Providing secure remote access to a network for an iOS device

This recipe uses the VPN Wizard to provide a group of remote iOS users with secure, encrypted access to the corporate network. The example enables group members to access the internal network and forces them through the FortiGate unit when accessing the Internet. The example uses an iPad 2 running iOS 6.1.2 (menu options may vary for different iOS versions and devices).

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3. Configuring IPsec VPN phases using the VPN Wizard
4. Creating security policies for access to the internal network and the Internet
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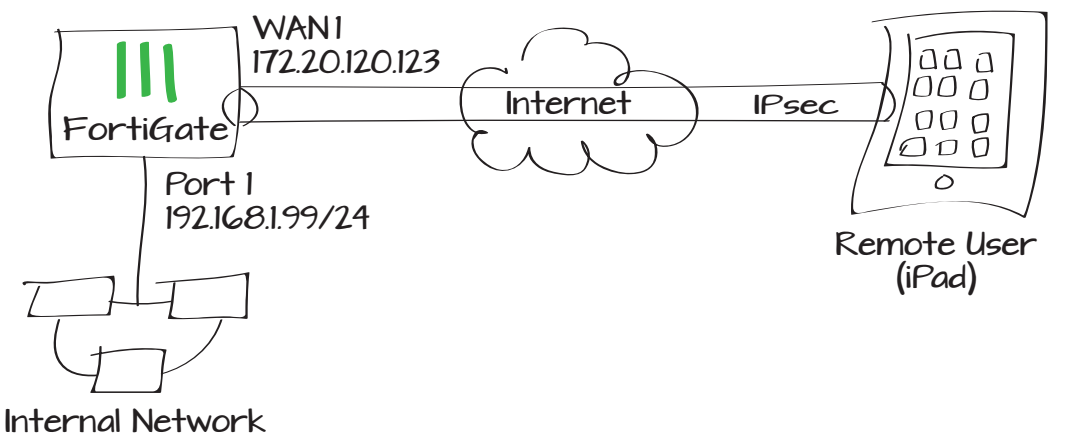


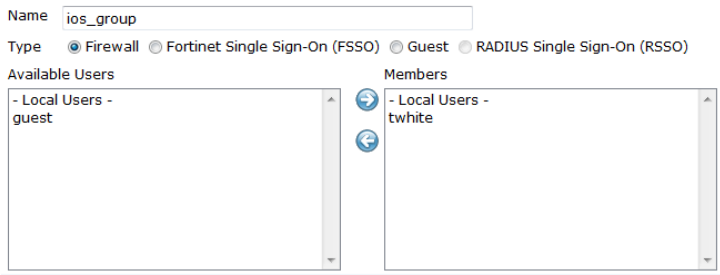
Creating a user group for iOS users

Go to **User & Device > User > User Definition**.

Create a new user.

Go to **User & Device > User > User Groups**.

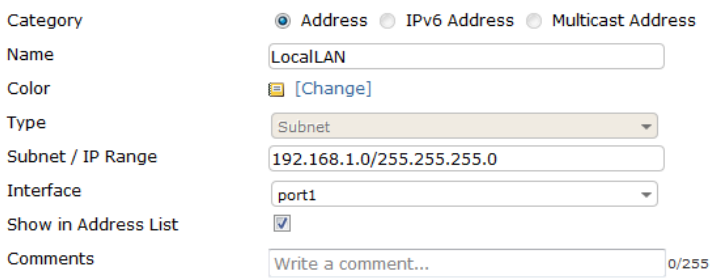
Create a user group for iOS users and add the user you created.



Adding addresses for the local LAN and remote users

Go to **Firewall Objects > Address > Addresses**.

Add the address for the local network, including the subnet and local interface.



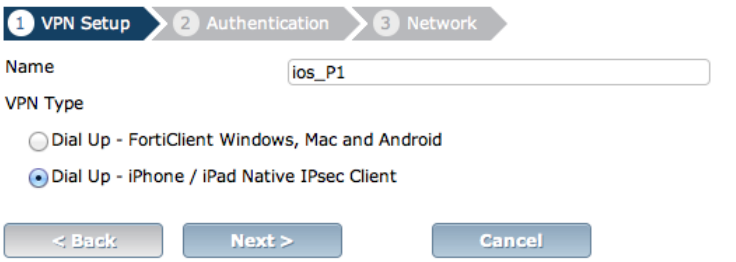
Go to **Firewall Objects > Address > Addresses**.

Add the address for the remote user, including the IP range.

