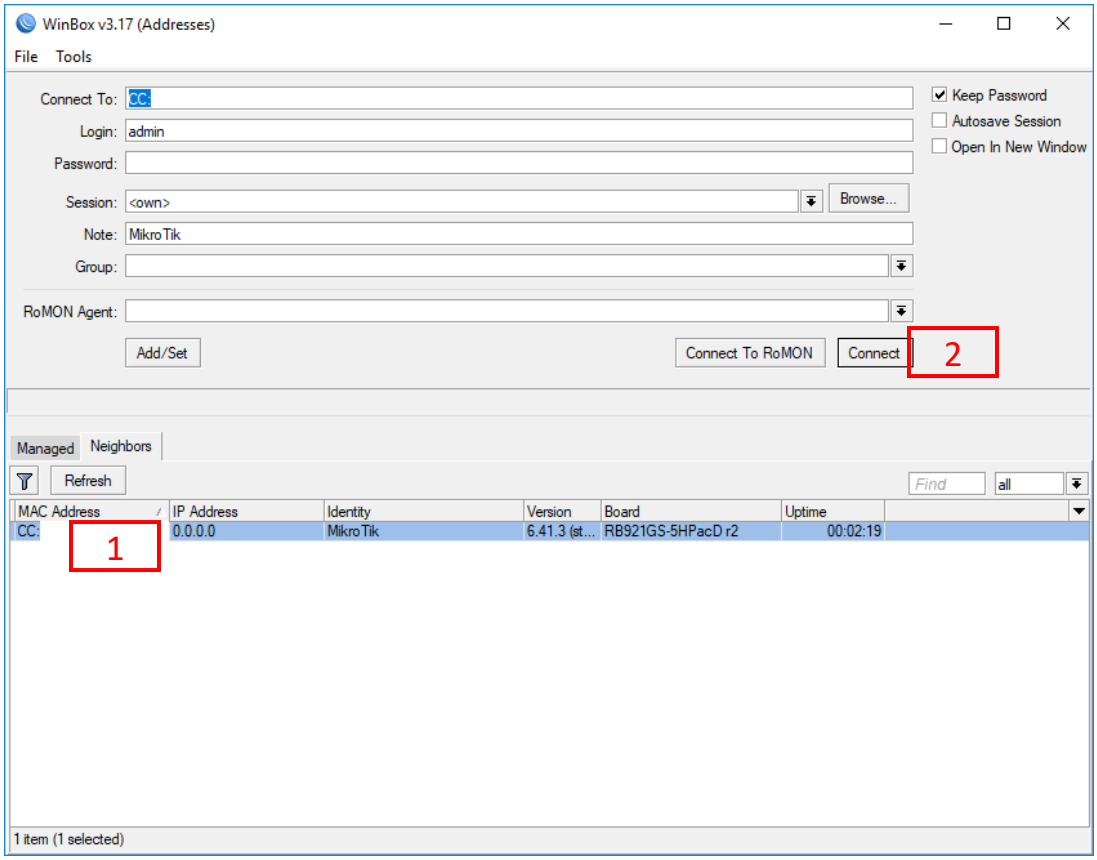
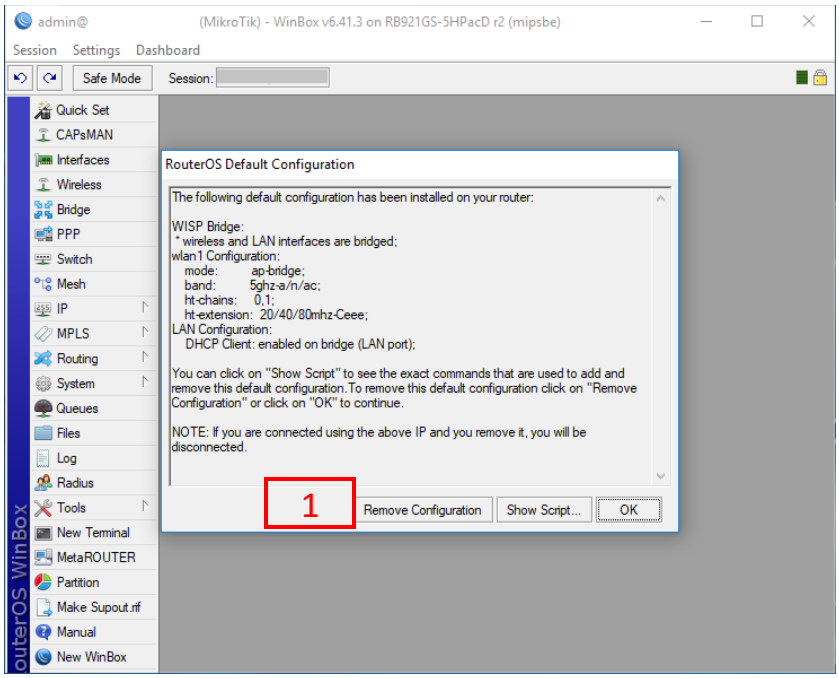
Point-to-Point Wireless Link Configuration

This document provides step by step guide to configure a point-to-point wireless link with RB921GS-5HPacD-15S (Access point) and RBSXTsq5nD (CPE).

