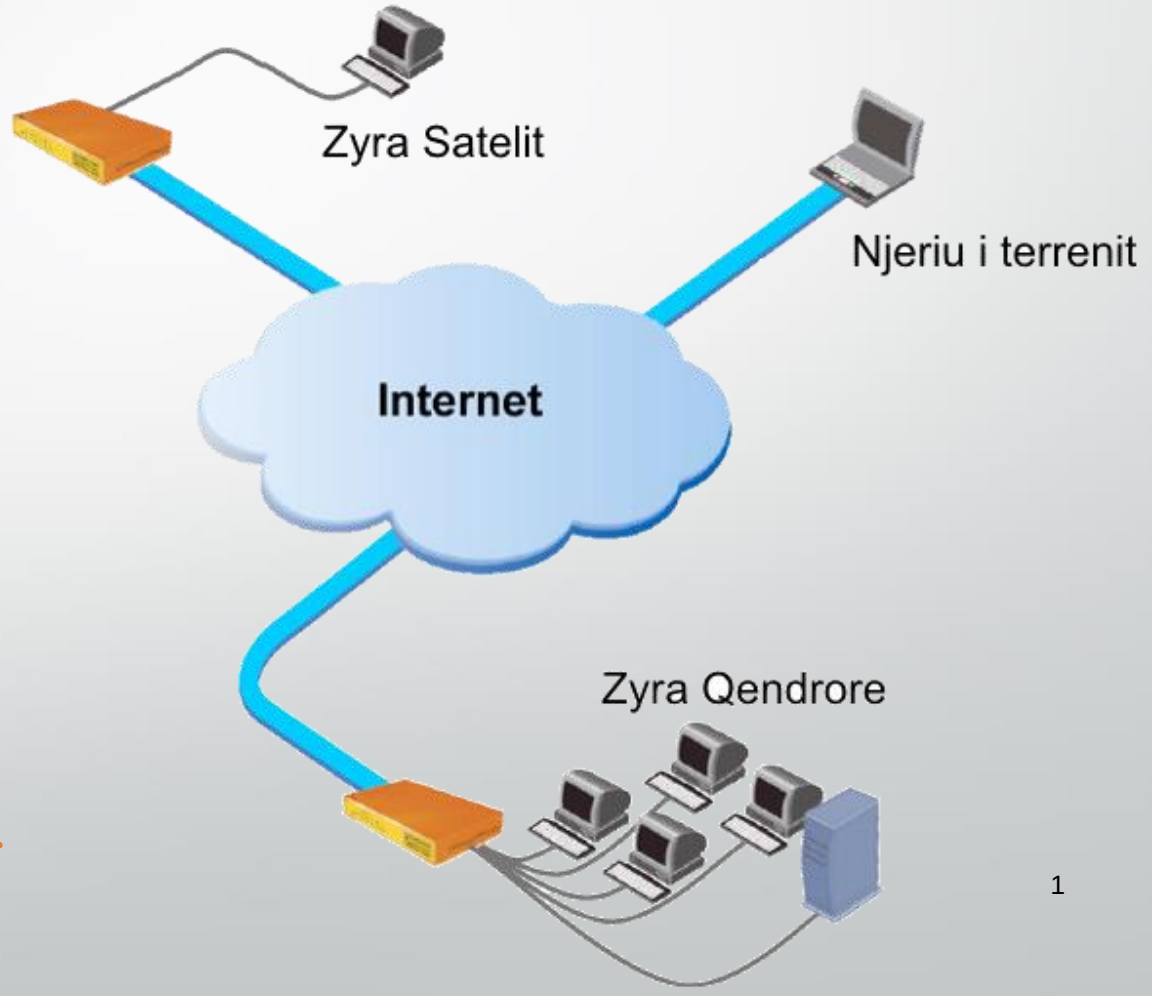
Krijimi i Tuneleve me IPSEC (VPN)



ELTON TËRSHANA

Tiranë,Nëntor 2018

Qëllimi

- Tunelet private krijohen me qëllim lidhjen e dy apo më shumë rrjeteve të vecuar nga njëri tjetri njësoj sikur të ishin brenda të njëjtit rrjet.
- Ka disa lloje tunelesh si PPtP, L2TP, PPPoE, IPSEC, EOIP (ky është protokoll i Mikrotik-ut), etj.
- Mënyra se si lidhen rrjetet janë kryesisht dy llojesh, site to site dhe road warrior (njeriu në terren).

IPSEC (Internet Protocol Security) është një bashkësi protokollesh me qëllim shkëmbim të mbrojtur të paketave përmes rrjeteve jo të siguruara sic është interneti.

DY FAZAT KRYESORE

Internet Key Exchange, ndryshe IKE (IKEv1, IKEv2)

Encapsulating Security Payload, EPS

Në fazën e parë palët shkëmbejnë mesazhet IKE dhe krijojnë tunelin kur përputhen të dhënat (është e detyrueshme që palët të kenë të njëjtën orë)

Faza e parë	Authentication Method	Pre-shared key: Medi!@IPsec_18VPN
	Exchange mode	Main (IKE v1) or IKE2
	Lifetime	1d
	Hash algorithm	Sha256
	Encryption algorithm	Aes-128
	DH Group	Modp 1024

Në fazën e dytë sigurohet enkriptimi

Faza e dytë	**Authentication algorithm**	**Sha1**
	Encryption algorithm	3des
	Lifetime	30m (1800s)
	PFS Group	None
	IPSEC Protocol	Esp
	Tunnel	Yes

Paisjet

- Për ruterin qëndror duhet gjithmonë të shikojmë për opsionin “IPSEC Hardware Encryption”.
- Për paisjet dytësore mund edhe të përdorim ruter pa “IPSEC Hardware Encryption”.

MikroTik

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Products

hEX

5x Gigabit Ethernet, Dual Core 880MHz CPU, 256MB RAM, USB, microSD, RouterOS L4

hEX is a five port Gigabit Ethernet router for locations where wireless connectivity is not required. The device has a full size USB port. This new updated revision of the hEX brings several improvements in performance.

It is affordable, small and easy to use, but at the same time comes with a very powerful dual core 880MHz CPU and 256MB RAM, capable of all the advanced configurations that RouterOS supports.

IPsec hardware encryption (~470 Mbps) and The Dude server package is supported, microSD slot on it provides improved r/w speed for file storage and Dude.

Send purchase questions

Specifications | Support & Downloads | Gallery | Test results

https://wiki.mikrotik.com/wiki/Manual:IP/IPsec#Hardware_acceleration

Hardware acceleration

Hardware acceleration allows to do faster encryption process by using built-in encryption engine inside CPU.

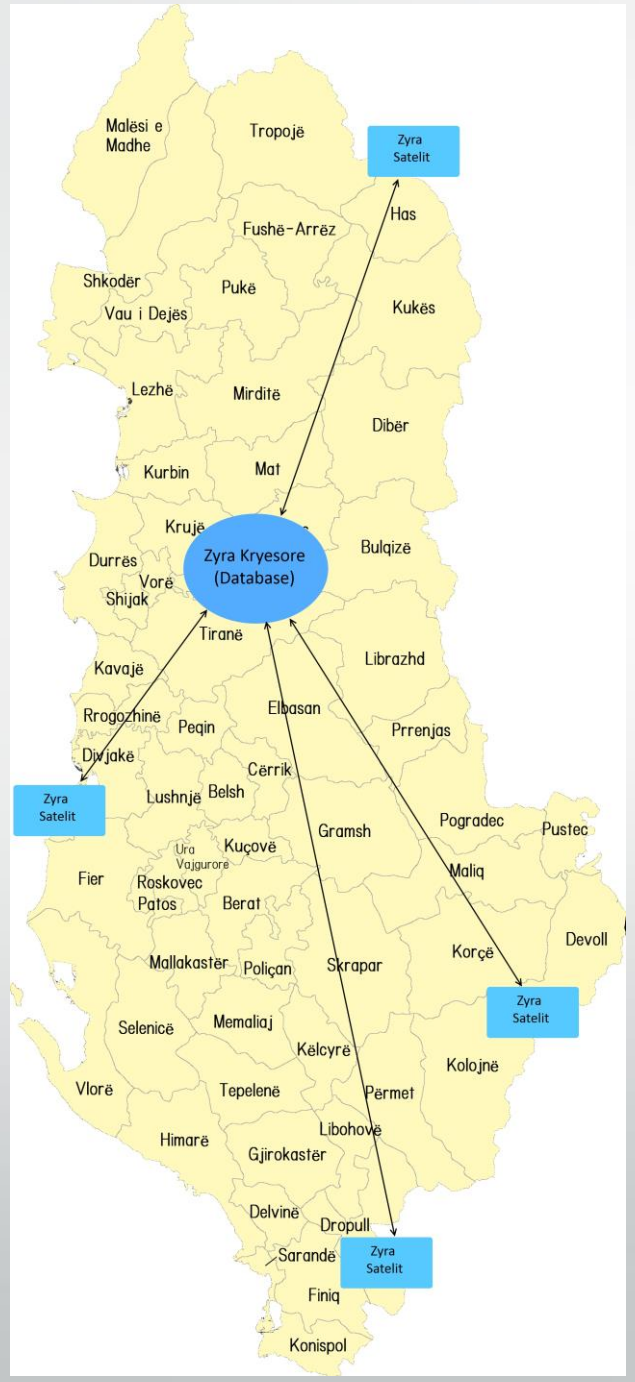
RouterBoard	DES and 3DES				AES-CBC				AES-CTR				AES-GCM			
	MD5	SHA1	SHA256	SHA512	MD5	SHA1	SHA256	SHA512	MD5	SHA1	SHA256	SHA512	MD5	SHA1	SHA256	SHA512
RBcAPGi-5acD2nD (cAP ac) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBD52G-5HacD2HnD (hAP ac^2) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBDiscG-5acD (DISC Lite5 ac) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBLDFG-5acD (LDF 5 ac) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBLHGG-5acD (LHG 5 ac) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBLHGG-5acD-XL (LHG XL 5 ac) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBLHGG-60ad (Wireless Wire Dish) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBM11G ****	yes	yes	yes	no	yes	yes	yes	no	no	no	no	no	no	no	no	no
RBM33G ****	yes	yes	yes	no	yes	yes	yes	no	no	no	no	no	no	no	no	no
RBSXTsqG-5acD (SXTsq 5 ac) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBwAPG-60ad (wAP 60G) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RBwAPG-60ad-A (wAP 60G AP) *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RB450Gx4 *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RB750Gr3 (hEX) ****	yes	yes	yes	no	yes	yes	yes	no	no	no	no	no	no	no	no	no
RB760iGS (hEX S) ****	yes	yes	yes	no	yes	yes	yes	no	no	no	no	no	no	no	no	no
RB850Gx2 **	no	no	no	no	yes	yes	yes	yes	no	no	no	no	no	no	no	no
RB1100AHx2	no	no	no	no	yes	yes	yes	yes	no	no	no	no	no	no	no	no
RB1100AHx4 and RB1100AHx4 Dude Edition	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
RB1200 ***	no	no	no	no	yes	yes	yes	yes	yes	yes	yes	yes	no	no	no	no
RB3011UiAS-RM *	no	yes	yes	no	no	yes	yes	no	no	yes	yes	no	no	no	no	no
RB4011iGS+RM and RB4011iGS+5HacQ2HnD-IN	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Cloud Core Router series	yes	yes	yes	no	yes	yes	yes	no	yes	yes	yes	no	no	no	no	no

