

Designing a Network Topology with GNS3

Fundamentals of Communications and Networking, Third Edition - Lab 06

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Time on Task:

2 hours, 6 minutes

Progress:

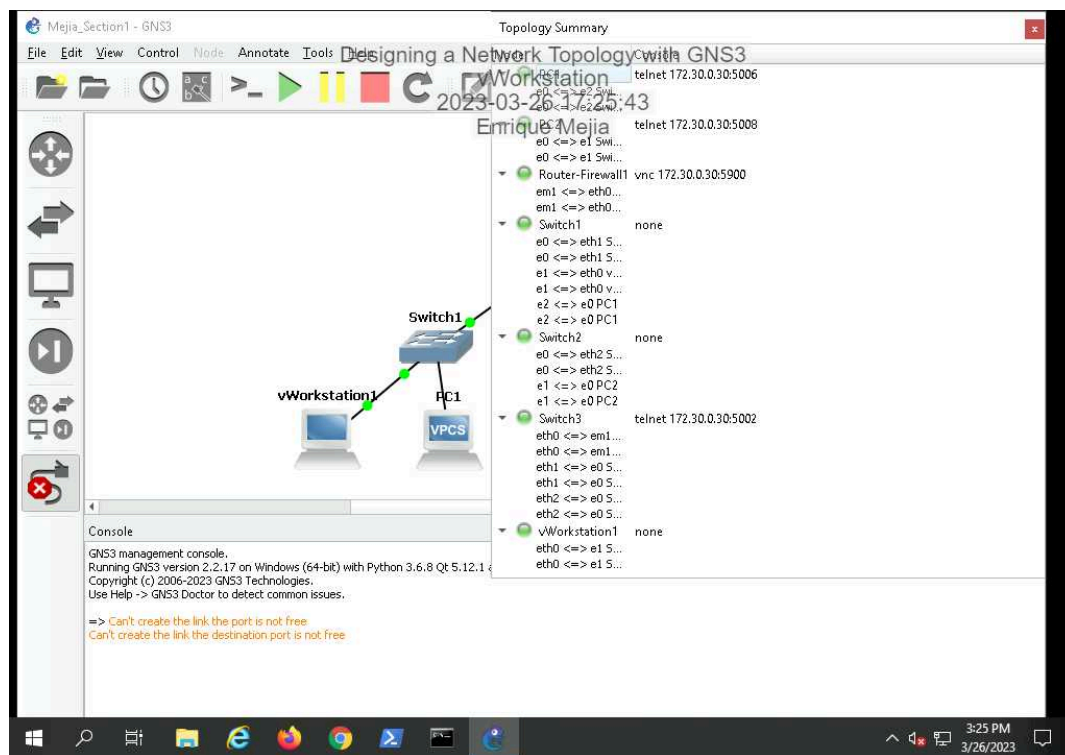
100%

Report Generated: Sunday, March 26, 2023 at 8:12 PM

Section 1: Hands-On Demonstration

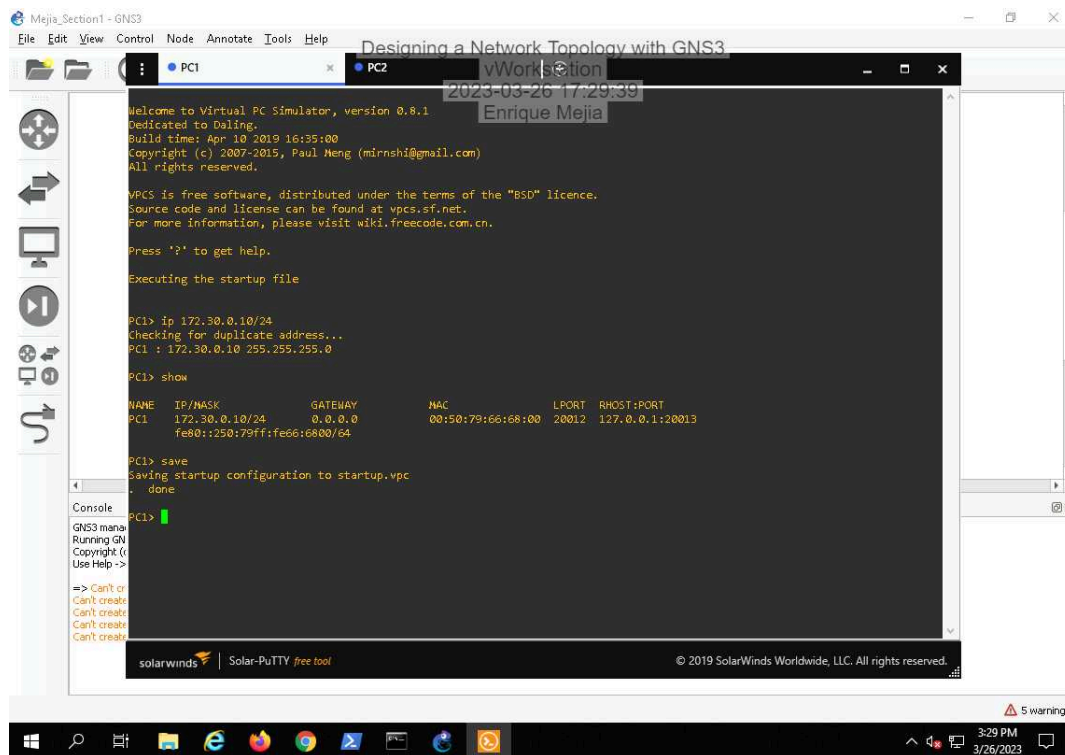
Part 1: Configure Physical Connectivity on a Layer 2 Network

