KEYSIGHT TECHNOLOGIES

S1000

2026

BGP Configuration Through Wizard

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Table of Contents

Connect to the IxNetworkWeb 3

Configure Base Configuration 4

Configure Connectivity 10

Learned Inforation 12

Traffic and Stats 13

Figure 1 IxNetwork New Session 3
Figure 2 Landing Page 4
Figure 3 File Control 5
Figure 4 Wizard 6
Figure 5 Wizard Step 1 7
Figure 6 Wizard Step 2 8
Figure 7 Protocol Selection 9
Figure 8 Creation of Topologies 9
Figure 9 Enable Learned Filter 10
Figure 10 Adding a Network Group 10
Figure 11 Basic IPv4 Addresses 11
Figure 12 All Green! 12
Figure 13 Fetch Learned Info 12
Figure 14 Learned Information on BGP Peer 1 13
Figure 15 Traffic Addition 13
Figure 16 Endpoint Selection 14
Figure 17 Traffic Item 14
Figure 18 Port Stats 14
Figure 19 Enable Stats Tracking 15

Connect to the IxNetworkWeb

1. Connect to https://<chassis>/ixnetworkweb
2. Use credentials to enter.
3. Click on New Session for IxNetwork.

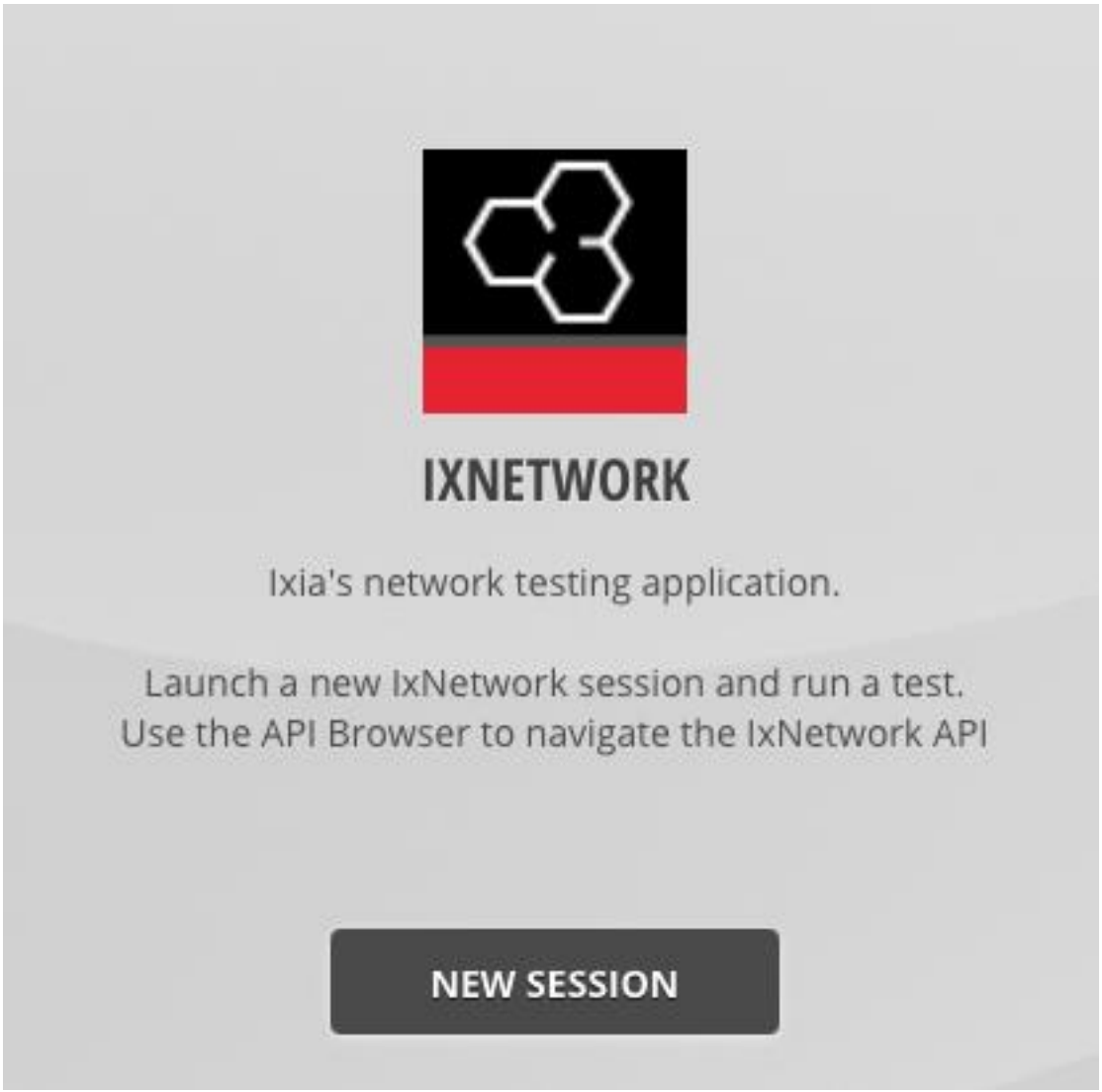

Figure 1 IxNetwork New Session

4. This will open following page.

Configure Base Configuration

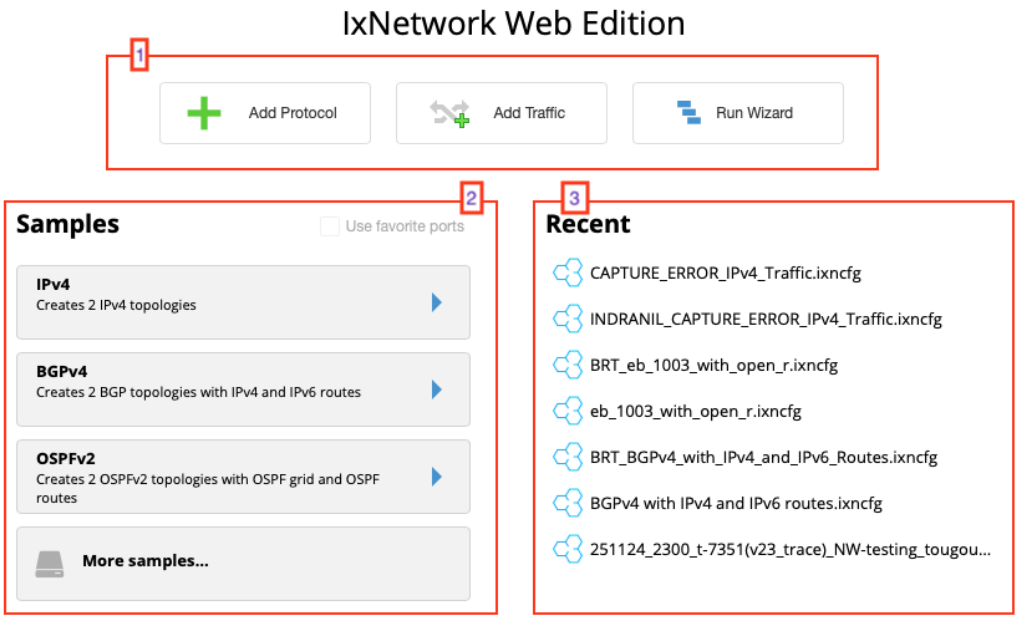

Figure 2 Landing Page

5. In Figure 2, boxes marked as [1] will have controls to perform user operation such as add protocol, add traffic, or run wizard.
6. Boxes marked as [2] contains options to create configuration quickly.
7. And boxes marked as [3] contains latest files saved on this system. Clicking them can quickly open that configuration.

8. On the landing page we can also find File control to perform various operations such as save, open etc.

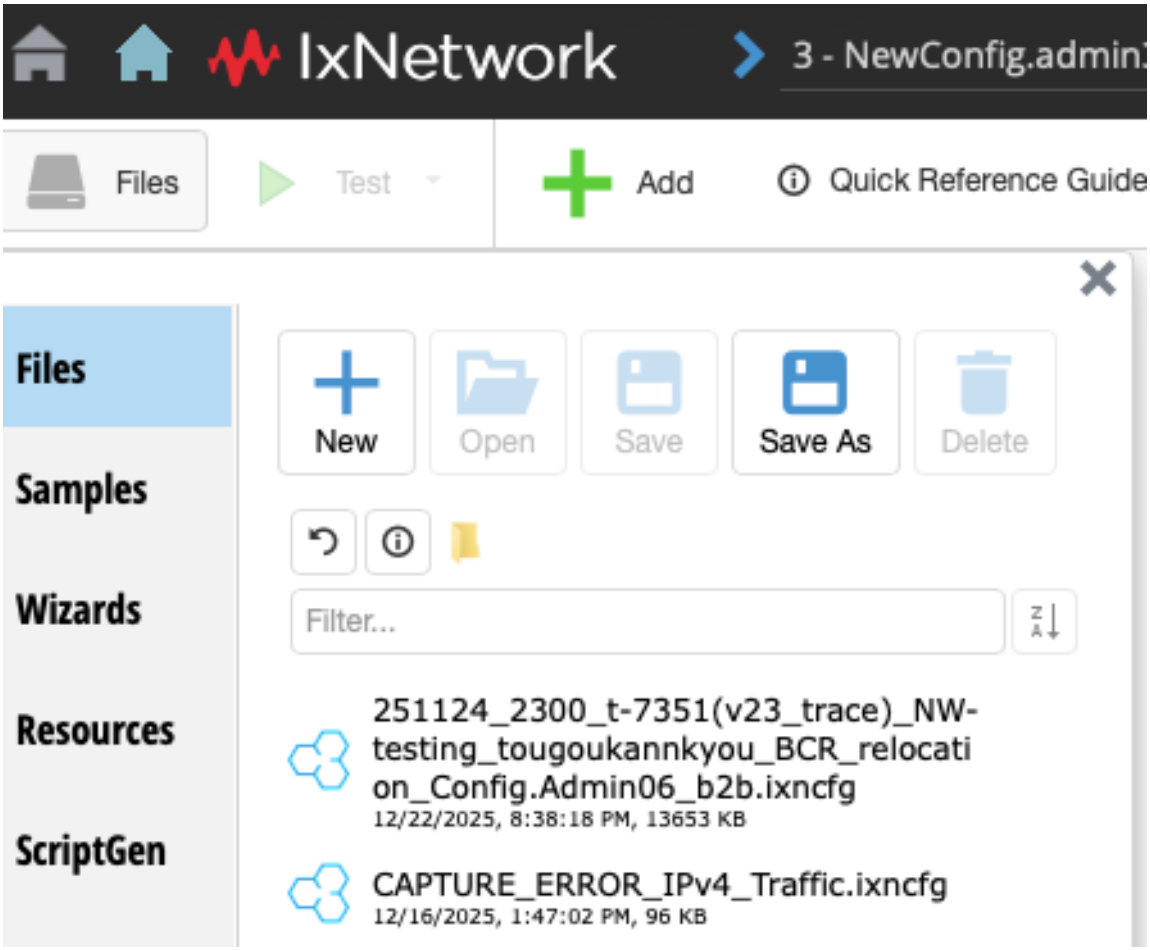

Figure 3 File Control

9. We can also see other operations in Figure 3. Among them Wizards will be of our interest.
10. We can reach to Wizards, from the option as shown in Figure 3, or we can trigger “Run Wizard” option in Figure 2. That operation will also bring us in same area.