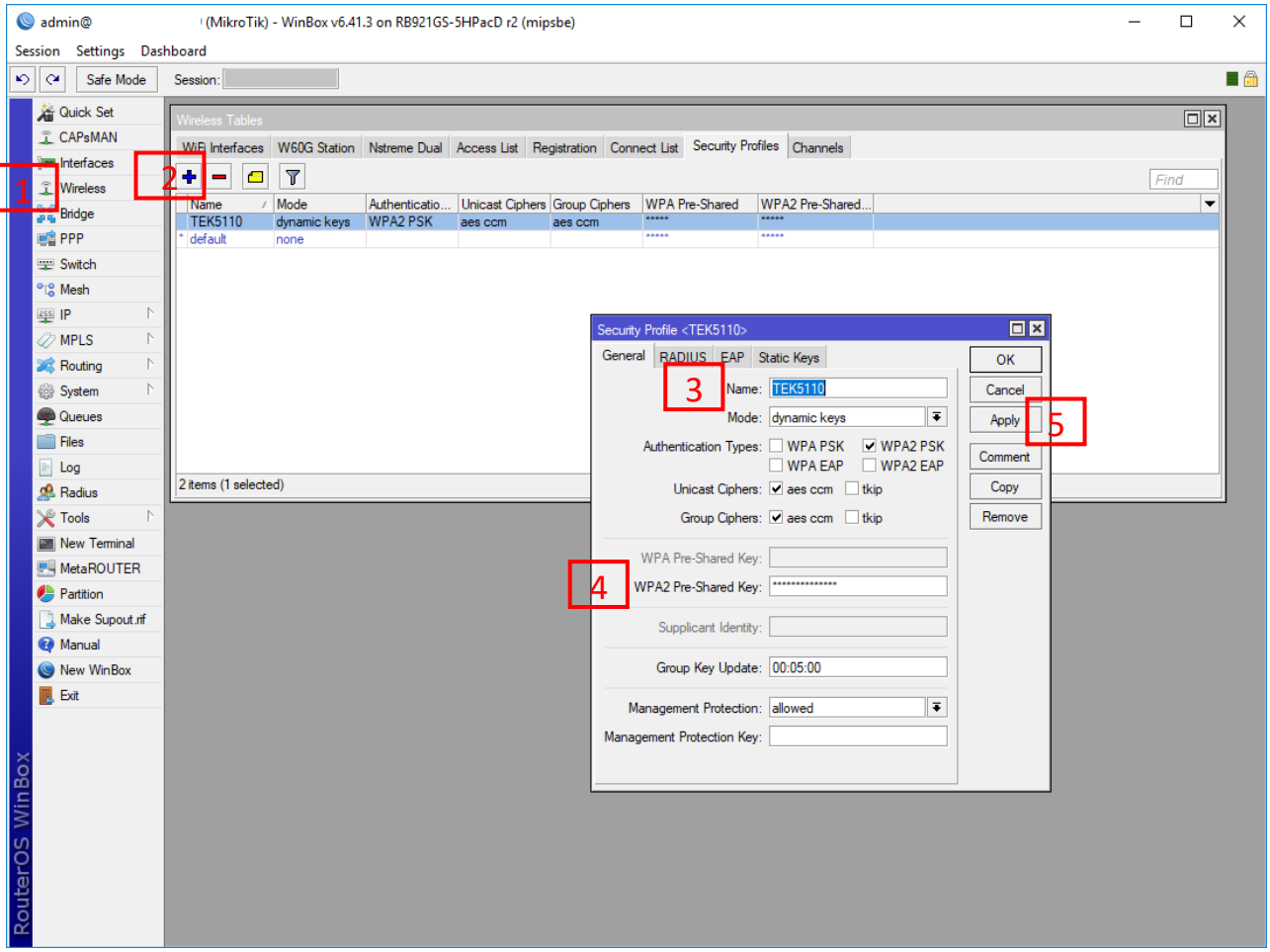
1. Connect to RB921GS with Winbox (use MAC address of RB921GS in Winbox). Use following default “admin” username and empty password to connect.



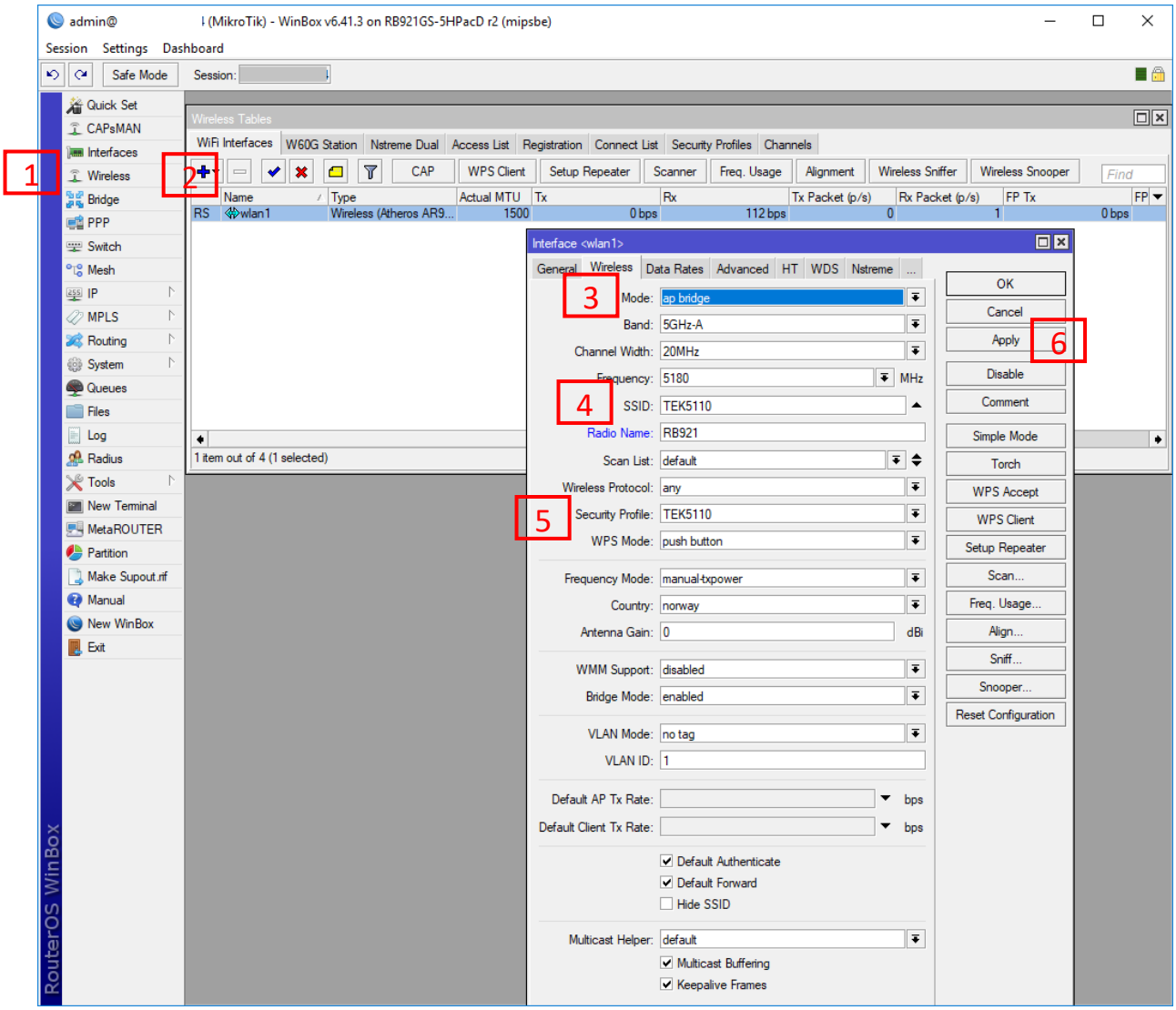
2. Please remove default configuration after login to continue with clean slate.