25. **Make a screen capture** showing the **completed topology** and the **active nodes and interfaces displayed in the Topology Summary**.

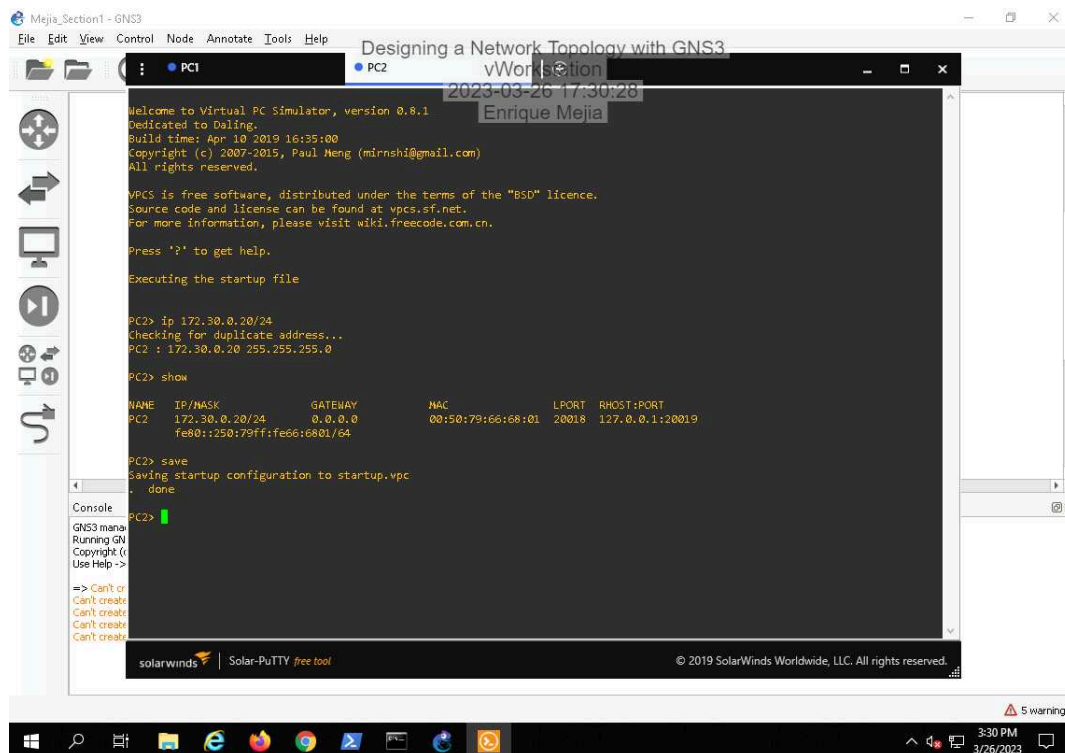


Part 2: Configure Logical Connectivity on a Layer 2 Network

