Yes, this scenario is possible. At least one (1) of the routers of the tunnel must have a connection where a static IP address is used. Also, make sure that the router that has been assigned a dynamic IP address also has an account and a registered domain name with a dynamic DNS (DDNS) service with a provider like <u>www.dyndns.org</u> or <u>www.tzo.com</u>.

NOTE: These settings have been tested using RV0xx firmware versions 1.2.3 and above.

Router A: Using a dynamic IP address Internet connection with an active DDNS domain name.

Router B: Using a static IP address Internet connection.

Router A Configuration (Dynamic IP Address using a Dynamic DNS Service):

—		
Local Group Setup	Local Security Gateway Type	Dynamic IP + Domain Name(FQDN) Authentication
	Domain Name	linksys.dyndns.org
	Local Security Group Type	Subnet 💌
	IP address	192 . 168 . 2 . 0
	Subnet Mask	255 . 255 . 255 . 0
Remote Group Setup	Remote Security Gateway Type	IP Only 😪
	IP address 💌	68 . 5 . X . X
	Remote Security Group Type	Subnet 💌
	IP address	192 . 168 . 1 . 0
	Subnet Mask	255 . 255 . 255 . 0

- The default setting for Local Security Gateway Type is "IP Only". Change it to the "Dynamic IP + Domain Name(FQDN) Authentication" option as shown in the example above.
- Local Group Setup settings: Enter the full domain name address as registered with your DDNS service provider in the Domain Name field. The Local Security Group Type is configured to "Subnet" in the example above, but it can be adjusted to suit your preferences.
- 3. <u>Remote Group Setup</u> settings: The Remote Security Gateway Type and Remote Security Group Type options are set to the typical settings. Enter the static IP address of the Remote Gateway (i.e., Router B's assigned static Internet IP address) in the IP Address section. For the Remote Security Group, you can enter the IP address of a single computer, an entire subnet, or an IP range of computers on the remote end of the tunnel that will be participating in the VPN tunnel. Use the settings above as a reference. In the example, Subnet is used as the Remote Security Group Type.

	Advanced -	
Advanced		Aggressive Mode
		Compress (Support IP Payload Compression Protocol(IPComp))
		Keep-Alive
		AH Hash Algorithm MD5 🔜
		NetBIOS broadcast

4. The **Aggressive Mode** option will need to be manually checked on in the Advanced section on Router A (the router using a dynamic IP address). This router will be the **only** router of the tunnel that will show the "Connect" button on the **Summary** page.

Router B Configuration (Static IP Address):

Local Group Setup	Local Security Gateway Type IP Only
	IP address 68 , 5 . 🗙 , 🗙
	Local Security Group Type Subnet 💌
	IP address 192 . 168 . 1 . 0
	Subnet Mask 255 , 255 , 255 , 0
Remote Group Setup	Remote Security Gateway Type Dynamic IP + Domain Name(FQDN) Authentication
	Domain Name linksysjdyndns.org
	Remote Security Group Type Subnet 💌
	IP address 192 . 168 . 2 . 0
	Subnet Mask 255 , 255 , 255 , 0

1. On this side of the VPN tunnel, the settings are simply the *reverse* of Router A's settings.

	Advanced -]
Advanced	V	Aggressive Mode
		Compress (Support IP Payload Compression Protocol(IPComp))
		Keep-Alive
		AH Hash Algorithm MD5 💌
		NetBIOS broadcast

2. When **Remote Security Gateway Type** is configured to the "Dynamic IP + Domain Name(FQDN) Authentication" option, the **Aggressive Mode** option is automatically

checked and grayed out to prevent changes. This router will *NOT* show a "Connect" button on the **Summary** page.

Router A: Summary Page (Connect button):

Tunnel Status									
					Add New Tur	nel			
	Jump to 1 💌 /1 page 3 💌 entries per page								
	No.	Name	Status	Phase2 Enc/Auth/Grp	Local Group	Remote Group	Remote Gateway	Tunnel Test	Config.
	1	vpn01	Resolving Hostname	DES/MD5/1	192.168.2.0 255.255.255.0	192.168.1.0 255.255.255.0	60.5. X . X	Connect	Edit 🛈
		1	Tunnel(s) Ena	bled	1	Tunnel(s) Def	ined		

1. The router that is using the dynamic IP address Internet connection (in this scenario, Router A) will be the only router of the tunnel that will show the **Connect** button since it is the only side that knows the Remote Gateway's IP address to initiate a connection.



To connect the tunnel, you can go to a command prompt and ping a remote private IP address and check for replies. In this example, a ping is sent from a computer behind Router A to an address behind Router B (C:\>ping 192.168.1.1). A ping test like this can also be used to test the tunnel link and check for connectivity.
NOTE: You can also use the Connect button to initiate the connection and create the VPN.