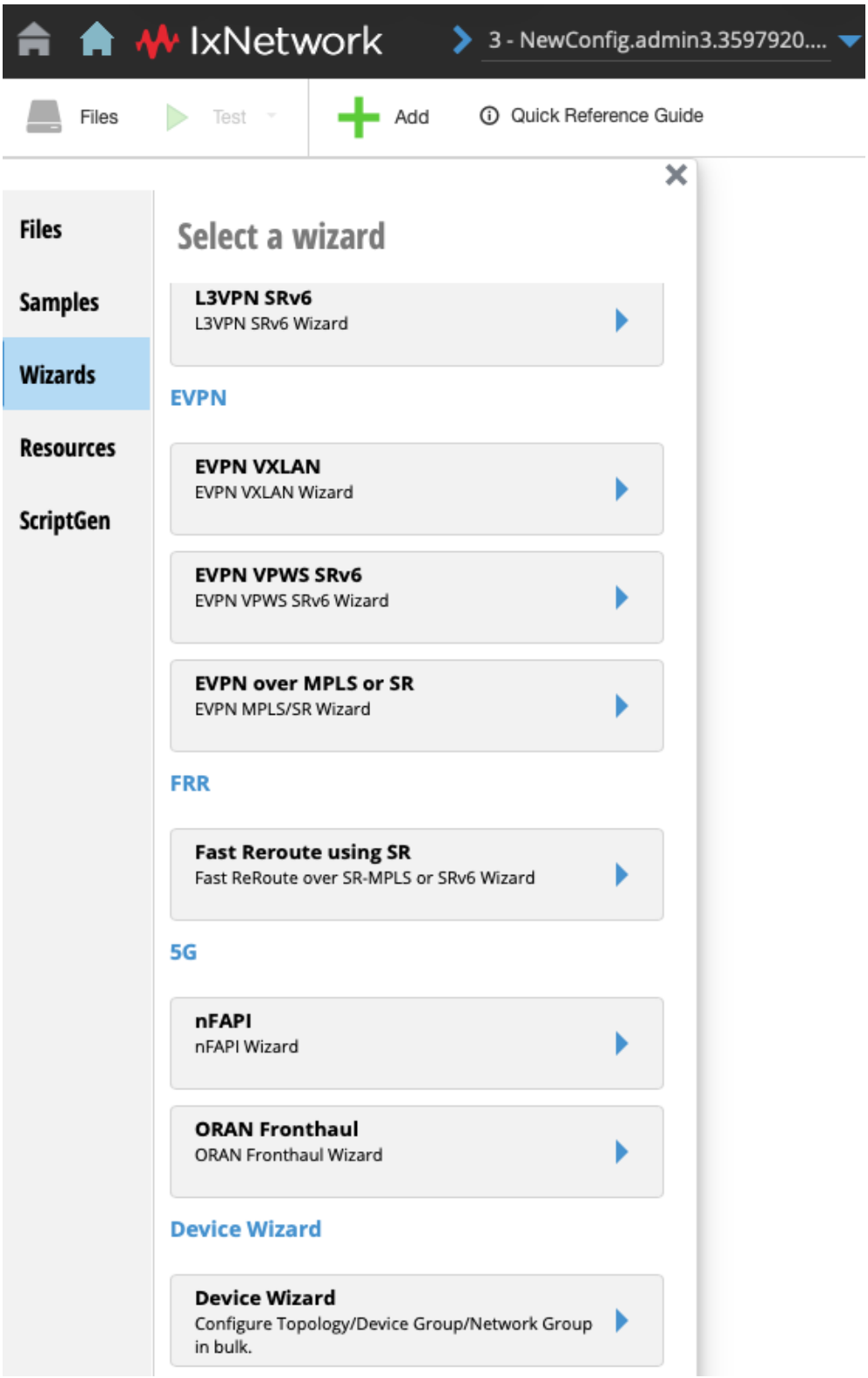

Figure 4 Wizard

11. Click on Device Wizard, and then New Wizard.
12. We'll arrive step 1 of the process.

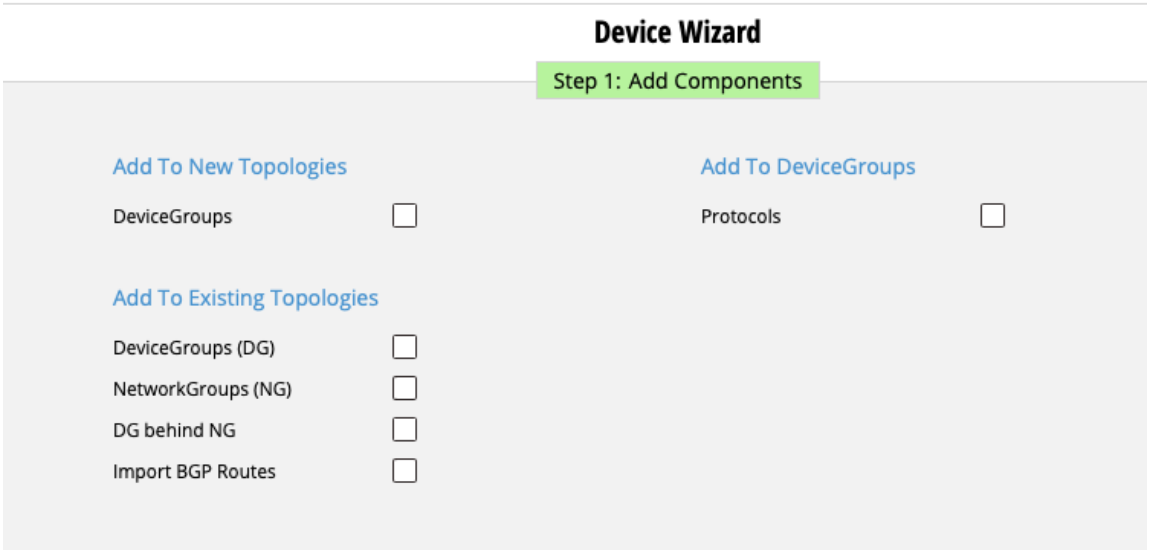

Figure 5 Wizard Step 1

13. Since this is a fresh configuration, chose DeviceGroups to be added to new topologies. All other options will be disabled once we click on this checkbox. Proceed to Next. Following page will appear.