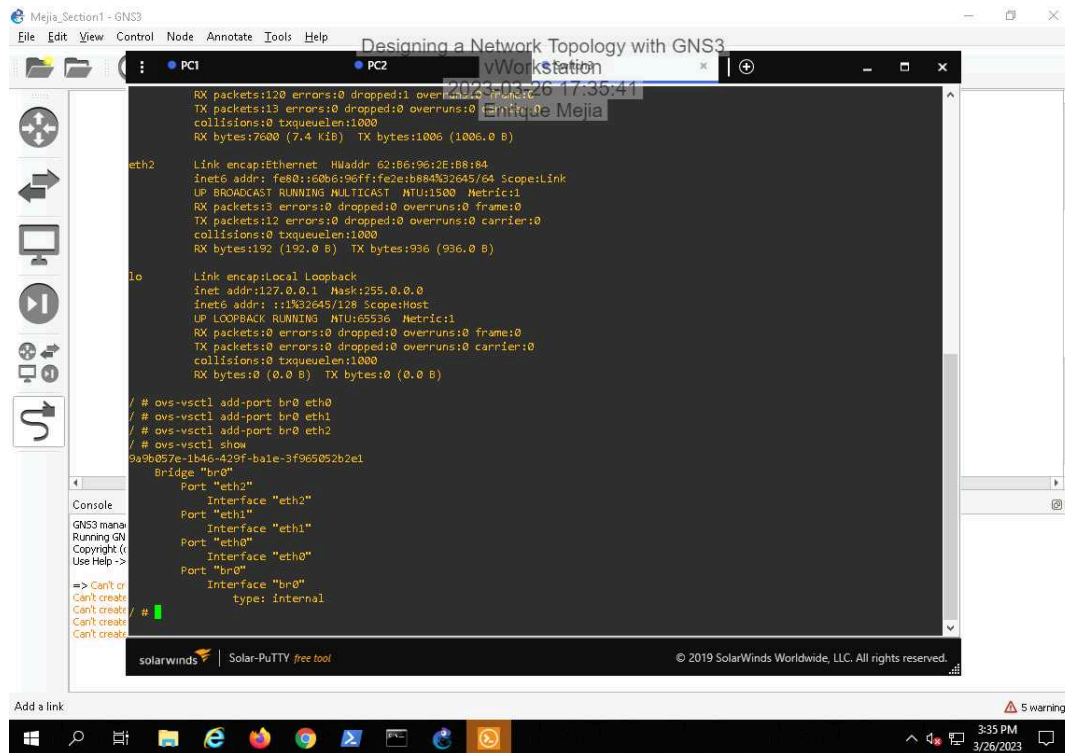
8. Make a screen capture showing the interface configuration on PC1.



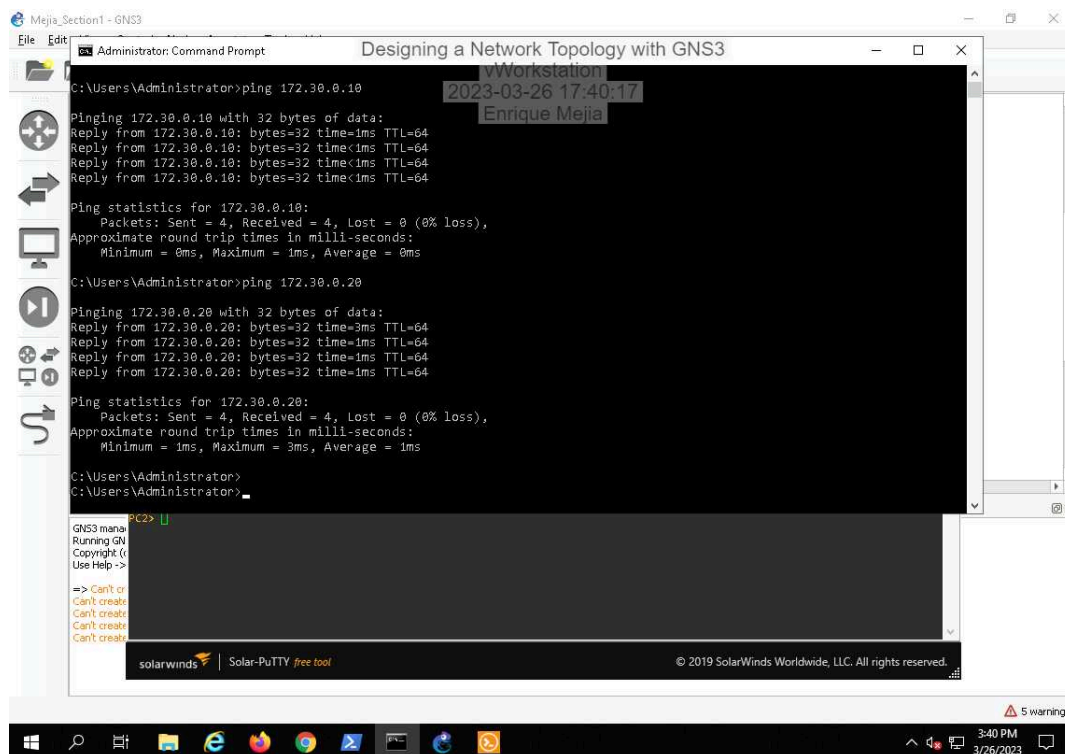
10. Make a screen capture showing the interface configuration on PC2.