RB3011 që nga versioni 6.43.1 ROS

IPsec Performance

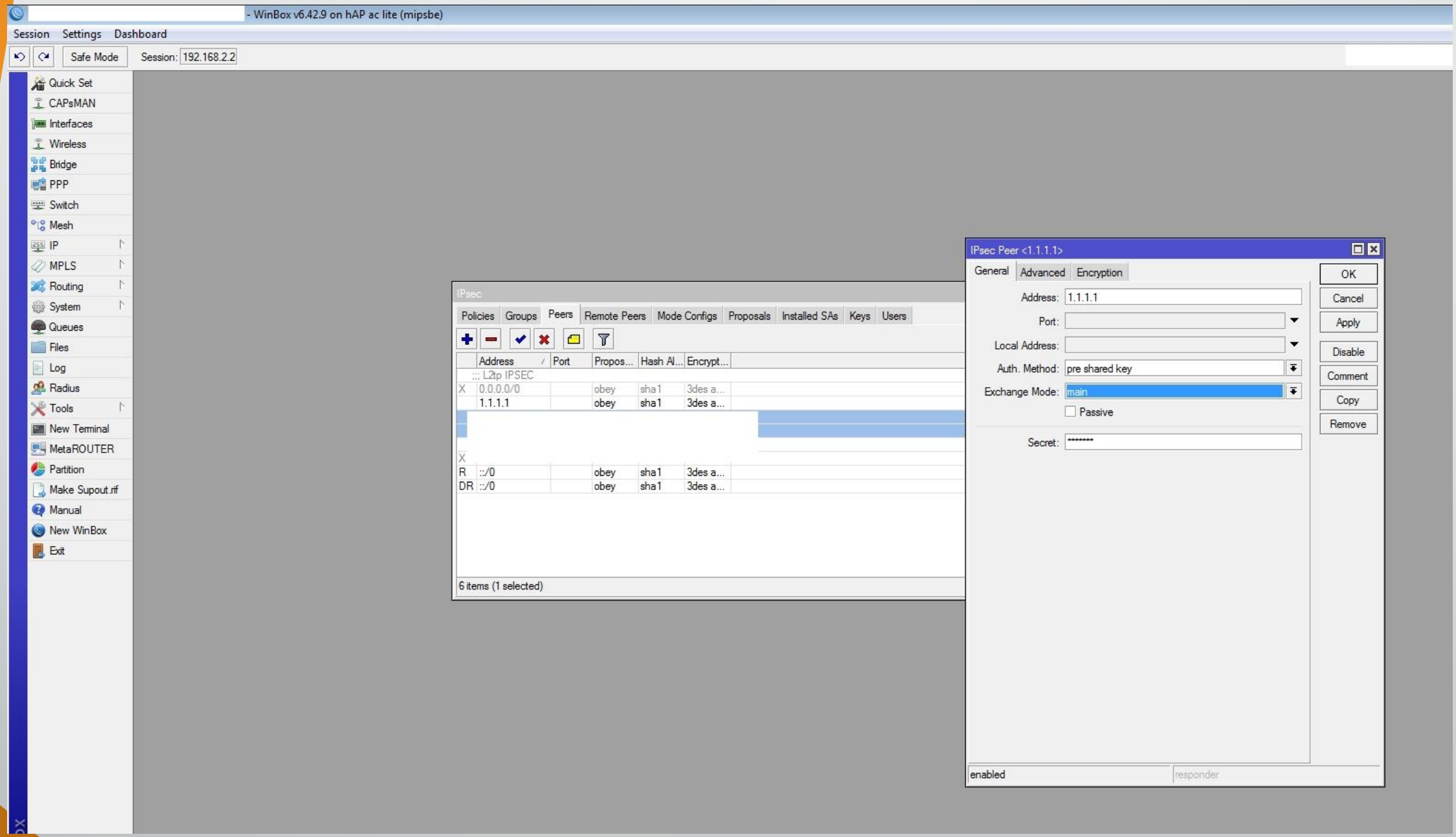
Packet size 1400 bytes, speed in Mbps

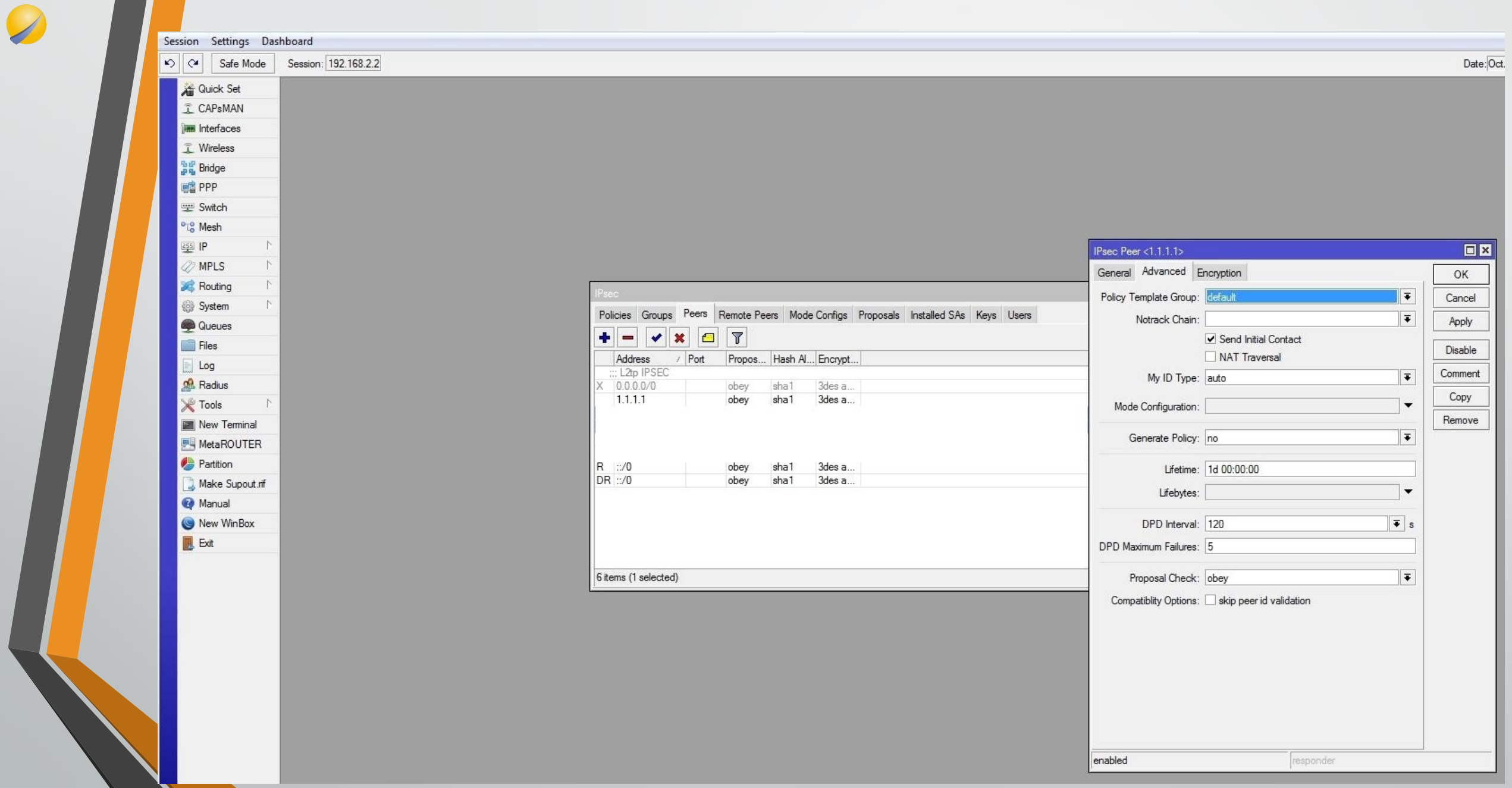
Mode	Configuration	hEX	RB1100	CCR1009	CCR1036
1 tunnel	AES-128-CBC + SHA1	469.3	1366.4	1260.0	1461.6
256 tunnels	AES-128-CBC + SHA1	469.3	2158.2	2599.5	10224.5
	AES-128-CBC + SHA256	472.6	2154.9	2599.5	10110.2
	AES-256-CBC + SHA1	358.4	2016.0	2576.0	10091.2
	AES-256-CBC + SHA256	359.5	2016.0	2576.0	9996.0


Malësi e Madhe
Tropojë
Zyra Satelit
Has
Fushë-Arrëz
Shkodër
Pukë
Vau i Dejës
Kukës
Lezhë
Mirditë
Dibër
Kurbin
Mat
Krujë
Zyra Kryesore (Database)
Bulqizë
Durrës
Vorë
Shijak
Tiranë
Librazhd
Kavajë
Elbasan
Rrogozhinë
Peqin
Prrenjas
Divjakë
Cërrik
Zyra Satelit
Lushnjë
Belsh
Pogradec
Pustec
Gramsh
Ura Vajgurore
Kuçovë
Maliq
Fier
Roskovec
Patos
Berat
Devoll
Korçë
Mallakastër
Poliçan
Skrapar
Zyra Satelit
Selenicë
Memaliaj
Këlcyrë
Kolojnë
Vlorë
Tepelenë
Përmet
Libohovë
Himarë
Gjirokastër
Delvinë
Dropull
Sarandë
Zyra Satelit
Finiq
Konispol

Percaktimi i broadcast domain

- Duhen planifikuar mirë paraprakisht broadcast domain për secilin rrjet.
  - Zyra Qëndrore: 192.168.0.0/24
  - Zyra e parë: 192.168.5.0/24
  - Zyra e dytë: 192.168.10.0/24
  - Zyra e tretë: 192.168.15.0/24


