



# *Connecting homes with VPN*

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# *What is VPN?*

- Virtual Private Network's definition:
- [http://en.wikipedia.org/wiki/Virtual\\_private\\_network](http://en.wikipedia.org/wiki/Virtual_private_network)
- Mikrotik wiki-pages:
  - <http://wiki.mikrotik.com/wiki/Category:VPN>
- specifically for IPsec (my fave :-) )
  - <http://wiki.mikrotik.com/wiki/Manual:IP/IPsec>

# *What can we, home users do with it?*

- Connecting networks together is a great possibility, if we have several places to administer.
- We can have a server „hosted” at a friend.
- We can have secure links over insecure channels (like open wifi... :-) )

## • *„Road Warriors” can use PPTP...*

- Point-to-Point Tunnelling Protocol can only be „relatively” secure, when only mschap2 is allowed.
- Head to Mikrotik wiki AND to gregsowell.com:
  - <http://wiki.mikrotik.com/wiki/Manual:Interface/PPTP>
  - <http://gregsowell.com/?p=1290>

# • *More stable users should use IPsec*

- IPsec is more robust and can be used even in NAT'ed networks, but more options mean more possible errors :-)
- 3 parts of the IPsec settings in ROS:
  - /ip ipsec peer
  - /ip ipsec protocol
  - /ip ipsec policy
- Then the „other” settings:
  - /ip firewall nat
  - /system logging add disabled=no topics=ipsec

# *IPsec demo #1*

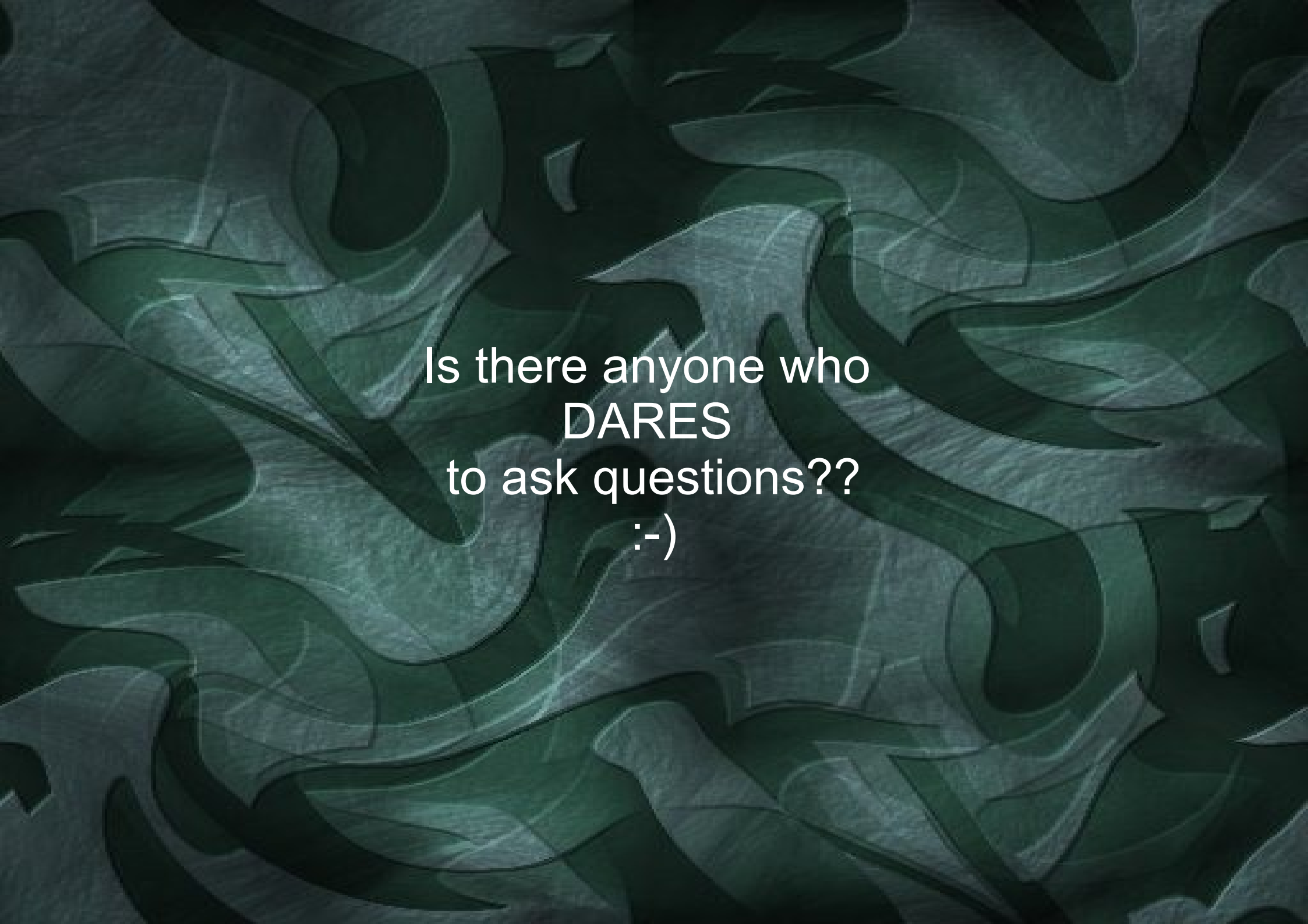


# *Dynamic IP and IPsec*

- It can be done, provided you have:
  - Access to a dynamic DNS provider
  - The correct (updater)scripts on ROS
  - The correct scheduler settings
- First, we have to update our (external) ip address to the DDNS server,  
(The script for dyndns.com can be found on the wiki)
- then we have to get the updated ip's for our system  
(This script is available from <http://gregsowell.com/?p=1523> )
- Then the ROS scheduler will take care of it...  
(note: forced updates should be done at max once daily!)

The background of the slide is a dark green, abstract camouflage pattern. It features irregular, wavy shapes and lines in various shades of green, from dark forest green to lighter, almost greyish-green, creating a complex, textured appearance typical of military camouflage.

## *IPsec demo #2*



Is there anyone who  
DARES  
to ask questions??  
:-)

The background is an abstract, layered composition of organic, leaf-like shapes in various shades of green and blue. The shapes overlap and curve, creating a sense of depth and movement. The colors range from dark, almost black, to light, airy blues and greens. The overall effect is a textured, almost painterly background.

THANK YOU!