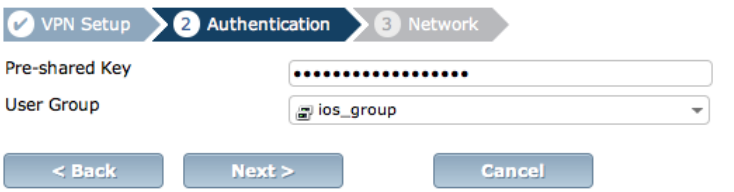
Configuring the IPsec VPN phases using the VPN Wizard

Go to **VPN > IPSec > Auto Key (IKE)**.

Select **Create VPN Wizard**. Name the VPN connection and select **Dial Up - iPhone / iPad Native IPsec Client**. Click **Next**.



Enter your pre-shared key and select the iOS user group, then click **Next**. Note that the pre-shared key is a credential for the VPN and should differ from the user's password.



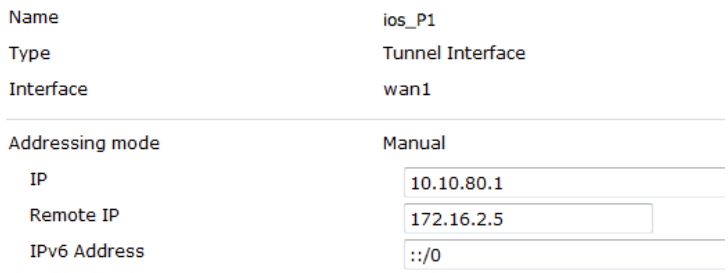
Select your Internet-facing interface for the **Local Outgoing Interface**, and enter the IP range from the address range you created.

Assigning an IP to the VPN interface (optional)

If you wish to control the IP address that will be assigned to any traffic egressing over the IPsec interface, you can assign an IP to the interface.

Go to **System > Network > Interfaces**. Expand your Internet-facing interface and edit the VPN interface.

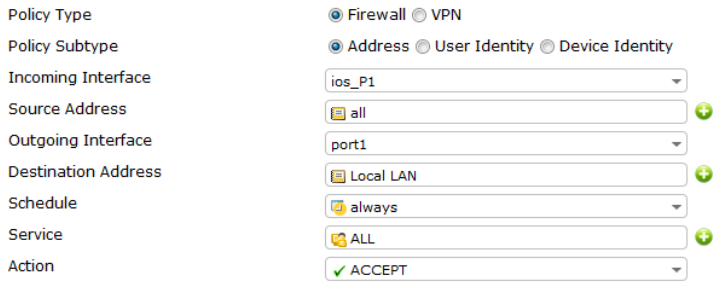
Assign the **IP** and **Remote IP** addresses. These addresses should not be related to the IPs used for the internal network or the Internet-facing interface.



Creating security policies for access to the internal network and the Internet

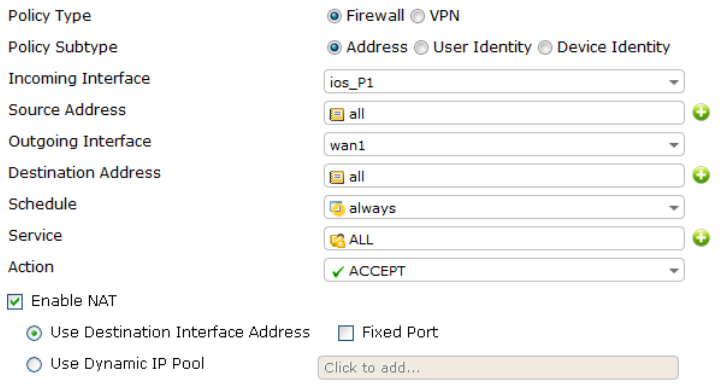
Go to **Policy > Policy > Policy**.

Create a security policy allowing remote iOS users to access the internal network.



Go to **Policy > Policy > Policy**.

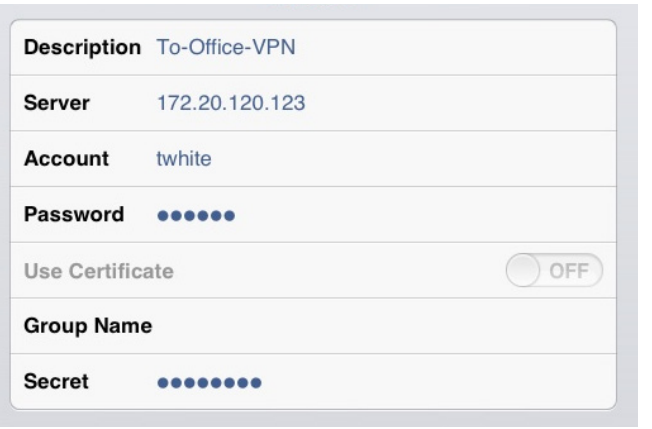
Create a security policy allowing remote iOS users to access the Internet securely through the FortiGate unit. Ensure that **Enable NAT** is checkmarked.