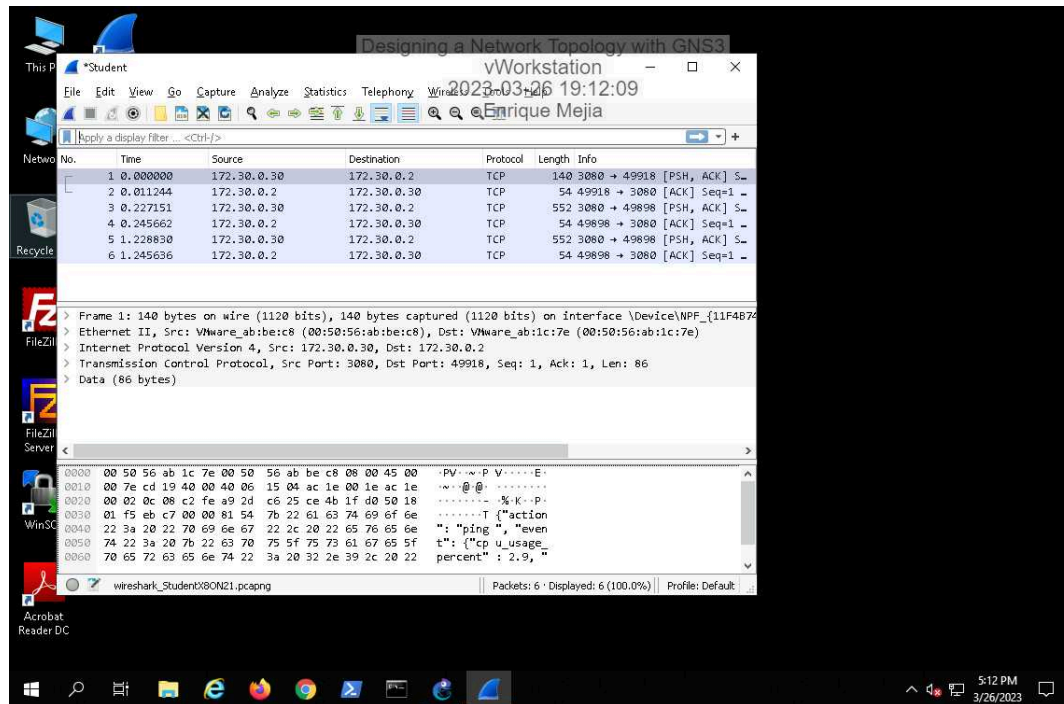
18. Make a screen capture showing the bridge configuration on Switch3.