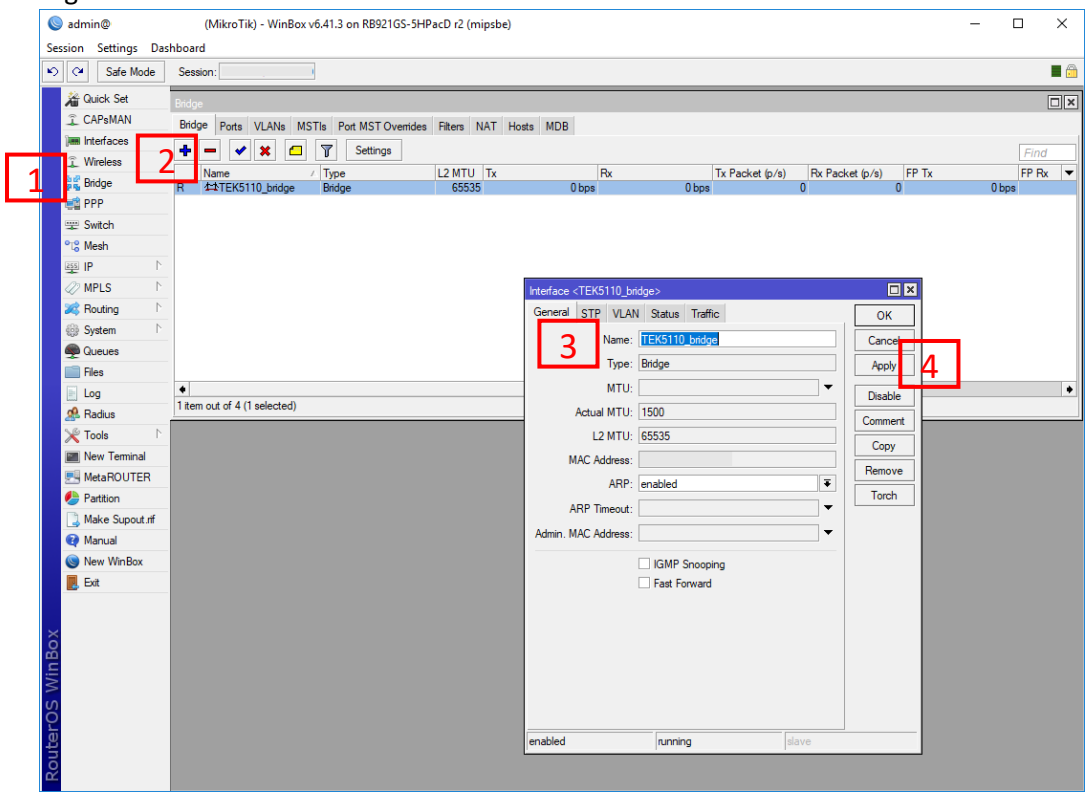
3. Open Wireless tab in order to configure access point so that other devices can connect to RB921GS. First, we need to create a new security profile to authenticate wireless clients.



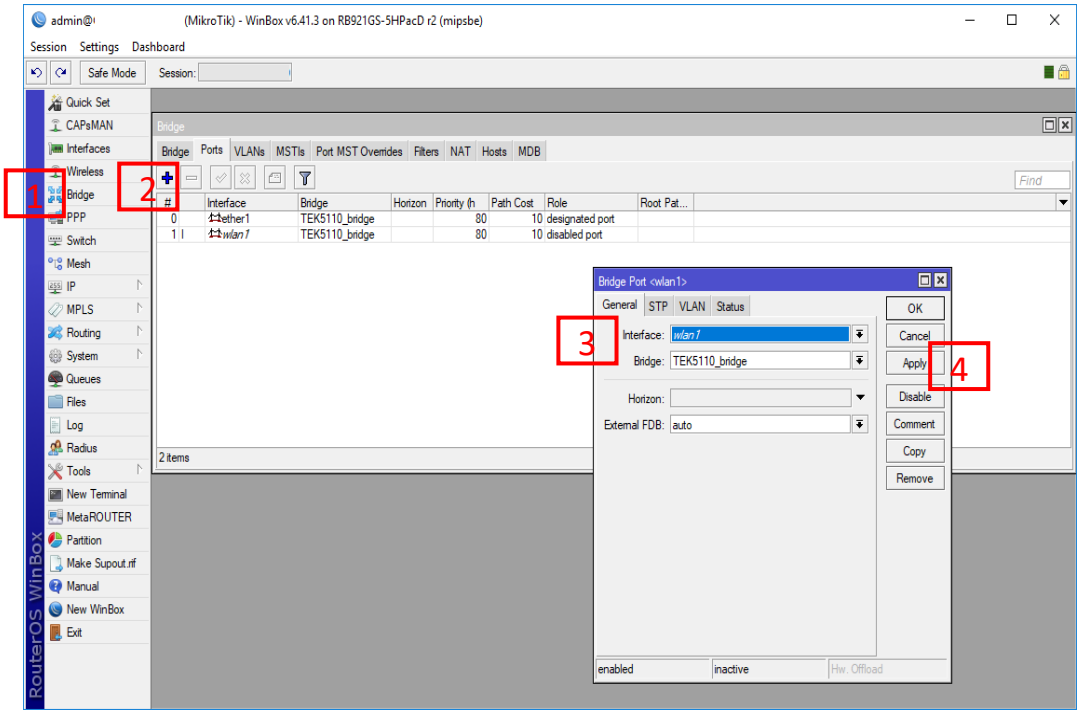
4. Then, enable “wlan1” interface and configure wireless interface to be access point bridge. In the Wireless tab, select an SSID e.g. “TEK5110” and select security profile “TEK5110” that you have created in previous step.



