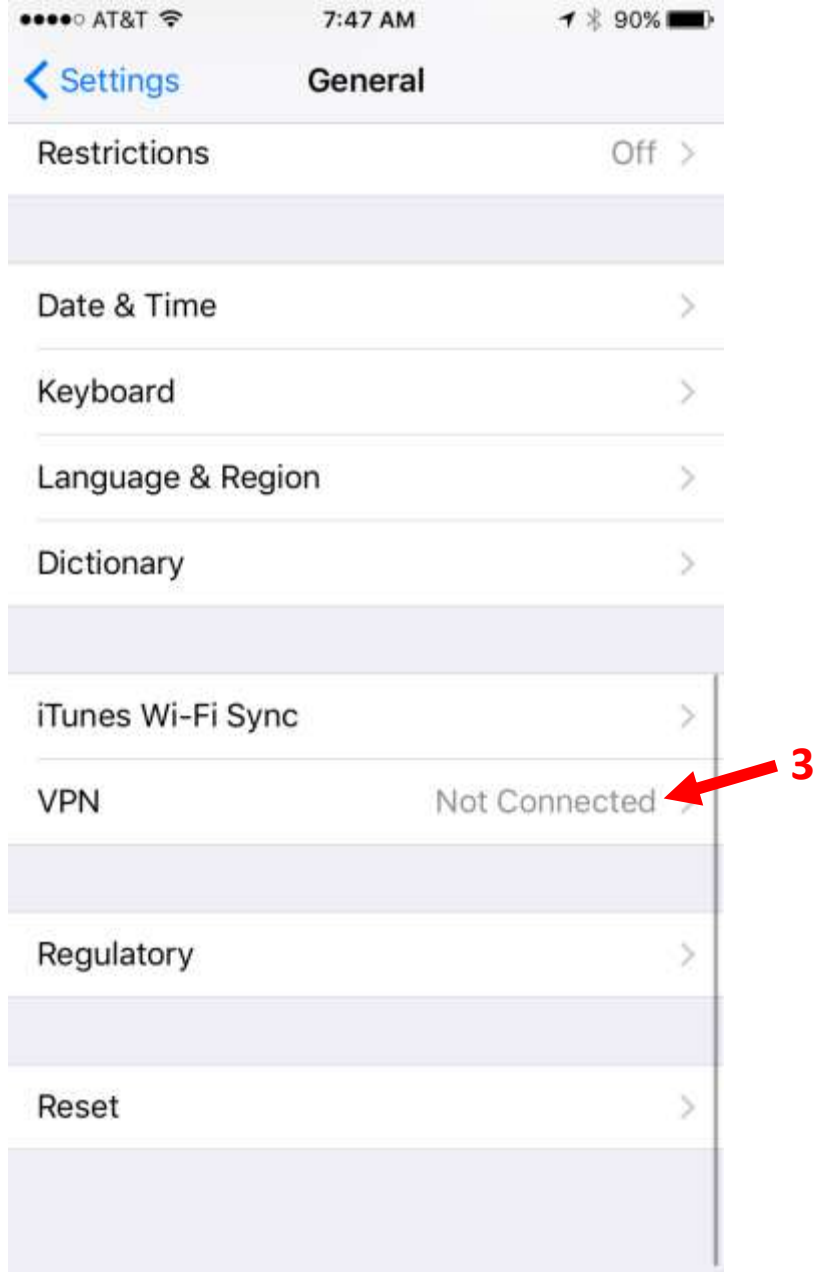
Enable Split Tunneling

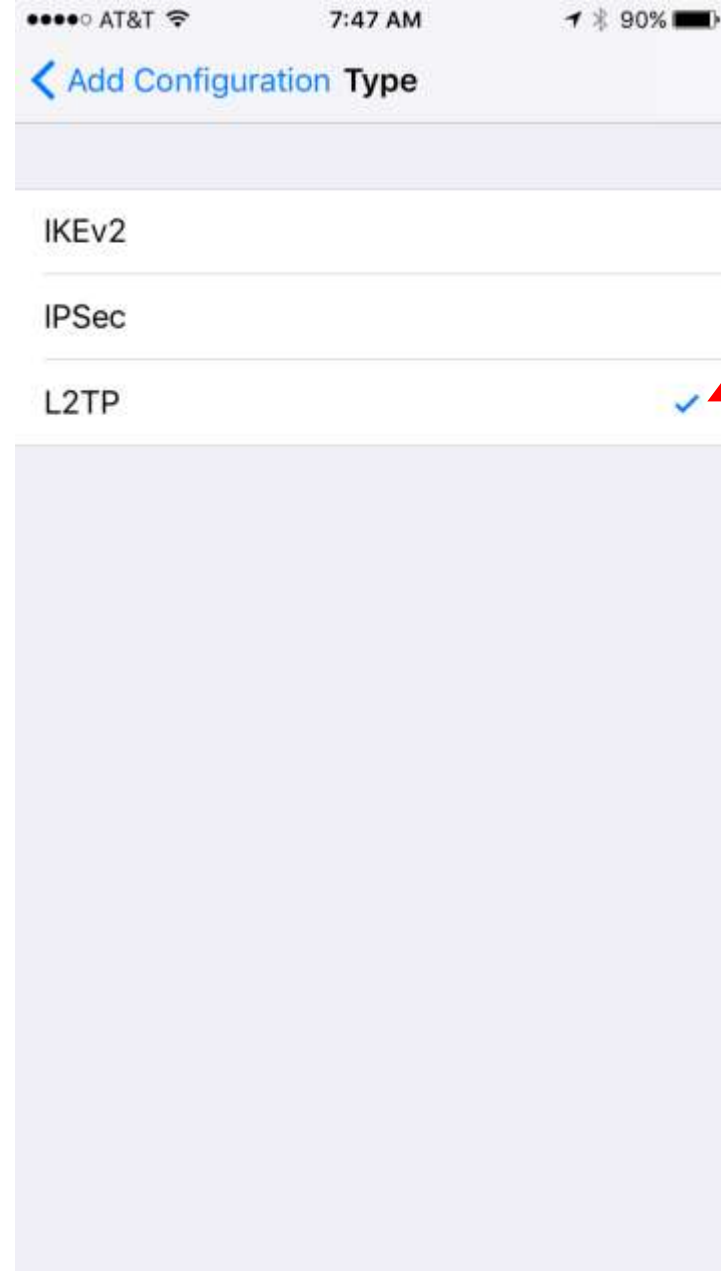
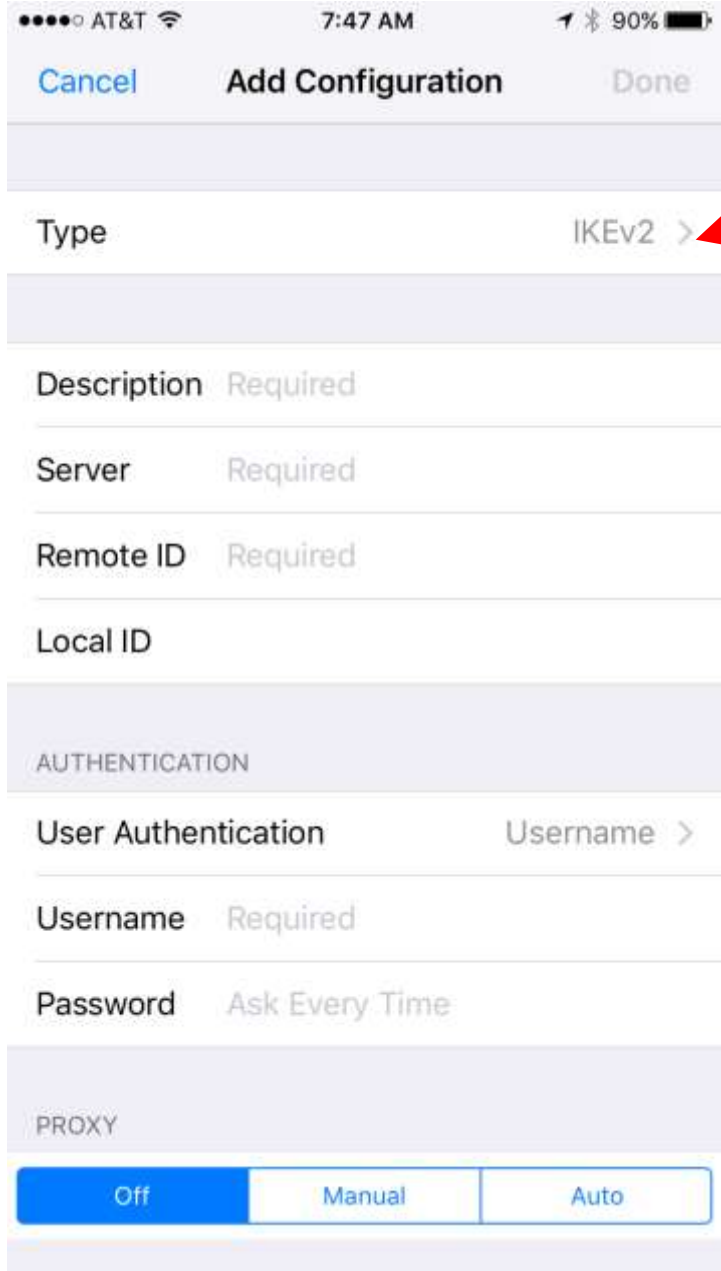
1. Select Advanced
2. De-select "Send all traffic over VPN connection"
3. Select OK
4. Select Apply



L2TP Configuration for iPhone







Michael Rathon - Sergey Office

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

Users

Enable this user

User Name

sergey

Password

.....

Member of

Employees

Delete

Cancel Sergey Done

Type L2TP

Description Sergey

Server [REDACTED]

Account sergey

RSA SecurID

Password

Secret

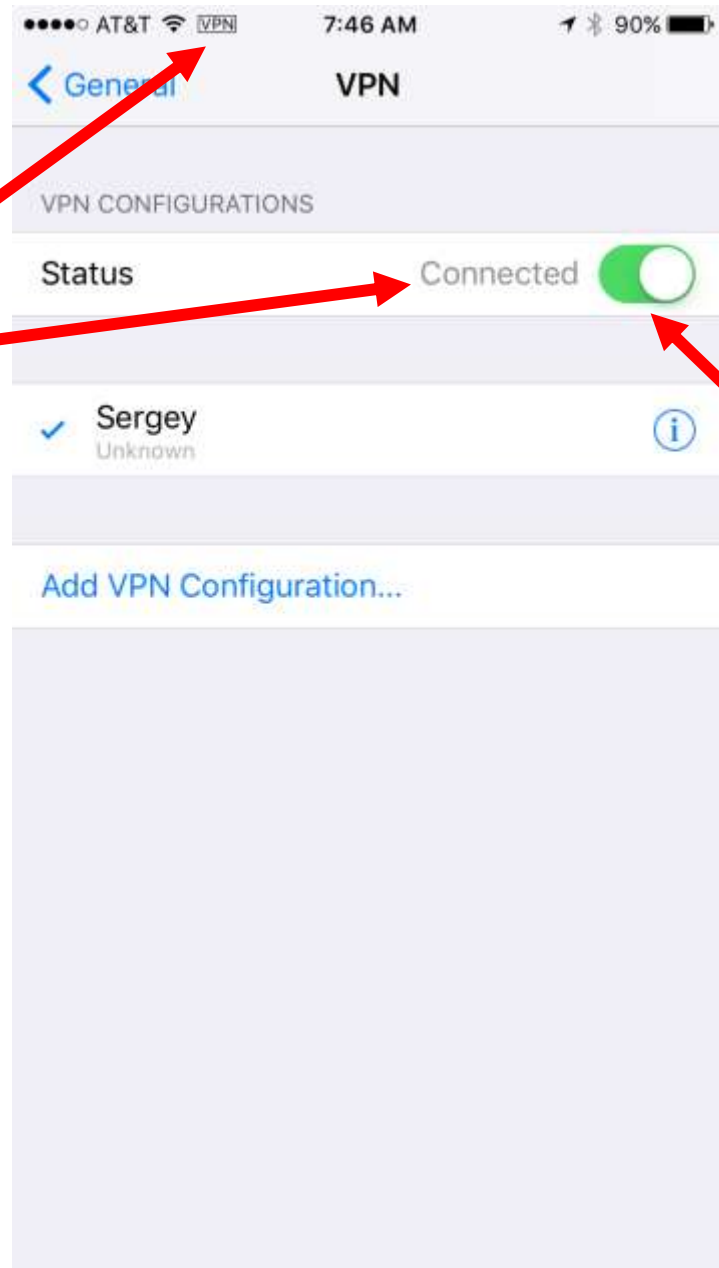
Send All Traffic

PROXY

Off Manual Auto

7

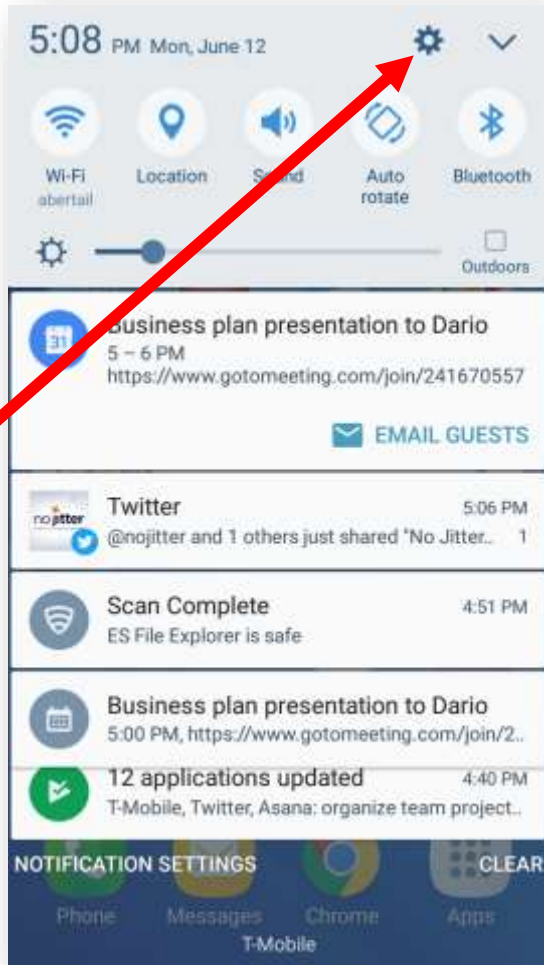
SUCCESS!