22. Make a screen capture showing the successful replies from PC1 and PC2 in the Command Prompt window.



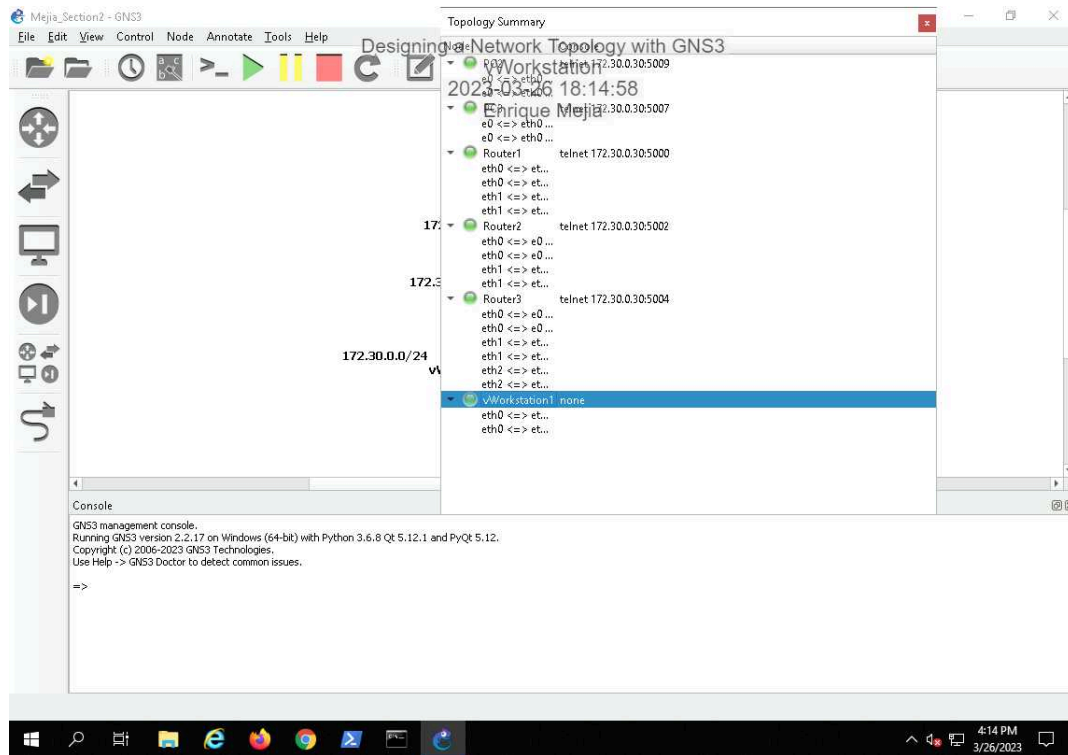
31. Make a screen capture showing the **ARP broadcast packets captured on the Switch2>PC2 link.**



Section 2: Applied Learning

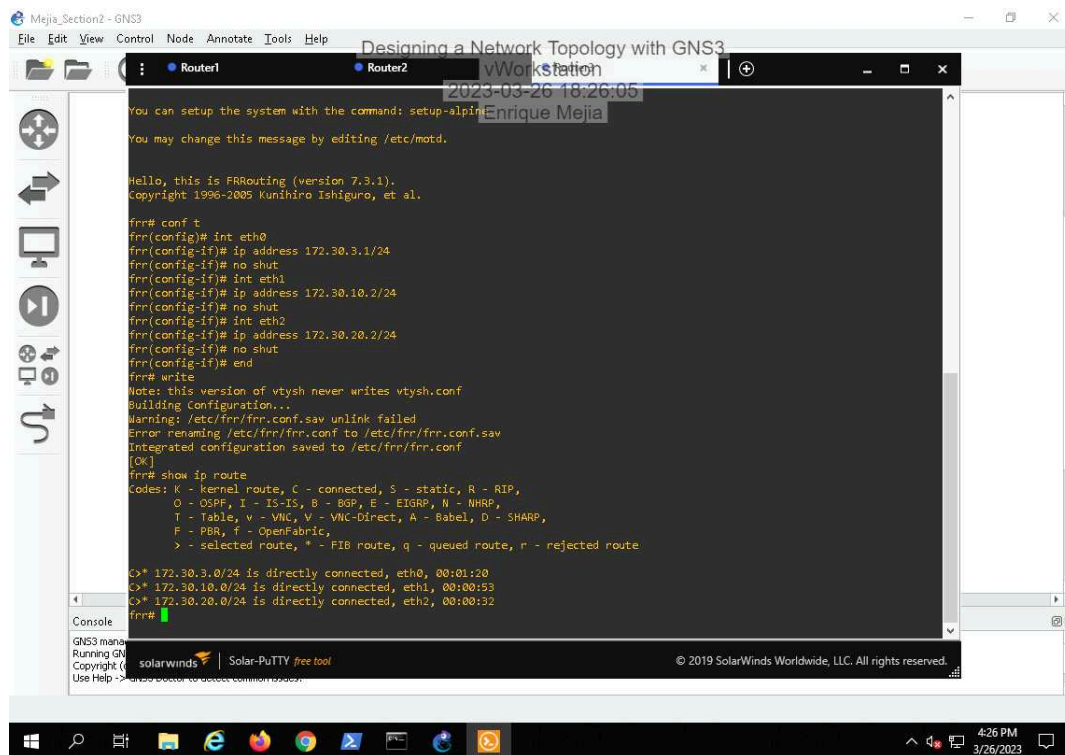
Part 1: Configure Physical Connectivity on a Layer 3 Network

16. **Make a screen capture** showing the **completed topology** in the workspace, as well as the **nodes and their links** in the **Topology Summary**.