Configuring VPN on the iOS device

On the iPad, go to **Settings > General > VPN** and select **Add VPN Configuration**.

Enter the VPN address, user account, and password in their relevant fields. Enter the pre-shared key in the **Secret** field.



In order to connect to the VPN tunnel, a **Group Name** may be required. If you are unable to connect, add this field to the VPN client to determine if the blank field is the cause.

Results

On the FortiGate unit, go to **VPN > Monitor > IPsec Monitor** and view the status of the tunnel.

Name	Type	Remote Gateway	Username	Proxy ID Sour
ios_P1_0	Dialup	172.20.120.126	twhite	0.0.0.0-255.255.255.

Users on the internal network will be accessible using the iOS device.

Go to **Log & Report > Traffic Log > Forward Traffic** to view the traffic.

Refresh Download Raw Log

#	Date/Time	Src Interface	Dst Interface	Src	Dst	Sent / Received	
1	11:22:41	ios_P1	wan1	10.10.1.100	208.91.112.53	59 B / 221 B	7
2	11:22:41	ios_P1	wan1	10.10.1.100	208.91.112.53	60 B / 292 B	7
3	11:22:41	ios_P1	wan1	10.10.1.100	208.91.112.53	56 B / 288 B	7
4	11:21:42	port1	wan1	192.168.1.117	208.91.113.70	304 B / 304 B	3
5	11:20:44	ios_P1	port1	10.10.1.100	192.168.1.114	72 B / 72 B	6

Select an entry to view more information.

Dst	192.168.1.114	**Virtual Domain**	root
Received	72	**Source Country**	Reserved
Sent / Received	72 B / 72 B	**Duration**	63
Sent	72	**Application Details**	
Service	PING	**Protocol**	1
Destination Country	Reserved	**roll**	65428
Status	✓	**Timestamp**	Thu Feb 21 11:20:44 2013
Tran Display	noop	**Sequence Number**	220067
Policy ID	6	**Src Interface**	ios_P1
Src	10.10.1.100	**VPN**	ios_P1_0
Sent Packets	2	**Level**	notice
VPN Type	ipsec-dynamic	**logid**	13
Sub Type	forward	**Threat**	
Received Packets	2	**Date/Time**	11:20:44 (Thu Feb 21 11:20:44 2013)
Dst Interface	port1		

Remote iOS users can also access the Internet securely via the FortiGate unit.

Go to **Log & Report > Traffic Log >**

Forward Traffic to view the traffic.

Select an entry to view more information.

#	Date/Time	Src Interface	Dst Interface	Src	Dst	Sent / Received	Polic
1	11:28:43	ios_P1	wan1	10.10.1.100	74.121.50.17	1023 B / 579 B	7
2	11:22:41	ios_P1	wan1	10.10.1.100	208.91.112.53	59 B / 221 B	7
3	11:22:41	ios_P1	wan1	10.10.1.100	208.91.112.53	60 B / 292 B	7
4	11:22:41	ios_P1	wan1	10.10.1.100	208.91.112.53	56 B / 288 B	7
5	11:20:42	ios_P1	wan1	10.10.1.100	173.194.73.105	812 B / 642 B	7

Dst	74.121.50.17	**Virtual Domain**	root
Received	579	**Source Country**	Reserved
Src NAT IP	172.20.120.123	**Sent / Received**	1023 B / 579 B
Duration	2	**Sent**	1023
Src NAT Port	50189	**Application Details**	
Service	HTTP	**Protocol**	6
Destination Country	United States	**Dst Port**	80
roll	65428	**Status**	close
Timestamp	Thu Feb 21 11:28:43 2013	**Tran Display**	snat
Sequence Number	221594	**Policy ID**	7
Src Interface	ios_P1	**Src**	10.10.1.100
VPN	ios_P1_0	**Sent Packets**	6
Level	notice	**VPN Type**	ipsec-dynamic
Src Port	50189	**logid**	13
Sub Type	forward	**Threat**	
Received Packets	4	**Date/Time**	11:28:43 (Thu Feb 21 11:28:43 2013)
Dst Interface	wan1		

View the status of the tunnel on the iOS device.

On the iPad, go to **Settings > General > VPN** and view the **Status** of the connection.

Using a Ping tool, send a ping packet directly to an IP address on the LAN behind the FortiGate unit to verify the connection through the VPN tunnel..