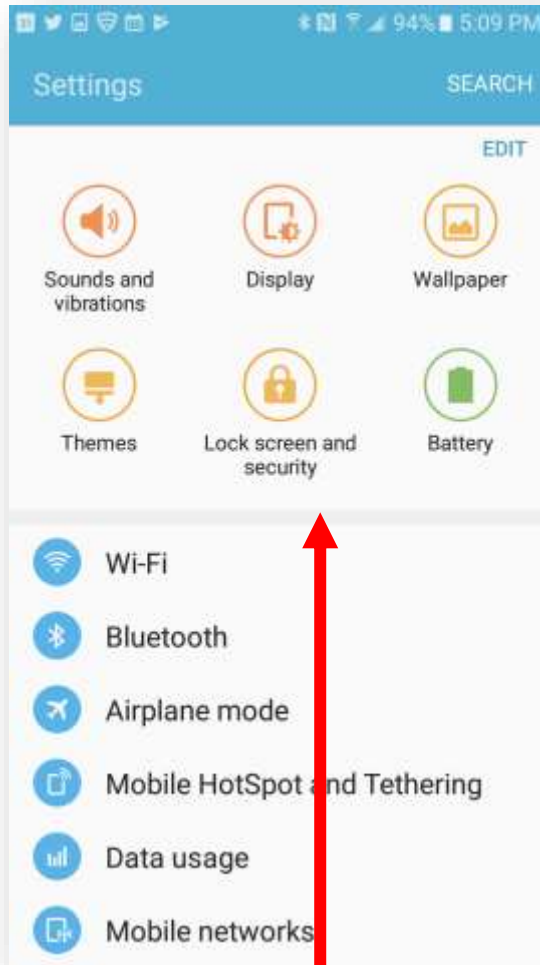
8

L2TP Configuration for Android

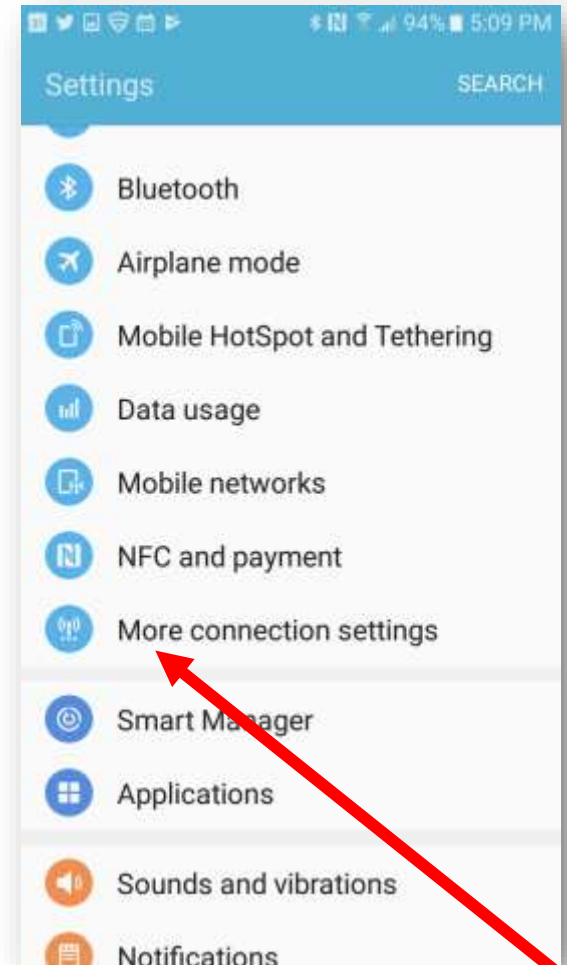
Android VPN Client Setup



1

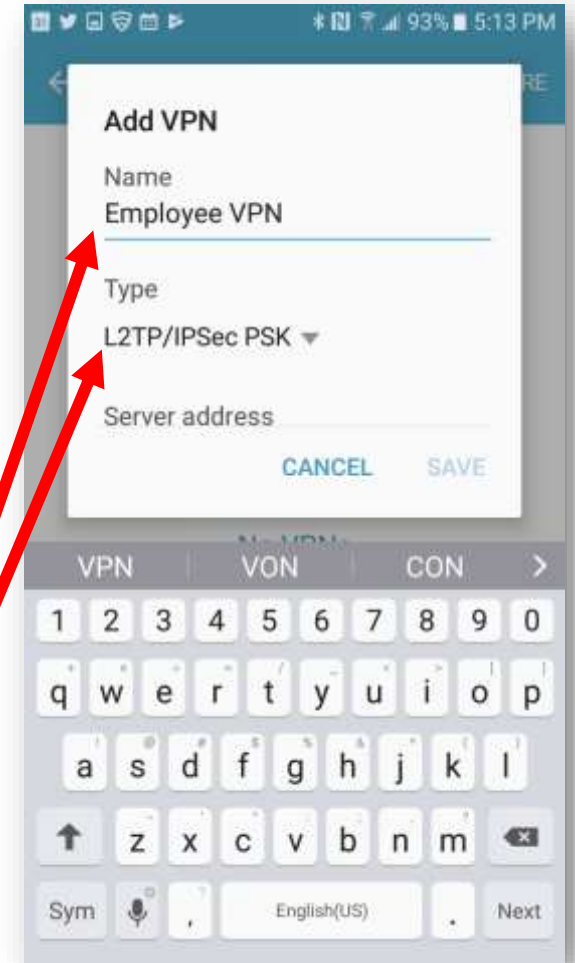
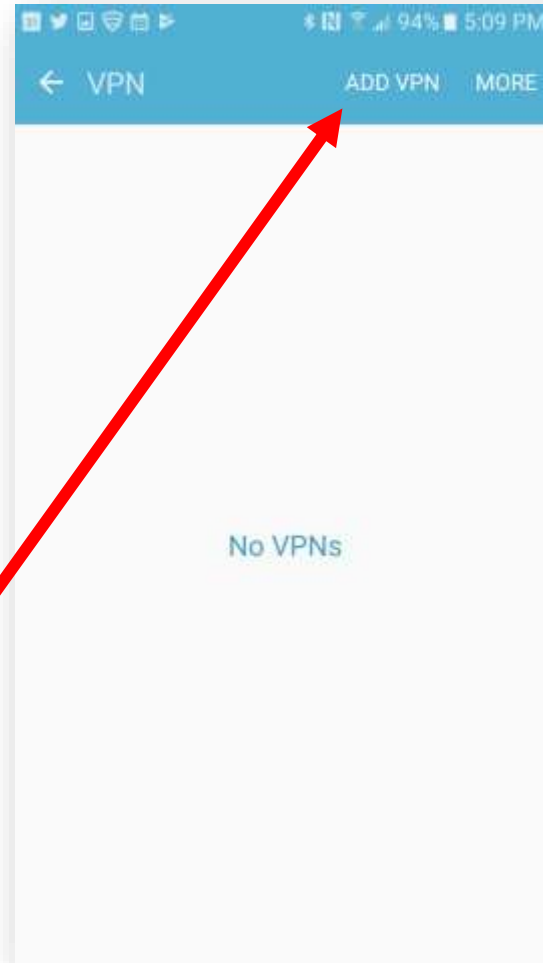


2. Scroll Up



3

Android VPN Client Setup



Michael Rathon - Sergey Office

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

7

Users

Enable this user

User Name

sergey

Password

.....

Member of

Employees

Delete

Cancel

Save

Add VPN

Server address

[REDACTED]

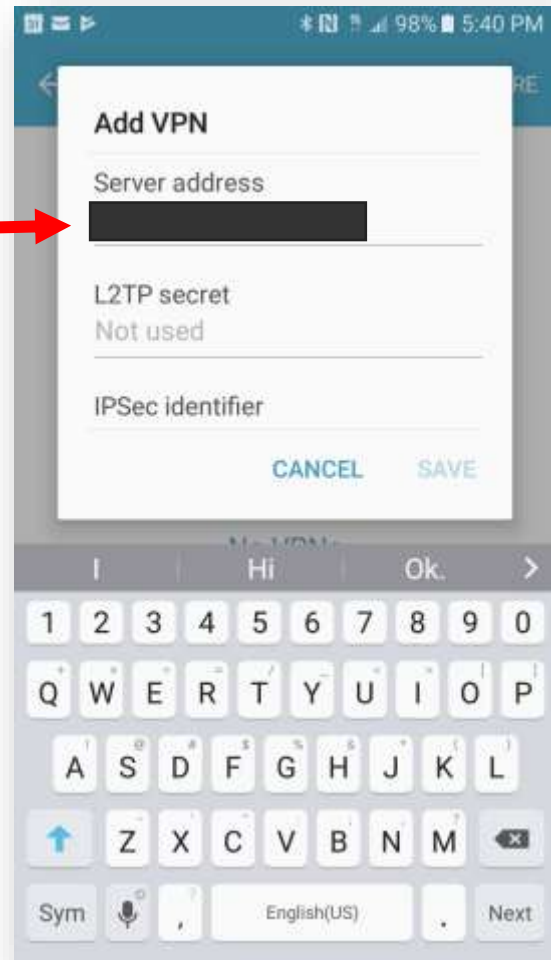
L2TP secret

Not used

IPSec identifier

CANCEL

SAVE



Michael Rathon - Sergey Office

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

8

Users

Enable this user

User Name

sergey

Password

.....

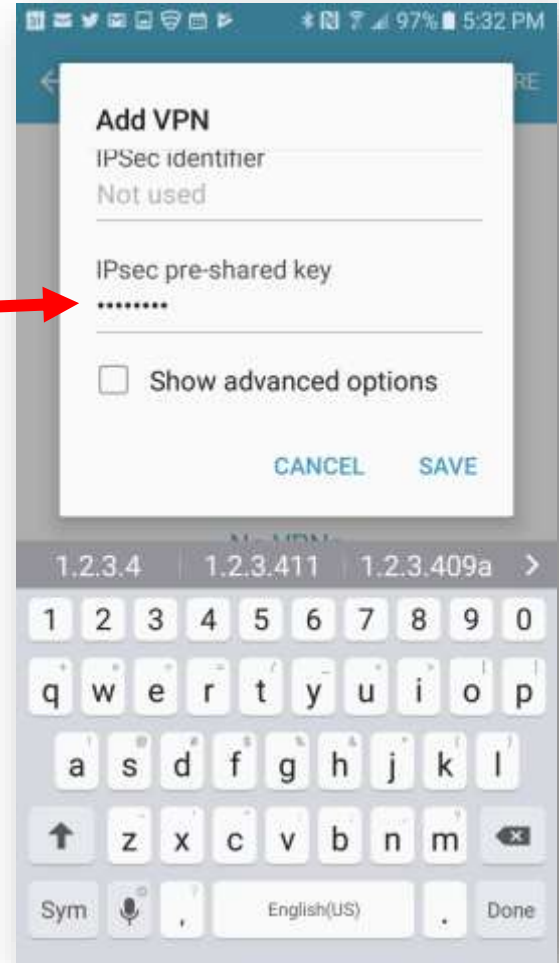
Member of

Employees

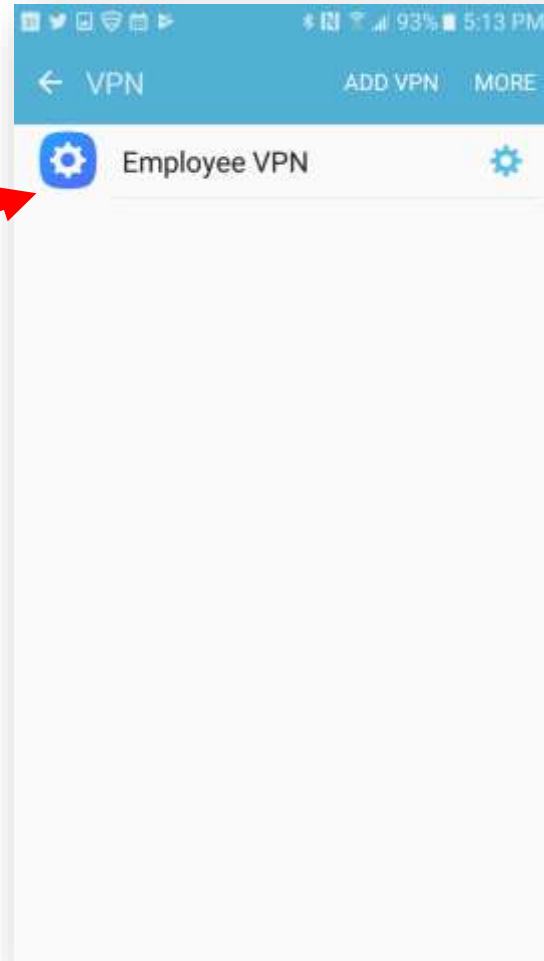
Delete

Cancel

Save



9



Michael Rathon - Sergey Office

Enable VPN

Connection Information

Server: [REDACTED]

Shared Key: [REDACTED]

Users

Enable this user

10

User Name

sergey

Password

.....

Member of

Employees

Delete

Cancel

Save

Connect to Employee VPN

Username

sergey

Password

.....

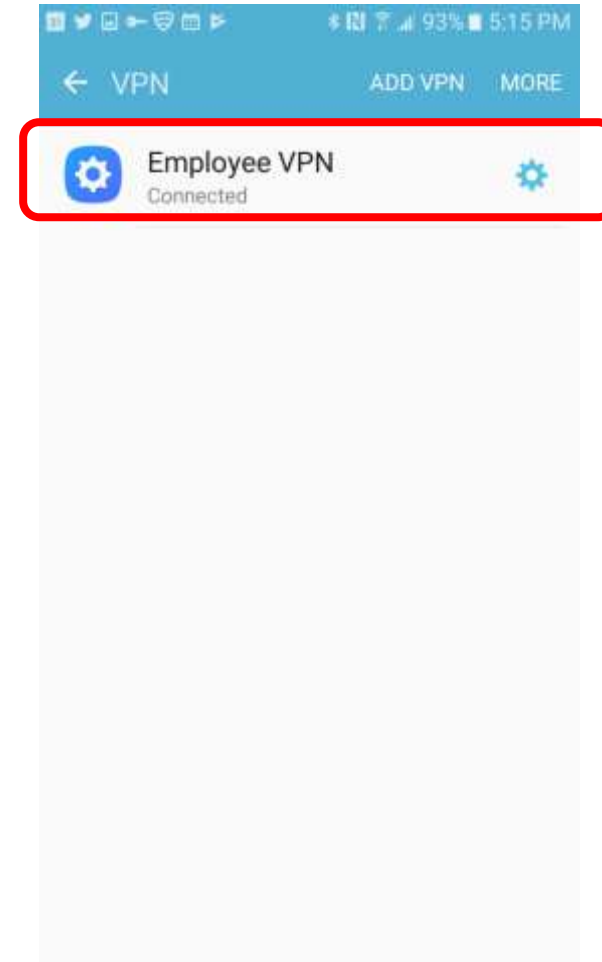
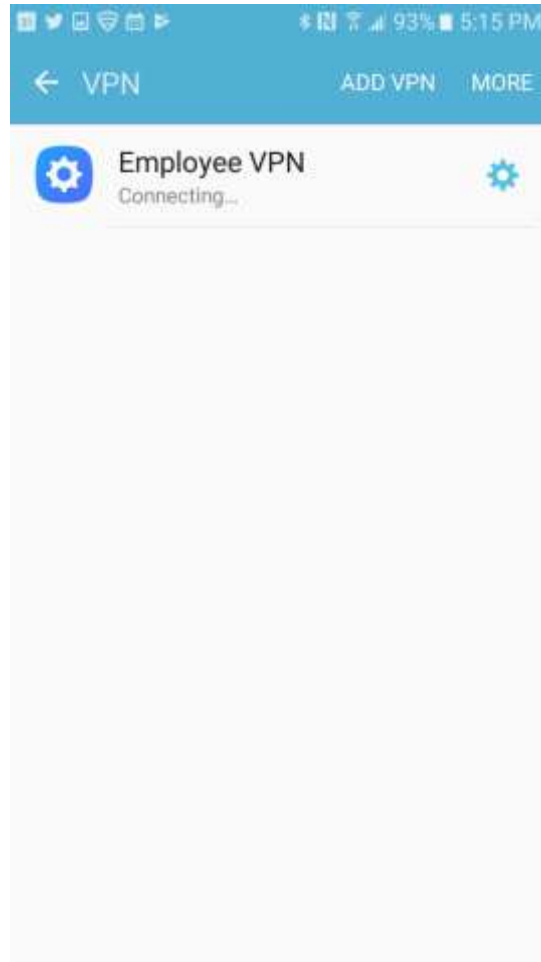
Save account information

CANCEL

CONNECT



Android VPN Client Success!



SSTP MFA VPN

Certificate-based MFA Remote Access VPN

The screenshot shows the Uplevel Office configuration interface for VPN settings. The browser address bar displays `https://portal.uplevelsystems.com/config/1/1?section=vpn`. The page title is "Uplevel Office - [blurred]".

Navigation Menu:

- To Dashboard
- Overview
- Devices
- Diagnostics
- Wi-Fi
- VPN**
- Site-to-Site VPN
- Storage
- Ethernet
- Directory
- VoIP & QoS
- Firewall
- IP & DNS
- Site Settings

VPN Configuration:

- Enable VPN
- Connection Info: Cloud Hub VPN**
- VPN Hub Server IP: [blurred]
- Protocols: L2TP/IPsec with pre-shared key (PSK), SSTP, SSL
- Pre-Shared Key for L2TP: [blurred]
- Root certificate for SSTP: [Download here](#) (highlighted in yellow with a red arrow and a red circle containing the number 1)
- Primary Site: [blurred]
- DNS settings taken from primary site if selected.
- Use native VPN clients for L2TP, Windows 10 clients for SSTP, SoftEther VPN client for SSL.

