

**Packet Tracer – Troubleshooting Challenge**

# Addressing Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Device** | **Interface** | **IP Address / Prefix** | **Default Gateway** |
| R1  *R1*  *R1*  *R1*  *R1*  *R1*  *R1*  *R1*  *R1*  *R1*  *R1*  *R1* | G0/0  *G0/0*  *G0/0* | 172.16.1.62 /26 | N/A  *N/A*  *N/A* |
| 2001:db8:cafe::1/64 |
| fe80::1 |
| G0/1  *G0/1*  *G0/1* | 172.16.1.126 /26 | N/A  *N/A*  *N/A* |
| 2001:db8:cafe:1::1/64 |
| fe80::1 |
| G0/2  *G0/2*  *G0/2* | 172.16.1.254 /25 | N/A  *N/A*  *N/A* |
| 2001:db8:cafe:2::1/64 |
| fe80::1 |
| S0/0/1  *S0/0/1*  *S0/0/1* | 10.0.0.2 /30 | N/A  *N/A*  *N/A* |
| 2001:db8:2::1/64 |
| fe80::1 |
| Main  *Main*  *Main*  *Main*  *Main*  *Main* | S0/0/0  *S0/0/0*  *S0/0/0* | 209.165.200.226 /30 | N/A  *N/A*  *N/A* |
| 2001:db8:1::1/64 |
| fe80::2 |
| S0/0/1  *S0/0/1*  *S0/0/1* | 10.0.0.1 /30 | N/A  *N/A*  *N/A* |
| 2001:db8:2::2/64 |
| fe80::2 |
| S1 | VLAN 1 | 172.16.1.61 /26 | 172.16.1.62 |
| S2 | VLAN 1 | 172.16.1.125 /26 | 172.16.1.126 |
| S3 | VLAN 1 | 172.16.1.253 /25 | 172.16.1.254 |
| IT | NIC | 172.16.1.1 /26 | 172.16.1.62 |
| *IT* | *NIC* | 2001:db8:cafe::2/64 | fe80::1 |
| *IT* | *NIC* | fe80::2 | *fe80::1* |
| Marketing  *Marketing*  *Marketing* | NIC  *NIC*  *NIC* | 172.16.1.65 /26 | 172.16.1.126 |
| 2001:db8:cafe:1::2/64 | fe80::1 |
| fe80::2 | *fe80::1* |
| R&D | NIC | 172.16.1.129 /25 | 172.16.1.254 |
| *R&D* | *NIC* | 2001:db8:cafe:2::2/64 | fe80::1 |
| *R&D* | *NIC* | fe80::2 | *fe80::1* |

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## Packet Tracer – Troubleshooting Challenge

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** |  | **Interface** | **IP Address / Prefix** | **Default Gateway** |
| Web  *Web*  *Web* | NIC  *NIC*  *NIC* |  | 64.100.0.3 /29 | 64.100.0.1 |
| 2001:db8:acad::3/64 | fe80::1 *fe0::1* |
| fe80::2 |

**Objectives**

• Troubleshoot common issues in a LAN.

# Background / Scenario

After an update to the network, some devices were misconfigured. You must correct the configurations and verify that all the PCs can access the Web server, R1, and the switches. In addition, all PCs should be able to access R1 using SSH. You should verify connectivity for both IPv4 and IPv6 except for the switches.

# Instructions

Router R1 and all the switches have been preconfigured with the following:

* Enable password: **Ciscoenpa55**
* Console password: **Ciscoconpa55**
* Admin username and password for SSH: **Admin1/Admin1pa55** Required number of hosts per subnet:
* IT: 50 hosts
* Marketing: 50 hosts
* R&D: 100 hosts

If all configuration problems have been fixed, all devices should be able to ping each other and the web server.

*End of document*

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