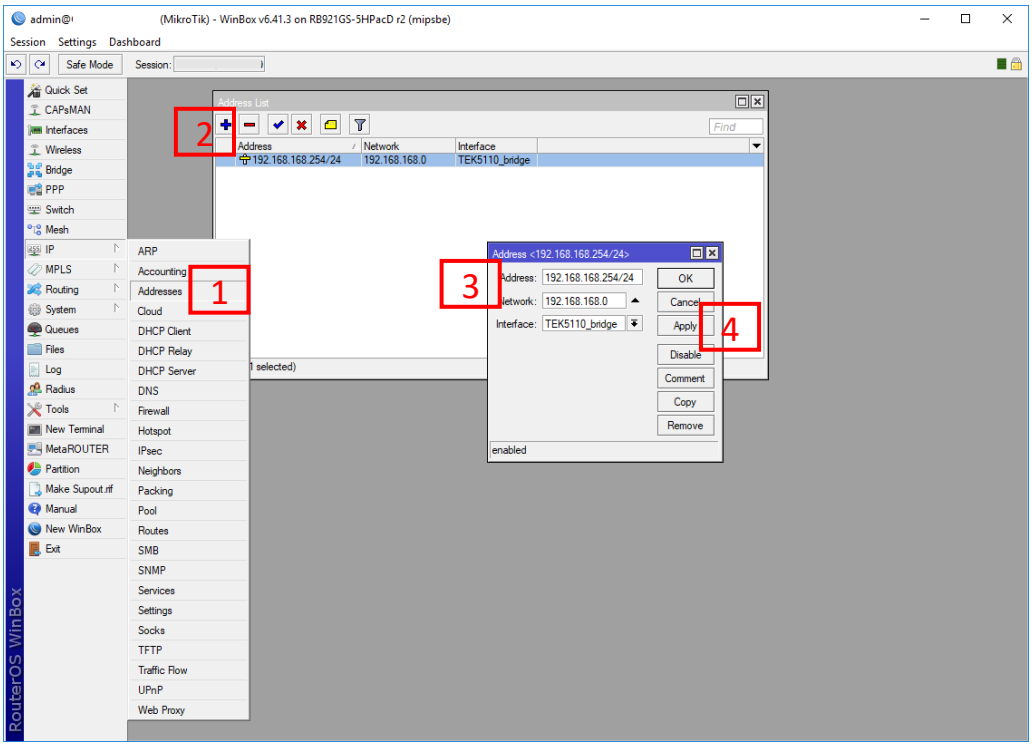
5. Now, create a bridge interface “TEK5110” in order to connect wireless and Ethernet interfaces together.



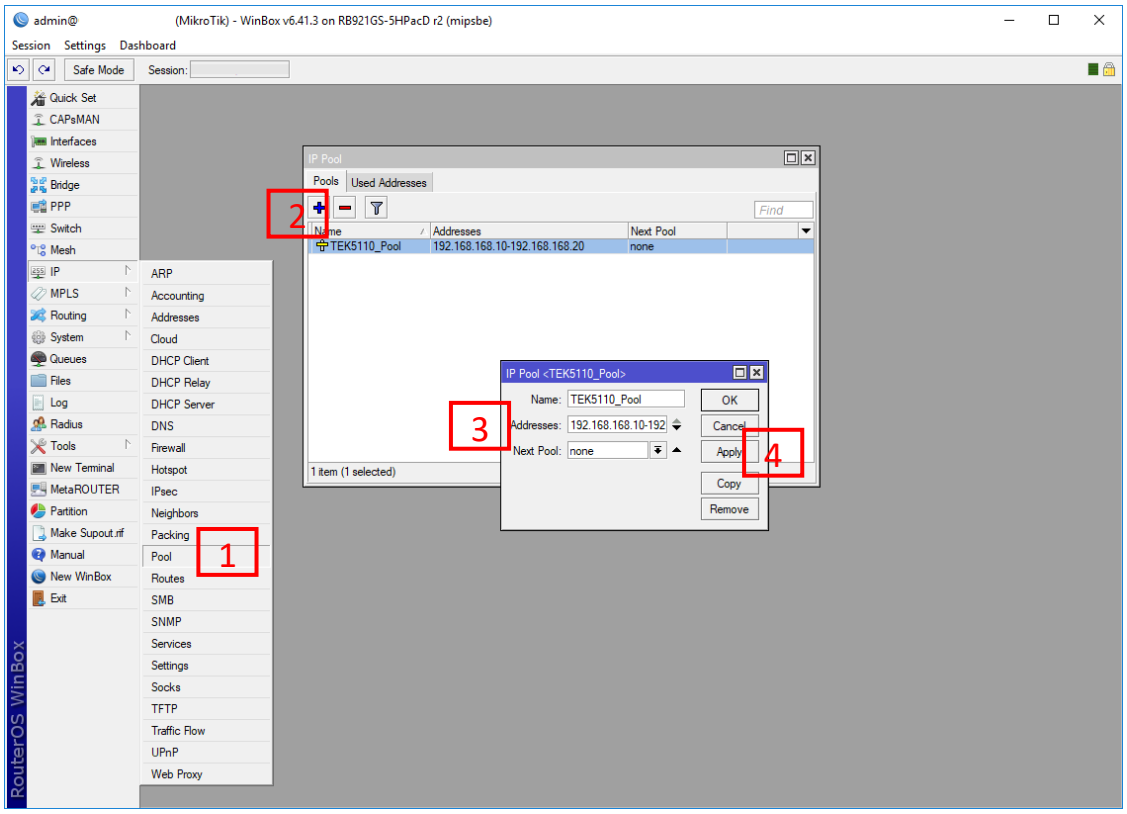
6. Then, add “wlan1” and “ether1” to the bridge interface that you have created in previous step.