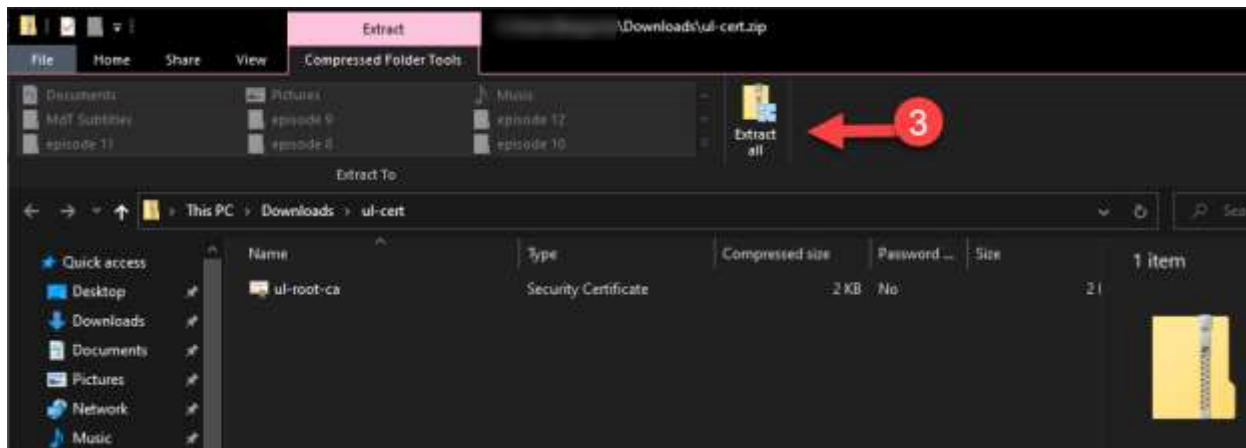
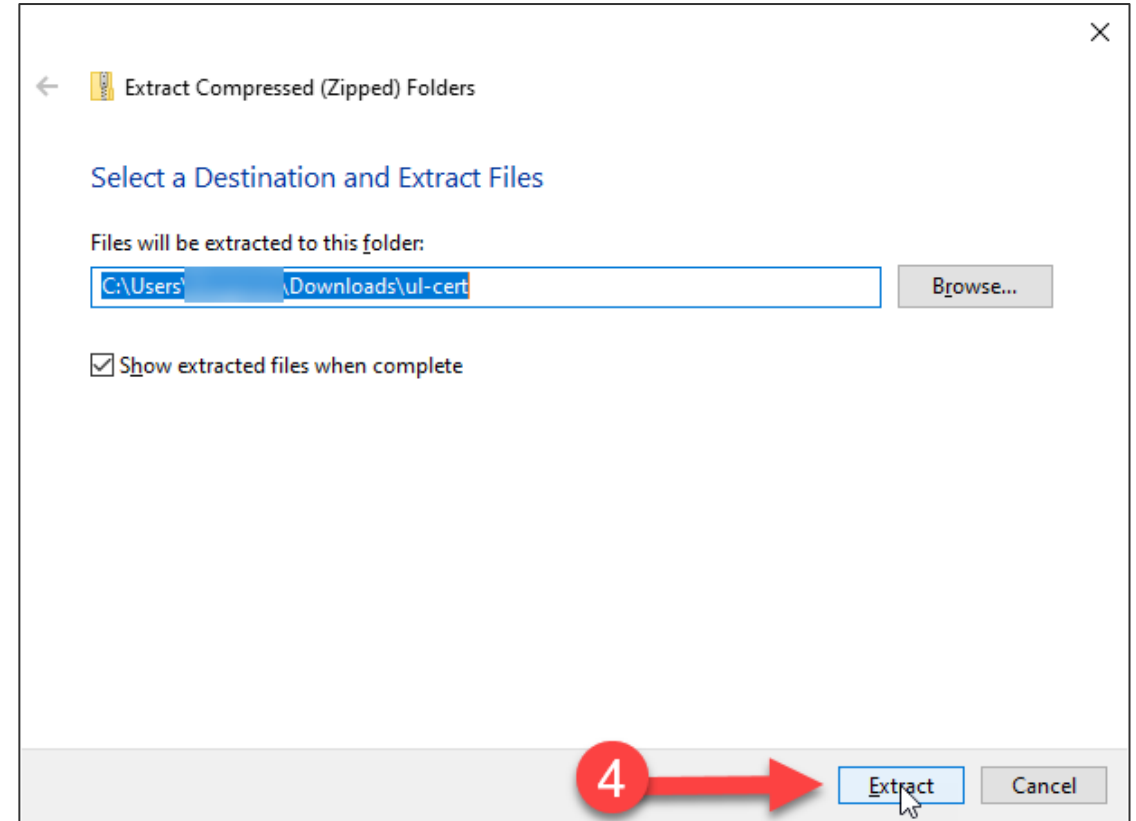
- Connection Info: Direct Site Remote Access**
- Direct remote VPN is not possible to the primary site, as it does not have a public IP address on its WAN (Internet) port. Recommend placing the ISP modem into bridge mode.

Users:

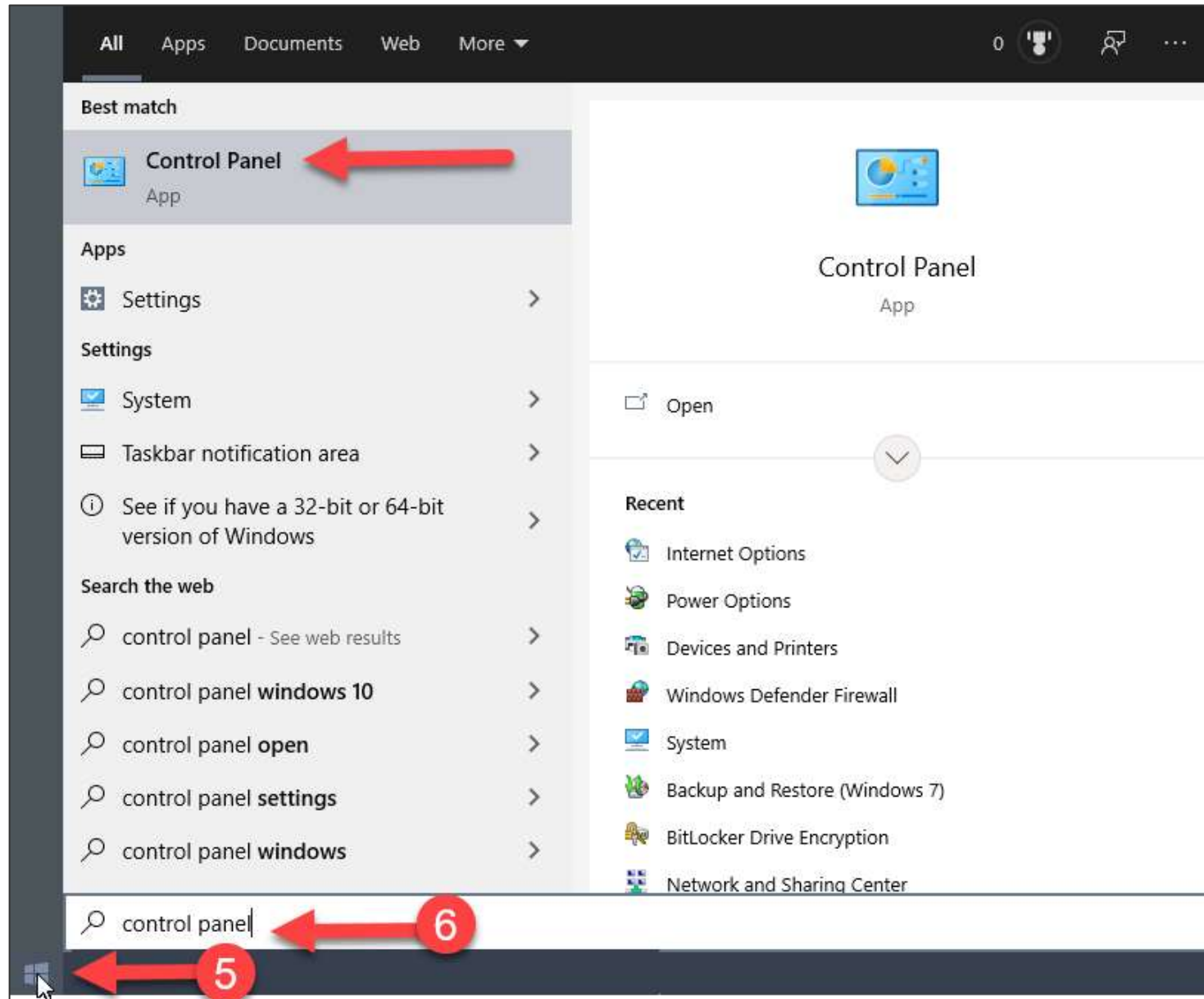
[blurred]	[edit icon]
[blurred]	[edit icon]
[blurred]	[edit icon]
[blurred]	[edit icon]
[blurred]	[edit icon]

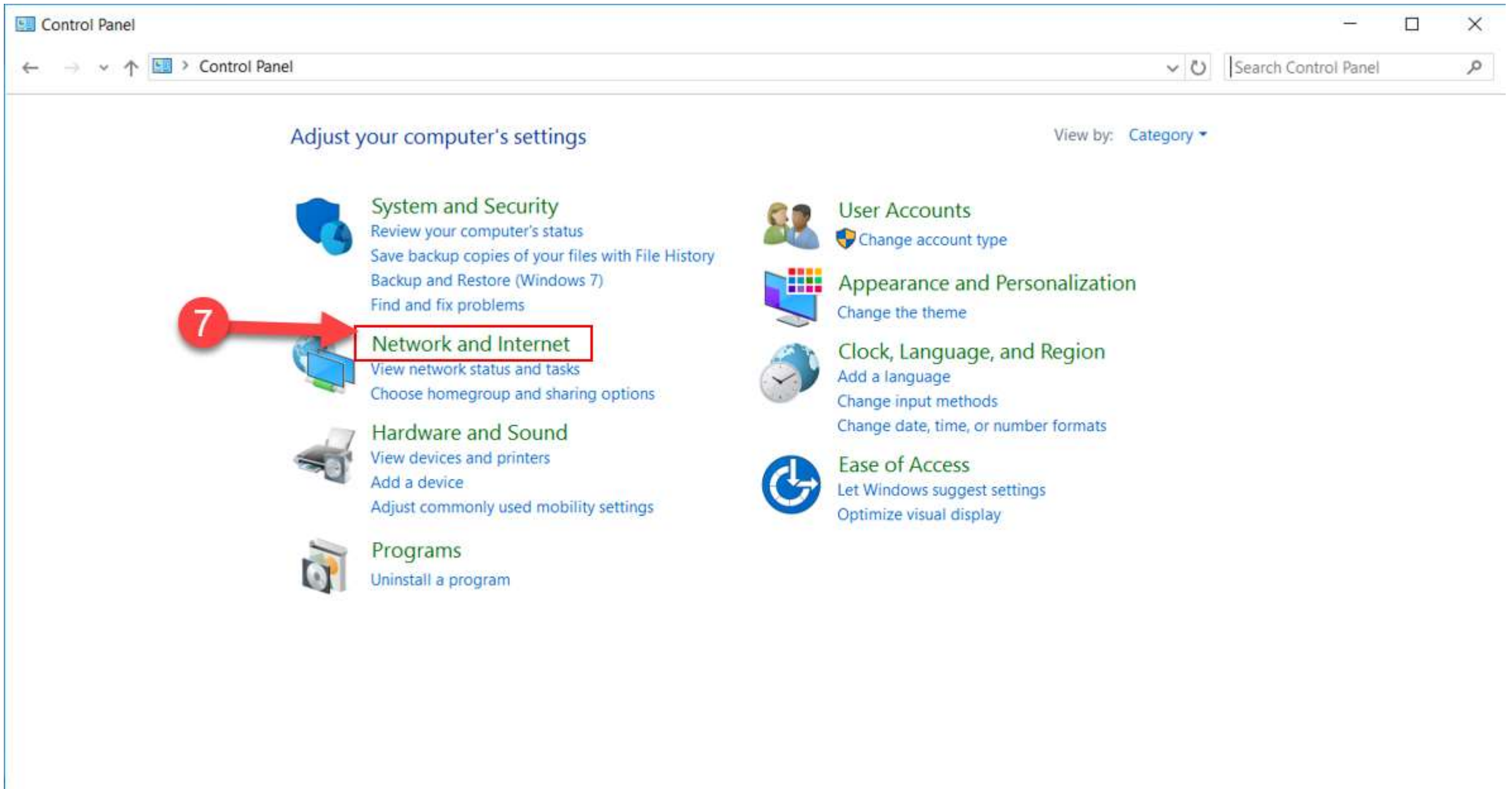
[+]