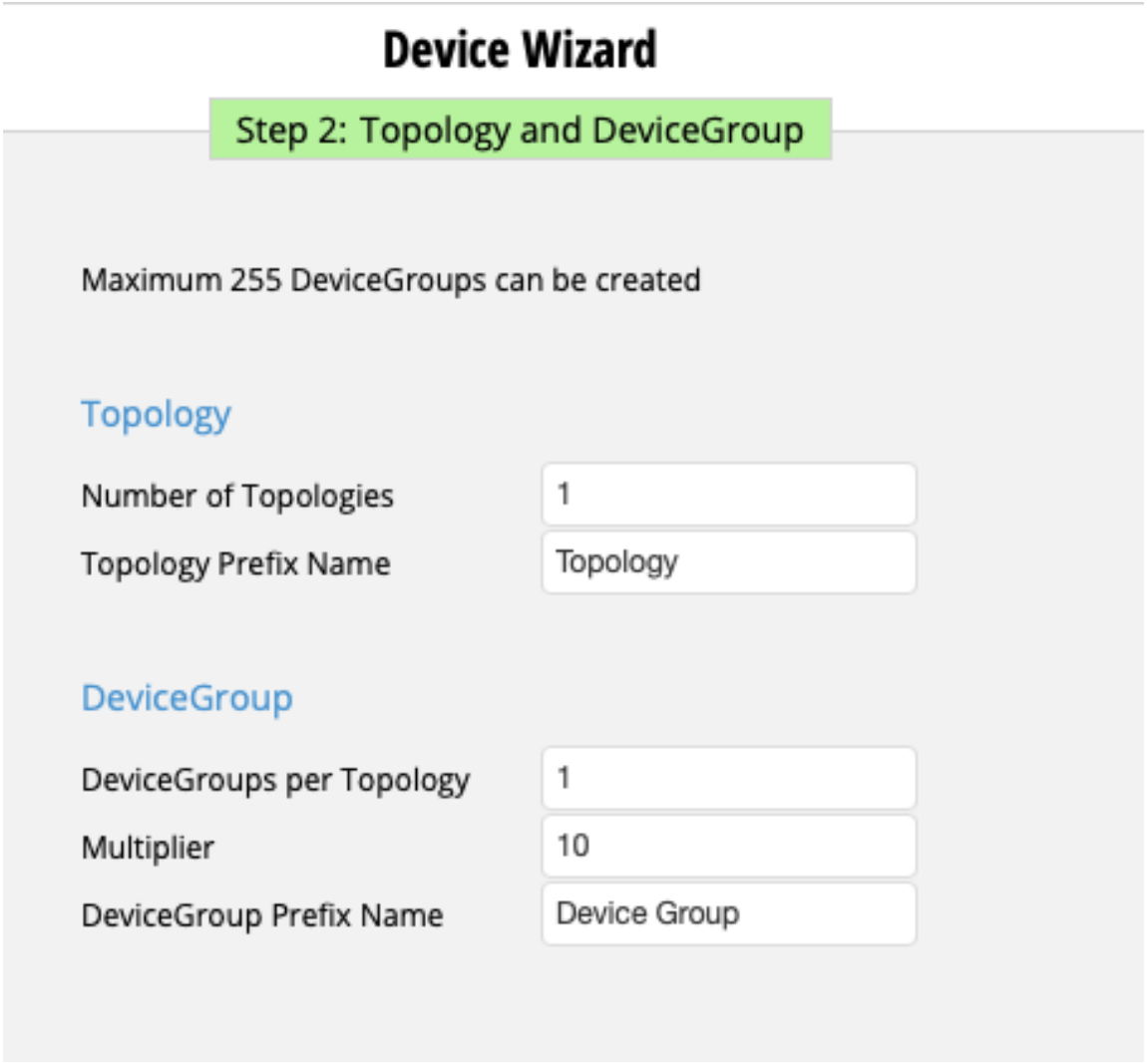

Figure 6 Wizard Step 2

14. Modify this page as shown in Figure 6 in following manner:
    a. Number of Topologies = 2
    b. Topology Prefix Name = AS100
    c. Multiplier = 1
    d. DeviceGroup Prefix Name = BGP
15. Proceed to Next.
16. We'll now have a selection of protocols; from there we shall choose BGP. We can use Filter text box to find any protocol of our choice.

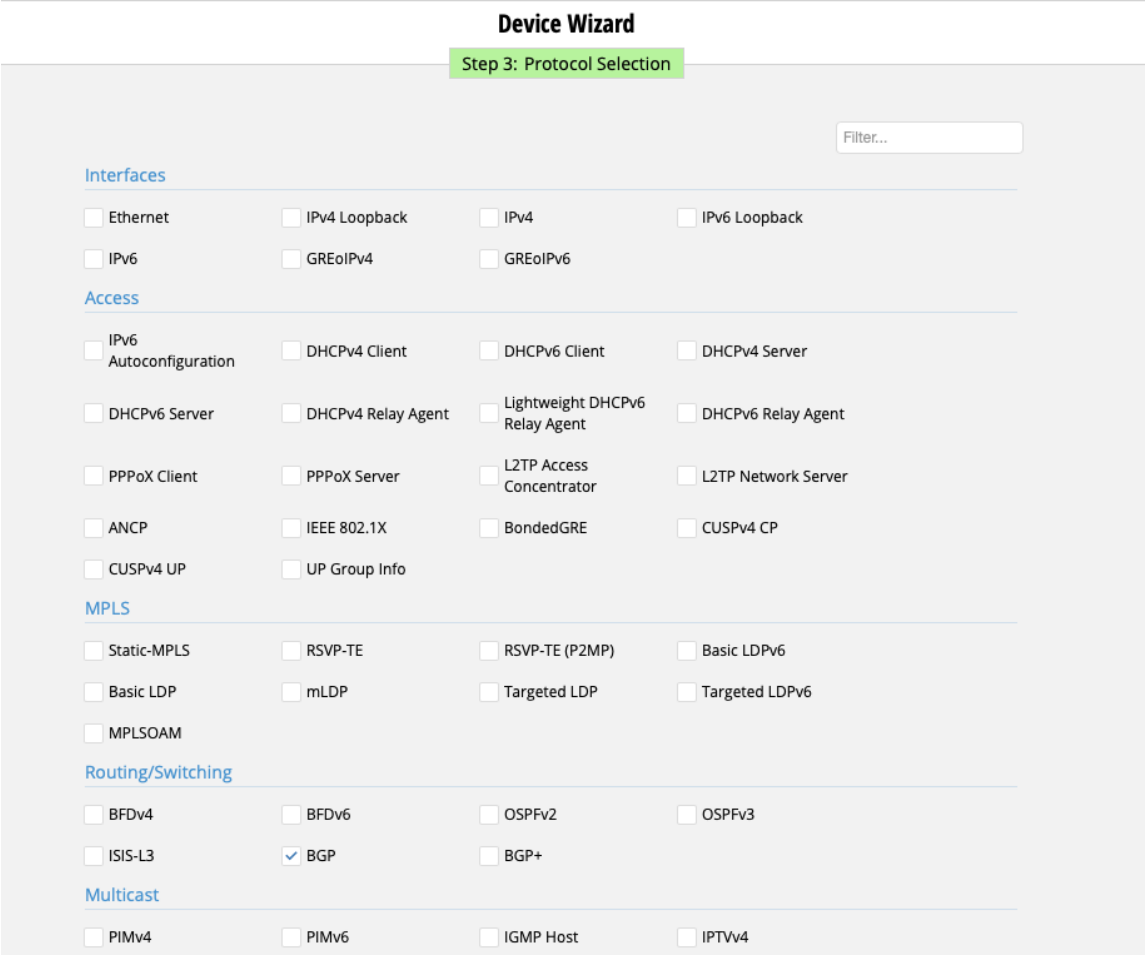

Figure 7 Protocol Selection

17. Proceed Next.
18. On the Interface Configuration Page, leave everything as default for this course. If any auto generation is turned off, we can create the addresses according to the requirement of the connectivity. Proceed to the next step.
19. Enable Summary and check the configuration summary. Once satisfied, click Finish.

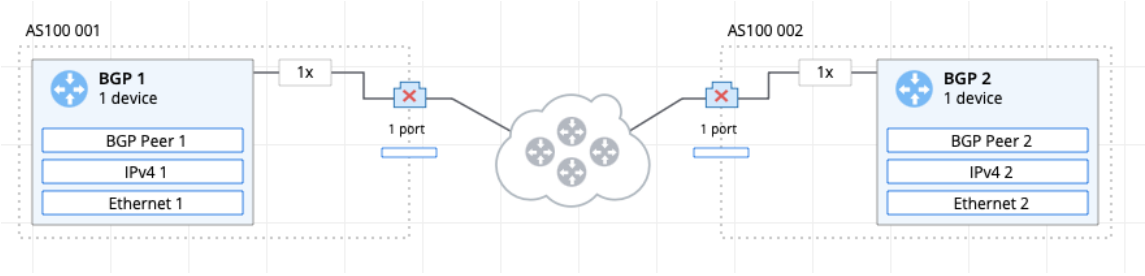

Figure 8 Creation of Topologies

Configure Connectivity

20. Now Click on IPv4 1 Layer. From the below grid set:
    a. IP Address as 10.10.10.10 and gateway as 10.10.10.20.
21. Click IPv4 2 Layer on second topology. From the below grid set:
    a. IP Address as 10.10.10.20 and gateway as 10.10.10.10.
22. Click BGP Peer 1, and from Basic Tab set DUT IP as 10.10.10.20
23. For BGP Peer 2, set DUT IP as 10.10.10.10.
24. Click on BGP Peer 1 Layer and from Learned Routes Filters enable “Filter IPv4 Unicast”. Do the same thing for BGP Peer 2.

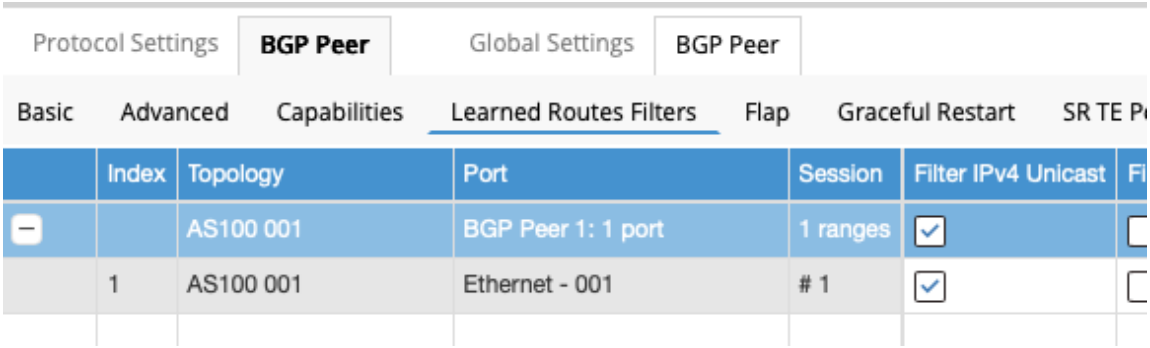

Figure 9 Enable Learned Filter

25. Select BGP Peer 1 and use Add option to add network group.

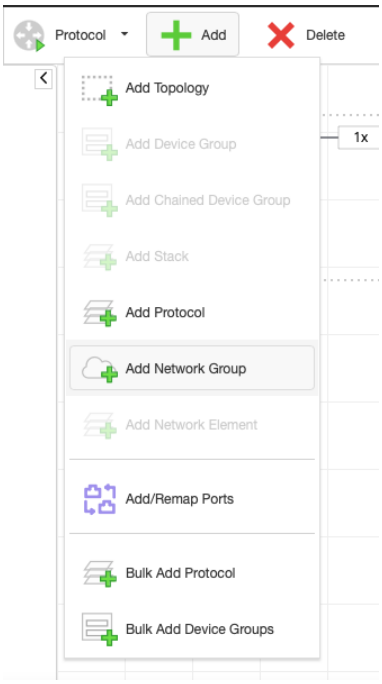

Figure 10 Adding a Network Group

26. Choose IPv4 Addresses. And select Append option to append. Do the same operation for BGP Peer 2.

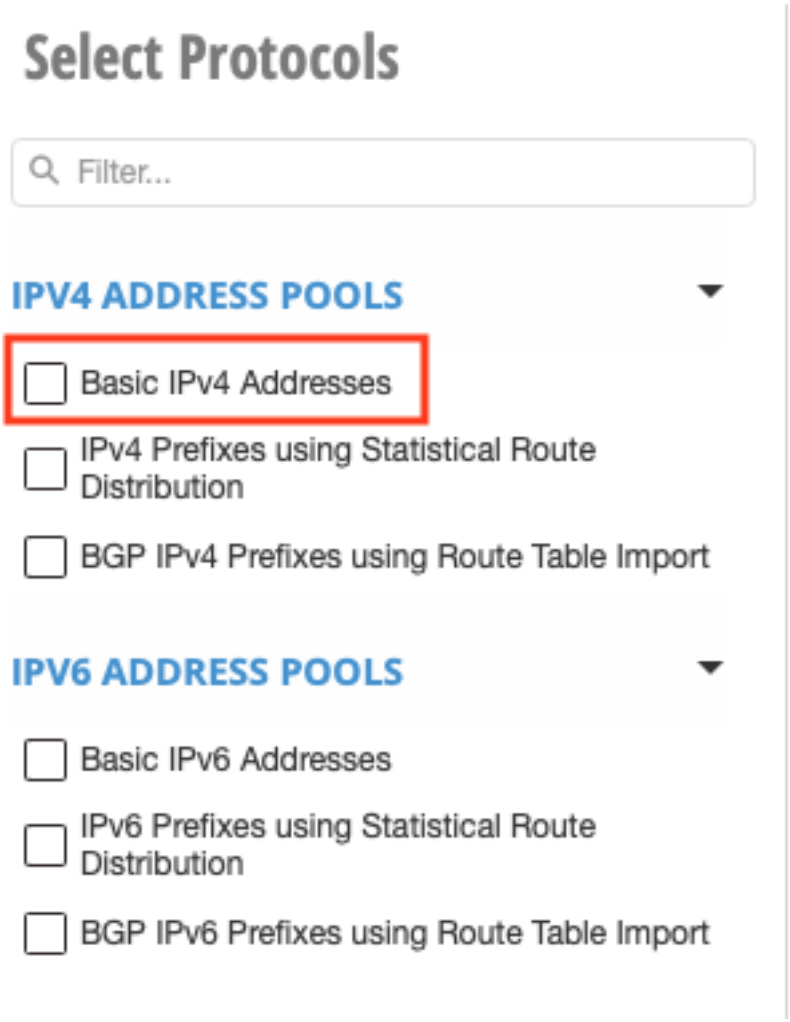

Figure 11 Basic IPv4 Addresses

27. Refer to figure 10. Choose Add/Remap ports to add ports to the topology.
28. After adding ports, connect all ports.
29. Once ports are connected Start the test from Test -> Start.
30. Protocols will come up.

