

You need a VPN connection between a roadwarrior and a router. Behind the router there are resources (computers, printers, other servers) that you need access to. Also, there is a Active Directory Domain Controller and a RADIUS server.

Definitions: Router hostname: ap.camscape.ro <u>(replace with your given hostname)</u> Domain: CAMSCAPE <u>(replace with your given domain)</u>

#### 1. Add certificates

#### <u>1.1. Add CA</u>

Don't double click on the CA certificate, it will install it into User's store.

Run mmc (Microsoft Management Console) , go to File  $\rightarrow$  Add/Remove Snap-in . Choose Certificates and choose Computer Account:

Certificates snap-in	×
This snap-in will always manage certificates for: My user account Service account Computer account	
< <u>B</u> ack <u>N</u> ext > Cancel	

Go to Certificates → Trusted Root Certification Authorities → Certificates , right-click and choose Import.

Go and select the CA.der (or CA.cer, or whatever name) and install it.

Close console.



### 2. Create VPN:

Search for Dial-up and click on Set up a new connection

Settings		_	×
命 Home	Dial-up		
Find a setting	Dial-up		
Network & Internet	Set up a new connection		
🖨 Status	Related settings		
<i>(</i> Wi-Fi	Change adapter options		
<b></b> Ethernet	Network and Sharing Center		
음 Dial-up	Windows Firewall		
% VPN	Have a question?		
$r_{U}^{N}$ Airplane mode	Get help		
<sup>(ւր)</sup> Mobile hotspot	Make Windows better		
🕒 Data usage	Give us feedback		
Proxy			

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Choose Connect to a workplace

	_		×
🔶 🔮 Set Up a Connection or Network			
Choose a connection option			
Connect to the Internet Set up a broadband or dial-up connection to the Internet.			
Set up a new network			
Manually connect to a wireless network Connect to a hidden network or create a new wireless profile.			
Connect to a workplace Set up a dial-up or VPN connection to your workplace.			
L	<u>N</u> ext	Can	cel
	_		×
🗧 🜆 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 Inf	ernet.		
→ <u>D</u> ial directly Connect directly to a phone number without going through the Internet.			
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Enter connection parameters and check Allow other people to use this connection

			—		$\times$
÷	🔚 Connect to a Workplace				
	Type the Internet addr	ess to connect to			
	Your network administrator o	an give you this address.			
	Internet address:	ap.camscape.ro			
	Destination name:	CAMSCAPEVPN			
	Use a <u>s</u> mart card				
	Remember my crede	ntials			
	💡 🗹 <u>A</u> llow other people to	use this connection			
	This option allows an	yone with access to this computer to use this connect	ion.		
			reate	Can	cel

Go to Change Adapter options (Control Panel – Network connections) and click properties on the connection created. Setup as below in Security tab

CAMSCAPEV	PN Proper	ties		×
General Options	Security	Networking	Sharing	
Type of VPN:				
IKEv2				$\sim$
			Advan	ced settings
Data encryption:			/ avair	ccu <u>s</u> cungs
Require encrypt	ion (disconr	nect if server d	eclines)	$\sim$
Authoritoption				
	ble Authent	iantian Protoc		
Microsoft: 3	ecured pas	sword (EAP-N	ISCHAP VZ)	(encry) ~
			P	roperties
O Use machin	e certificate	s		
			OK	Cancel

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Go to Networking tab and setup (uncheck IPv6):

CAMSCAPEVPN Properties	$\times$
General Options Security Networking Sharing	
This connection uses the following items:	_
<ul> <li>□, r., Internet Protocol Version 6 (TCP/IPv6)</li> <li>✓ Internet Protocol Version 4 (TCP/IPv4)</li> <li>✓ File and Printer Sharing for Microsoft Networks</li> <li>✓ Elient for Microsoft Networks</li> </ul>	
Install         Uninstall         Properties           Description         TCP/IP version 6. The latest version of the internet protocol that provides communication across diverse interconnected networks.	
OK Canc	el

Click on Ipv4 and access Properties. Then click Advanced. Uncheck Use default gateway on remote network:

Advanced TCP/IP Settings	Х
IP Settings DNS WINS	
This checkbox only applies when you are connected to a local network and a dial-up network simultaneously. When checked, data that cannot be sent on the local network is forwarded to the dial-up network.	
Use default gateway on remote network Disable class based route addition	
Automatic metric	
OK Cance	el .



## Now, start the connection:

		యా	CAMSCAPEVPN	
			Connecting to CA	AMSCAPEVPN
				Cancel
Windows Security Sign in	>	×	ROBUHPHN008 Connected, secured	
CAMSCAPE\Administrator			<u>Properties</u>	
•••••	<u>_</u>			Disconnect
ОК	Cancel	ſ.	CAMSCAPEENT Secured	
		(h.	Dirt-Dog Secured	
		<u>Net</u> Char	work & Internet settings ige settings, such as making a	connection metered.
		ROBL 8	HPHN00 r <sup>1</sup> / <sub>2</sub> (4) Airplane mode ho	)) lobile ptspot
			^	(信 句)) 3:09 AM 6/12/2018 日

Login as Administrator.

You can now join the computer to the DC, change computer name, add user as usual.



### 3. Normal usage

On login screen (after restart) click on lower right the VPN connection after connected to a network (WiFi, Cable, 3G, a.s.o.):



Enter your user and password as defined in AD DC:

