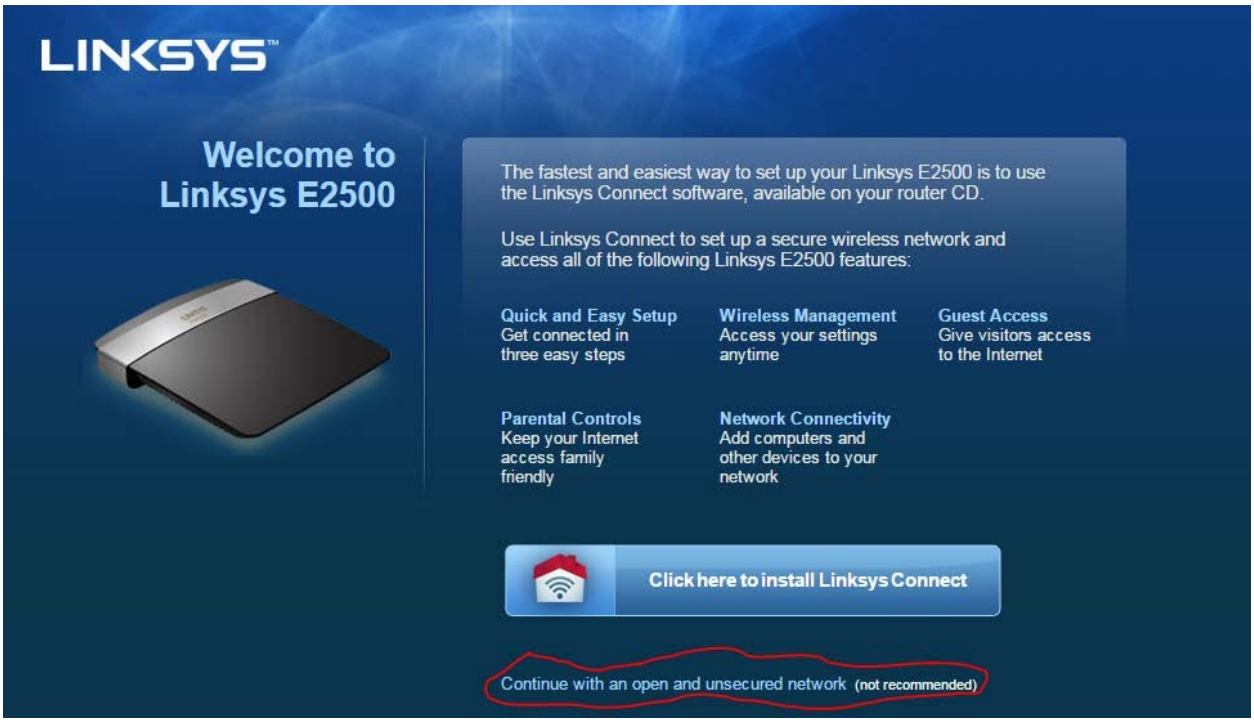
Configure “Router 1”

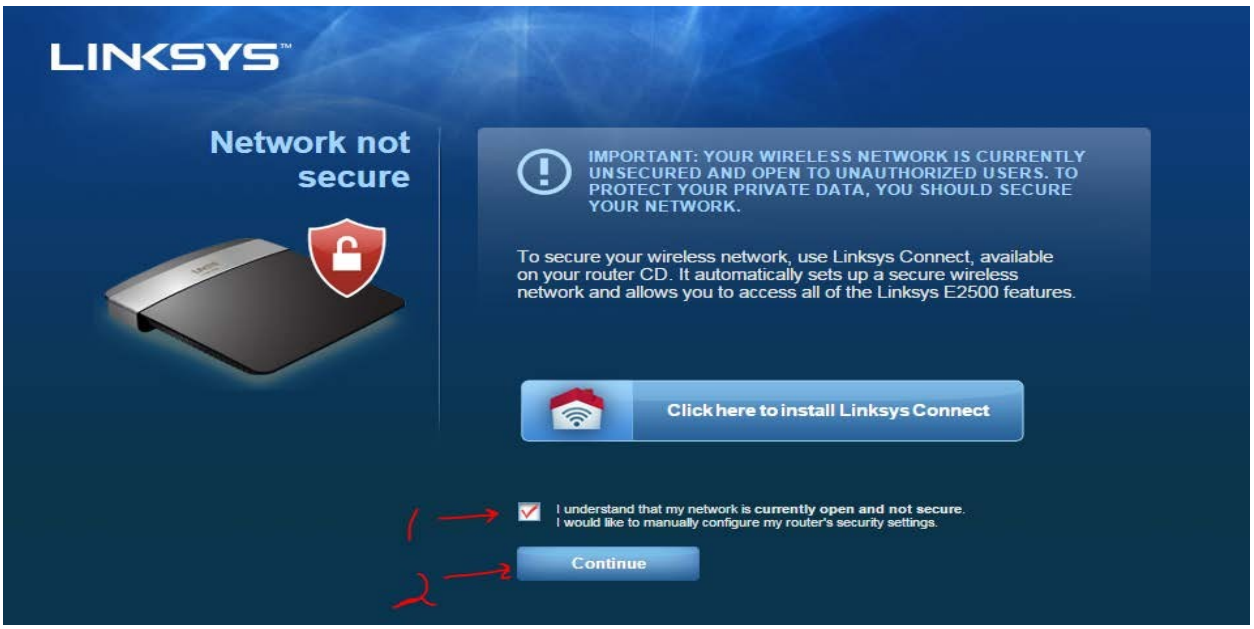
Reset to Factory Default

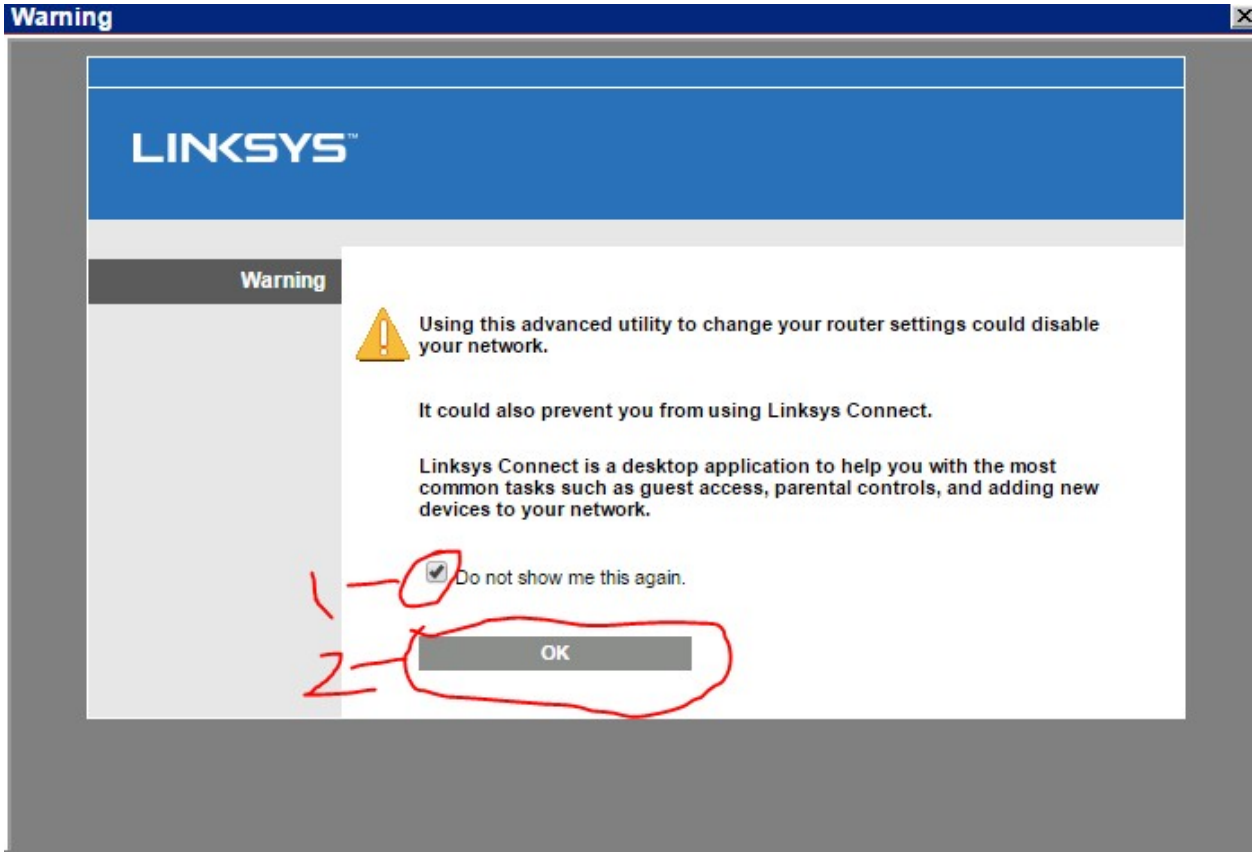
1. Reset the router to factory defaults.

Connect to the router’s management interface:

1. Type 192.168.1.1 in your browser’s address bar.



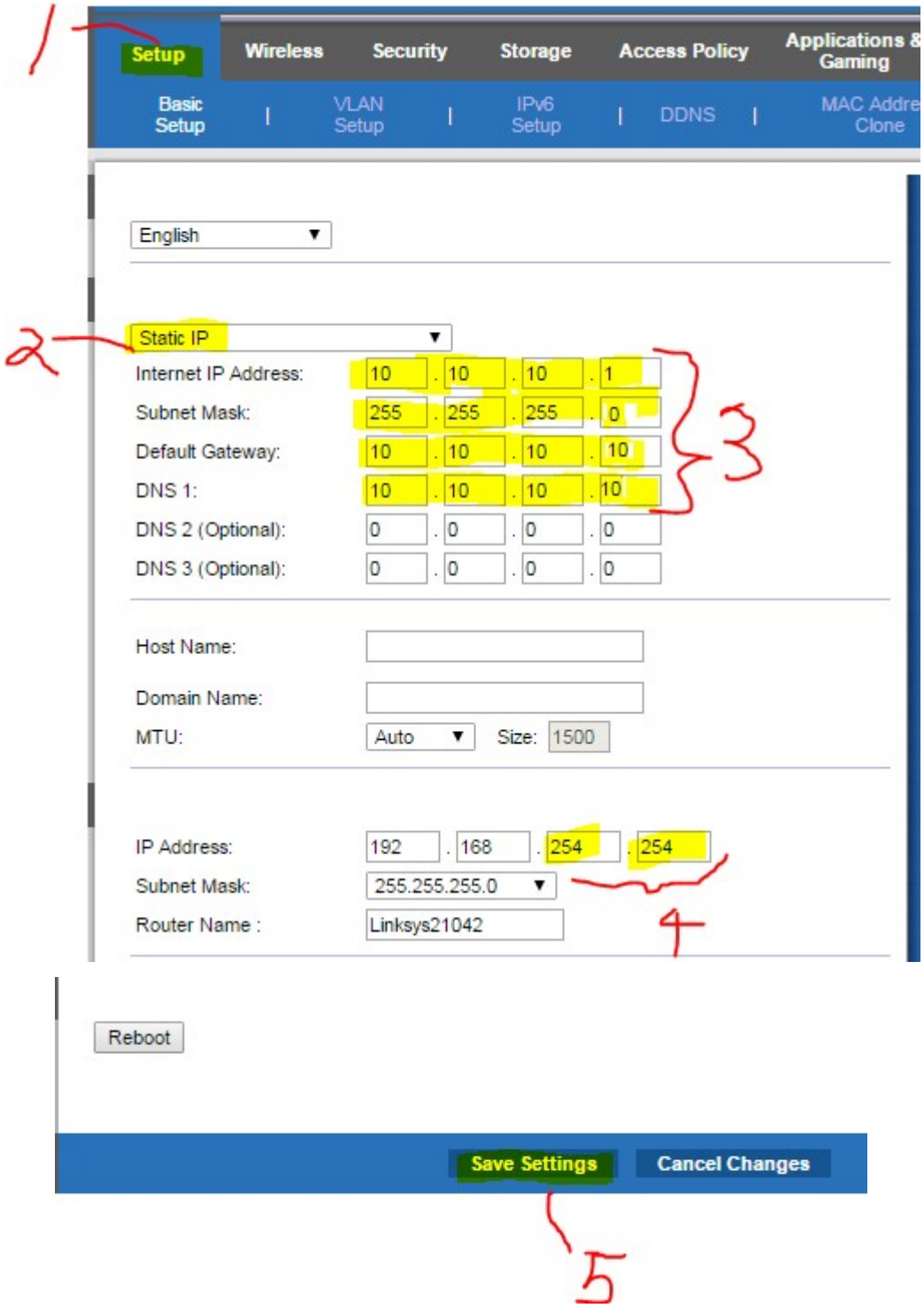


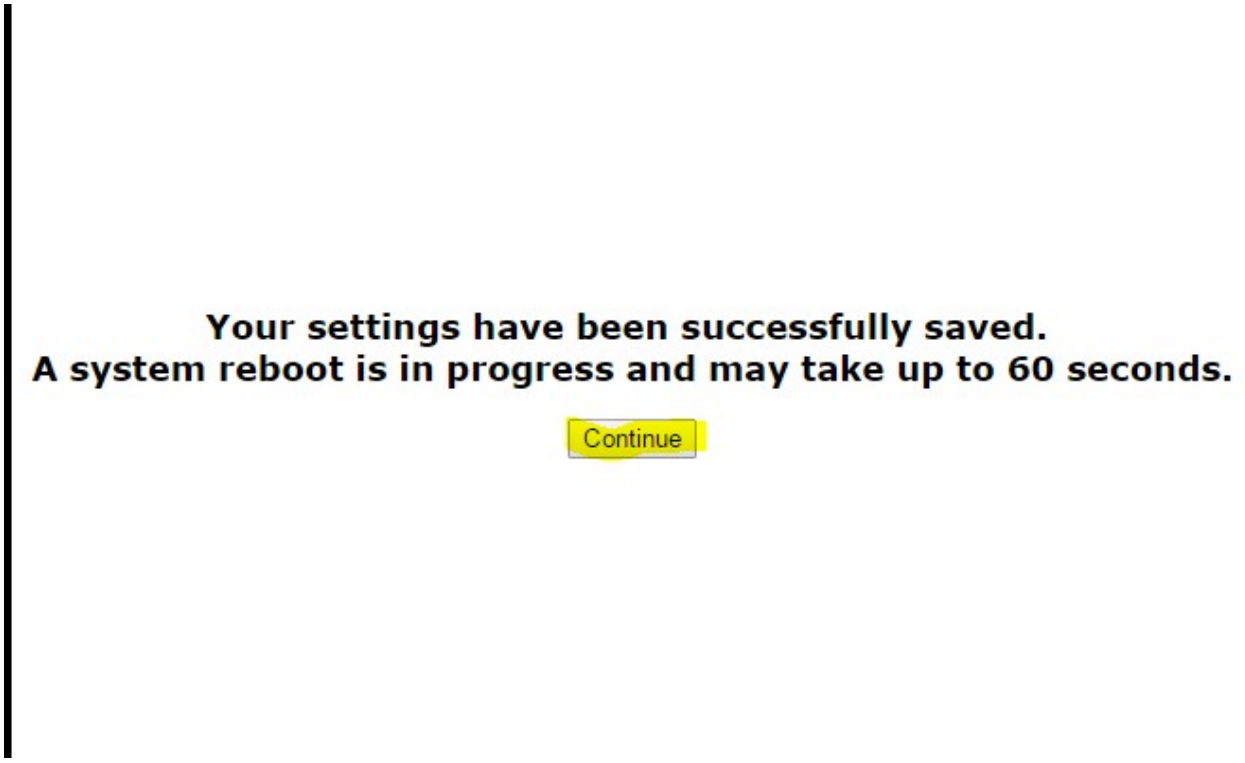


Login to the router's management interface:

Username: admin
Password: admin

Configure Router IP Addresses

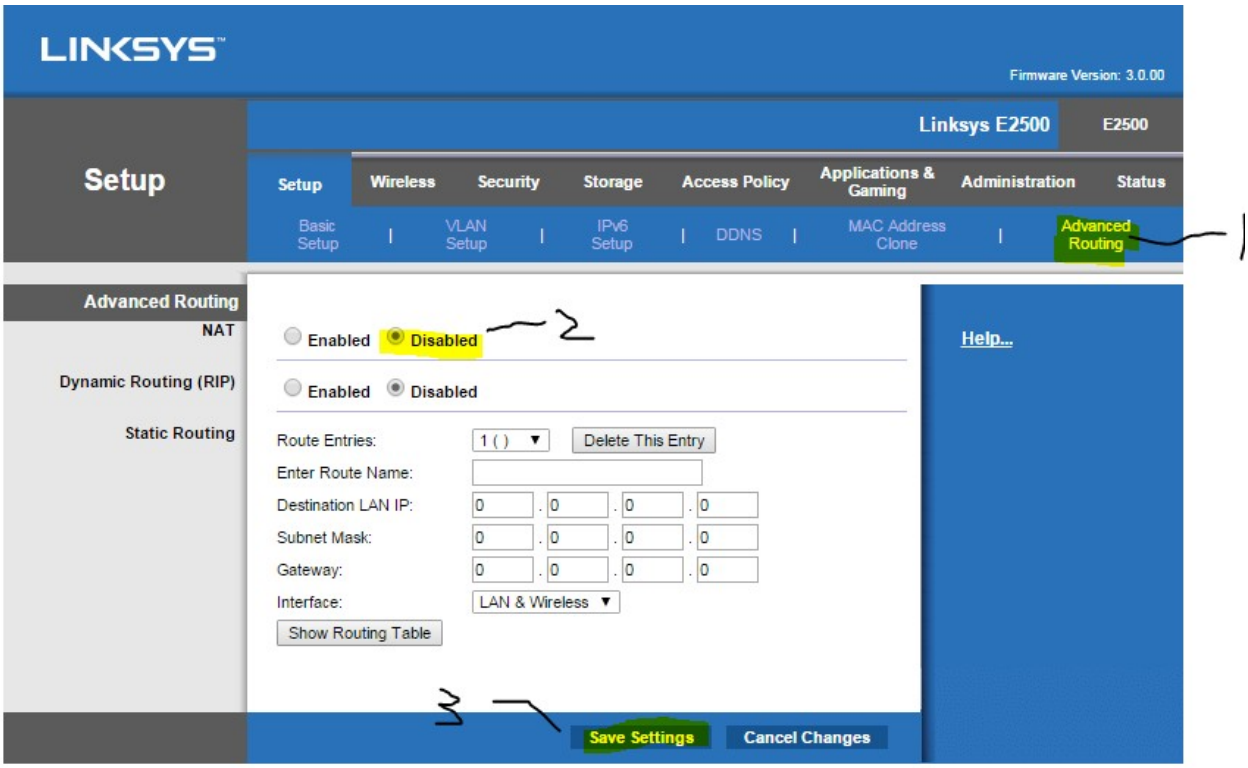


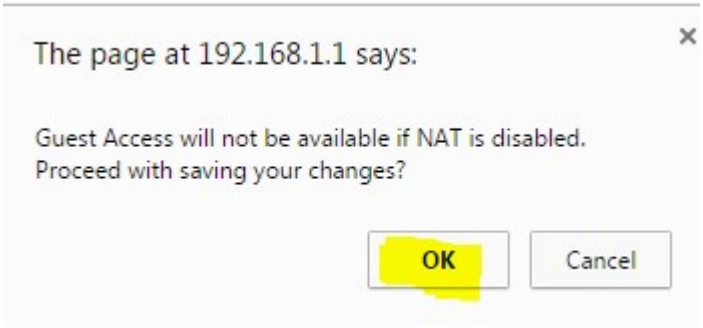


Wait for the router to reboot, and then ***reconnect*** to the router's new IP address ***@192.168.254.254***

Be patient as it may take a minute or two before you are able to reconnect to the router.

Disable NAT

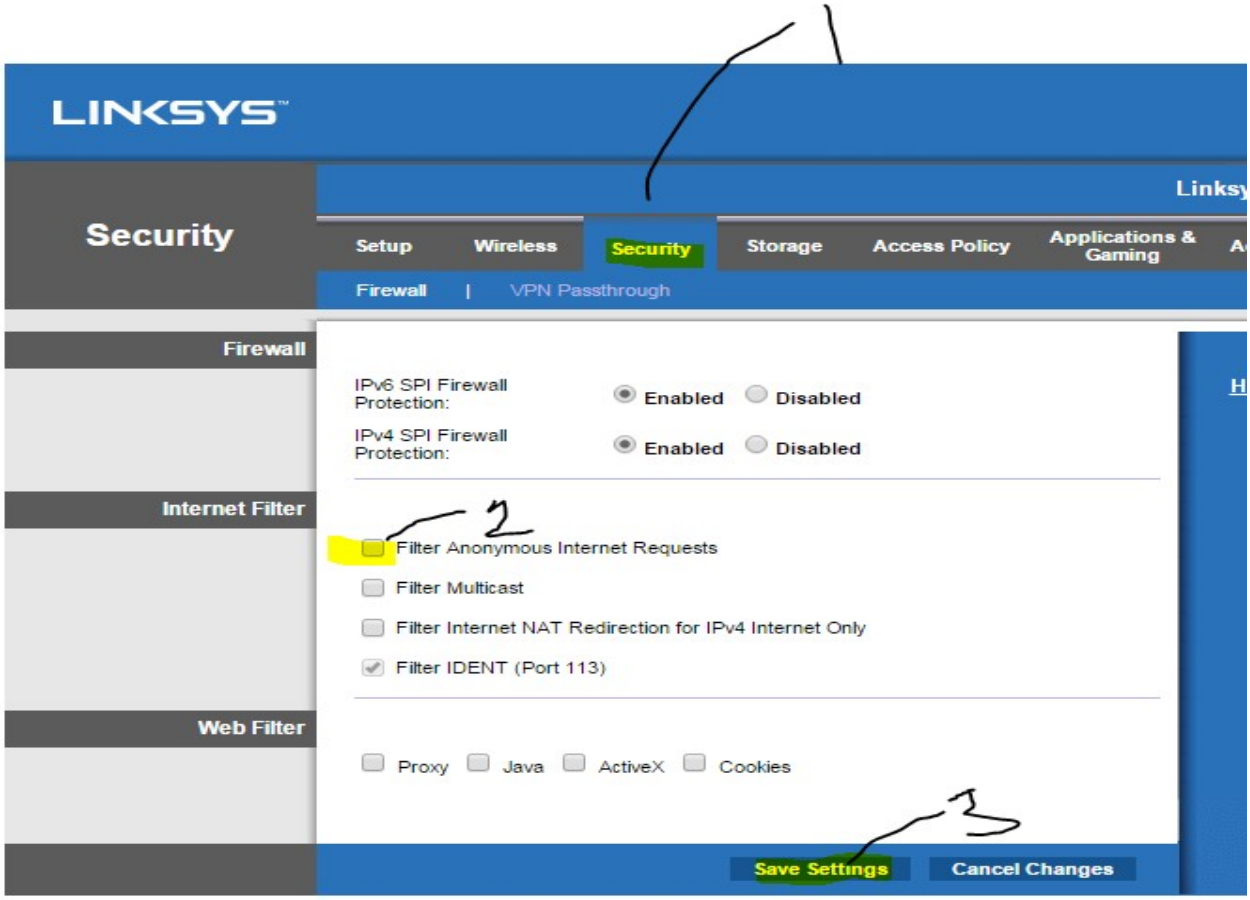

LINKSYS
Firmware Version: 3.0.00
Linksys E2500
E2500
Setup
Setup
Wireless
Security
Storage
Access Policy
Applications & Gaming
Administration
Status
Basic Setup
VLAN Setup
IPv6 Setup
DDNS
MAC Address Clone
Advanced Routing
Advanced Routing
NAT
Enabled
Disabled
Dynamic Routing (RIP)
Enabled
Disabled
Static Routing
Route Entries:
1 ( )
Delete This Entry
Enter Route Name:
Destination LAN IP:
Subnet Mask:
Gateway:
Interface:
LAN & Wireless
Show Routing Table
Help...
Save Settings
Cancel Changes


The page at 192.168.1.1 says:
Guest Access will not be available if NAT is disabled.
Proceed with saving your changes?
OK
Cancel

Wait for the router to reboot, and then ***reconnect*** to the router's **new** IP address ***@192.168.254.254***

Be patient as it may take a minute or two before you are able to reconnect to the router.