- WinBox v6.42.9 on hAP ac lite (mipsbe)
Session Settings Dashboard
Safe Mode
Session: 192.168.2.2
Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
MPLS
Routing
System
Queues
Files
Log
Radius
Tools
New Terminal
MetaROUTER
Partition
Make Supout.rif
Manual
New WinBox
Exit
IPsec
Policies Groups Peers Remote Peers Mode Configs Proposals Installed SAs Keys Users
Address Port Propos... Hash Al... Encrypt...
;;; L2tp IPSEC
X 0.0.0.0/0 obey sha1 3des a...
1.1.1.1 obey sha1 3des a...
X
R ::/0 obey sha1 3des a...
DR ::/0 obey sha1 3des a...
6 items (1 selected)
IPsec Peer <1.1.1.1>
General Advanced Encryption
Address: 1.1.1.1
Port:
Local Address:
Auth. Method: pre shared key
Exchange Mode: main
Passive
Secret: *******
OK
Cancel
Apply
Disable
Comment
Copy
Remove
enabled
responder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Date: Oct
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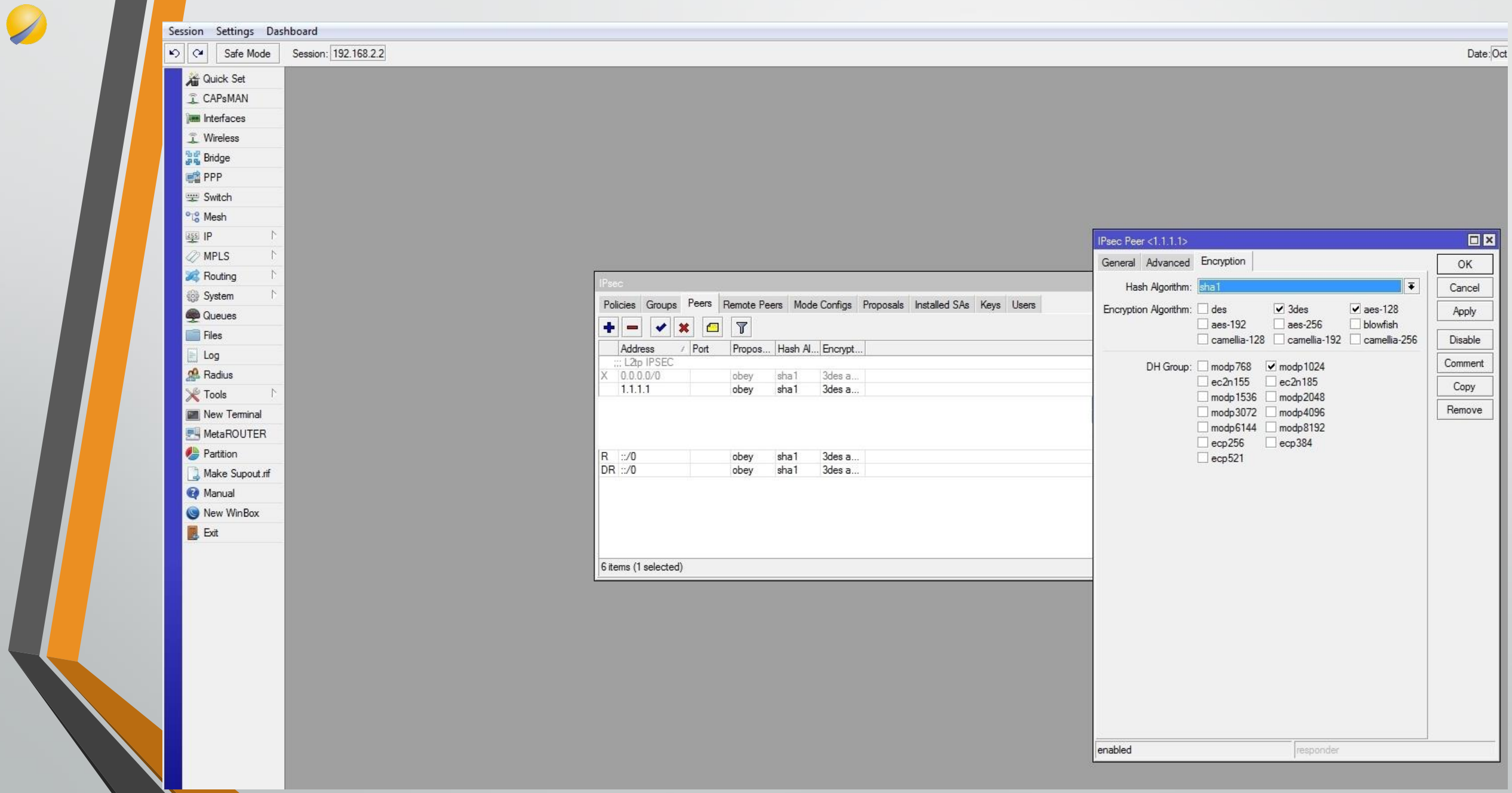
1.1.1.1 obey sha1 3des a...
R ::/0 obey sha1 3des a...
DR ::/0 obey sha1 3des a...
6 items (1 selected)
IPsec Peer <1.1.1.1>
General Advanced Encryption
OK
Cancel
Apply
Disable
Comment
Copy
Remove
Policy Template Group: default
Notrack Chain:
Send Initial Contact
NAT Traversal
My ID Type: auto
Mode Configuration:
Generate Policy: no
Lifetime: 1d 00:00:00
Lifebytes:
DPD Interval: 120 s
DPD Maximum Failures: 5
Proposal Check: obey
Compatiblity Options: skip peer id validation
enabled
responder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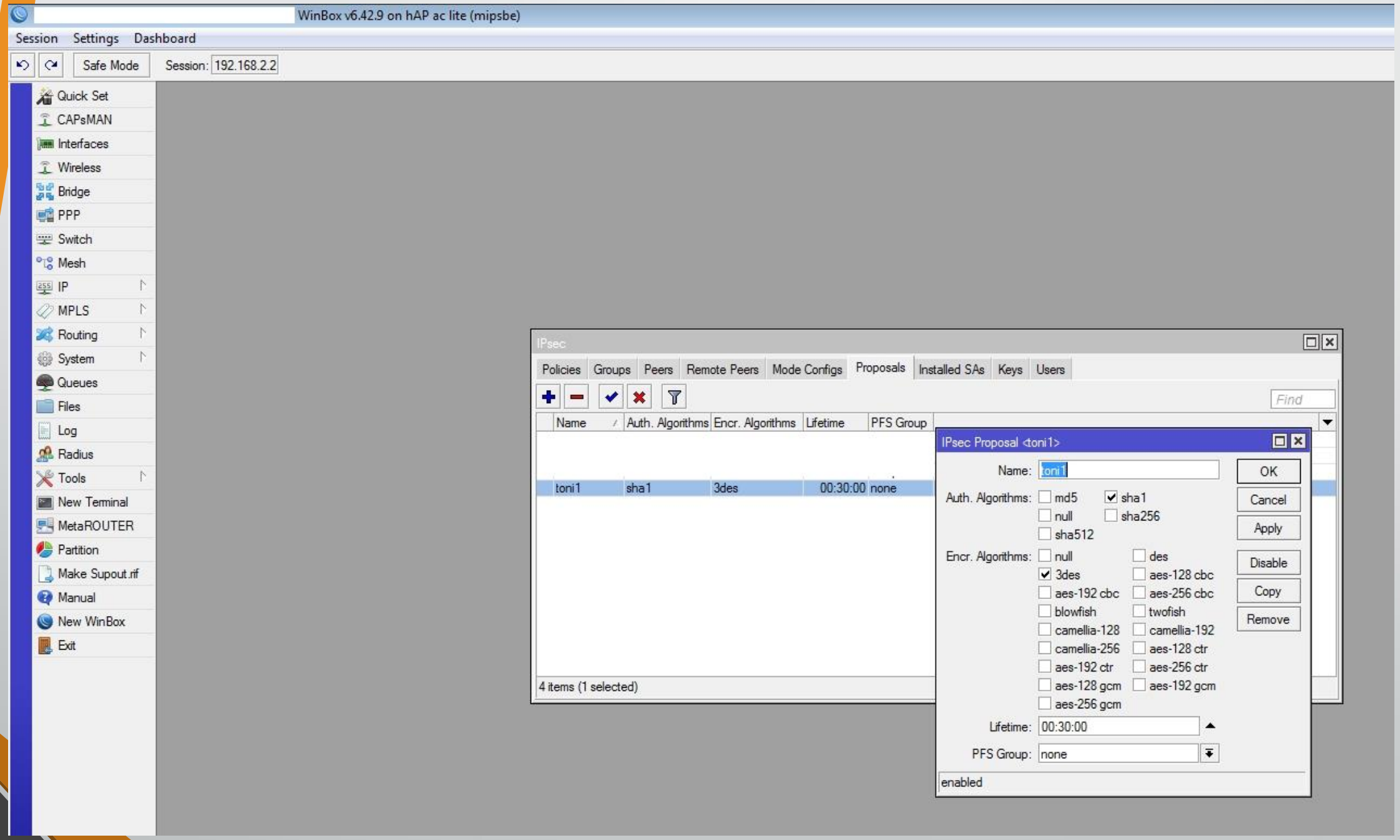
Address Port Propos... Hash Al... Encrypt...
;;; L2tp IPSEC
X 0.0.0.0/0 obey sha1 3des a...
1.1.1.1 obey sha1 3des a...
R ::/0 obey sha1 3des a...
DR ::/0 obey sha1 3des a...
6 items (1 selected)
IPsec Peer <1.1.1.1>
General Advanced Encryption
Hash Algorithm: sha1
Encryption Algorithm: des 3des aes-128 aes-192 aes-256 blowfish camellia-128 camellia-192 camellia-256
DH Group: modp768 modp1024 ec2n155 ec2n185 modp1536 modp2048 modp3072 modp4096 modp6144 modp8192 ecp256 ecp384 ecp521
OK
Cancel
Apply