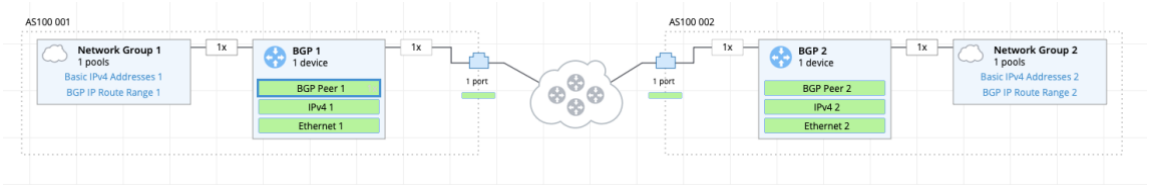

Figure 12 All Green!

Learned Information

31. Let us fetch learned information. From Action button choose the option BGP Peer Get Non-VPN Learned Info.

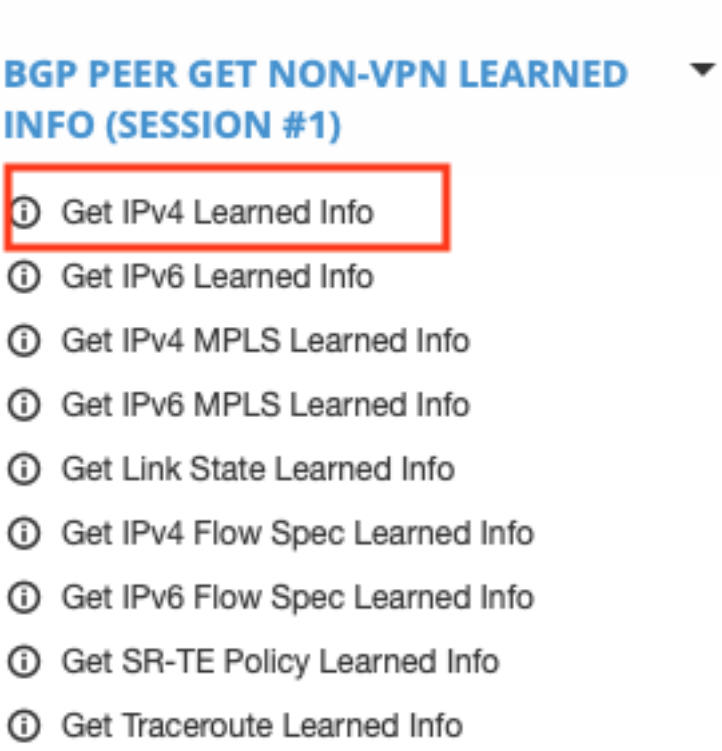

Figure 13 Fetch Learned Info

32. Following learned information will be visible.

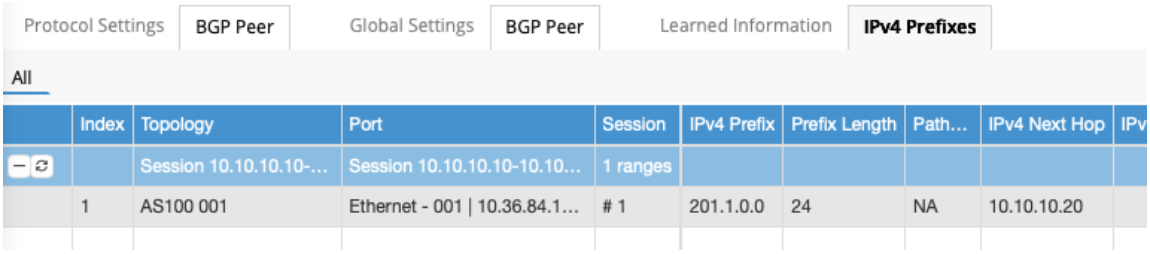

Figure 14 Learned Information on BGP Peer 1

Traffic and Stats

33. Now click on Traffic option. Following page will open. Choose Add Traffic Item.

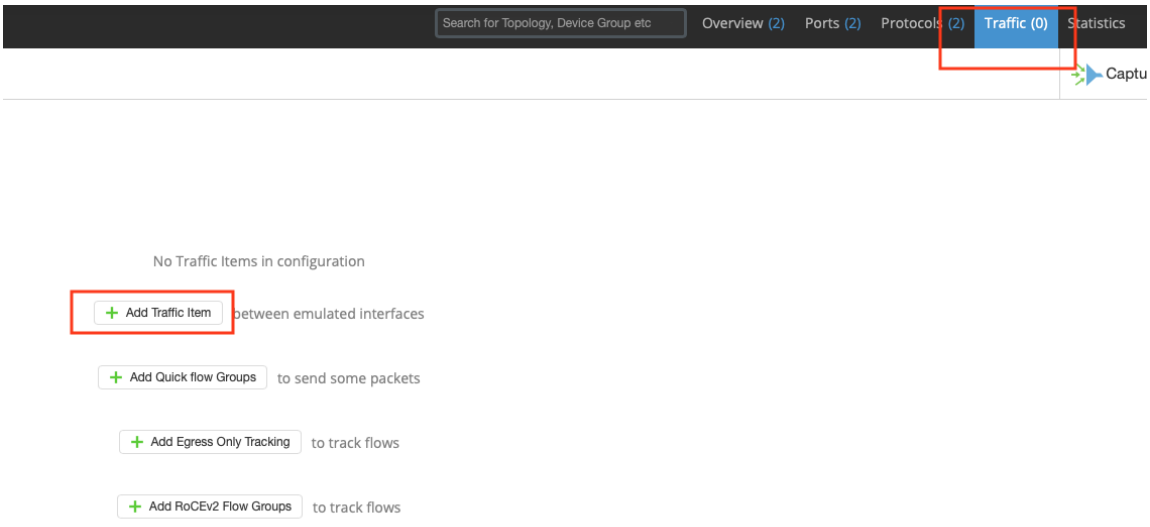

Figure 15 Traffic Addition

34. In Add Traffic page select IPv4, then chose the source end point and destination end point. Then click New Traffic Item.