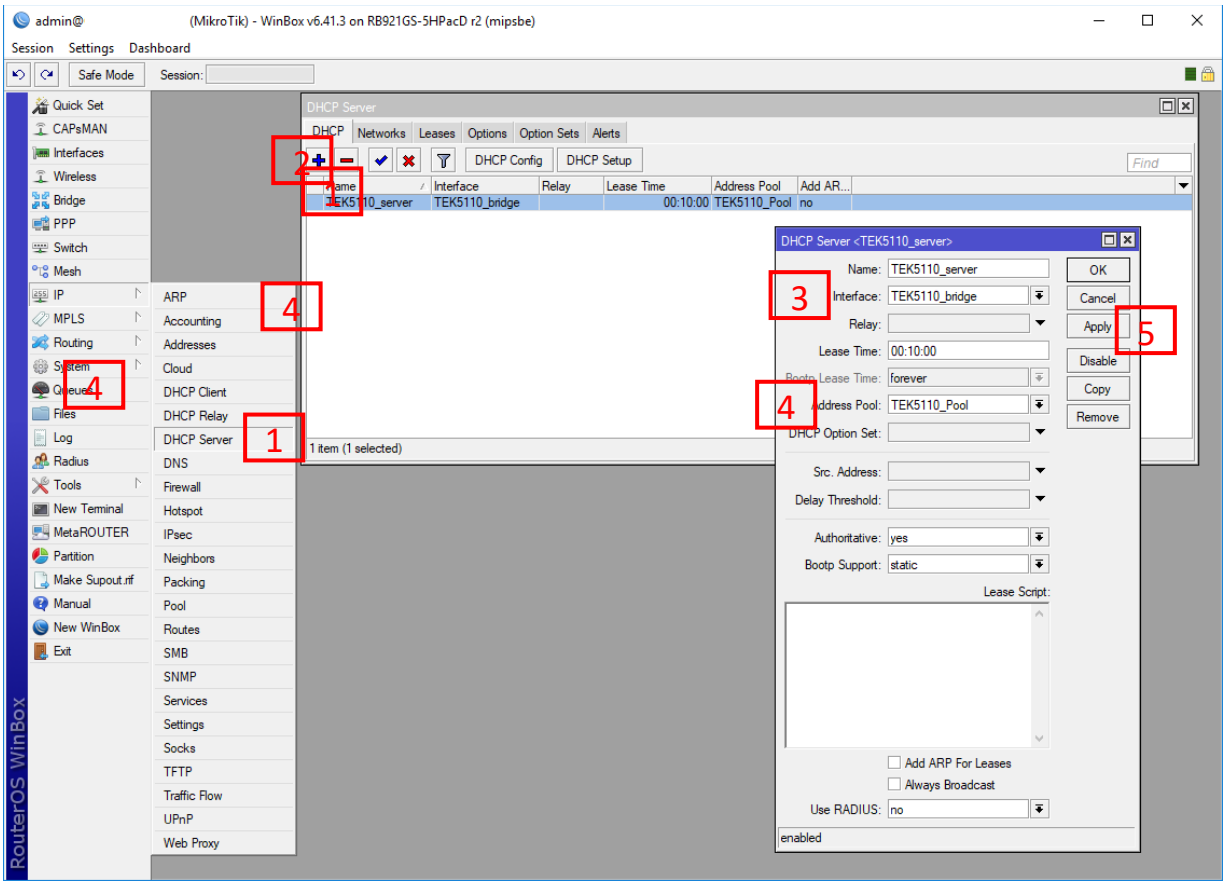
7. Now, we need a DHCP server to lease IP addresses automatically. First, we should assign an IP address “192.168.168.254/24” to the bridge interface we have created.



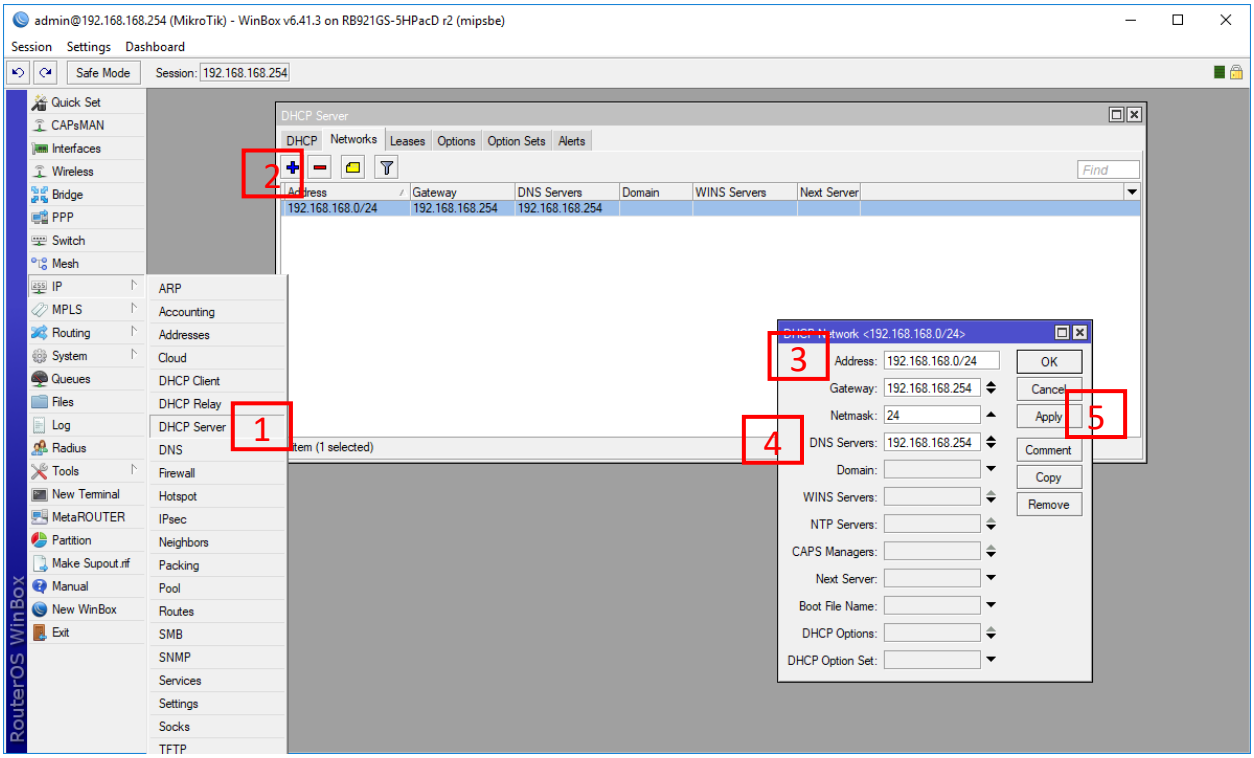
8. In order to create a DHCP server, we need to define IP address pool “192.168.168.10-192.168.168.20”, which we want to assign to devices.