Disable
Comment
Copy
Remove
enabled
responder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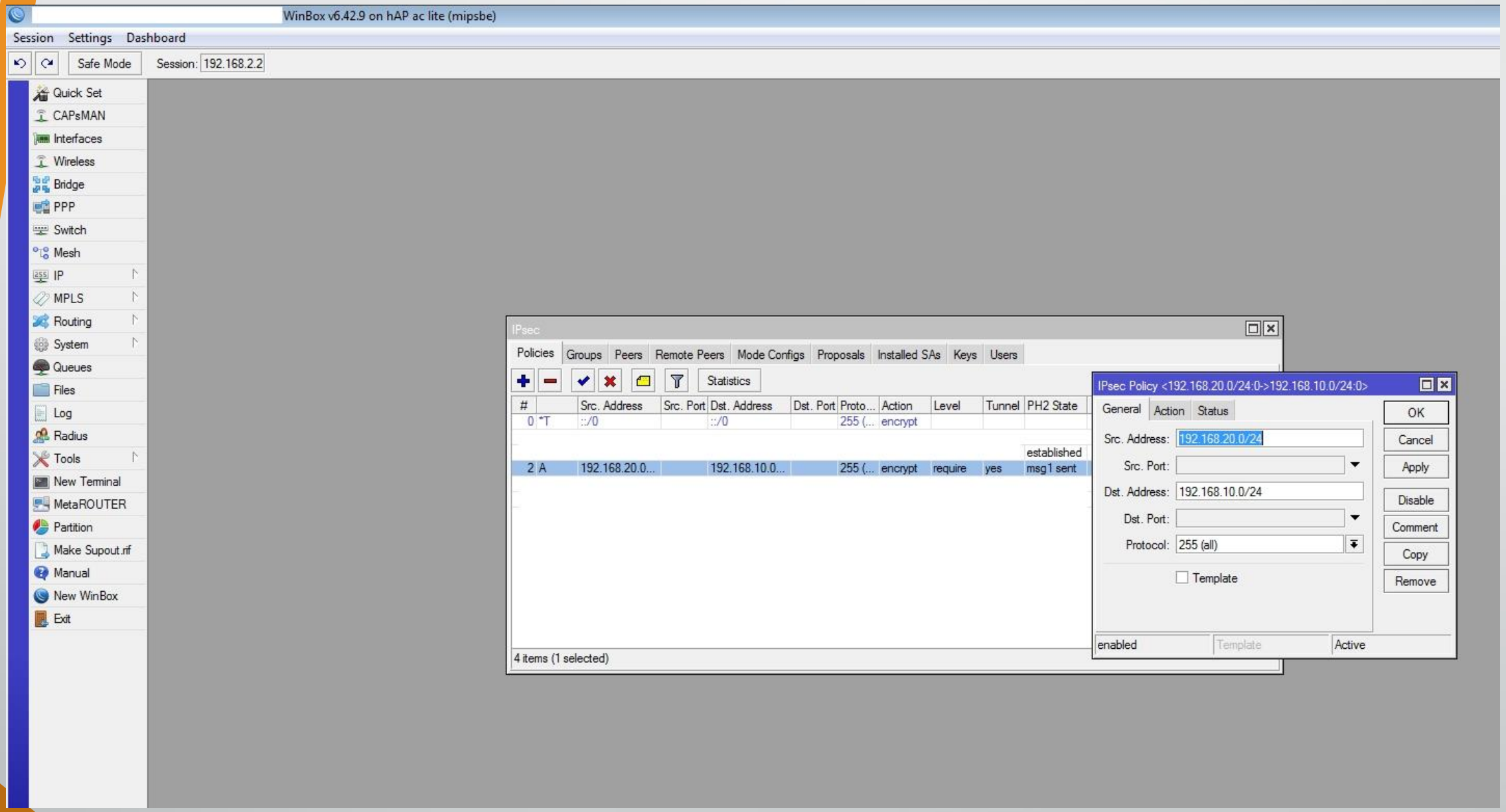
Exit
IPsec
Policies Groups Peers Remote Peers Mode Configs Proposals Installed SAs Keys Users
Find
Name Auth. Algorithms Encr. Algorithms Lifetime PFS Group
toni1 sha1 3des 00:30:00 none
4 items (1 selected)
IPsec Proposal <toni1>
Name: toni1
Auth. Algorithms: md5 sha1 null sha256 sha512
Encr. Algorithms: null des 3des aes-128 cbc aes-192 cbc aes-256 cbc blowfish twofish camellia-128 camellia-192 camellia-256 aes-128 ctr aes-192 ctr aes-256 ctr aes-128 gcm aes-192 gcm aes-256 gcm
Lifetime: 00:30:00
PFS Group: none
OK
Cancel
Apply
Disable
Copy
Remove
enabled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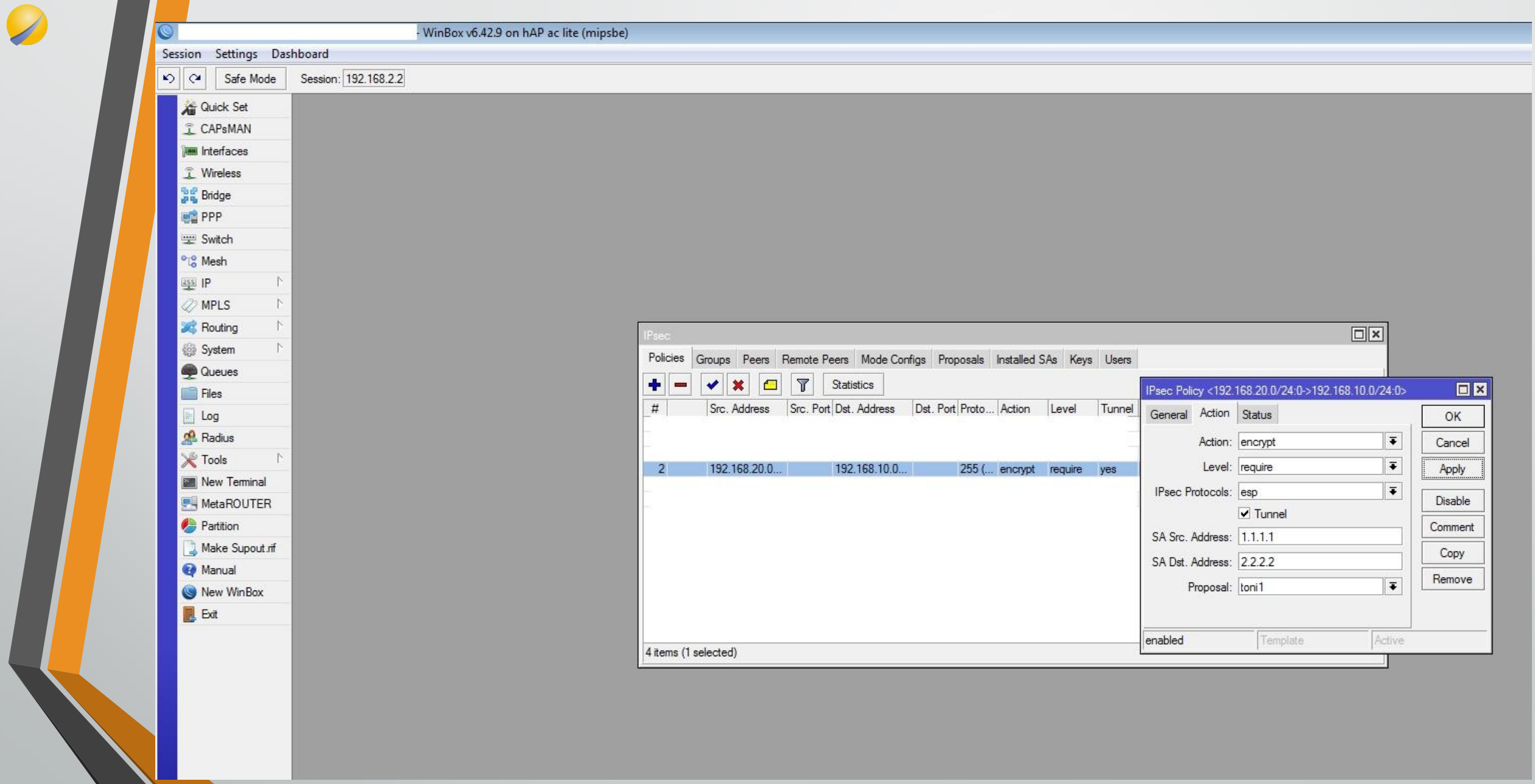
Exit
IPsec
Policies
Groups
Peers
Remote Peers
Mode Configs
Proposals
Installed SAs
Keys
Users
Statistics
Src. Address Src. Port Dst. Address Dst. Port Proto... Action Level Tunnel PH2 State
0 *T ::/0 ::/0 255 (... encrypt
established
2 A 192.168.20.0... 192.168.10.0... 255 (... encrypt require yes msg1 sent
4 items (1 selected)
IPsec Policy <192.168.20.0/24:0->192.168.10.0/24:0>
General Action Status
Src. Address: 192.168.20.0/24
Src. Port:
Dst. Address: 192.168.10.0/24
Dst. Port:
Protocol: 255 (all)
Template
OK
Cancel
Apply
Disable
Comment
Copy
Remove
enabled
Template
Active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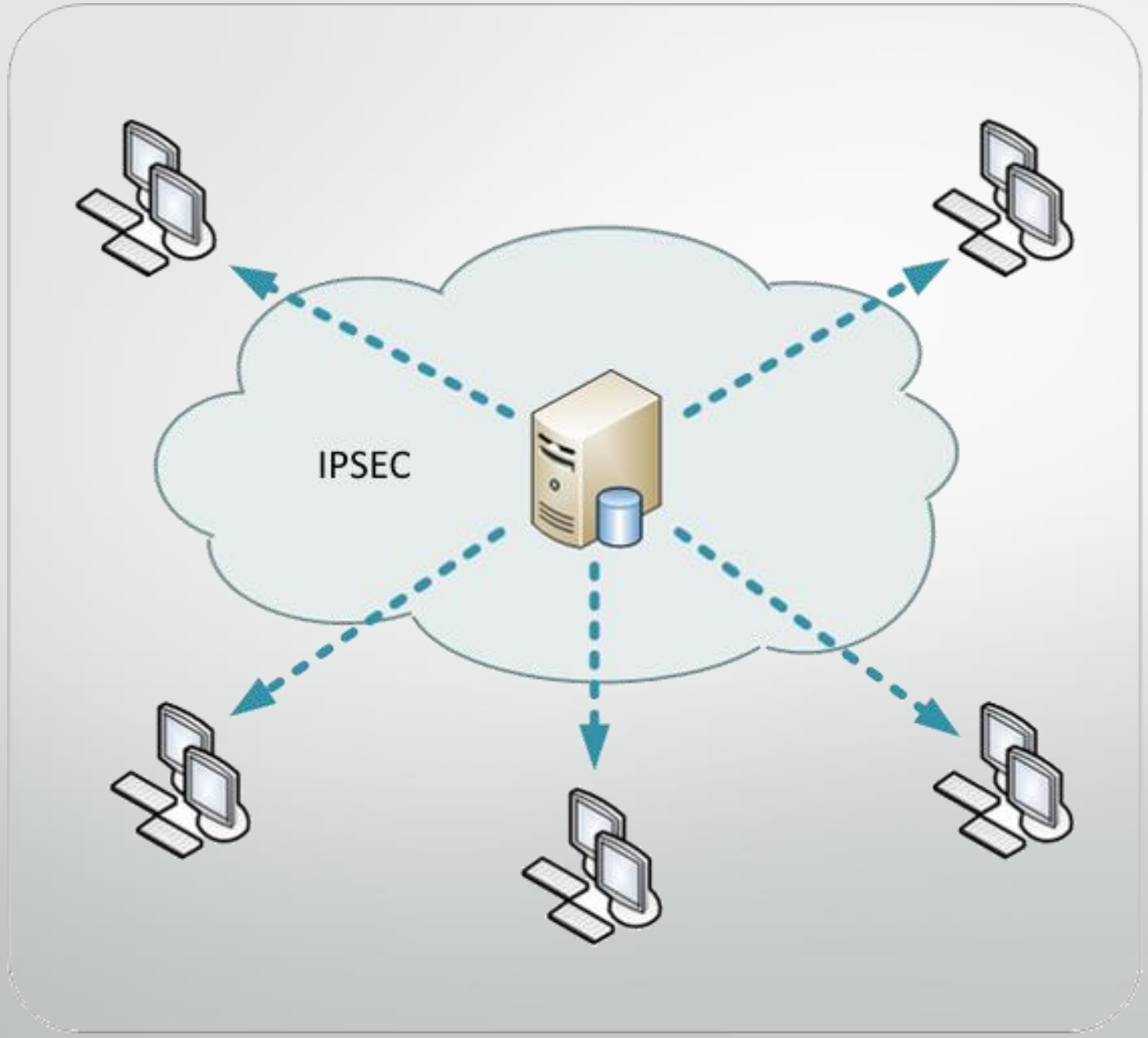
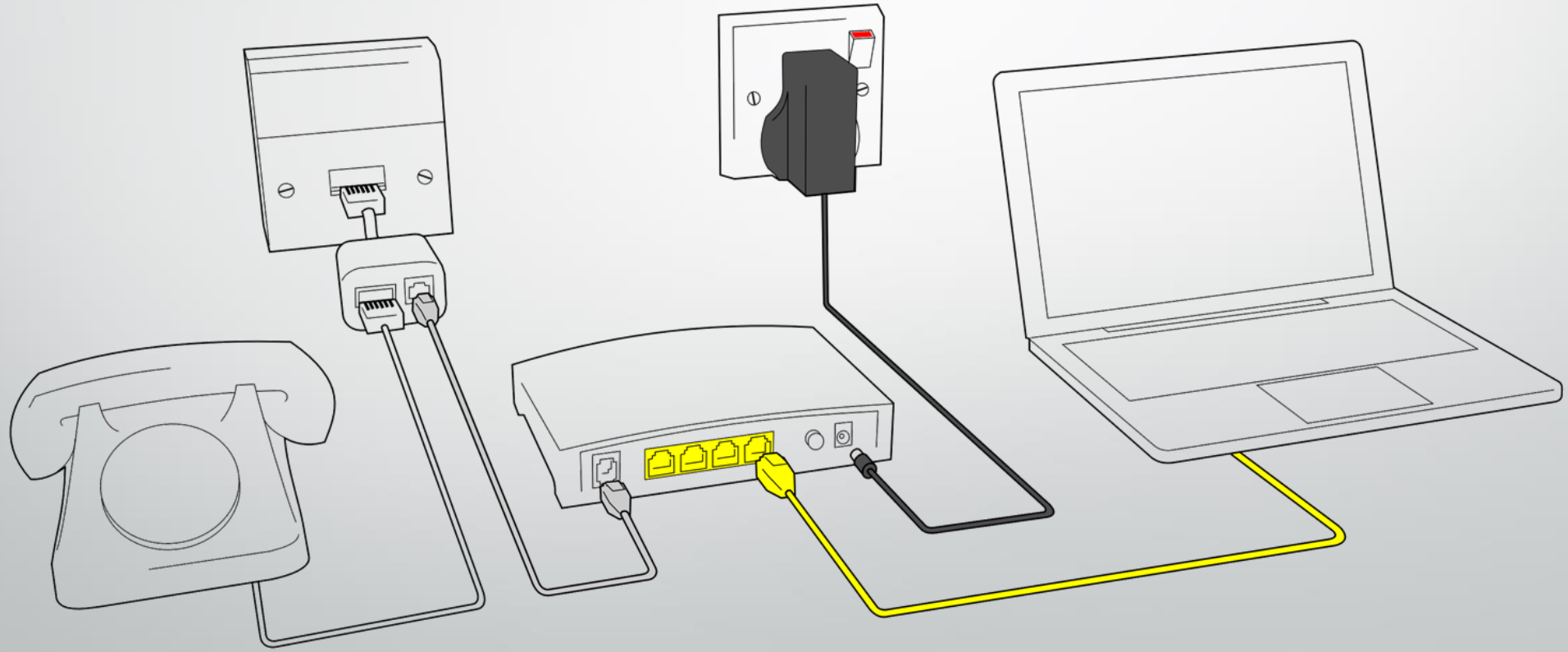
IPsec
Policies Groups Peers Remote Peers Mode Configs Proposals Installed SAs Keys Users
Statistics
Src. Address Src. Port Dst. Address Dst. Port Proto... Action Level Tunnel
2 192.168.20.0... 192.168.10.0... 255 (... encrypt require yes
4 items (1 selected)
IPsec Policy <192.168.20.0/24:0->192.168.10.0/24:0>
General Action Status
Action: encrypt
Level: require
IPsec Protocols: esp
Tunnel
SA Src. Address: 1.1.1.1
SA Dst. Address: 2.2.2.2
Proposal: toni1
OK
Cancel
Apply
Disable
Comment
Copy
Remove
enabled
Template
Active

