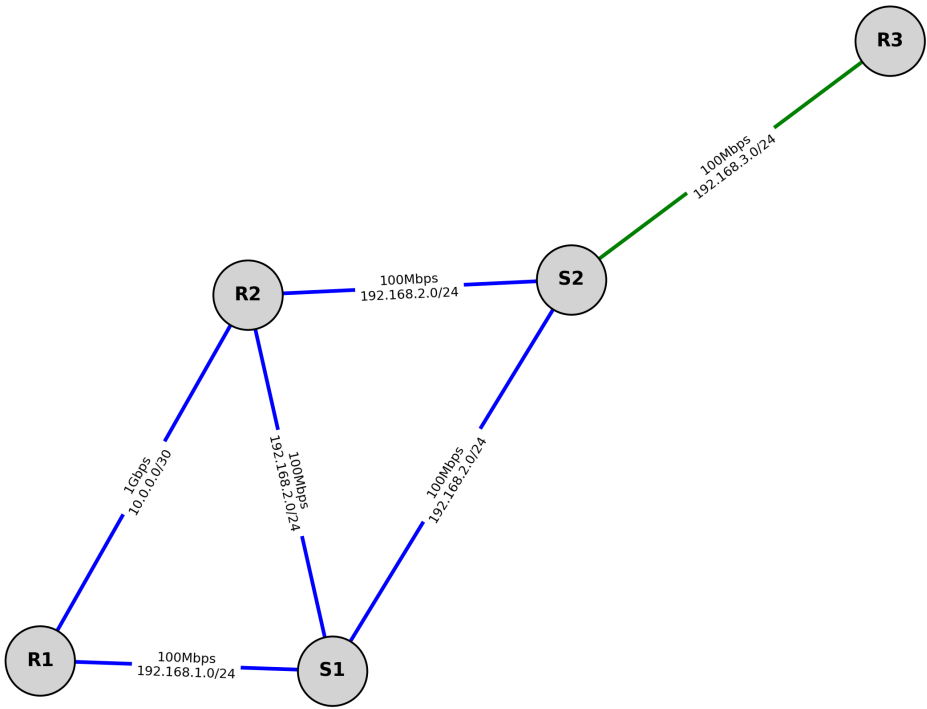# Smart Network Analysis Report

Network Topology

Validation Results

=== Duplicate IPs ===
■ No duplicate IPs found.
=== Network loops ===
■ Network loops detected: [['S1', 'R2', 'R1'], ['S1', 'S2', 'R2']]

Load Analysis

Link	Subnet	BW (Mbps)	Load (Mbps)	Util %	Status
R3-S2	192.168.3.0/24	100	91	91.0	OK
S2-S1	192.168.2.0/24	100	8	8.0	OK
S2-R2	192.168.2.0/24	100	42	42.0	OK
S1-R1	192.168.1.0/24	100	35	35.0	OK
S1-R2	192.168.2.0/24	100	104	104.0	OVERLOADED
R2-R1	10.0.0.0/30	1000	963	96.3	OK

Suggestions

Link	Alternate Path	Alt Capacity (Mbps)
S1-R2	S1 -> S2 -> R2	58