9. Now, we can create DHCP server.



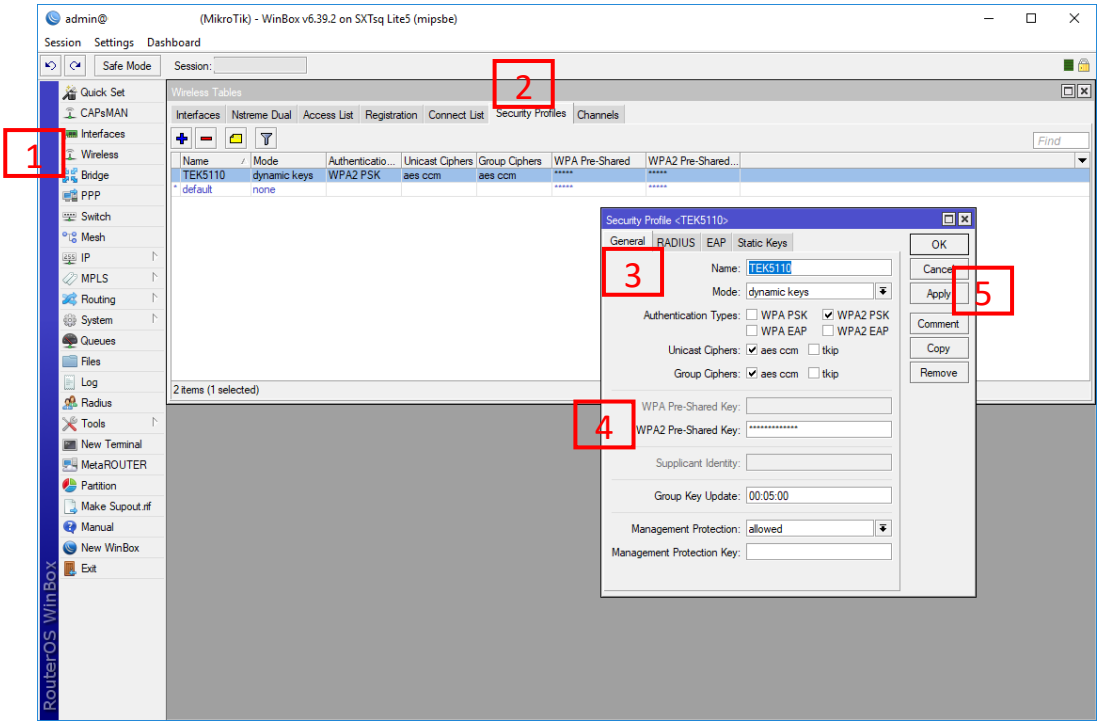
10. Finally, we need to define DHCP server's options (network, gateway and DNS servers) and finish configuration of RB921GS as a P2P wireless access point.



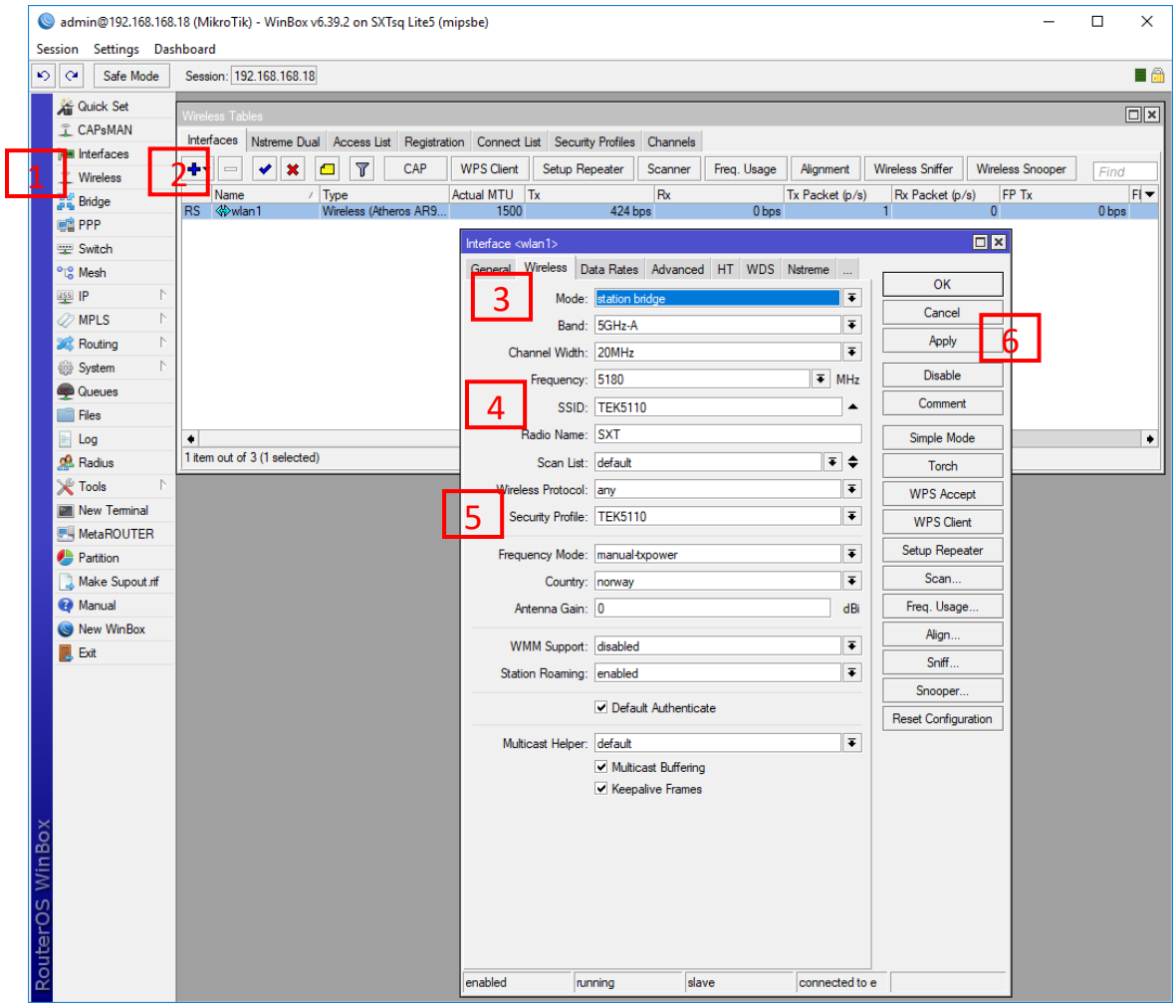
Configuring Mikrotik RBSXTsq5nD as a P2P client

Here, we will configure RBSXTsq5nD as a P2P client to connect to RB921GS access point, which we configured in previous section.