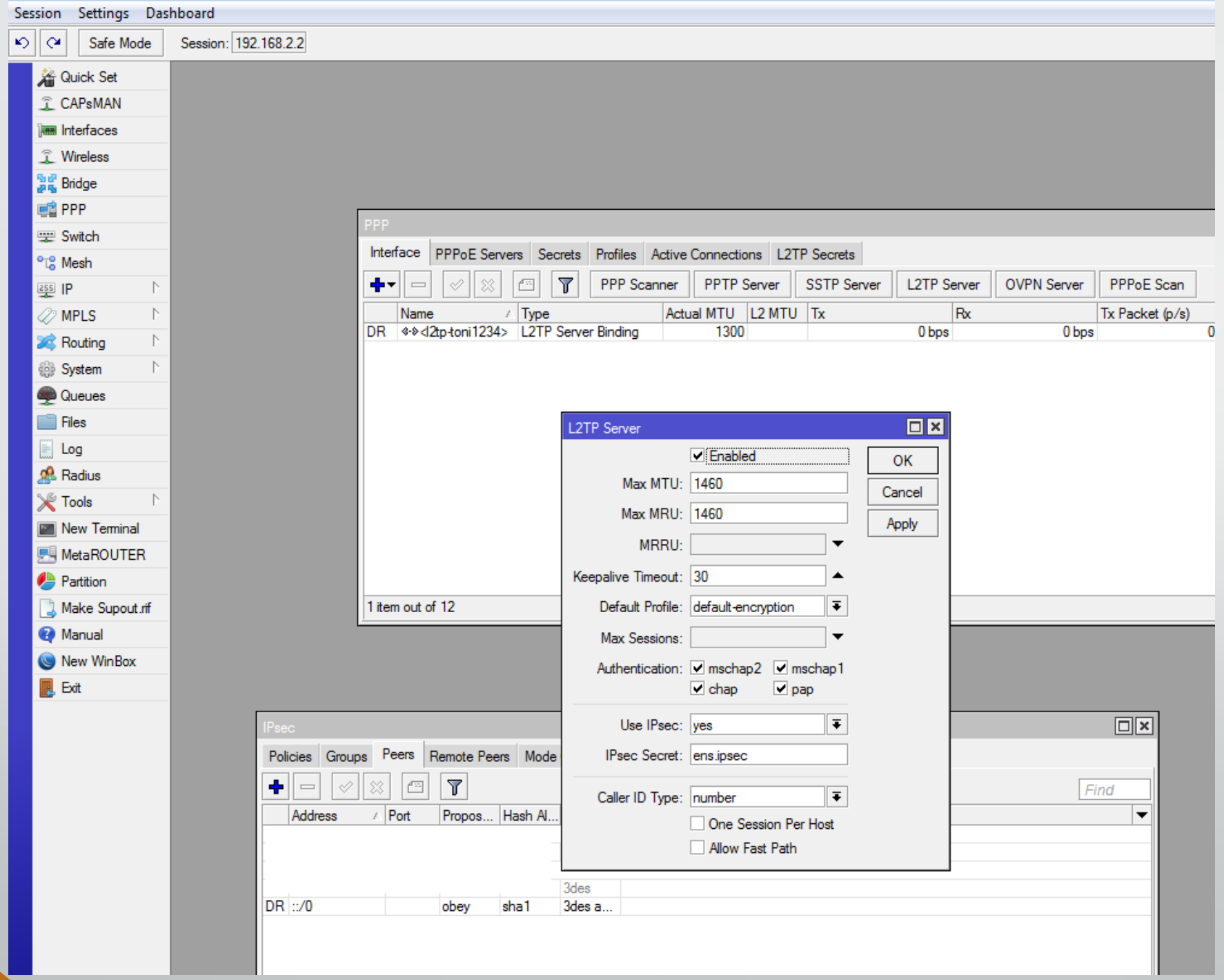

IPSEC

Njeriu në terren

- Është punonjës në lëvizje, si rrjedhim ka IP dinamike dhe shpesh herë pas një ruteri
- Për tu lidhur do përdorim L2TP me IPSEC

Konfigurimi në ruter

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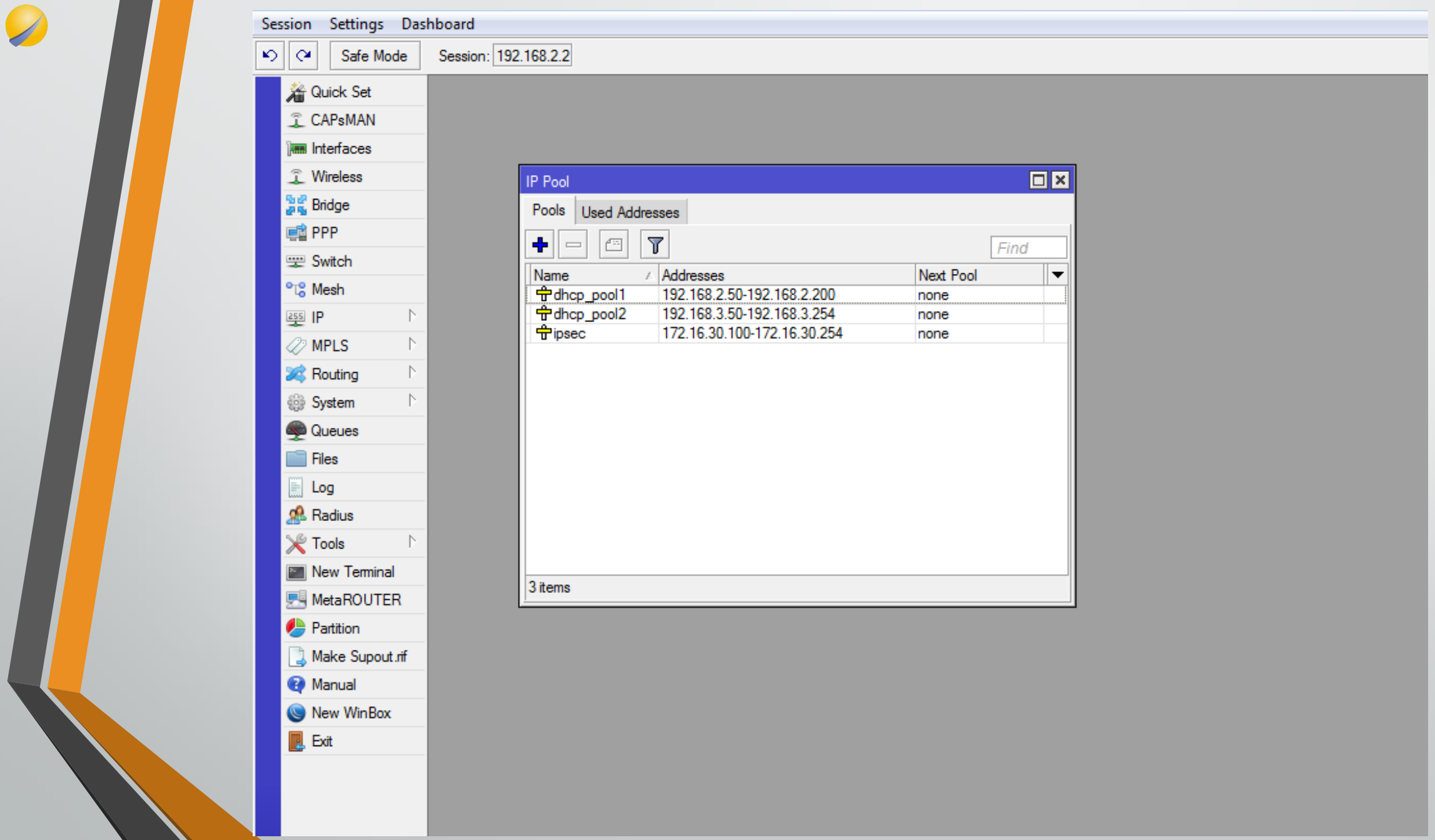
Manual
New WinBox
Exit
PPP
Interface
PPPoE Servers
Secrets
Profiles
Active Connections
L2TP Secrets
PPP Scanner
PPTP Server
SSTP Server
L2TP Server
OVPN Server
PPPoE Scan
Name
Type
Actual MTU
L2 MTU
Tx
Rx
Tx Packet (p/s)
DR
<l2tp-toni1234>
L2TP Server Binding
1300
0 bps
0 bps
0
1 item out of 12
L2TP Server
Enabled
Max MTU: 1460
Max MRU: 1460
MRRU:
Keepalive Timeout: 30
Default Profile: default-encryption
Max Sessions:
Authentication: mschap2 mschap1 chap pap
Use IPsec: yes
IPsec Secret: ens.ipsec
Caller ID Type: number
One Session Per Host
Allow Fast Path
OK
Cancel
Apply
IPsec
Policies
Groups
Peers
Remote Peers
Mode
Address
Port
Propos...
Hash Al...
Find
3des
DR ::/0
obey
sha1
3des a...