Allow anonymous internet request

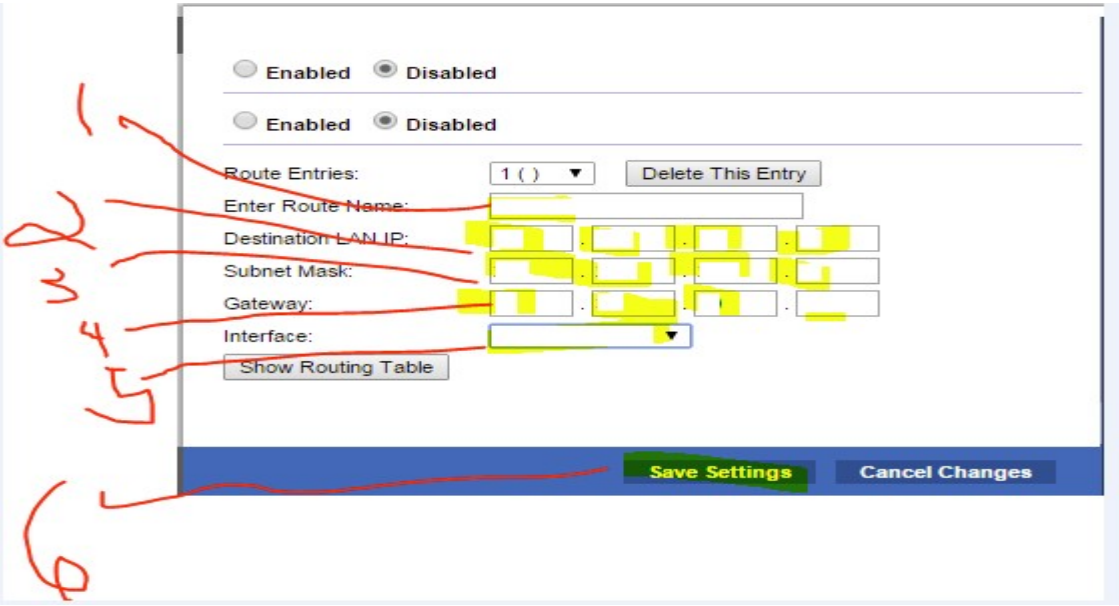


Routing Table Entry (2 marks)

From your router's "Advanced Routing" configuration page (shown below), add a routing entry that will allow you to communicate with devices on "Network segment 2". REMEMBER THIS IS THE ROUTING ENTRY THAT WILL ENABLE YOU TO SEND PACKETS TO YOUR PARTNER'S NETWORK!

Create a static route with the following values:

1. In field 1 enter an appropriate value. For example, LAN SEGMENT 2 or Joe's Network
2. In field 2 enter the network id address of the network you wish to send packet's to. Look at your topology diagram to determine the value to enter.
3. In field 3 enter the network id's subnet mask. Look at your topology diagram to determine the value to enter.
4. In field 4 enter the next hop router IP address. Look at your topology diagram for the value to enter.
5. In field 5 enter the outgoing interface for sending packets to this network. Select the appropriate interface.
6. Click the "Save Setting" and then click continue to return to the "Advanced Routing" configuration page.
7. Click the "Show Routing Table" button to display your router's routing table.
8. Ensure that the new entry exists and contains the correct values!
9. Take a screen capture of your router's routing table, highlight the entry you just created and save as **router1_routing_table.png**



Network Connectivity Tests

1. Local Connectivity Tests
    a. ping 192.168.254.254
    b. ping 10.10.10.1

2. Wait for your partner to complete her/his router configuration before performing remote connectivity tests.

3. Remote Connectivity Tests
    a. ping 10.10.10.2
    b. ping 172.16.254.254

4. NOTE: You cannot proceed until both local and remote connectivity tests have succeeded.

5. Record the following on your topology diagram:
    a. your laptop's IP and MAC addresses
    b. your router's (LAN) MAC address on your network topology diagram
    c. your partner's laptop IP and MAC addresses
    d. your partner's router (LAN) MAC address

Return to the Task1 step 8 of the "Lab7 – InLab Activities" document.