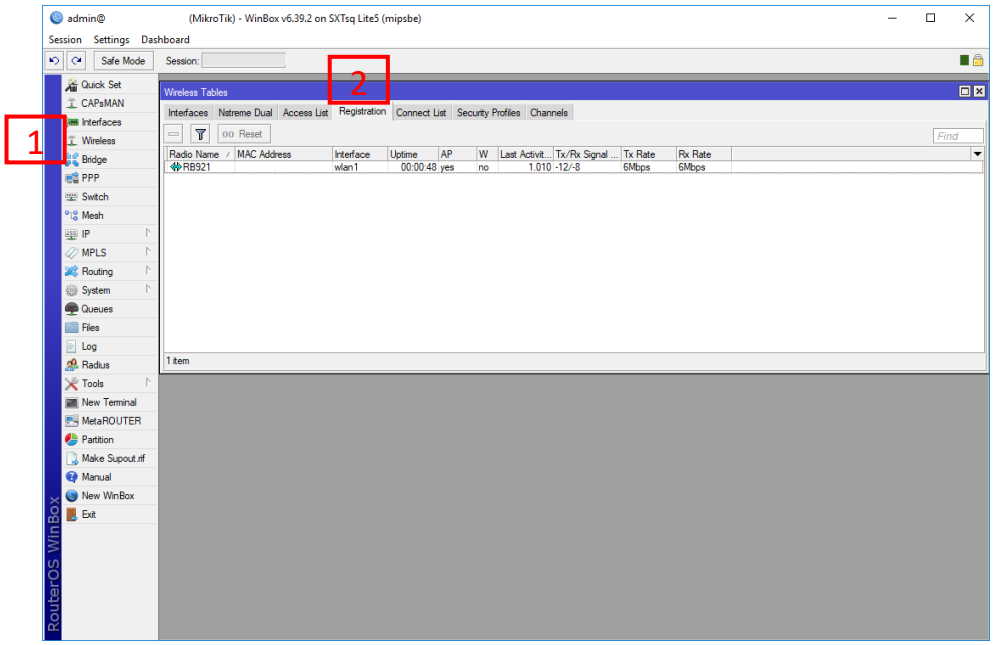
1. After we connect to the RBSXTsq5nD, we need to configure wireless interface to connect it to RB921GS access point. Therefore, we need to create a security profile with the same password as we have created in RB921GS.



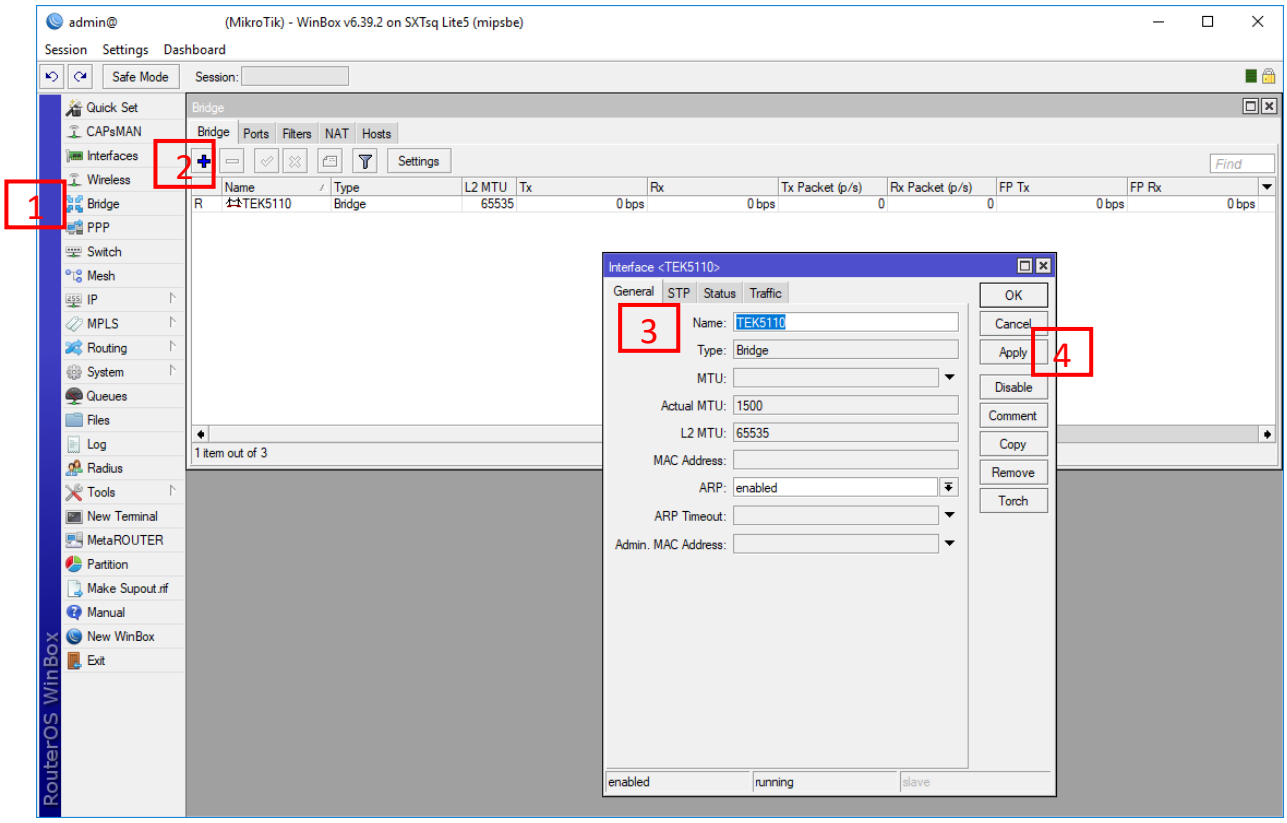
1. Then, we can configure “wlan1” interface to be as a station bridge interface so that it can connect its clients in the ethernet port to P2P wireless network. In addition, you should select RB921GS SSID “TEK5110” and security profile “TEK5110” that you have created in previous step.