Download the Certificate



Installing Certificate













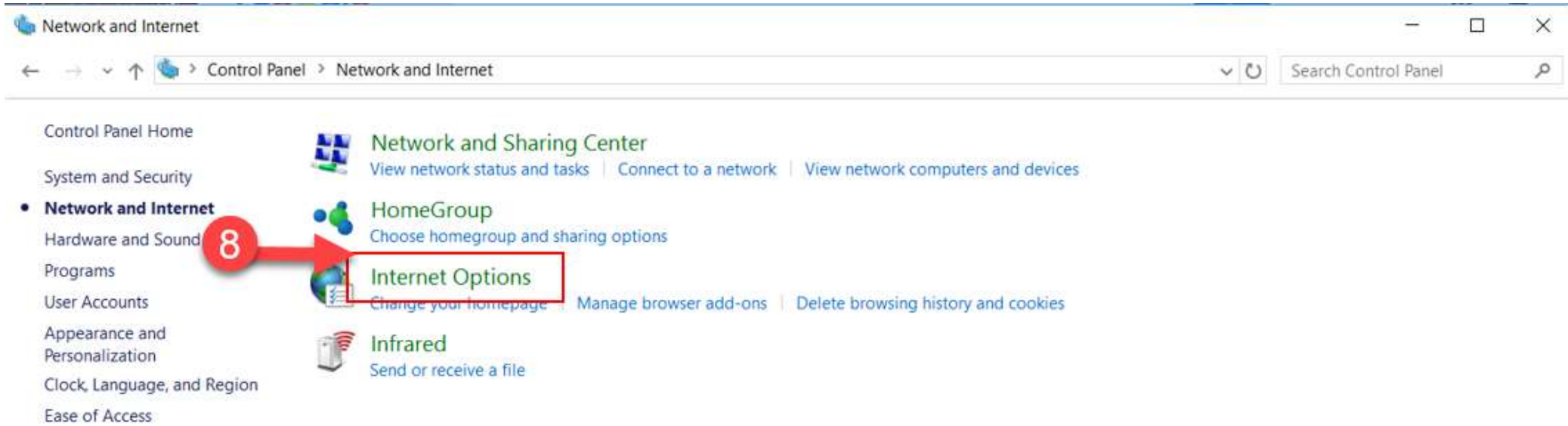
Control Panel

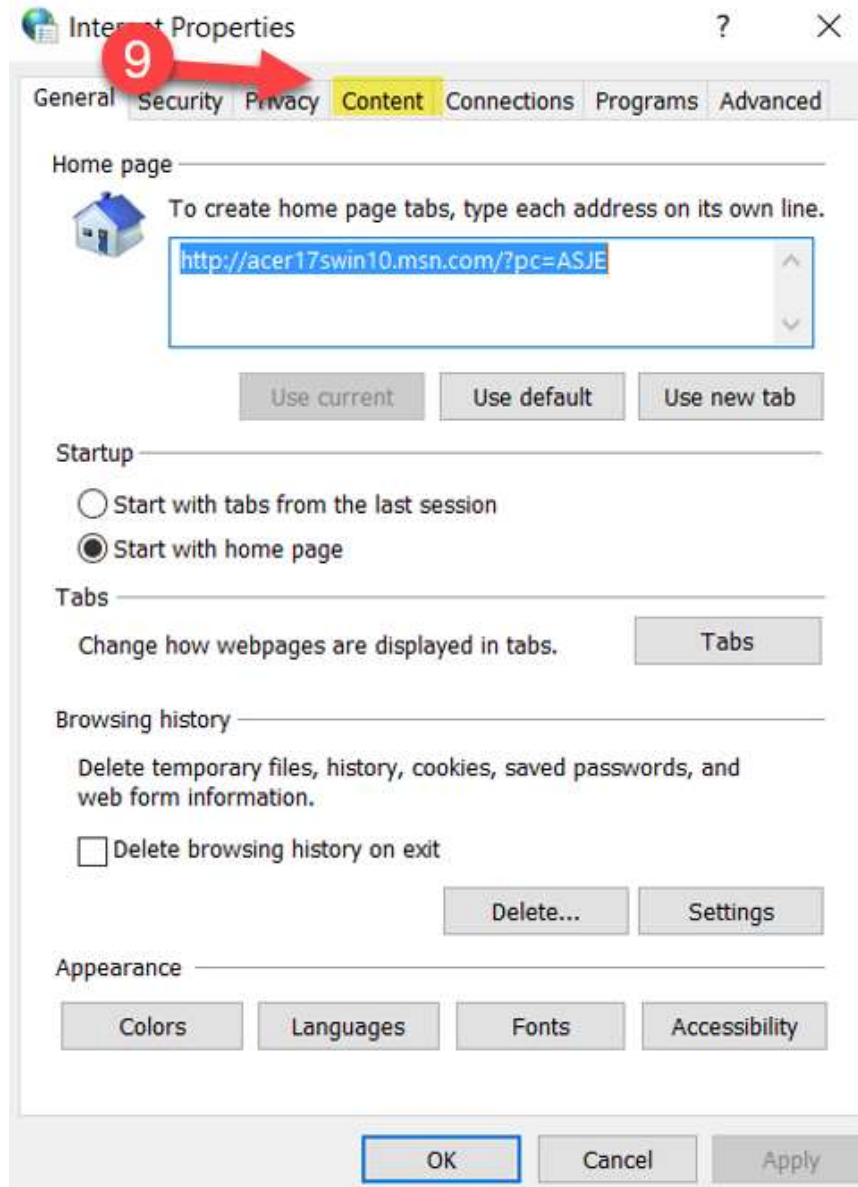
← → ▾ ↑ Control Panel

Search Control Panel

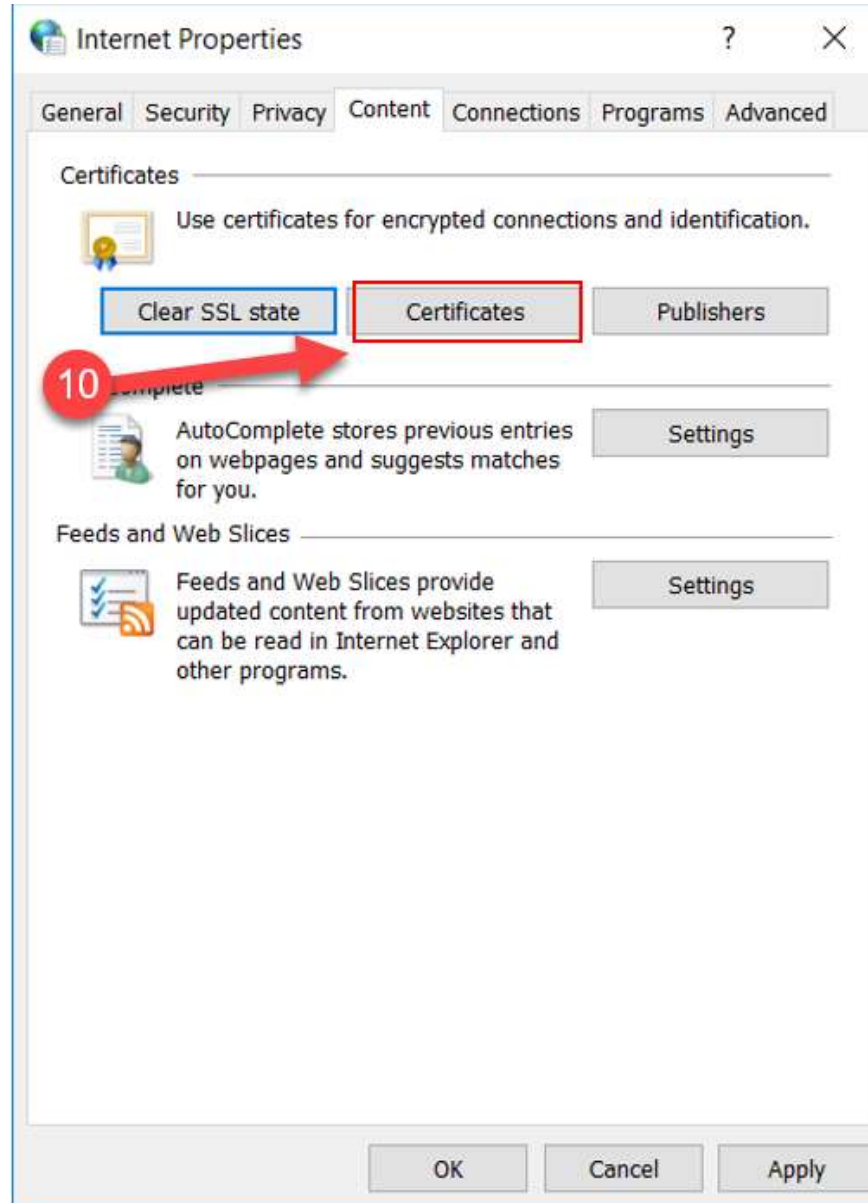
Adjust your computer's settings View by: [Category](#) ▾

-  **System and Security**
Review your computer's status
Save backup copies of your files with File History
Backup and Restore (Windows 7)
Find and fix problems
-  **Network and Internet** 7 →
View network status and tasks
Choose homegroup and sharing options
-  **Hardware and Sound**
View devices and printers
Add a device
Adjust commonly used mobility settings
-  **Programs**
Uninstall a program
-  **User Accounts**
Change account type
-  **Appearance and Personalization**
Change the theme
-  **Clock, Language, and Region**
Add a language
Change input methods
Change date, time, or number formats
-  **Ease of Access**
Let Windows suggest settings
Optimize visual display

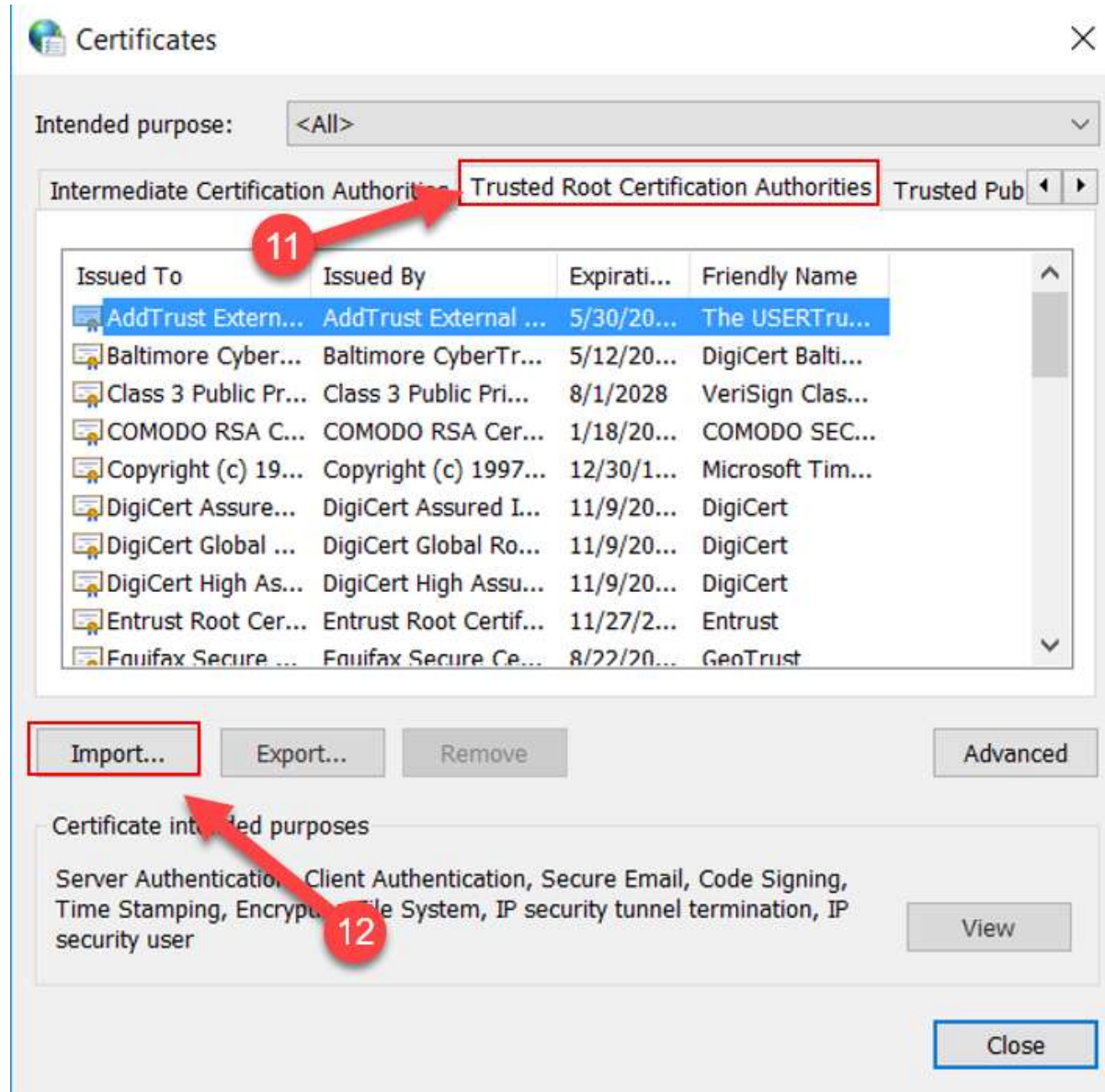




Installing Certificate



Installing Certificate



Certificates

Intended purpose: <All>

Intermediate Certification Authorities | **Trusted Root Certification Authorities** | Trusted Pub

Issued To	Issued By	Expirati...	Friendly Name
AddTrust Extern...	AddTrust External ...	5/30/20...	The USERTru...
Baltimore Cyber...	Baltimore CyberTr...	5/12/20...	DigiCert Balti...
Class 3 Public Pr...	Class 3 Public Pri...	8/1/2028	VeriSign Clas...
COMODO RSA C...	COMODO RSA Cer...	1/18/20...	COMODO SEC...
Copyright (c) 19...	Copyright (c) 1997...	12/30/1...	Microsoft Tim...
DigiCert Assure...	DigiCert Assured I...	11/9/20...	DigiCert
DigiCert Global ...	DigiCert Global Ro...	11/9/20...	DigiCert
DigiCert High As...	DigiCert High Assu...	11/9/20...	DigiCert
Entrust Root Cer...	Entrust Root Certif...	11/27/2...	Entrust
Equifax Secure ...	Equifax Secure Ce...	8/22/20...	GeoTrust

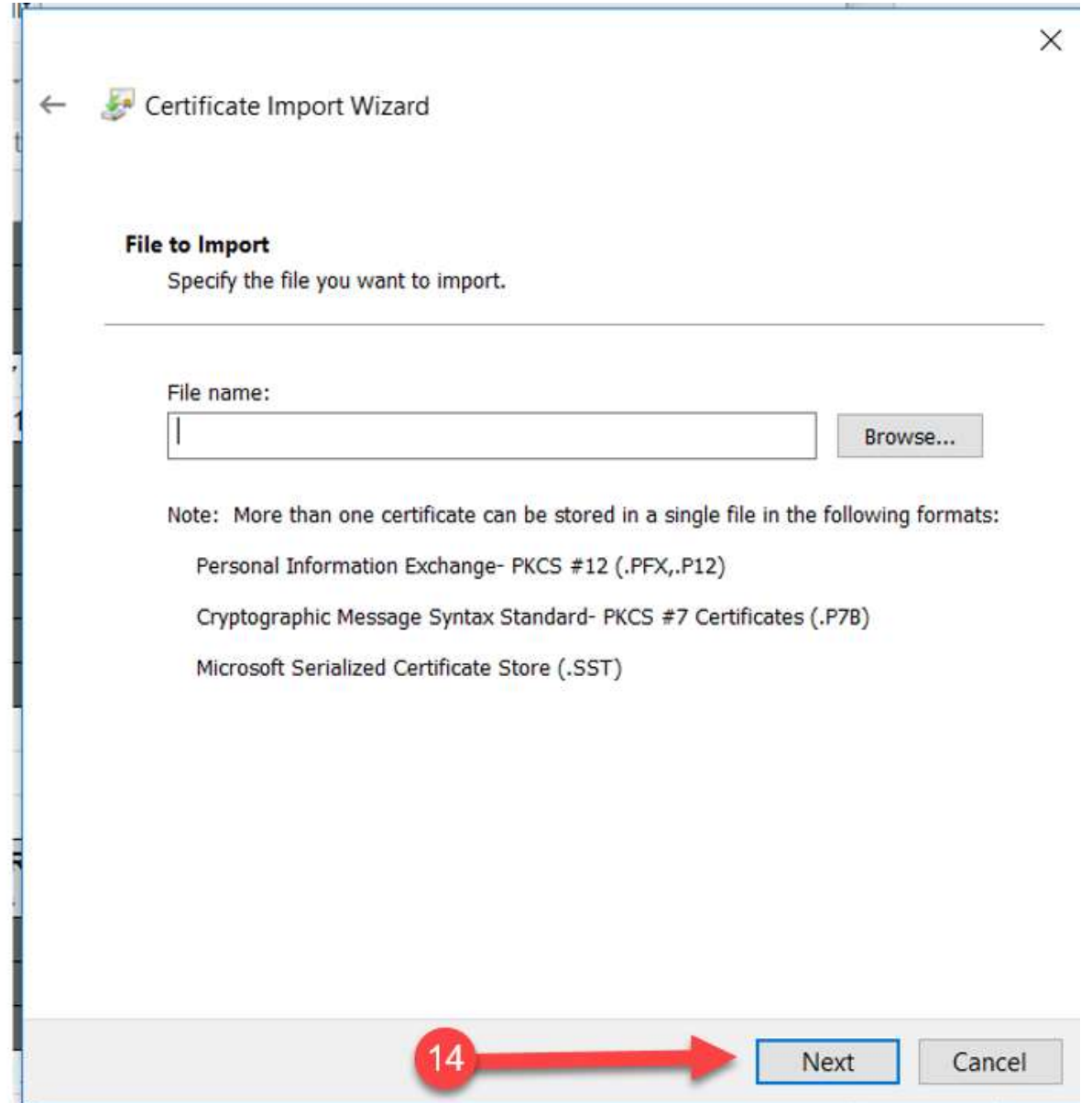
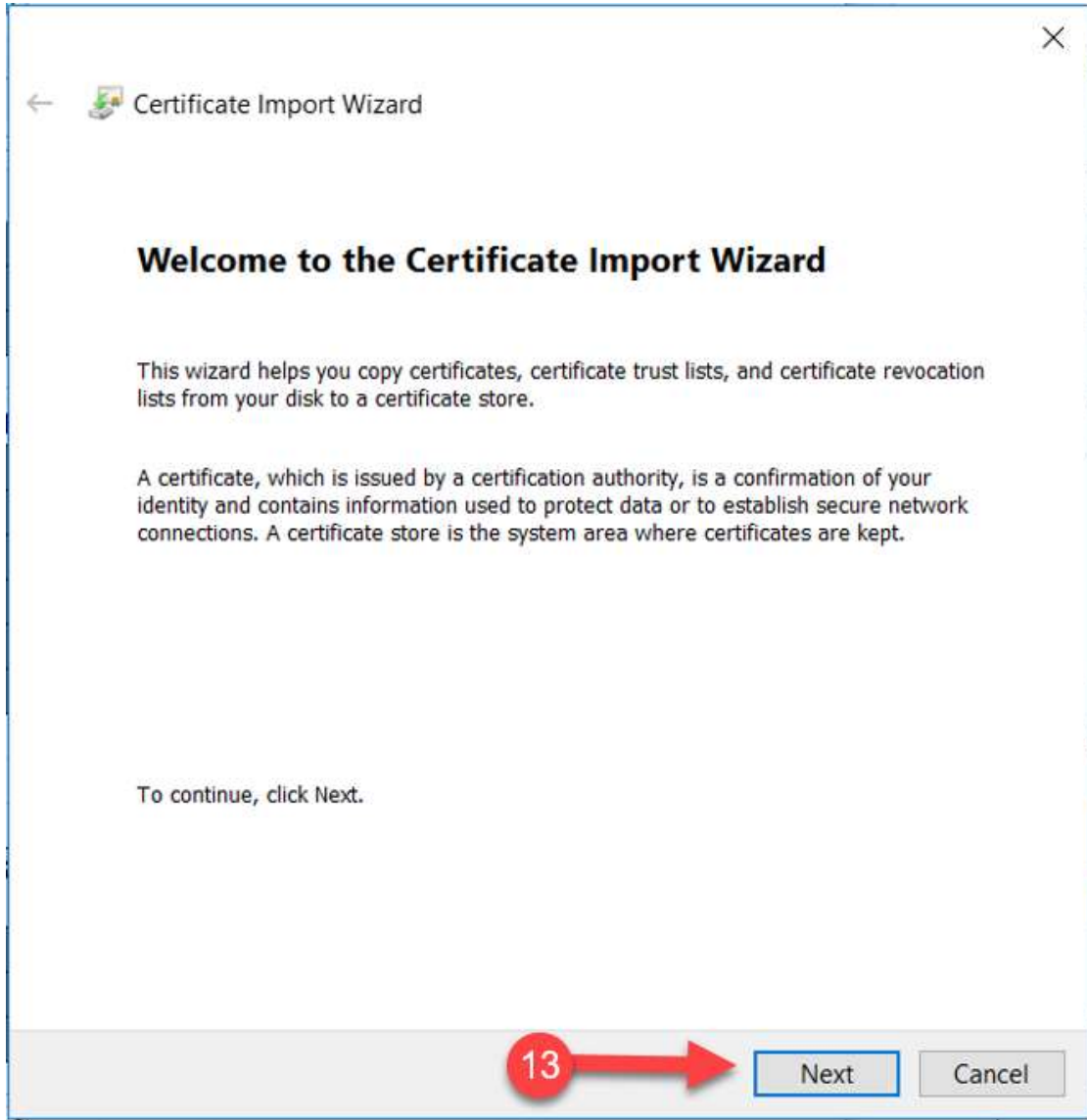
Import... | Export... | Remove | Advanced