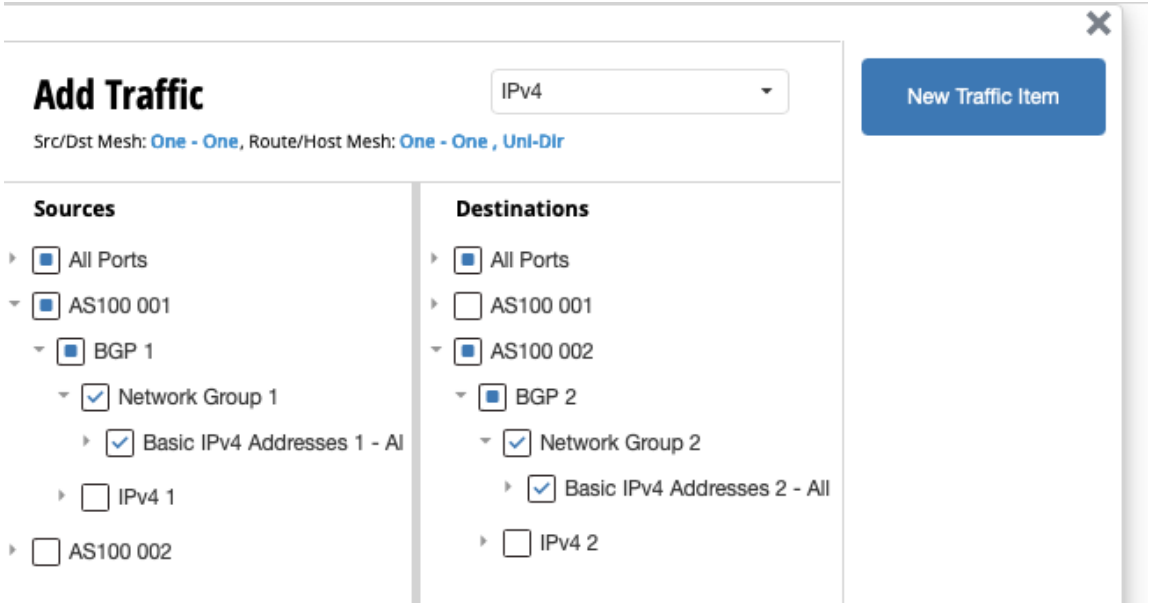

Figure 16 Endpoint Selection

35. Following Traffic Item will be created.

Figure 17 Traffic Item

36. Start traffic and check the port statistics to see the frame transfer.

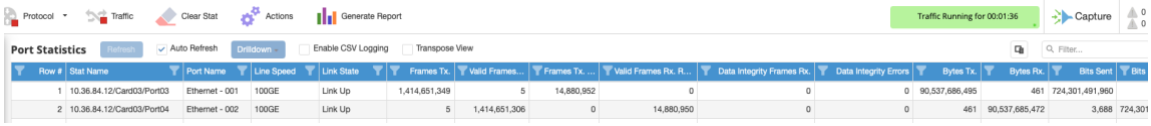

Figure 18 Port Stats

37. Stop traffic and enable tracking. Go back to traffic item and click Statistics Tracking column. Choose Dest Endpoint.

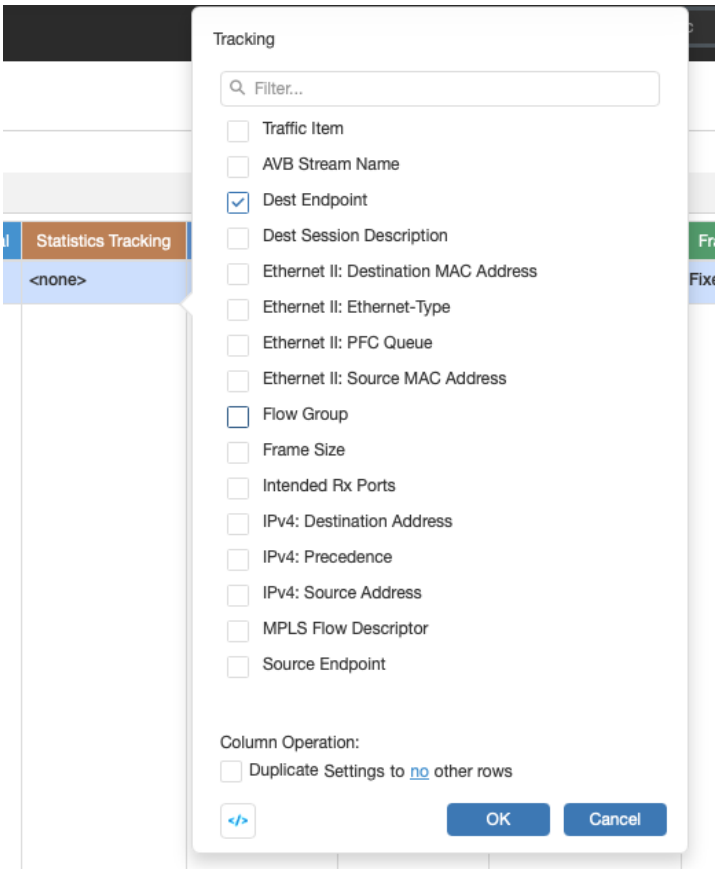

Figure 19 Enable Stats Tracking

38. Now start traffic, and from Statistics option choose Flow Statistics to check the stats.