

Internold Networks CCNA Live Webclass (INCLW)

Week 5 of 8

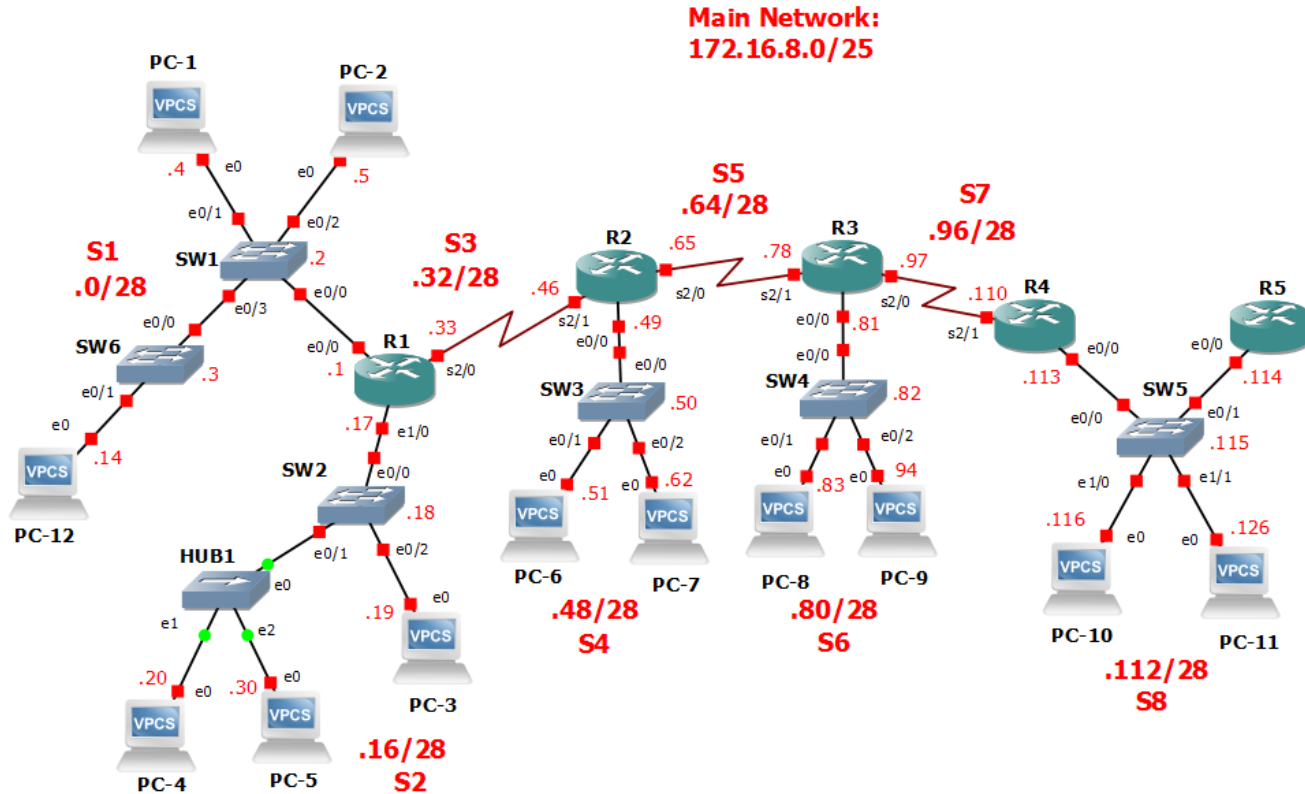


Agenda

- » Discuss Week 4 Lab Solution – LabTop v1.1
- » How To Import/Export GNS3 Projects
- » Troubleshooting Challenge – LabTop v1.2
- » RoaS and RIPv2 Configurations
- » LabTop v2.0 – Lab Activity Challenge
- » Q&A