Certificate intended purposes

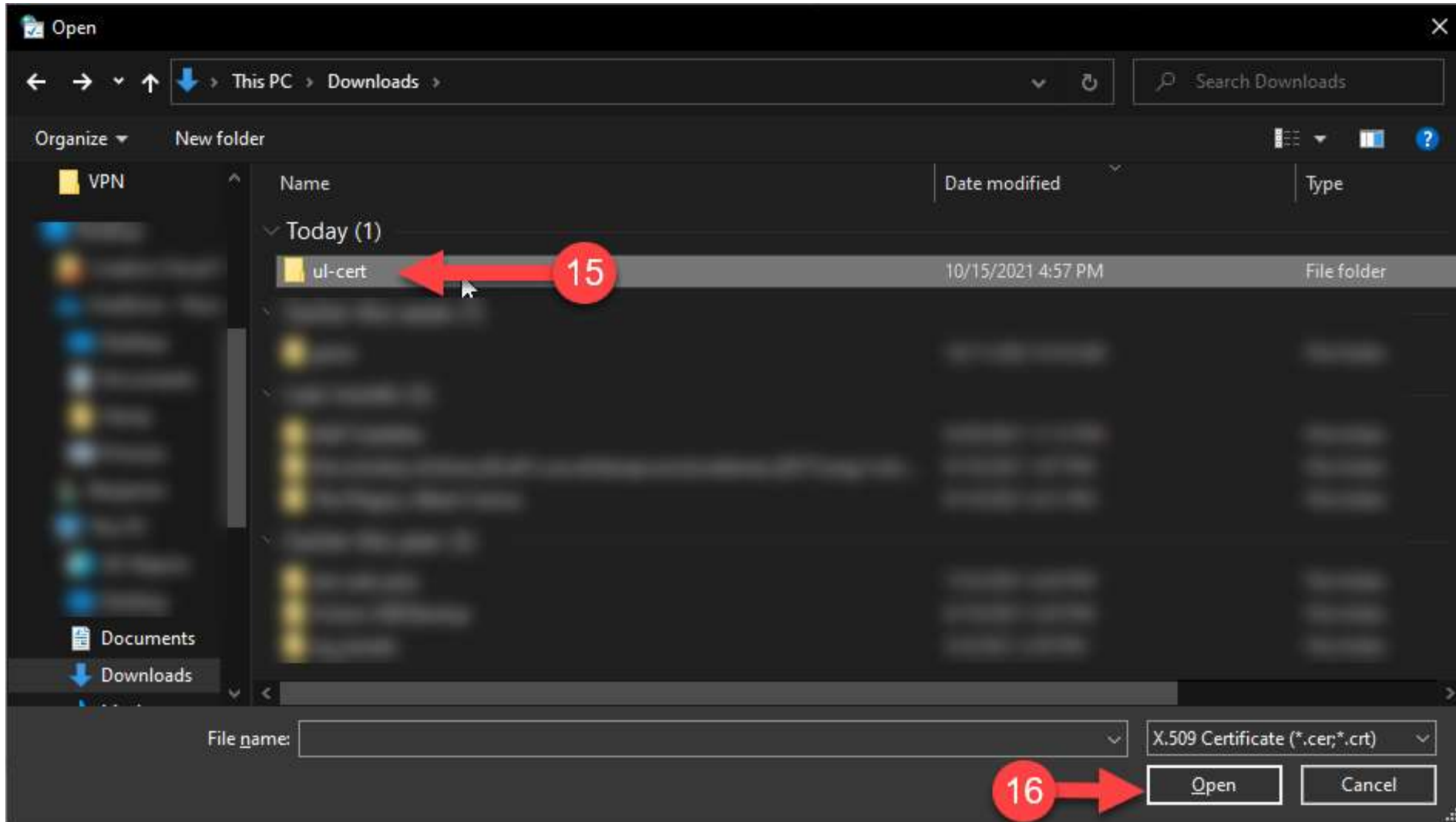
Server Authentication, Client Authentication, Secure Email, Code Signing, Time Stamping, Encryption File System, IP security tunnel termination, IP security user

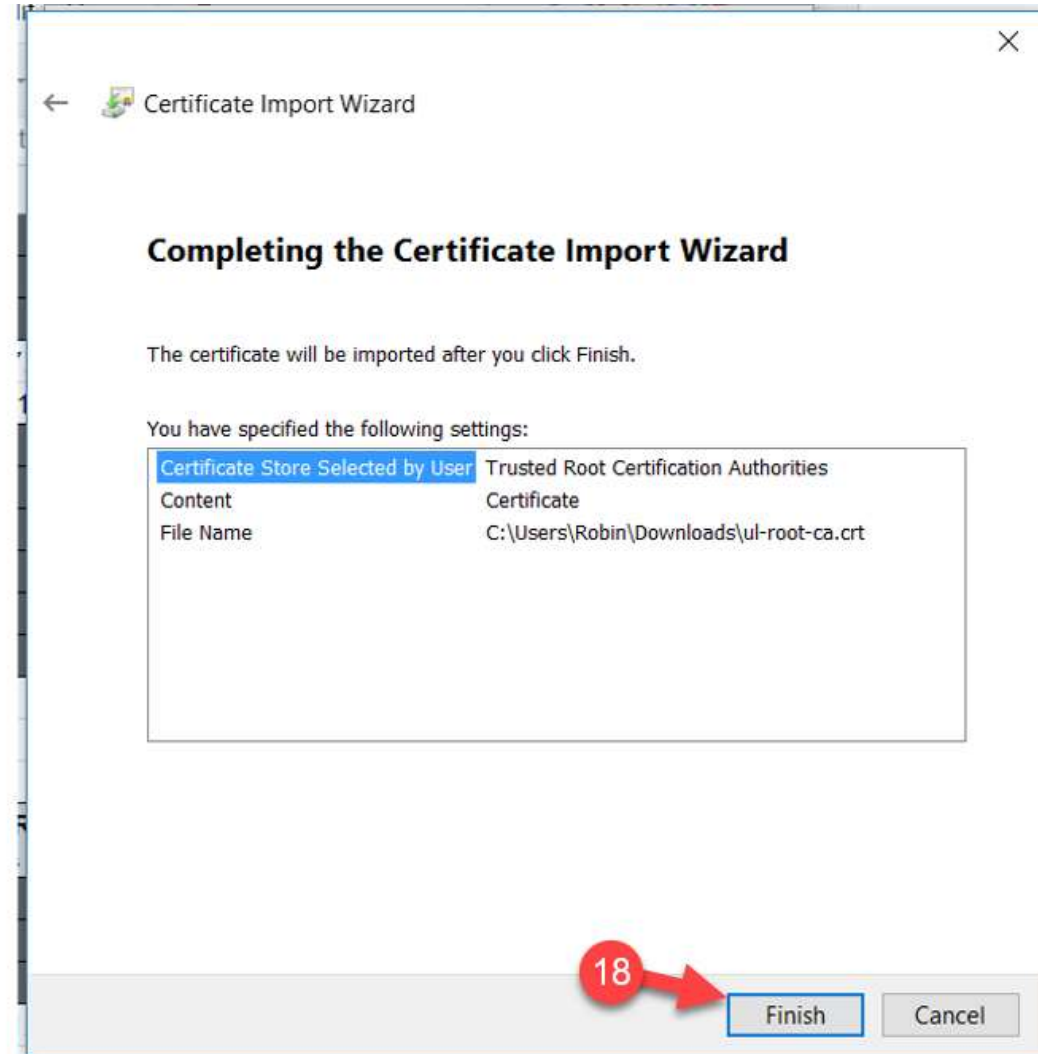
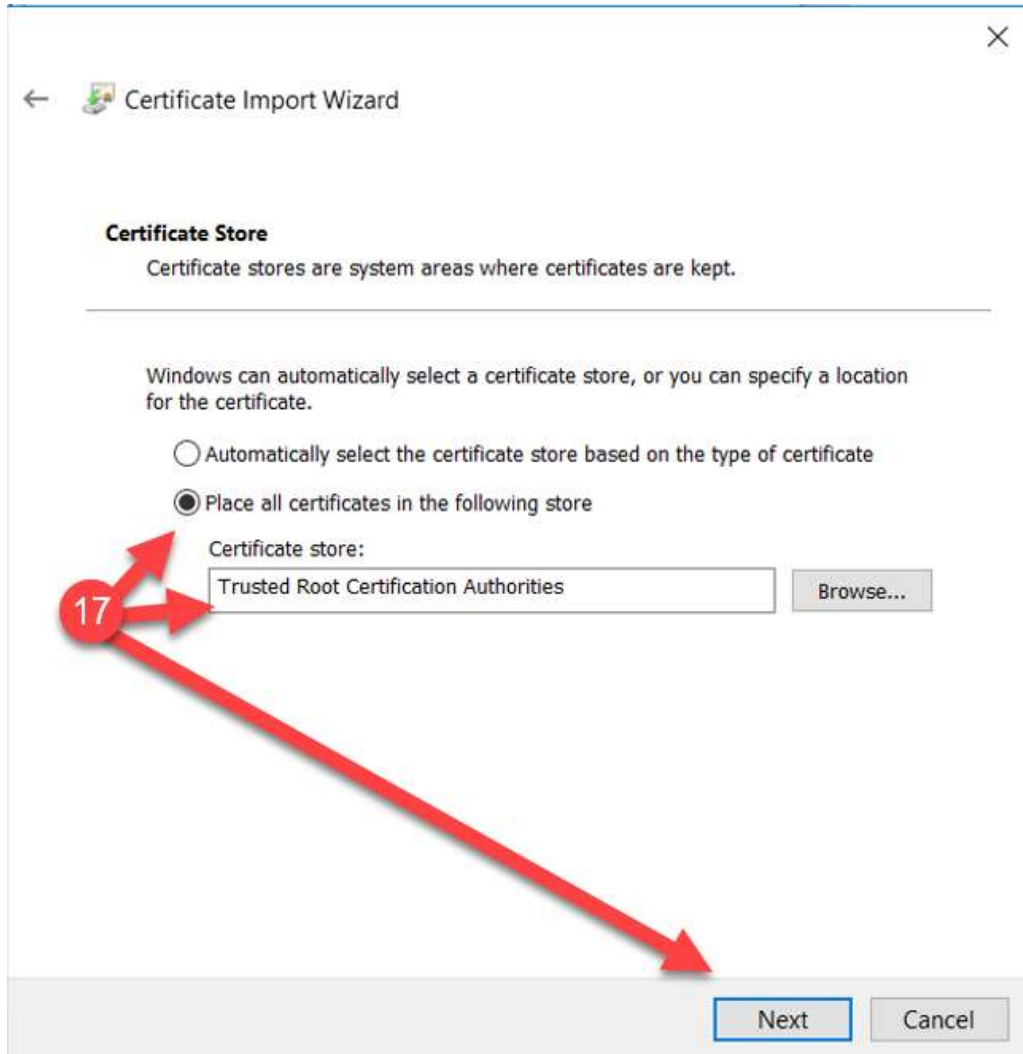
View