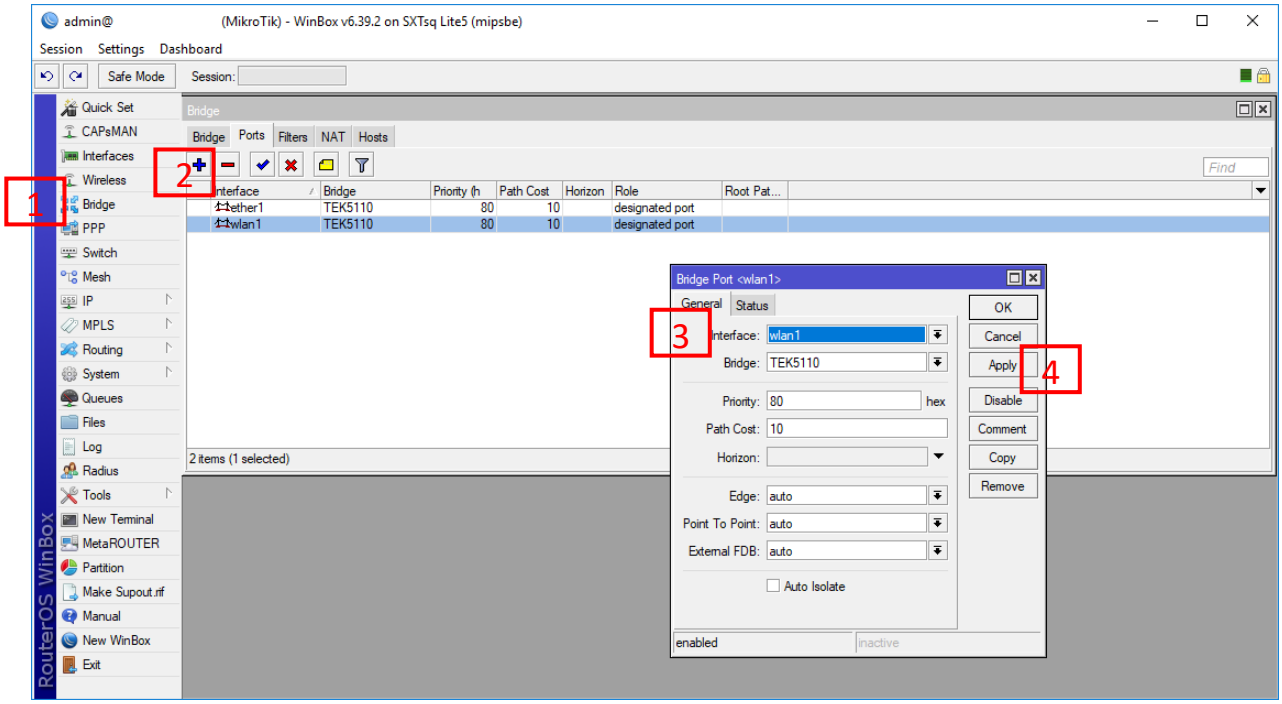
2. Now, check the registration tab in order to make sure that RBSXTsq5nD connected to RB921GS.



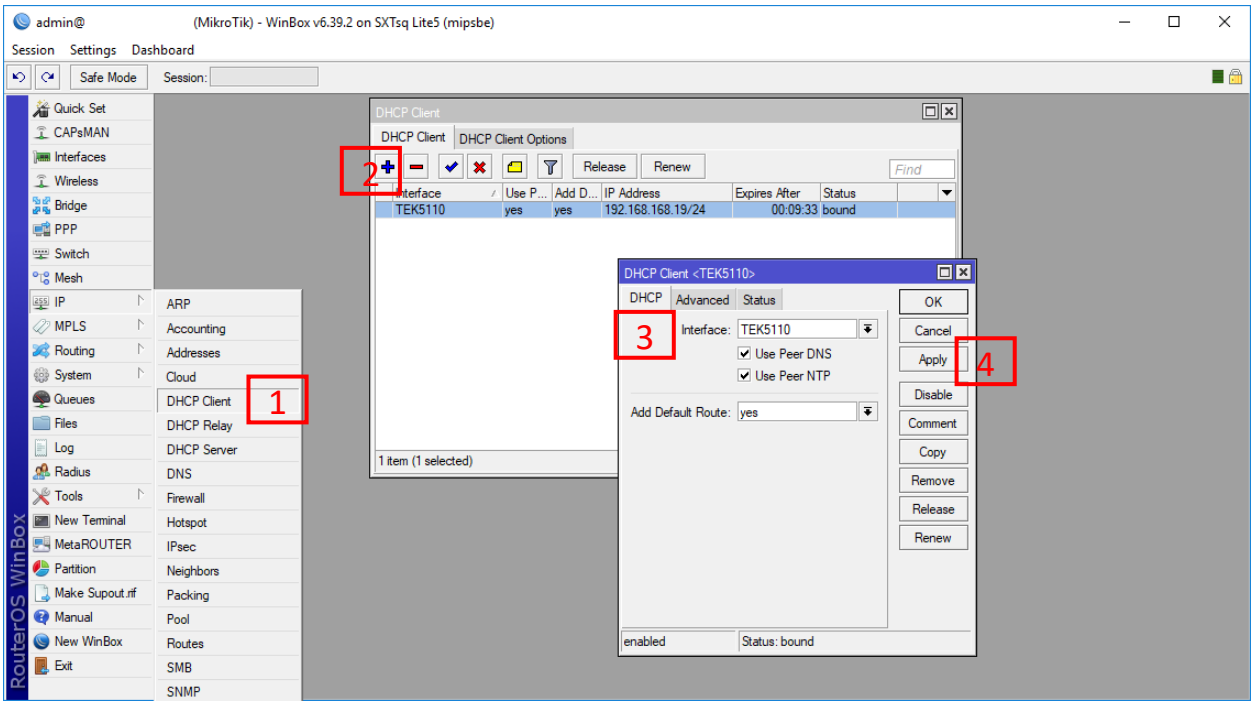
3. After RBSXTsq5nD is connected to RB921GS, we create a bridge interface “TEK5110” in order to connect “wlan1” and “ether1” interfaces together.



4. Then, add “wlan1” and “ether1” interfaces to the bridge interface so that device that connects to Ethernet interface can connect to RB921GS network.



5. Finally, configure a DHCP client for bridge interface “TEK5110” so that we can connect to the RBSXTsq5nD remotely from RB921GS network.



Now, our point-to-point network is configured so clients in each side can communicate with each other. Of course, you can use MAC address reservation option in the RB921GS DHCP server in order to lease specific IP addresses to each device in the network.