Session
Settings
Dashboard
Safe Mode
Session: 192.168.2.2
Quick Set
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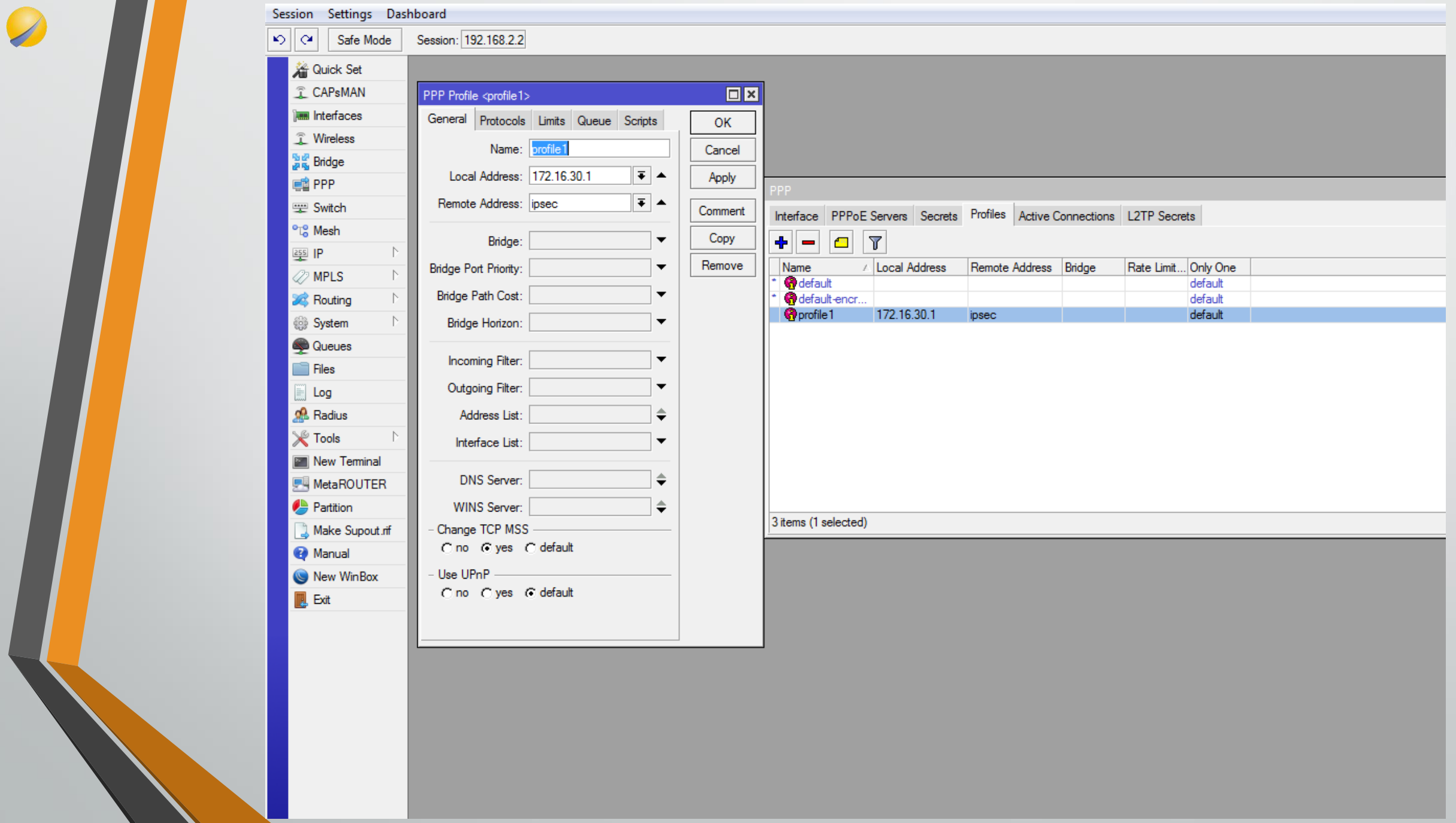
Make Supout.rif
Manual
New WinBox
Exit
IP Pool
Pools
Used Addresses
Find
Name
Addresses
Next Pool
dhcp_pool1
192.168.2.50-192.168.2.200
none
dhcp_pool2
192.168.3.50-192.168.3.254
none
ipsec
172.16.30.100-172.16.30.254
none
3 items


Session Settings Dashboard
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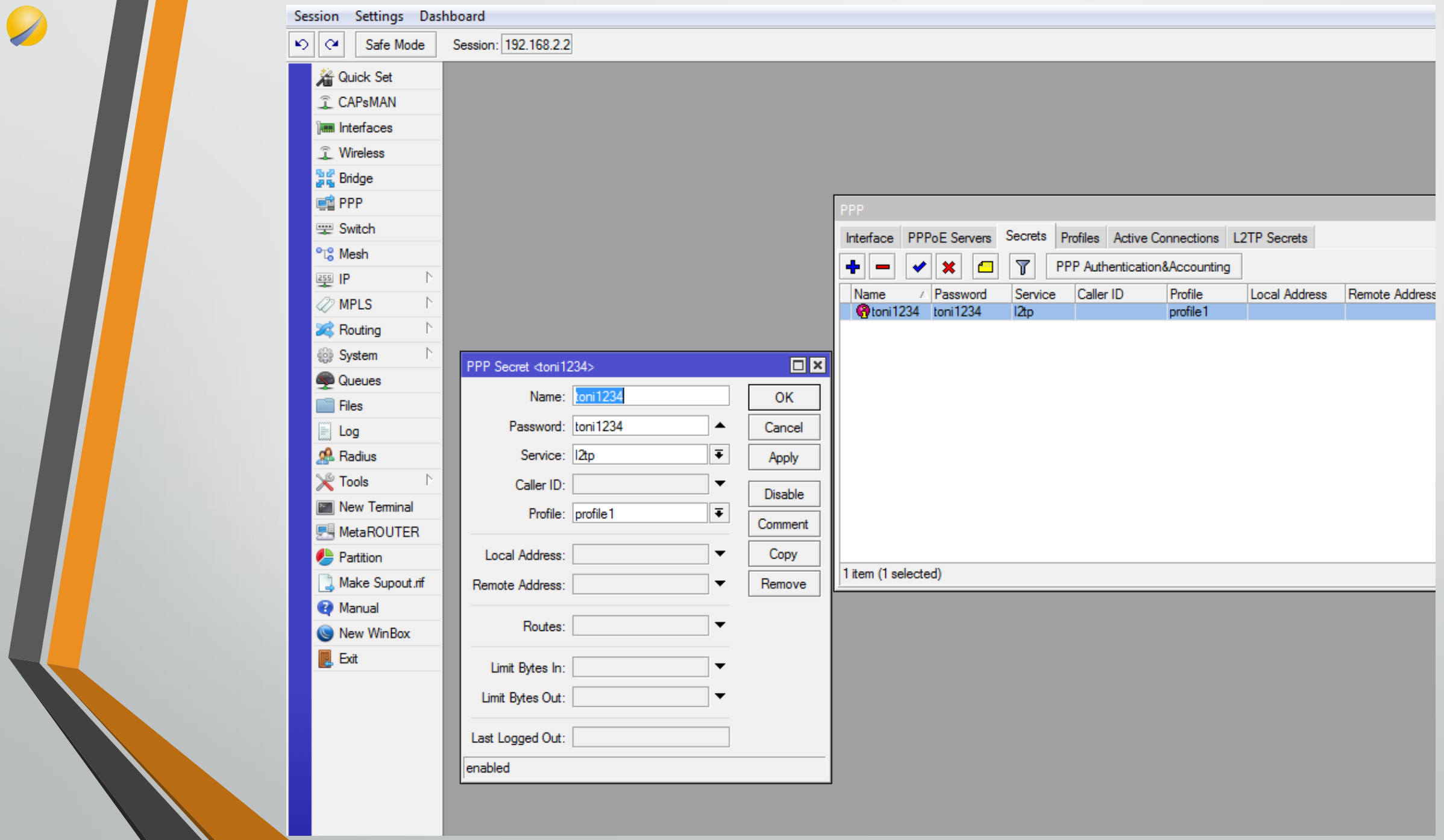
IP
MPLS
Routing
System
Queues
Files
Log
Radius
Tools
New Terminal
MetaROUTER
Partition
Make Supout.rif
Manual
New WinBox
Exit
PPP Profile <profile1>
General
Protocols
Limits
Queue
Scripts
OK
Cancel
Apply
Comment
Copy
Remove
Name: profile1
Local Address: 172.16.30.1
Remote Address: ipsec
Bridge:
Bridge Port Priority:
Bridge Path Cost:
Bridge Horizon:
Incoming Filter:
Outgoing Filter:
Address List:
Interface List:
DNS Server:
WINS Server:
Change TCP MSS
no yes default
Use UPnP
no yes default
PPP
Interface
PPPoE Servers
Secrets
Profiles
Active Connections
L2TP Secrets
Name
Local Address
Remote Address
Bridge
Rate Limit...
Only One
default
default
default-encr...
default
profile1
172.16.30.1
ipsec
default
3 items (1 selected)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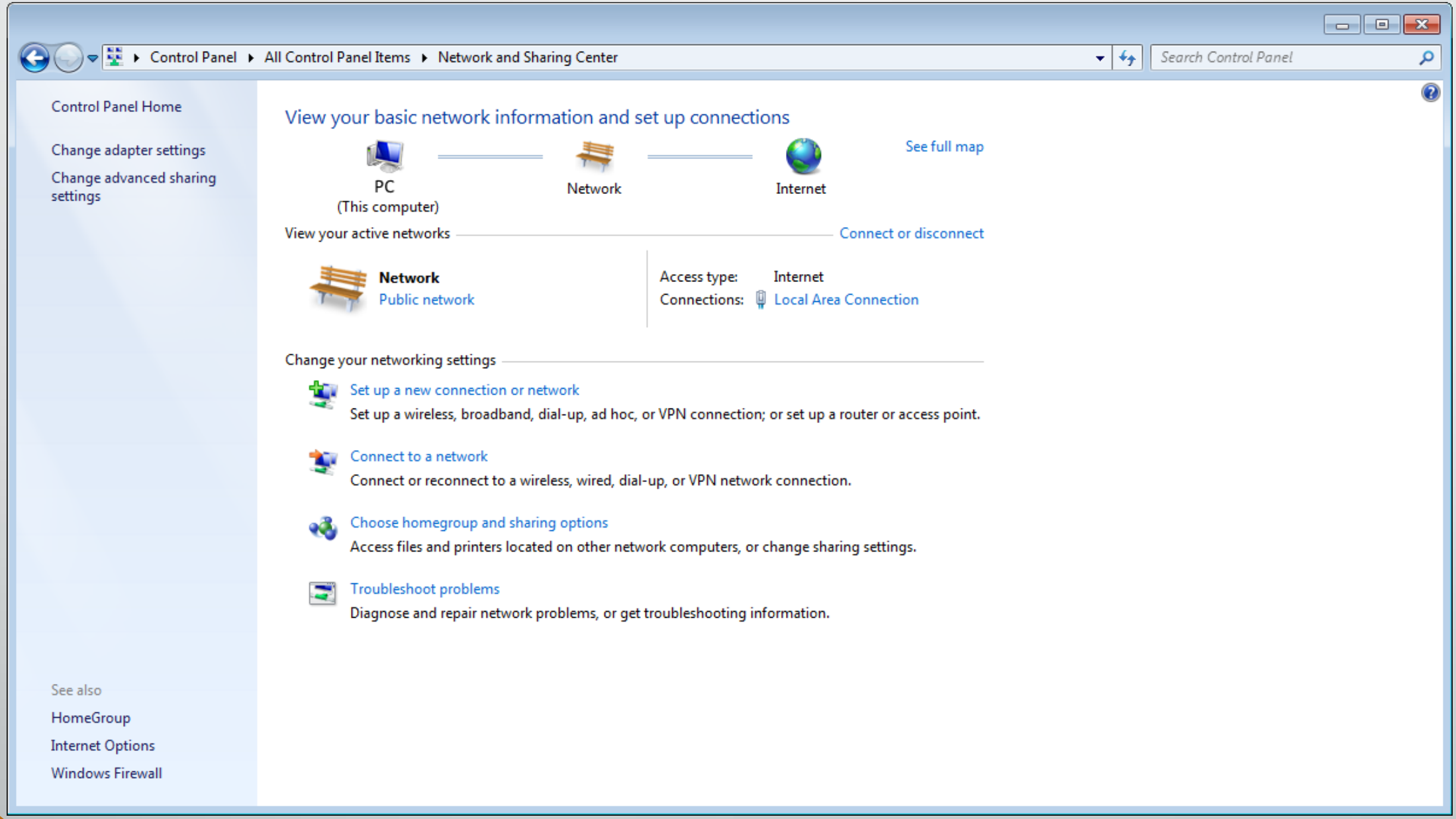
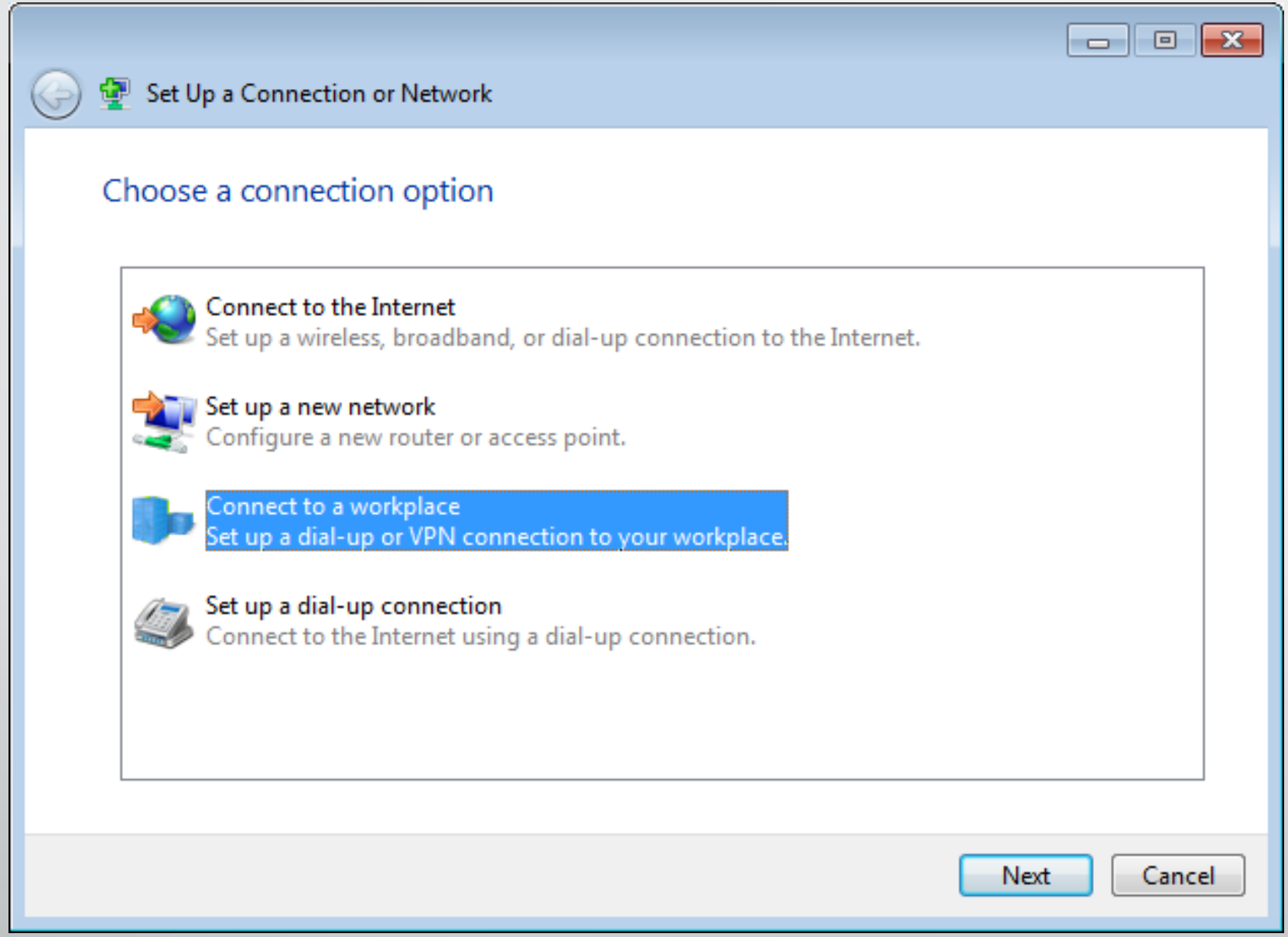
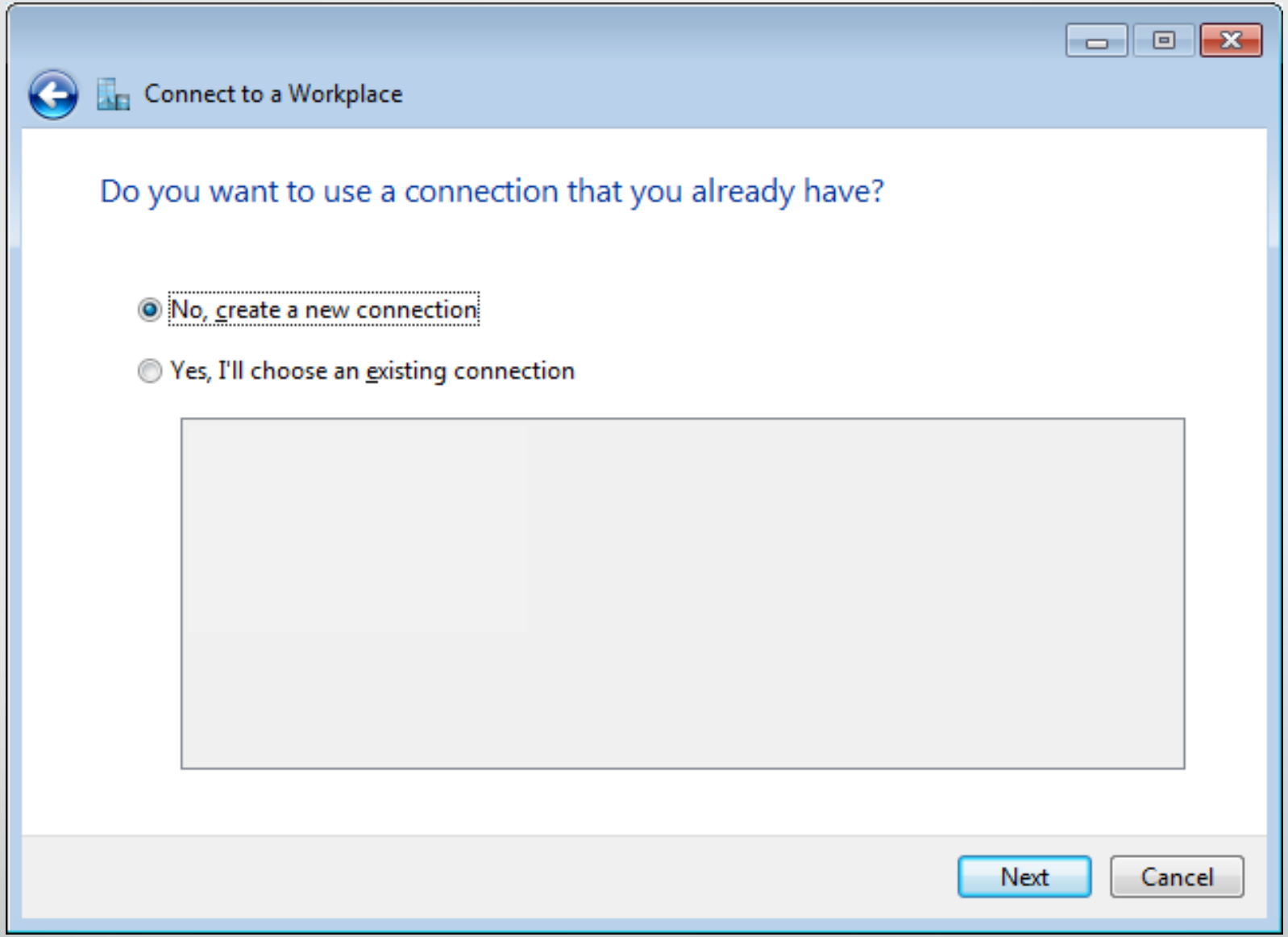
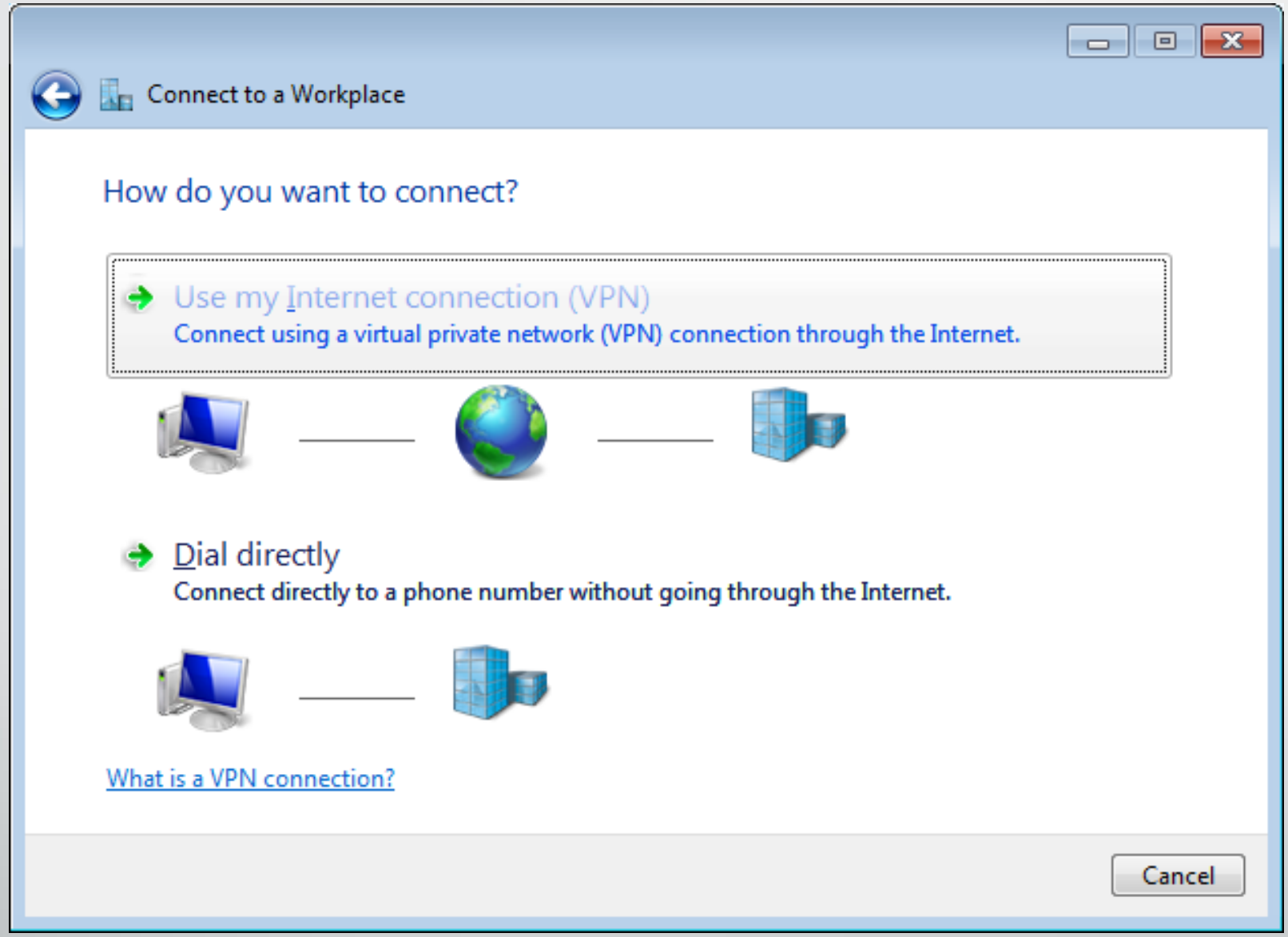
Manual
New WinBox
Exit
PPP
Interface
PPPoE Servers
Secrets
Profiles
Active Connections
L2TP Secrets
PPP Authentication&Accounting
Name
Password
Service
Caller ID
Profile
Local Address
Remote Address
toni1234
toni1234
l2tp
profile1
1 item (1 selected)
PPP Secret <toni1234>
Name: toni1234
Password: toni1234
Service: l2tp
Caller ID:
Profile: profile1
Local Address:
Remote Address:
Routes:
Limit Bytes In:
Limit Bytes Out:
Last Logged Out:
OK
Cancel
Apply
Disable
Comment
Copy
Remove
enabled