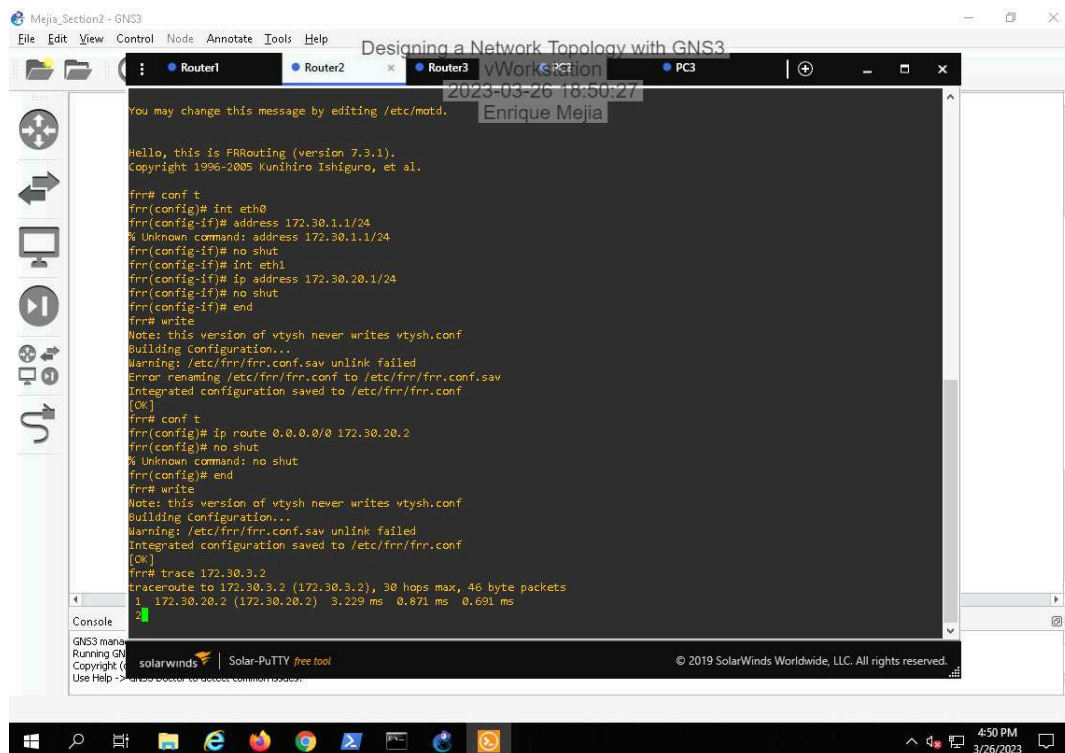


Part 2: Configure Logical Connectivity on a Layer 3 Network

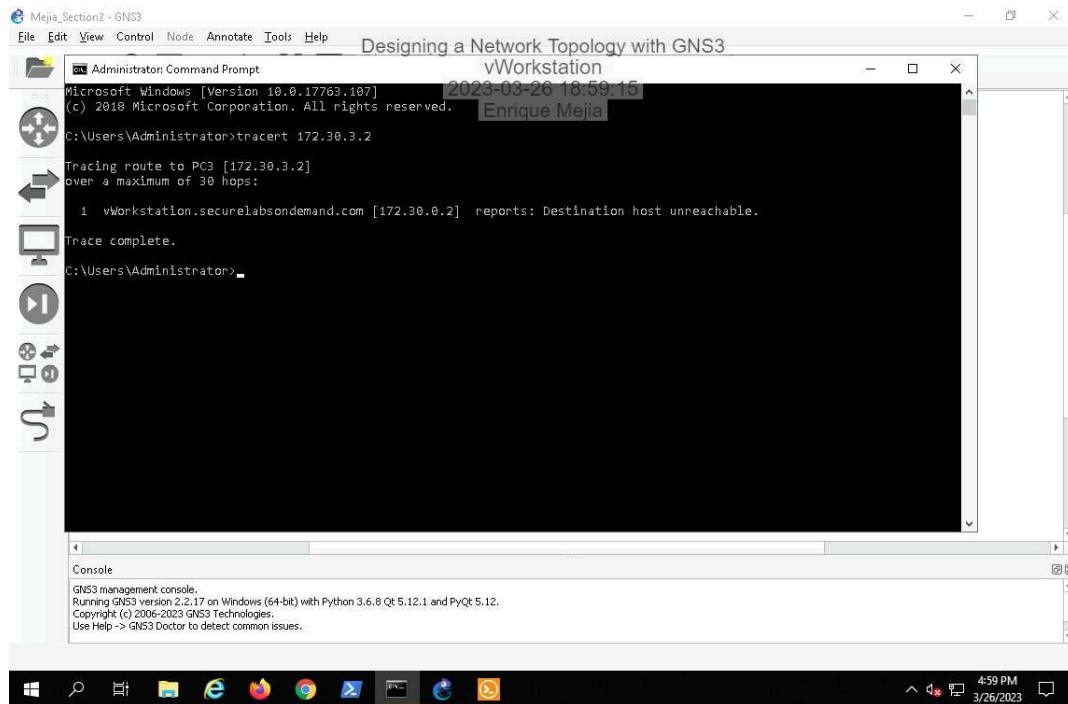
13. Make a screen capture showing the routes currently known by Router3.