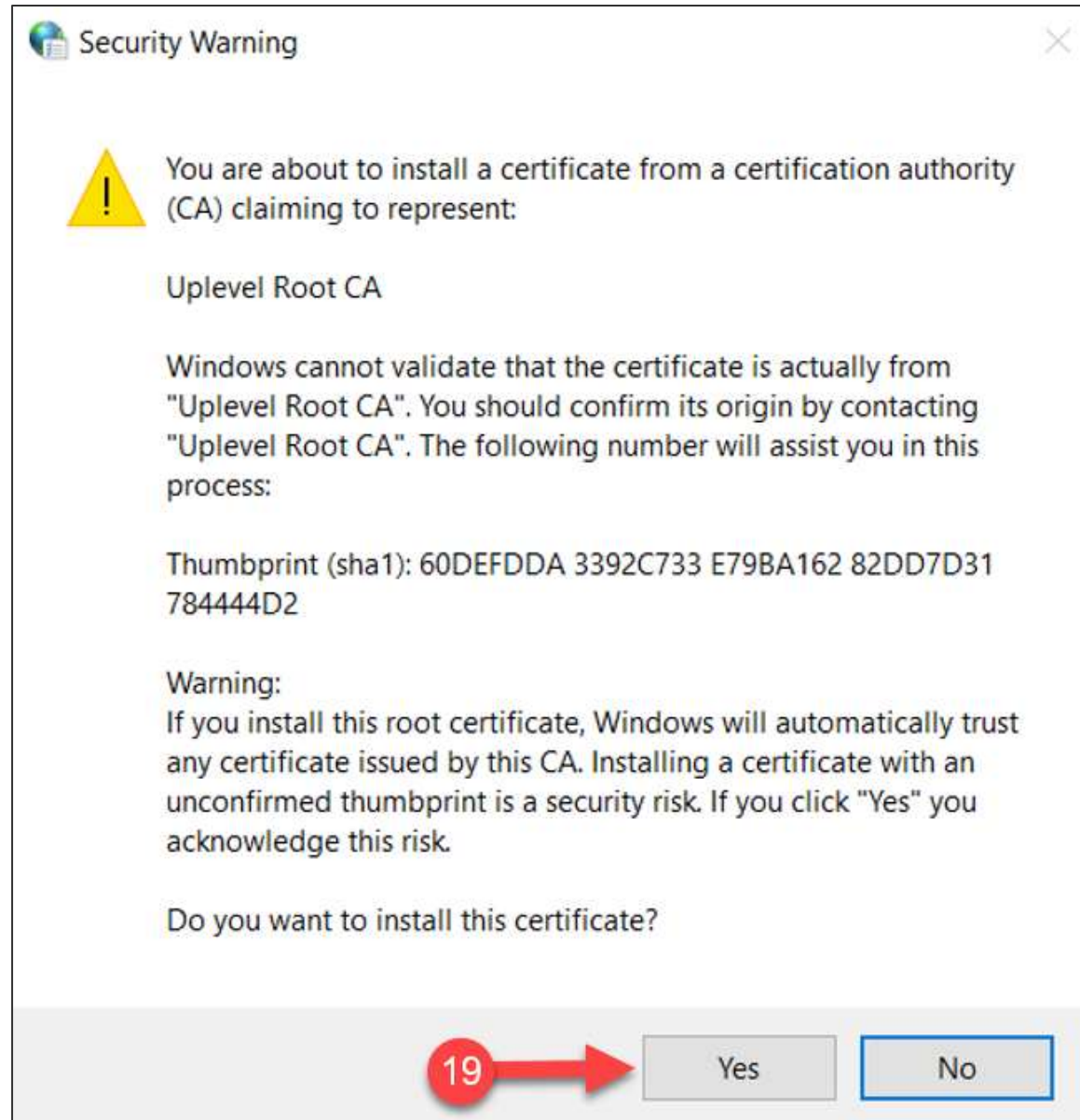
Close

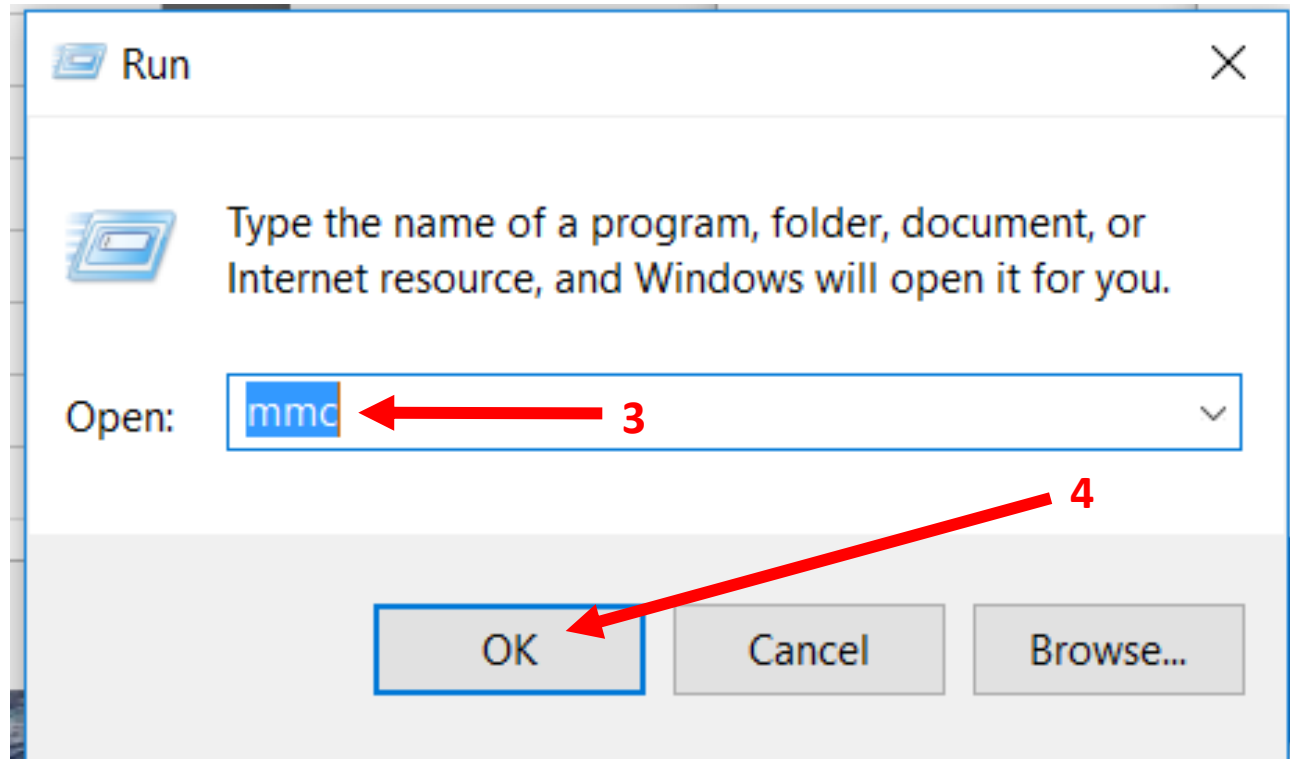
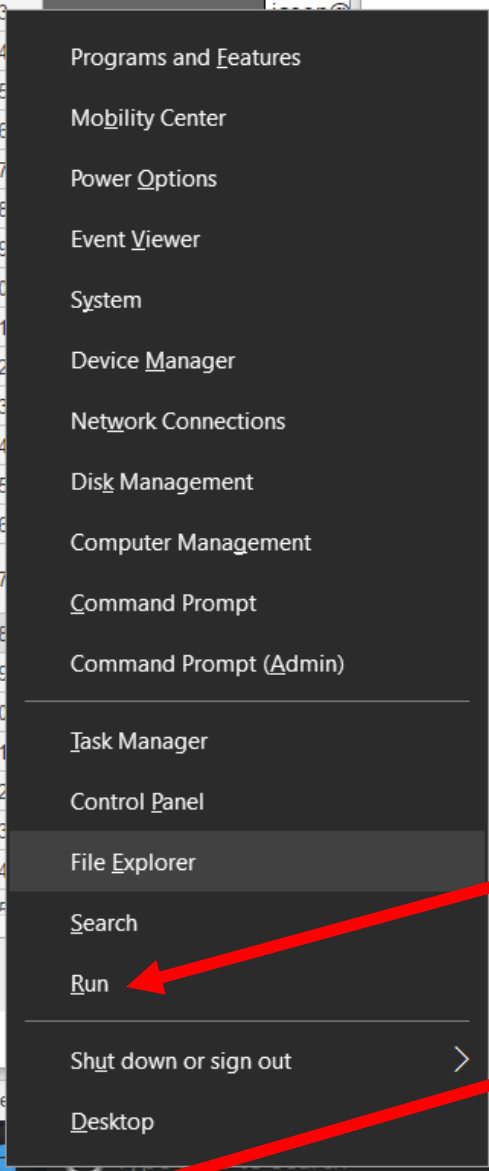


Installing Certificate









Right Click

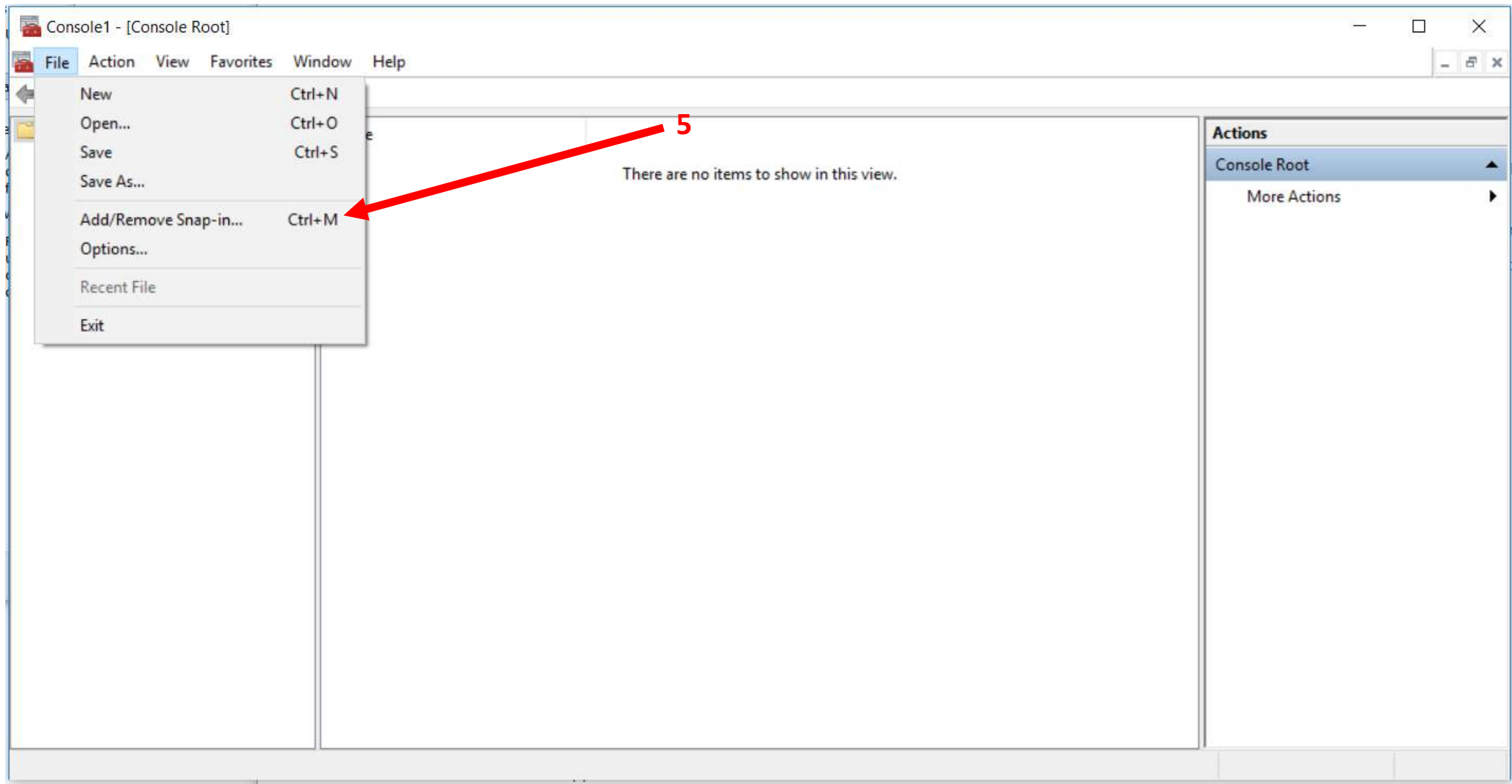
1

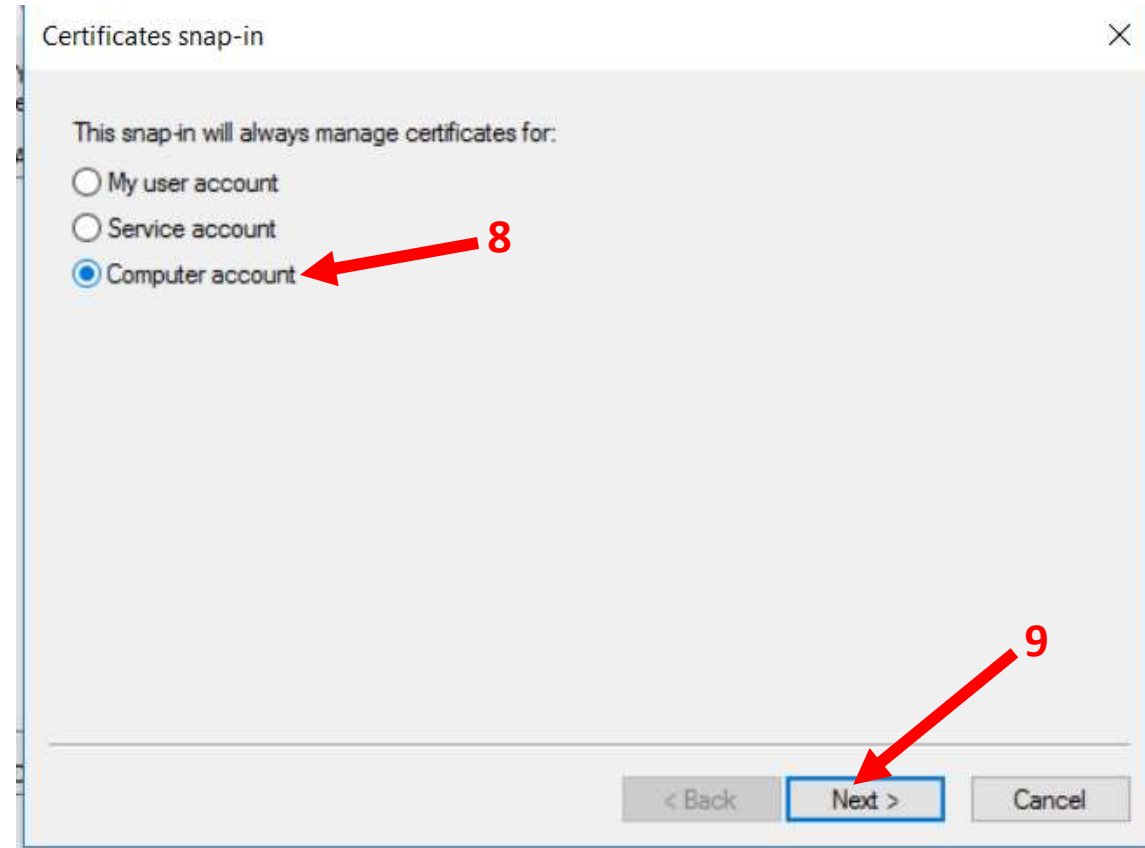
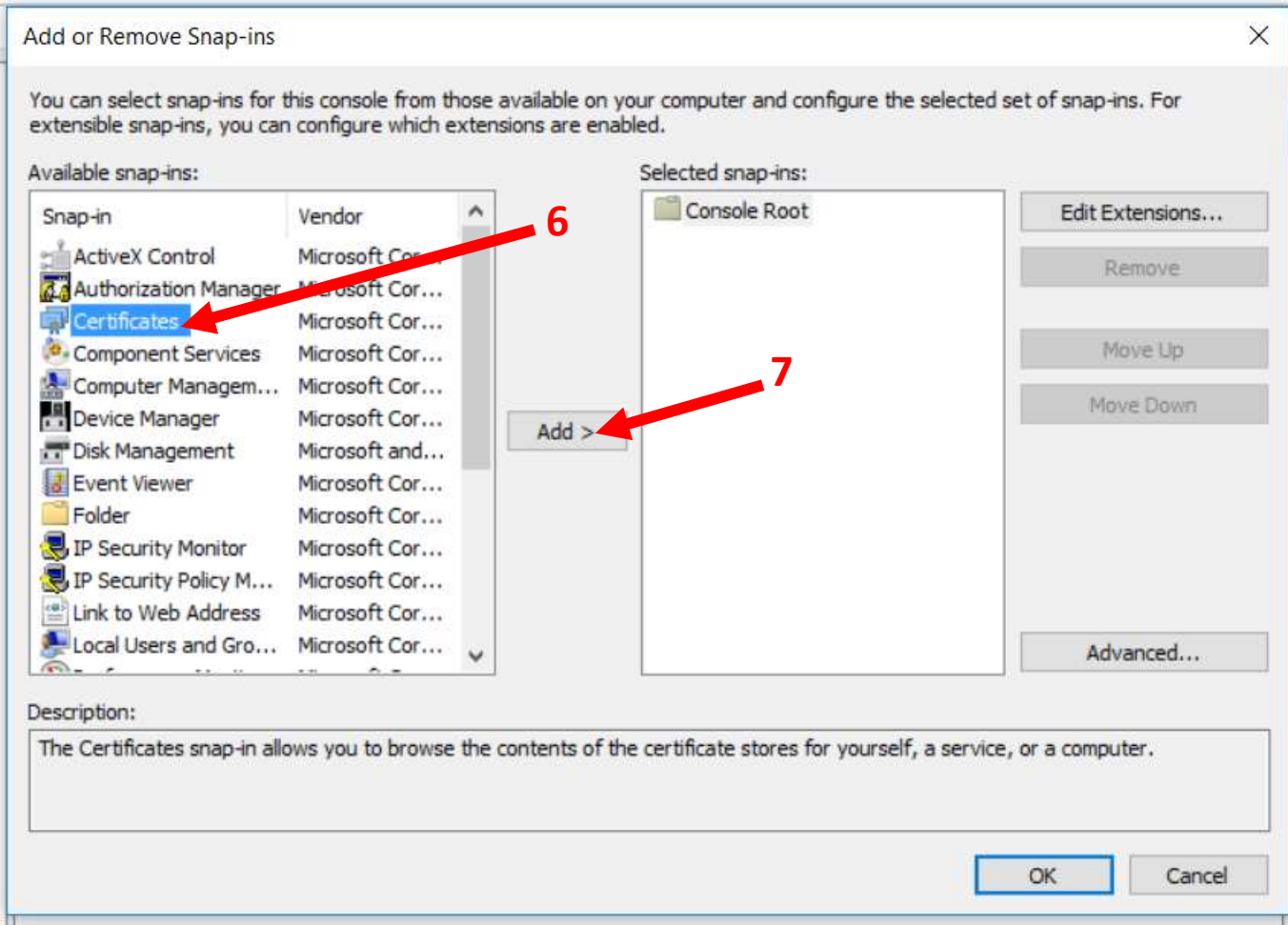
2