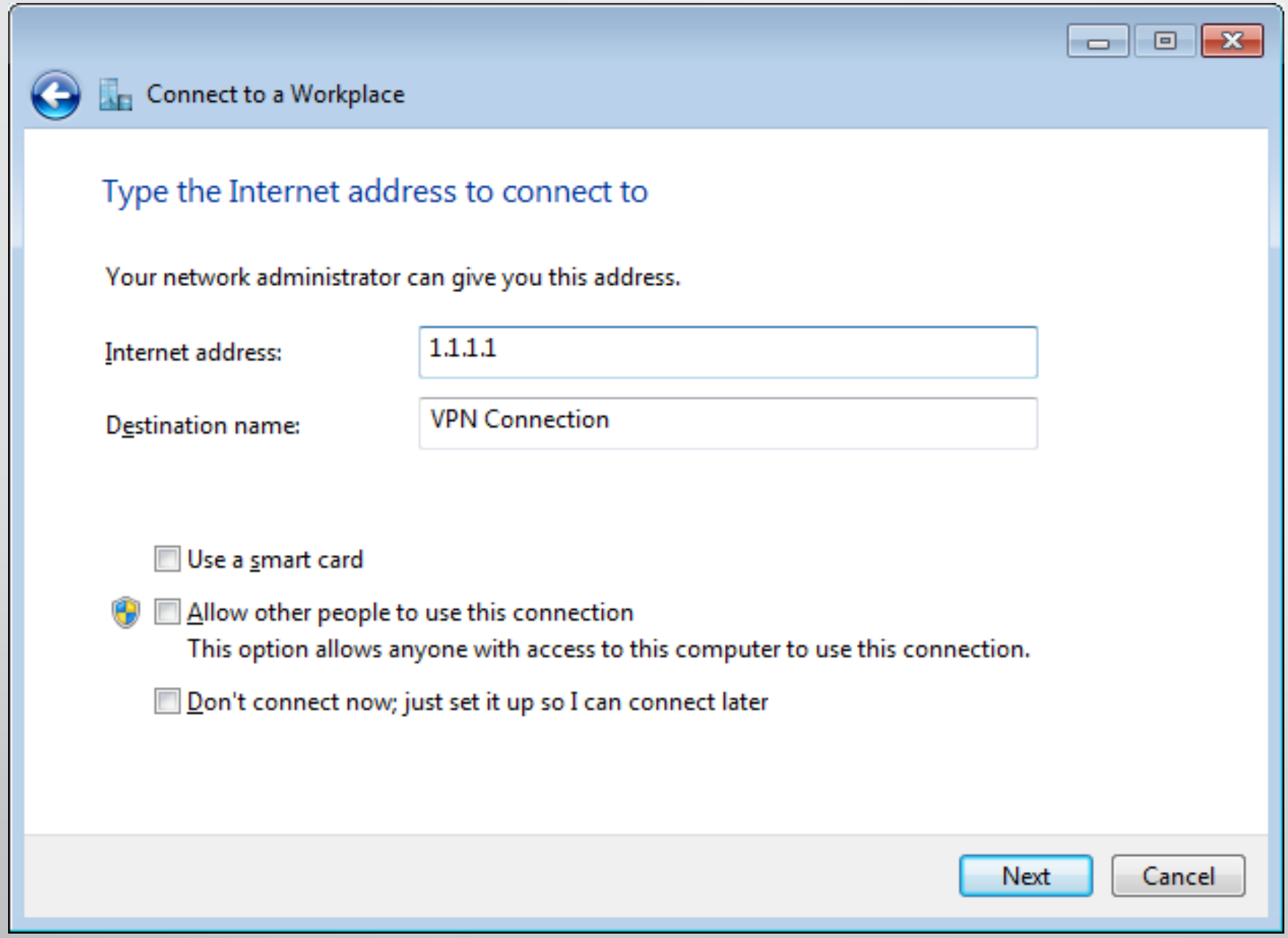
Konfigurimi në…

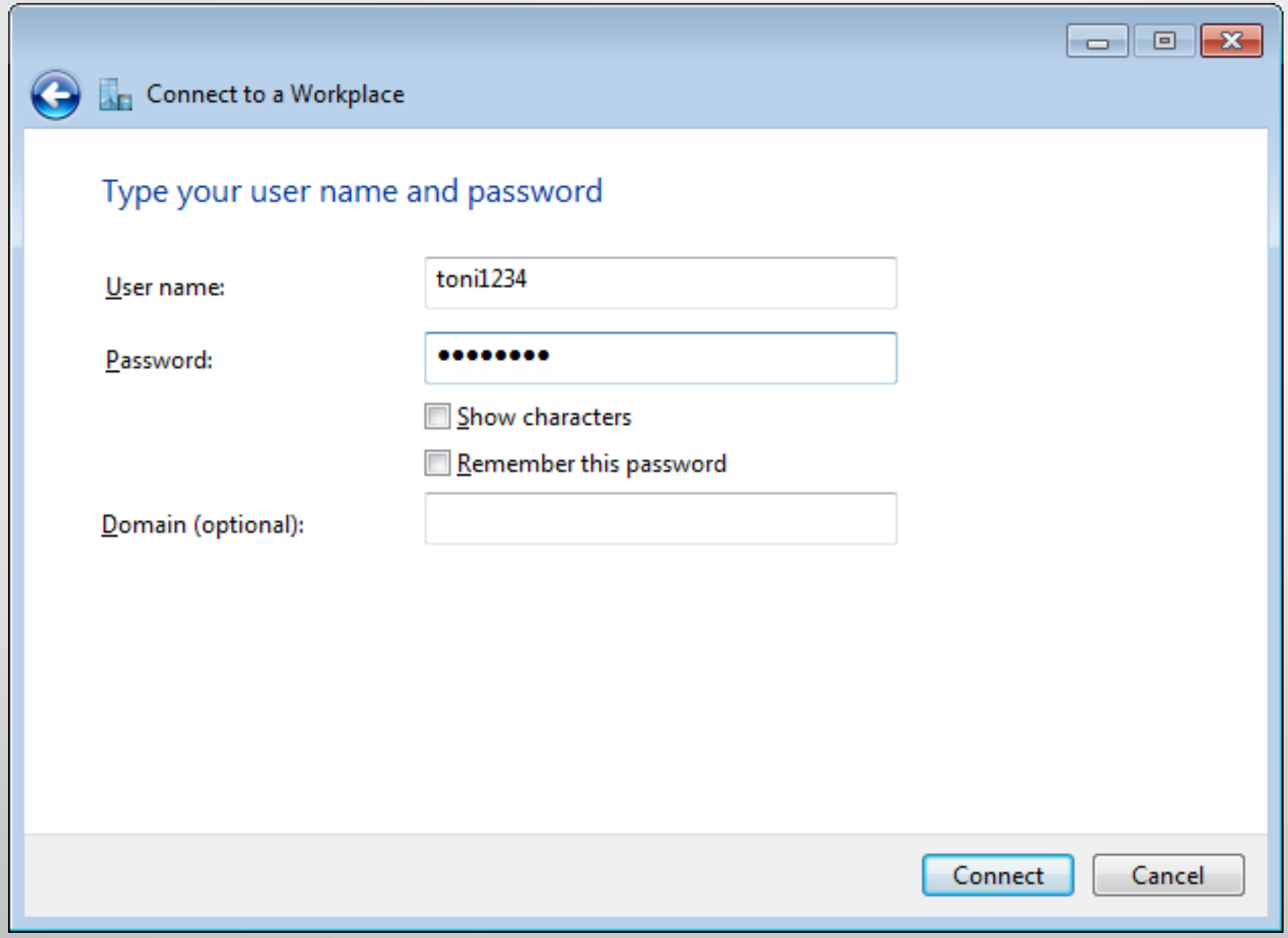

Control Panel ▸ All Control Panel Items ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
PC
(This computer)
Network
Internet
View your active networks
Connect or disconnect
Network
Public network
Access type: Internet
Connections: Local Area Connection
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall

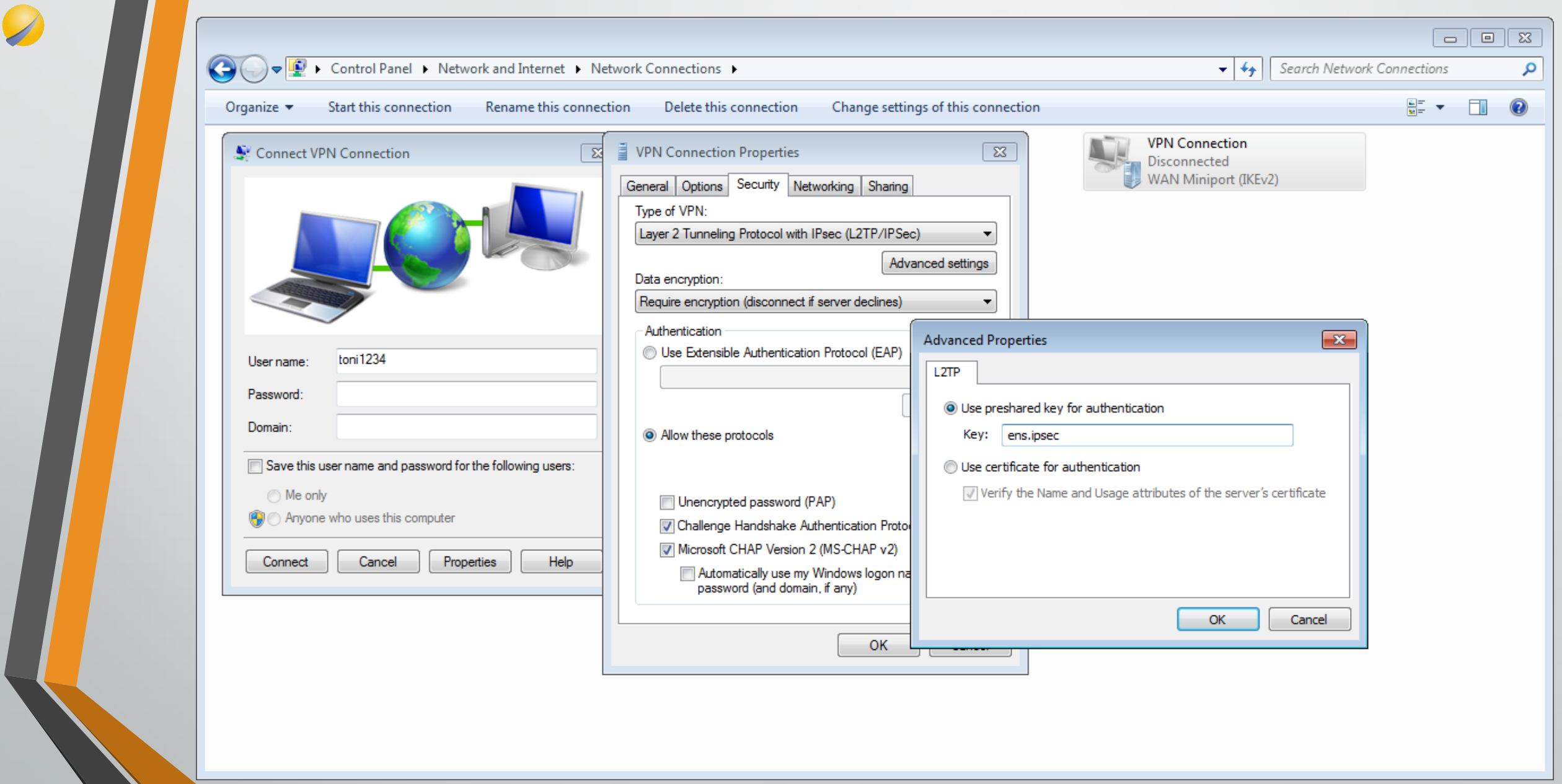

Set Up a Connection or Network
Choose a connection option
Connect to the Internet
Set up a wireless, broadband, or dial-up connection to the Internet.
Set up a new network
Configure a new router or access point.
Connect to a workplace
Set up a dial-up or VPN connection to your workplace.
Set up a dial-up connection
Connect to the Internet using a dial-up connection.
Next
Cancel


Connect to a Workplace
Do you want to use a connection that you already have?
No, create a new connection
Yes, I'll choose an existing connection
Next
Cancel

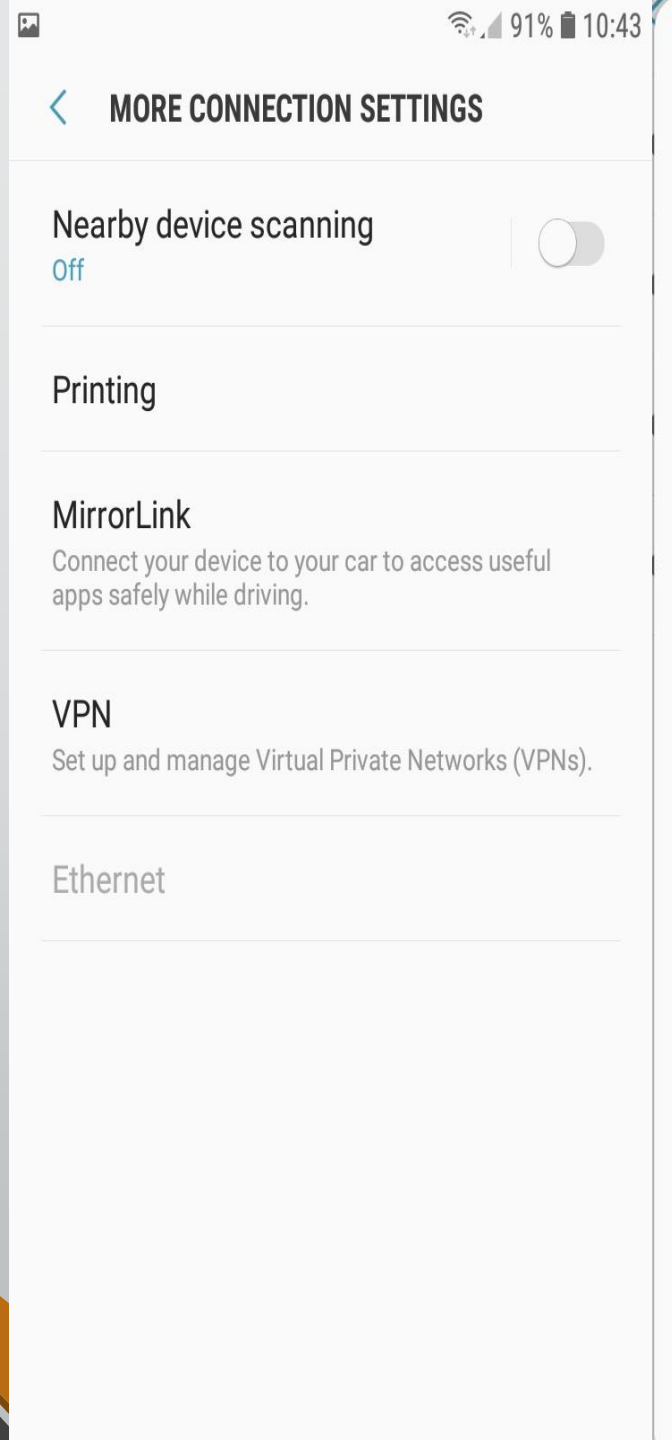

Connect to a Workplace
How do you want to connect?
Use my Internet connection (VPN)
Connect using a virtual private network (VPN) connection through the Internet.
Dial directly
Connect directly to a phone number without going through the Internet.
What is a VPN connection?
Cancel

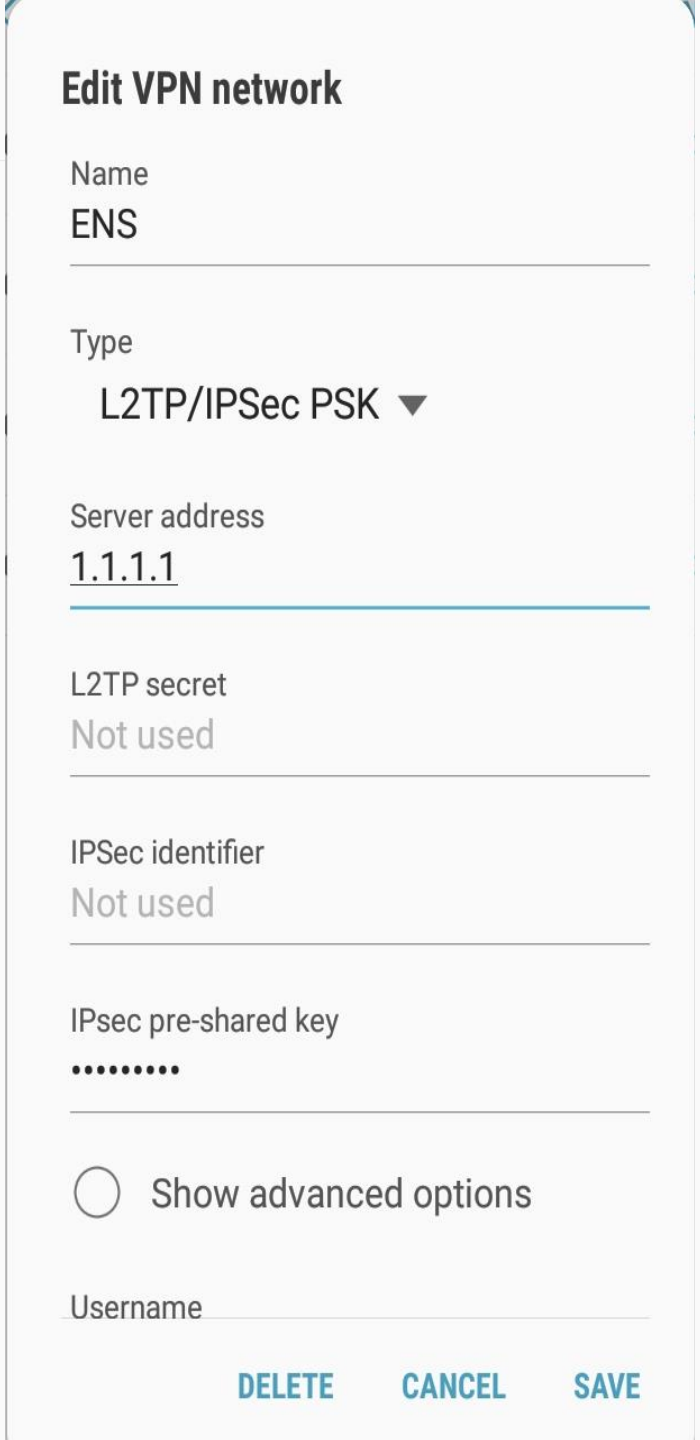

Connect to a Workplace
Type the Internet address to connect to
Your network administrator can give you this address.
Internet address:
1.1.1.1
Destination name:
VPN Connection
Use a smart card
Allow other people to use this connection
This option allows anyone with access to this computer to use this connection.
Don't connect now; just set it up so I can connect later
Next
Cancel