26. Make a screen capture showing the traceroute attempt to the vWorkstation node.



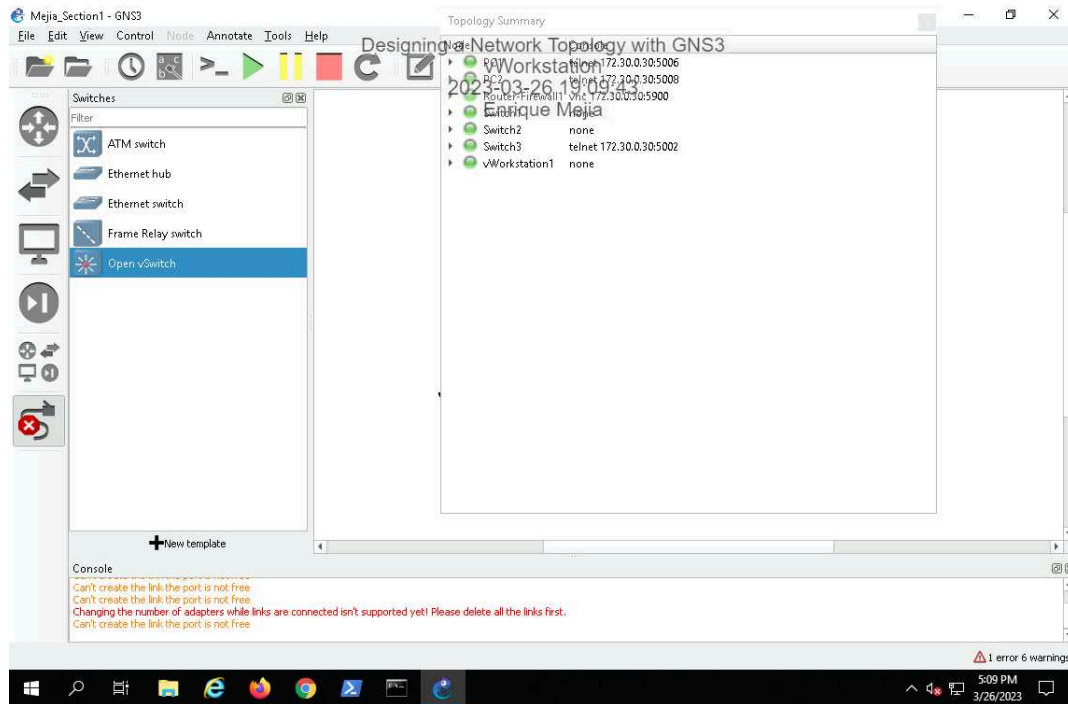
35. Make a screen capture showing the results from your traceroute executions to PC2 and PC3.



Section 3: Challenge and Analysis

Part 1: Manage Switch Ports

Make a screen capture showing **Switch3's** connections in the **Topology Summary**.

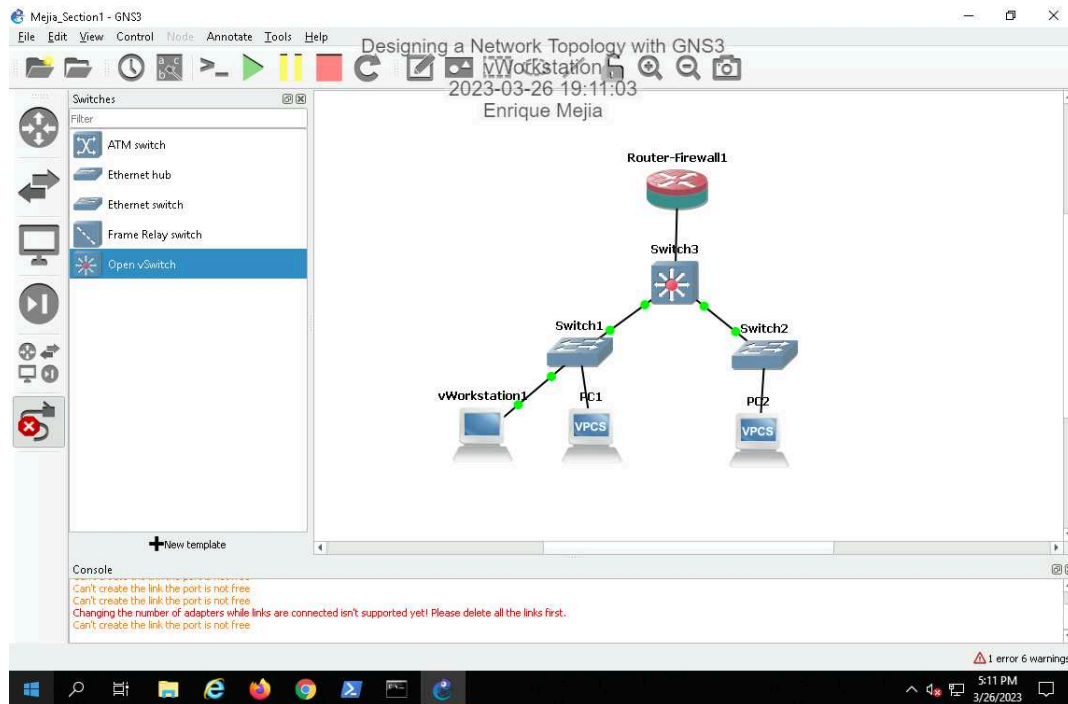


Part 2: Rearrange Ports on a Bridge

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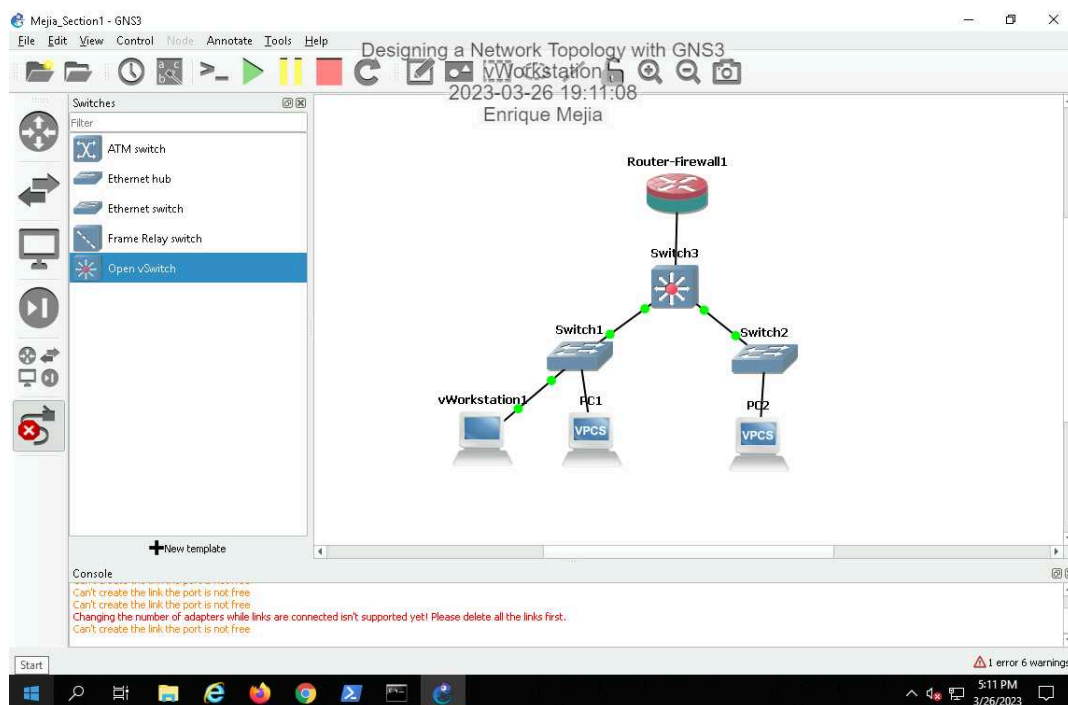
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Make a screen capture showing the current Open vSwitch bridge configuration.



Part 3: Assign an IP Address to a Managed Switch

Make a screen capture showing the successful SSH login.



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Make a screen capture showing the results of your ping.