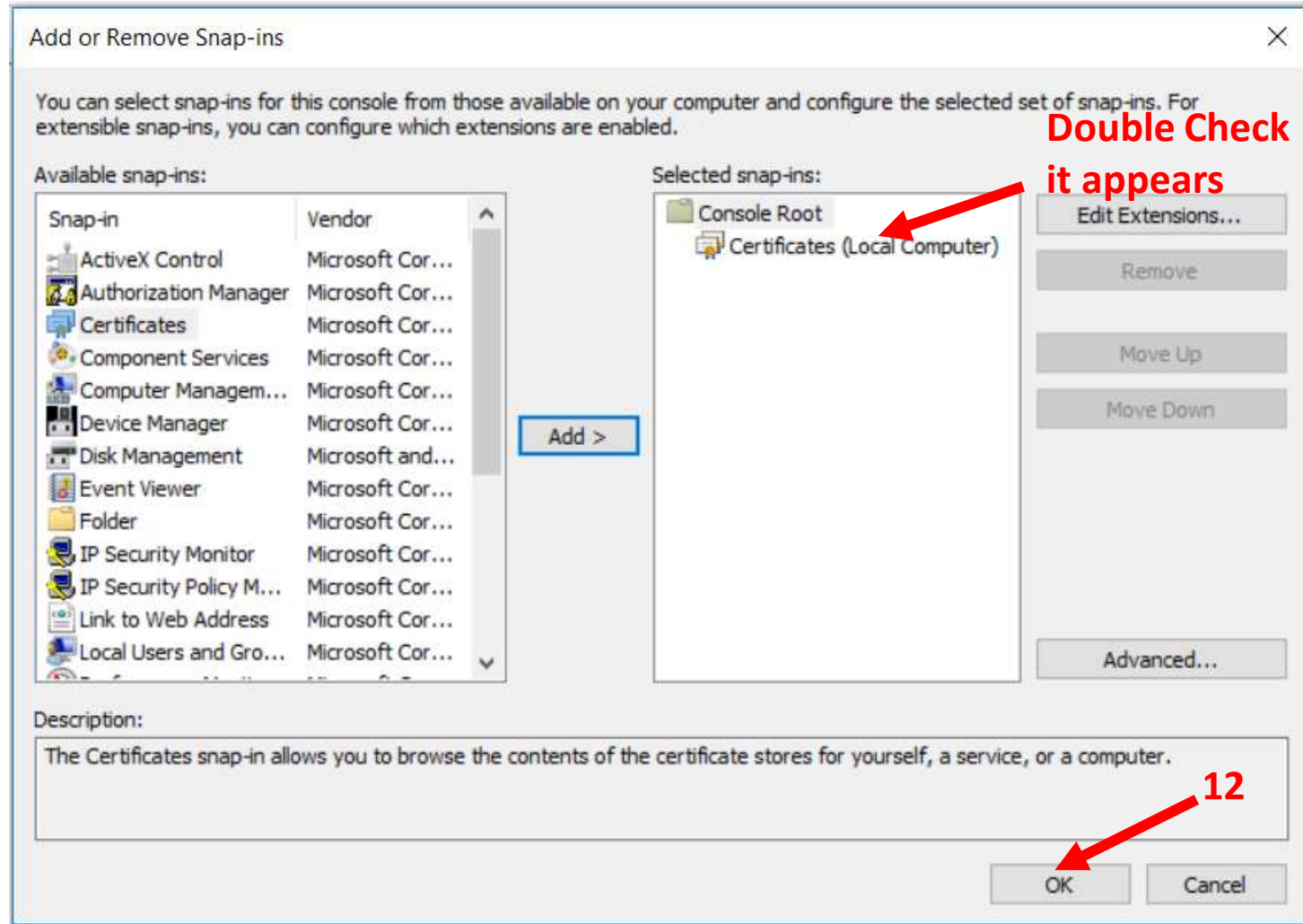
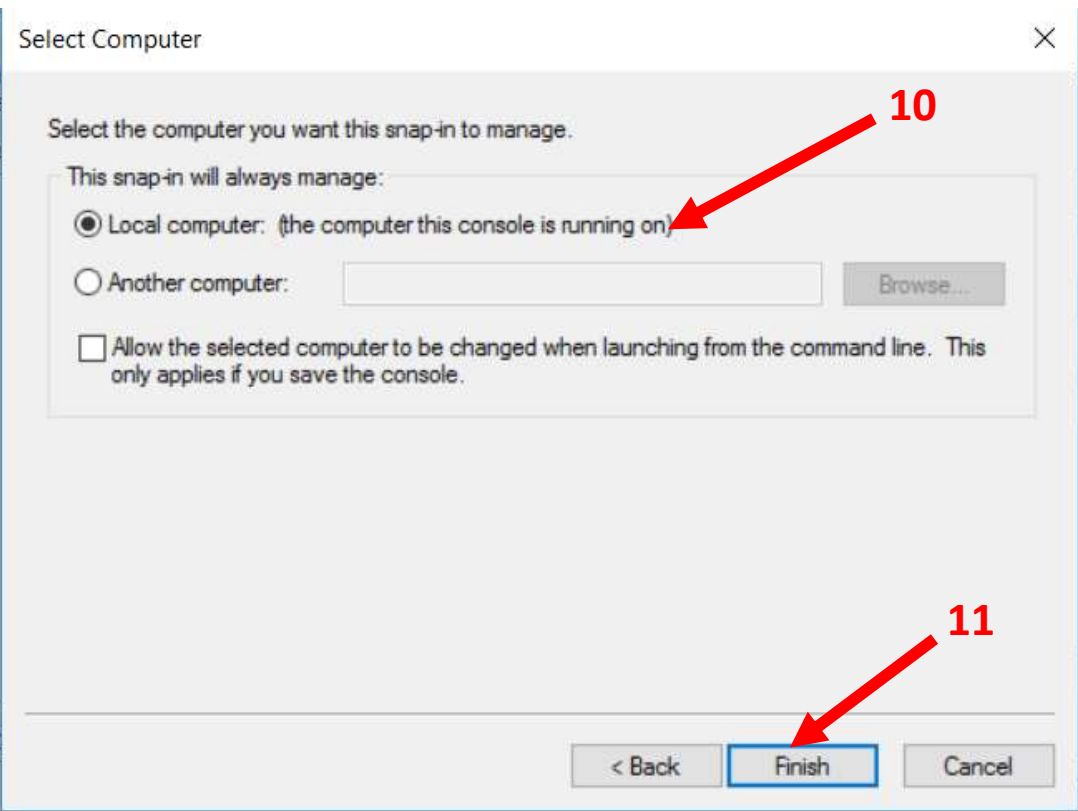
3

4









13

14

Right Click

15

Console1 - [Console Root]

File Action View Favorites Window Help

Console Root

Certificates (Local Computer)

Personal

Trusted Root Certification Authorities

Certificates

Enterprise

Intermediate

Trusted

Untrusted

Third-Party

Trusted

Client Authentication Issuers

Preview Build Roots

AAD Token Issuer

Homegroup Machine Certificate

Certificate Enrollment Requests

Smart Card Trusted Roots

Trusted Devices

Windows Live ID Token Issuer

All Tasks

New Window from Here

Refresh

Help

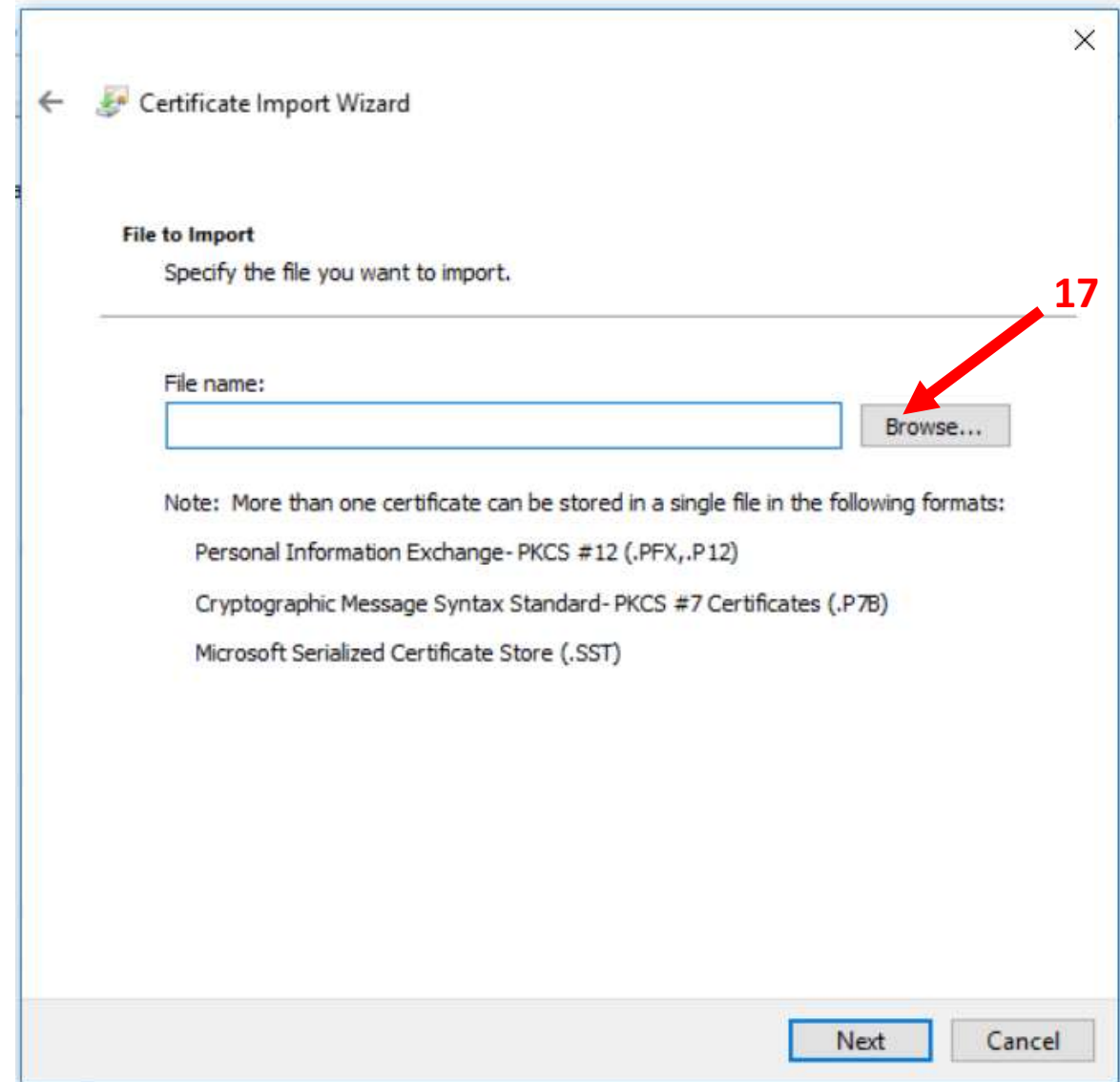
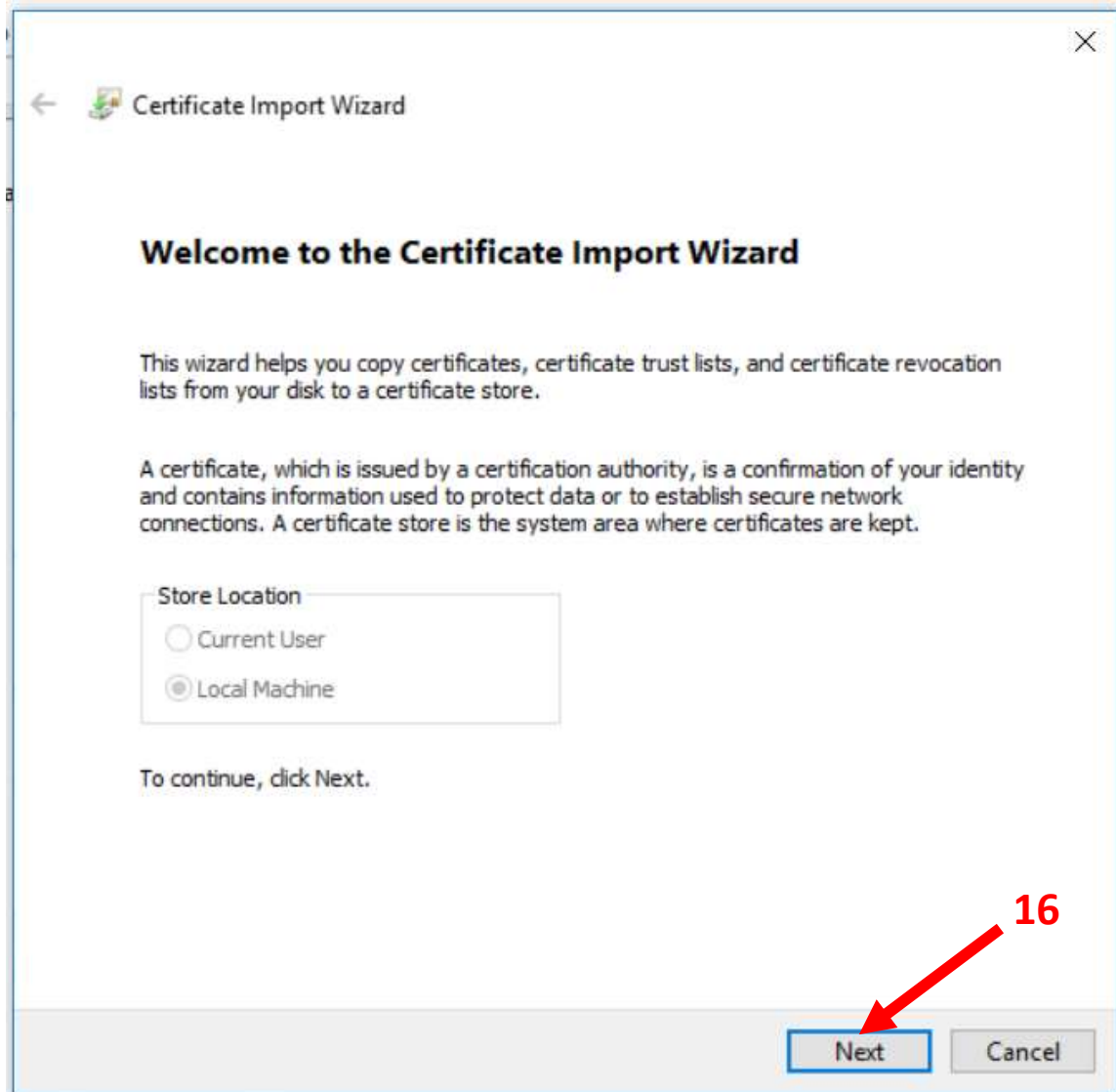
Import...

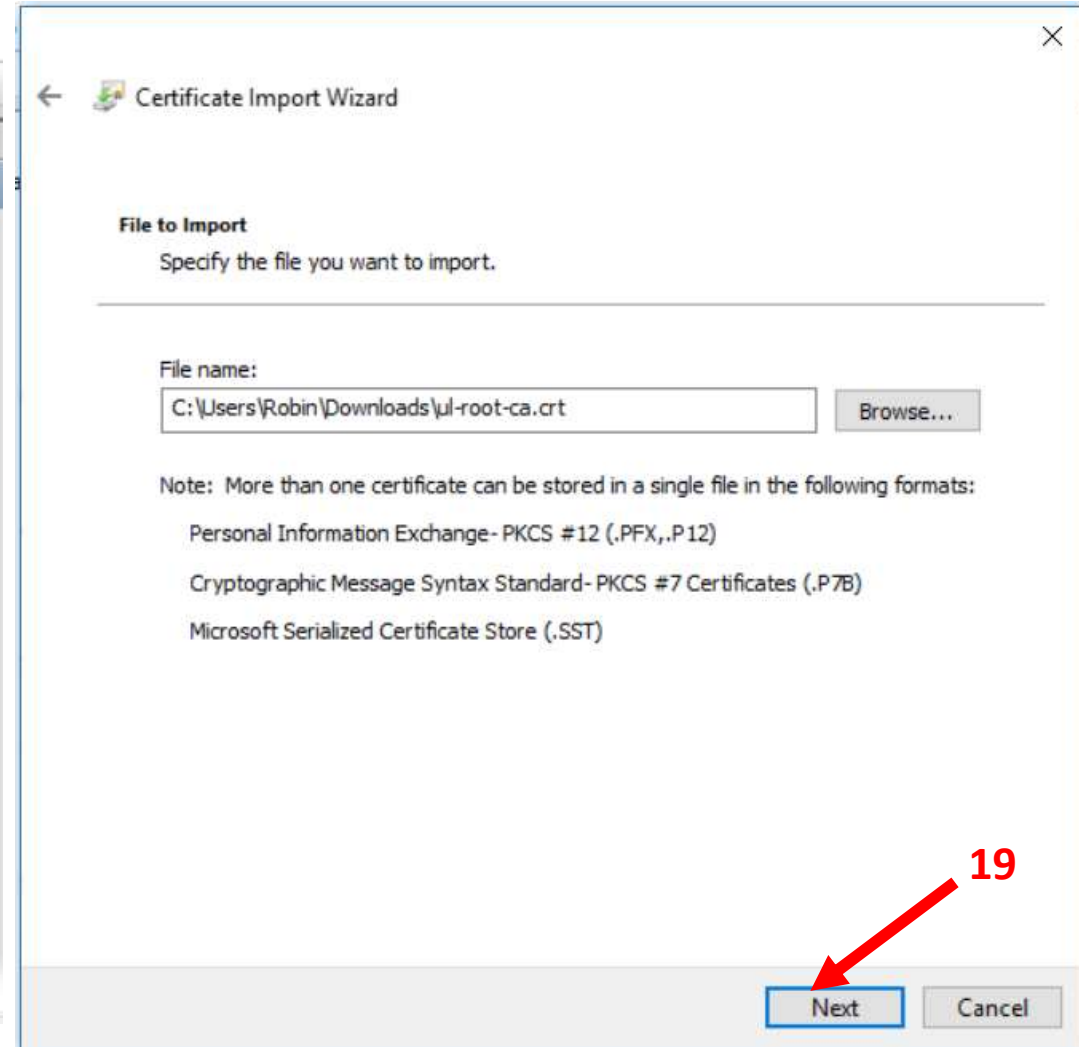
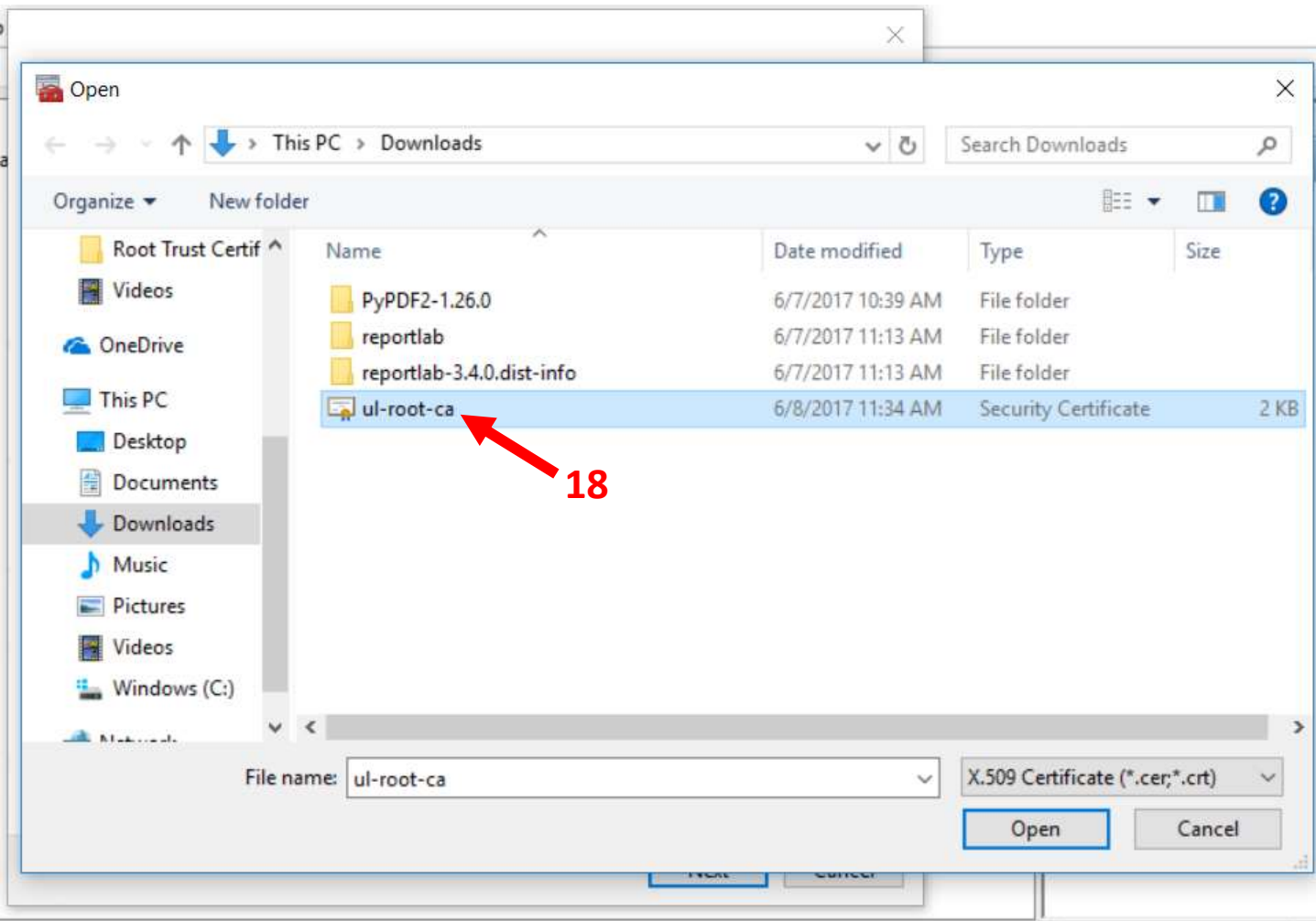
Actions