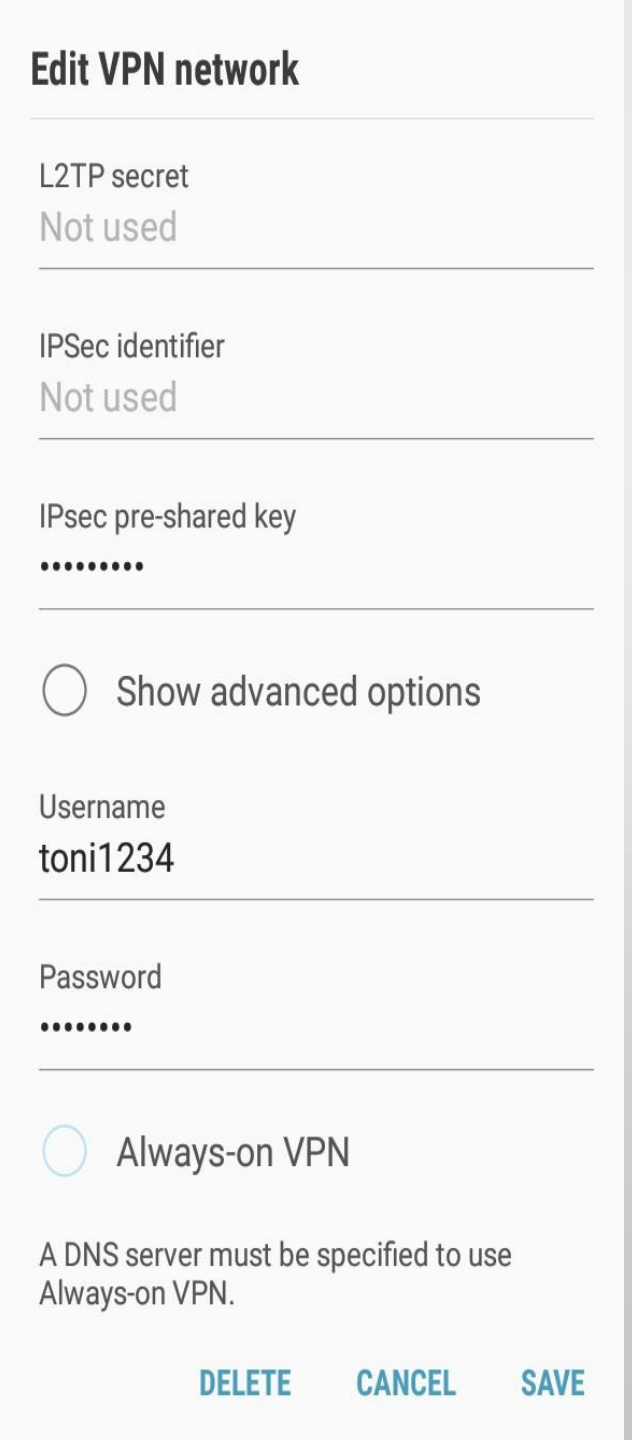

Connect to a Workplace
Type your user name and password
User name:
toni1234
Password:
Show characters
Remember this password
Domain (optional):
Connect
Cancel

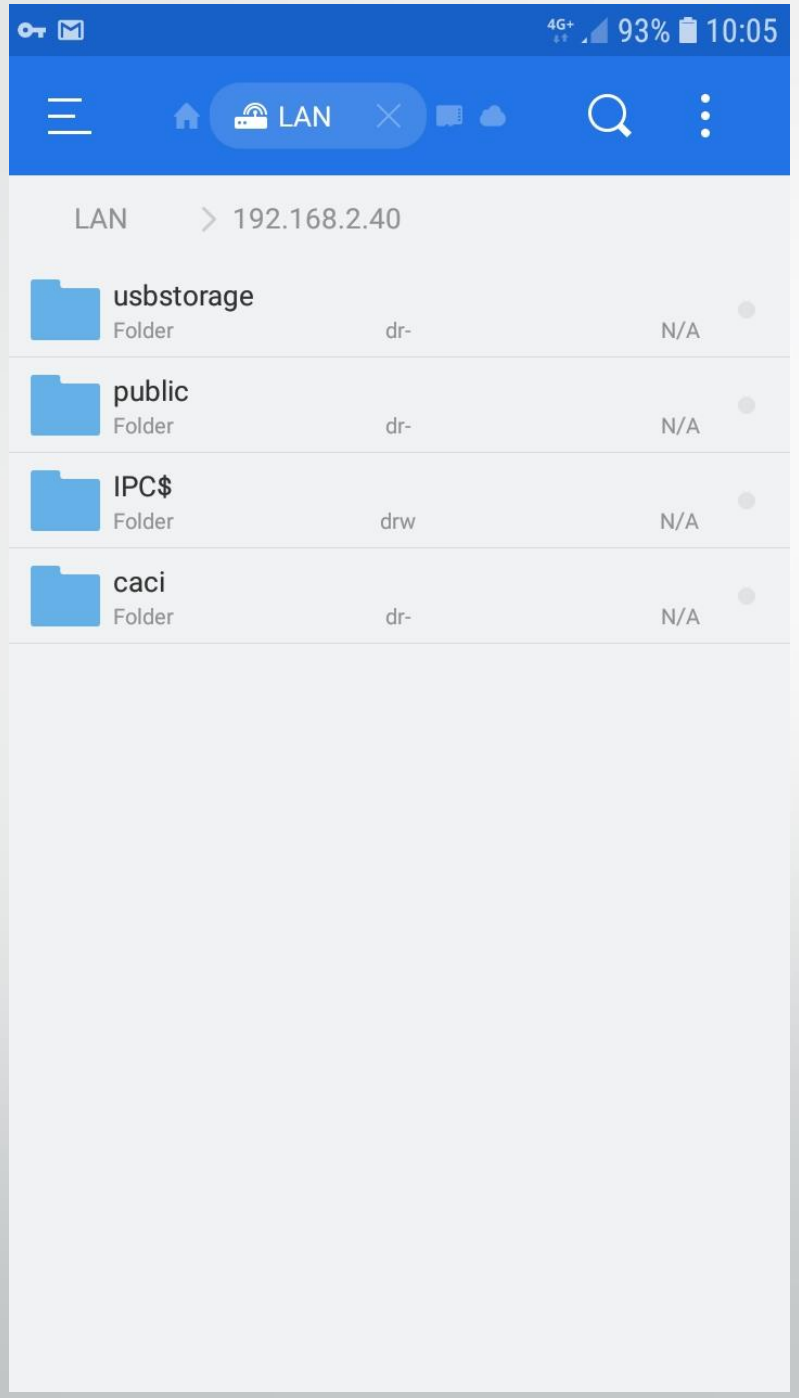

Control Panel ▸ Network and Internet ▸ Network Connections ▸
Search Network Connections
Organize
Start this connection
Rename this connection
Delete this connection
Change settings of this connection
VPN Connection
Disconnected
WAN Miniport (IKEv2)
Connect VPN Connection
User name:
toni1234
Password:
Domain:
Save this user name and password for the following users:
Me only
Anyone who uses this computer
Connect
Cancel
Properties
Help
VPN Connection Properties
General
Options
Security
Networking
Sharing
Type of VPN:
Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)
Advanced settings
Data encryption:
Require encryption (disconnect if server declines)
Authentication
Use Extensible Authentication Protocol (EAP)
Allow these protocols
Unencrypted password (PAP)
Challenge Handshake Authentication Proto
Microsoft CHAP Version 2 (MS-CHAP v2)
Automatically use my Windows logon na
password (and domain, if any)
OK
Advanced Properties
L2TP
Use preshared key for authentication
Key:
ens.ipsec
Use certificate for authentication
Verify the Name and Usage attributes of the server's certificate
OK
Cancel

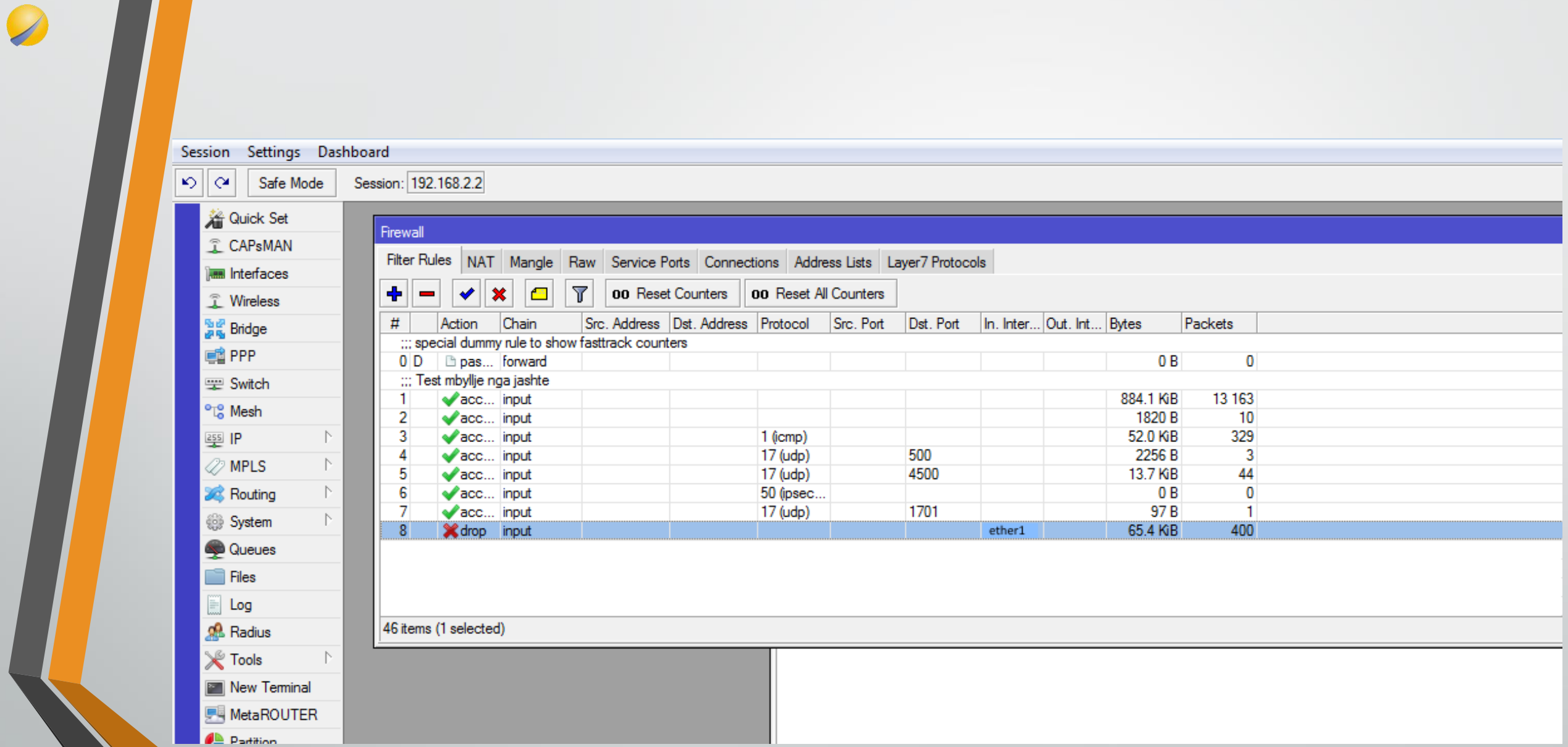
Konfigurimi ne Android Samsung SM-A320FL


91% 10:43
MORE CONNECTION SETTINGS
Nearby device scanning
Off
Printing
MirrorLink
Connect your device to your car to access useful apps safely while driving.
VPN
Set up and manage Virtual Private Networks (VPNs).
Ethernet


Edit VPN network
Name
ENS
Type
L2TP/IPSec PSK
Server address
1.1.1.1
L2TP secret
Not used
IPSec identifier
Not used
IPsec pre-shared key
••••••••
Show advanced options
Username
DELETE
CANCEL
SAVE


Edit VPN network
L2TP secret
Not used
IPSec identifier
Not used
IPsec pre-shared key
••••••••
Show advanced options
Username
toni1234
Password
••••••••
Always-on VPN
A DNS server must be specified to use Always-on VPN.
DELETE
CANCEL
SAVE


93% 10:05
LAN
LAN
192.168.2.40
usbstorage
Folder
dr-
N/A
public
Folder
dr-
N/A
IPC$
Folder
drw
N/A
caci
Folder
dr-
N/A


Session Settings Dashboard
Safe Mode
Session: 192.168.2.2
Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
MPLS
Routing
System
Queues
Files
Log
Radius
Tools
New Terminal
MetaROUTER
Partition
Firewall
Filter Rules
NAT
Mangle
Raw
Service Ports
Connections
Address Lists
Layer7 Protocols
Reset Counters
Reset All Counters
Action Chain Src. Address Dst. Address Protocol Src. Port Dst. Port In. Inter... Out. Int... Bytes Packets
;;; special dummy rule to show fasttrack counters
0 D pas... forward 0 B 0
;;; Test mbyllje nga jashte
1 acc... input 884.1 KiB 13 163
2 acc... input 1820 B 10
3 acc... input 1 (icmp) 52.0 KiB 329
4 acc... input 17 (udp) 500 2256 B 3
5 acc... input 17 (udp) 4500 13.7 KiB 44
6 acc... input 50 (ipsec... 0 B 0
7 acc... input 17 (udp) 1701 97 B 1
8 drop input ether1 65.4 KiB 400
46 items (1 selected)

Faleminderit