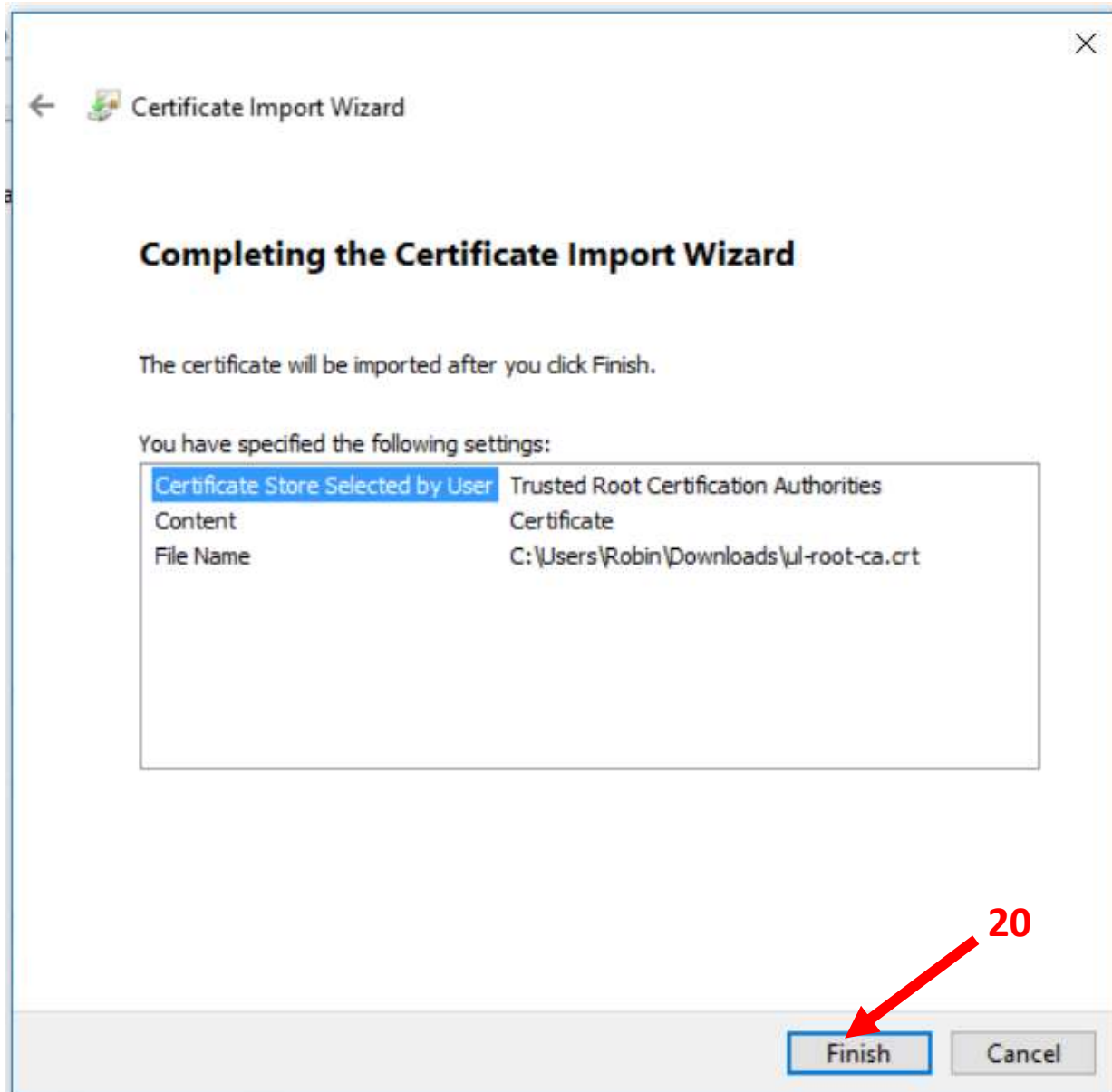
Console Root

More Actions

Add a certificate to a store



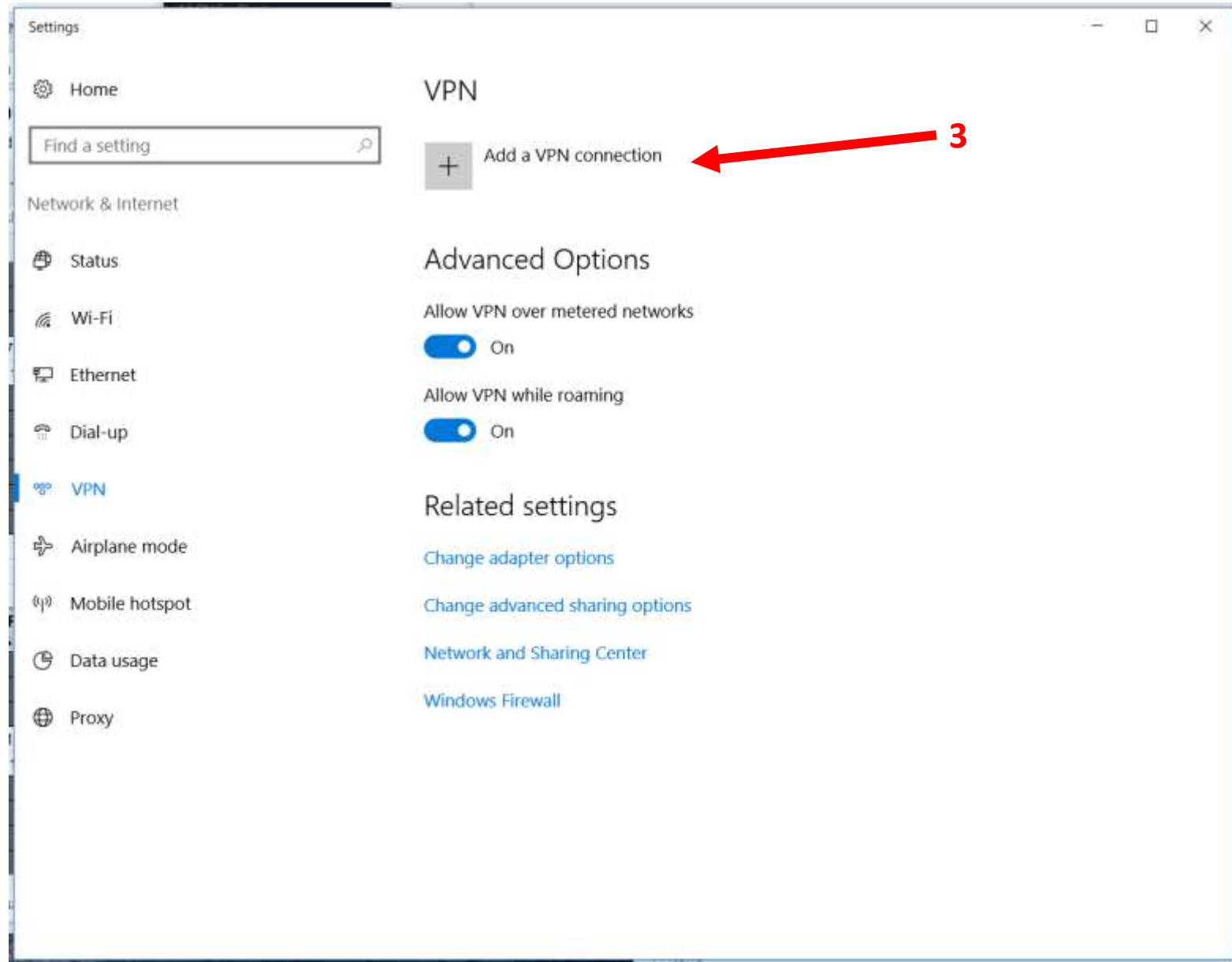
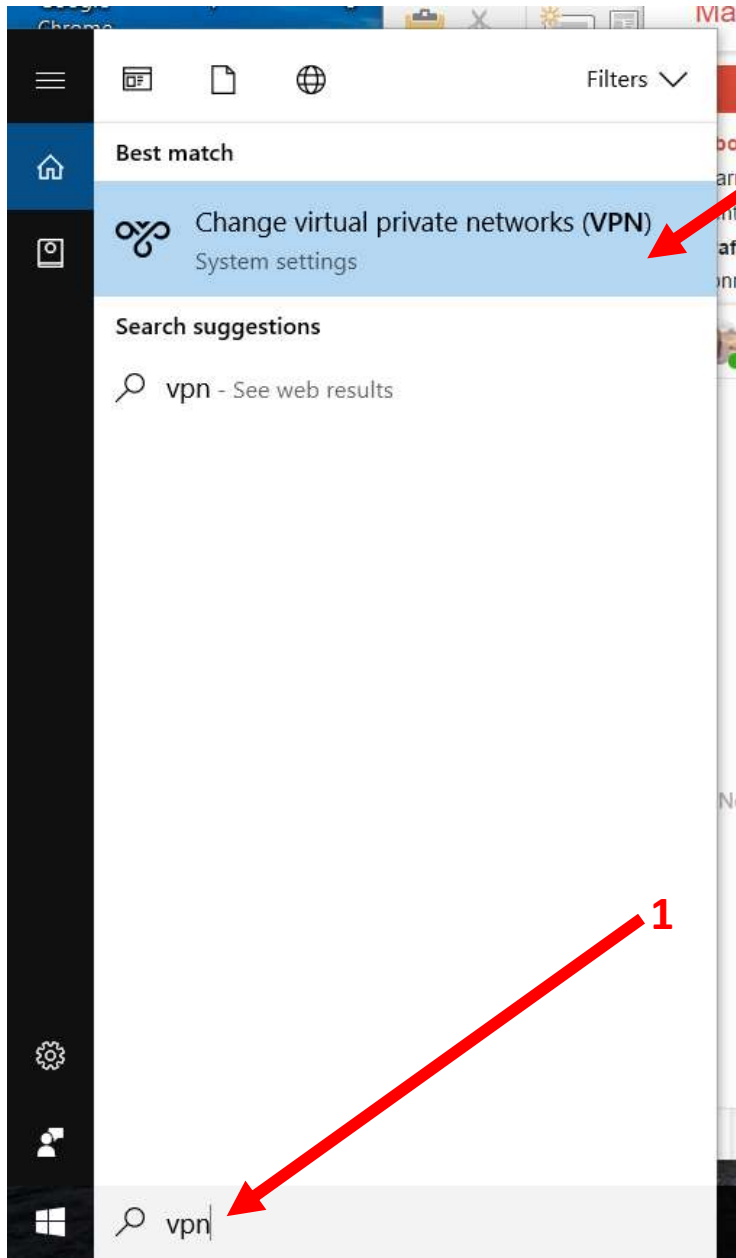




Save and Exit out of the Console.

SSTP Configuration for Windows 10

Establishing VPN



Glenn - horse579

- ← To Dashboard
- Overview
- Devices
- Wi-Fi
- VPN**
- Storage
- Ethernet
- Firewall
- Site Settings

Enable VPN

Connection Information

Server: [redacted] ← 1

Shared Key: [redacted]

Users

Enable this user

User Name: HomeVPN ← 2

Password: remoteaccess ← 3

Member of: Employees

Cancel Save

Edit VPN connection

These changes will take effect the next time you connect.

Connection name: HomeVPN

Server name or address: [redacted] × ← 4

VPN type: Secure Socket Tunneling Protocol (SSTP) ← 4

Type of sign-in info: User name and password ← 5

User name (optional): HomeVPN

Password (optional): [redacted] ← 6

Remember my sign-in info

Save Cancel

Establishing VPN

The screenshot shows the Windows Settings application with the 'VPN' section selected in the left-hand navigation pane. The main content area displays the 'VPN' settings. At the top, there is a '+ Add a VPN connection' button. Below it, a card for 'HomeVPN' is shown with a blue infinity icon and the text 'HomeVPN Connected'. A red arrow points from the text 'Connected!' to the 'Connected' status. Below the card are two buttons: 'Advanced options' and 'Disconnect'. Underneath, the 'Advanced Options' section contains two toggle switches: 'Allow VPN over metered networks' (On) and 'Allow VPN while roaming' (On). At the bottom, the 'Related settings' section lists links for 'Change adapter options', 'Change advanced sharing options', 'Network and Sharing Center', and 'Windows Firewall'.

Settings

Home

Find a setting

Network & Internet

Status

Wi-Fi

Ethernet

Dial-up

VPN

Airplane mode

Mobile hotspot

Data usage

Proxy

VPN

+ Add a VPN connection

HomeVPN
Connected

Advanced options Disconnect

Advanced Options

Allow VPN over metered networks
 On

Allow VPN while roaming
 On

Related settings

[Change adapter options](#)

[Change advanced sharing options](#)

[Network and Sharing Center](#)

[Windows Firewall](#)

Connected!

Questions?



Check out your partner collateral

- FAQ
- Training Material
- Marketing Material
- Pricing

Contact Support:

support@uplevelsystems.com

Phone: 971-317-3001