Week 4 Lab Challenge using LabTop v1.1

INCLW LAB Topology v1.1

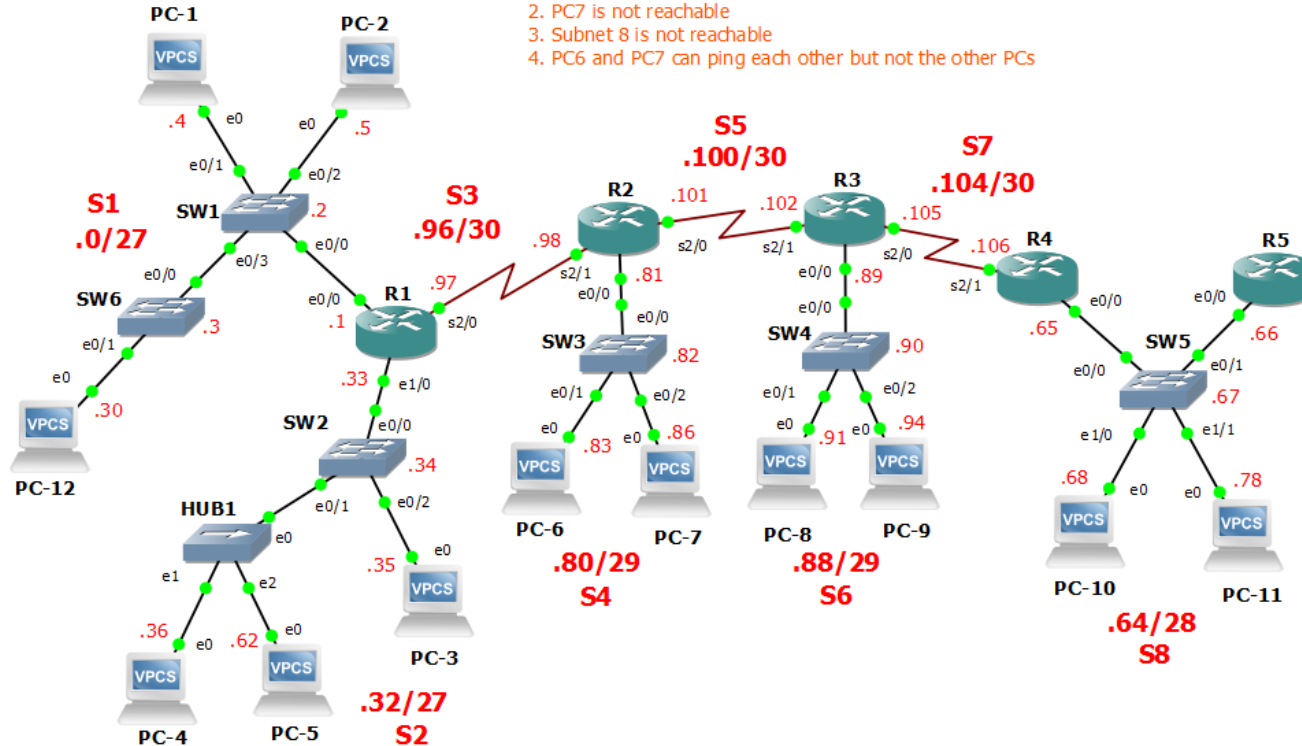


Troubleshooting Challenge using LabTop v1.2

INCLW LAB Topology v1.2

Main Network:
172.16.8.0/25

1. PC3 is not reachable
2. PC7 is not reachable
3. Subnet 8 is not reachable
4. PC6 and PC7 can ping each other but not the other PCs



Broadcast Domain Review

- » Each Switch is one Broadcast Domain by Default
 - Default VLAN is VLAN1
- » Each Interface of a Router is a Broadcast Domain
- » Each VLAN is one Broadcast Domain
- » Each Broadcast Domain requires one Subnet/Network Address



» A Layer 3 Device is needed for VLANs to communicate

- Router with Access Links
- Router On A Stick (RoaS)
- Layer 3 Switch (SVI)

Routing Protocols

» Static Routing

» Dynamic Routing

- Category:
 - Interior Gateway Protocols (IGPs)
 - RIP, OSPF, EIGRP
 - Exterior Gateway Protocols (EGPs)
 - BGP
- Type:
 - Distance Vector
 - Link-State



Configuring RIPv2

» Configuration:

- R1(config)#router rip
- R1(config-router)#version 2
- R1(config-router)#no auto-summary
- R1(config-router)#network <subnet id1>
- R1(config-router)#network <subnet id2>



Configuring RIPv2

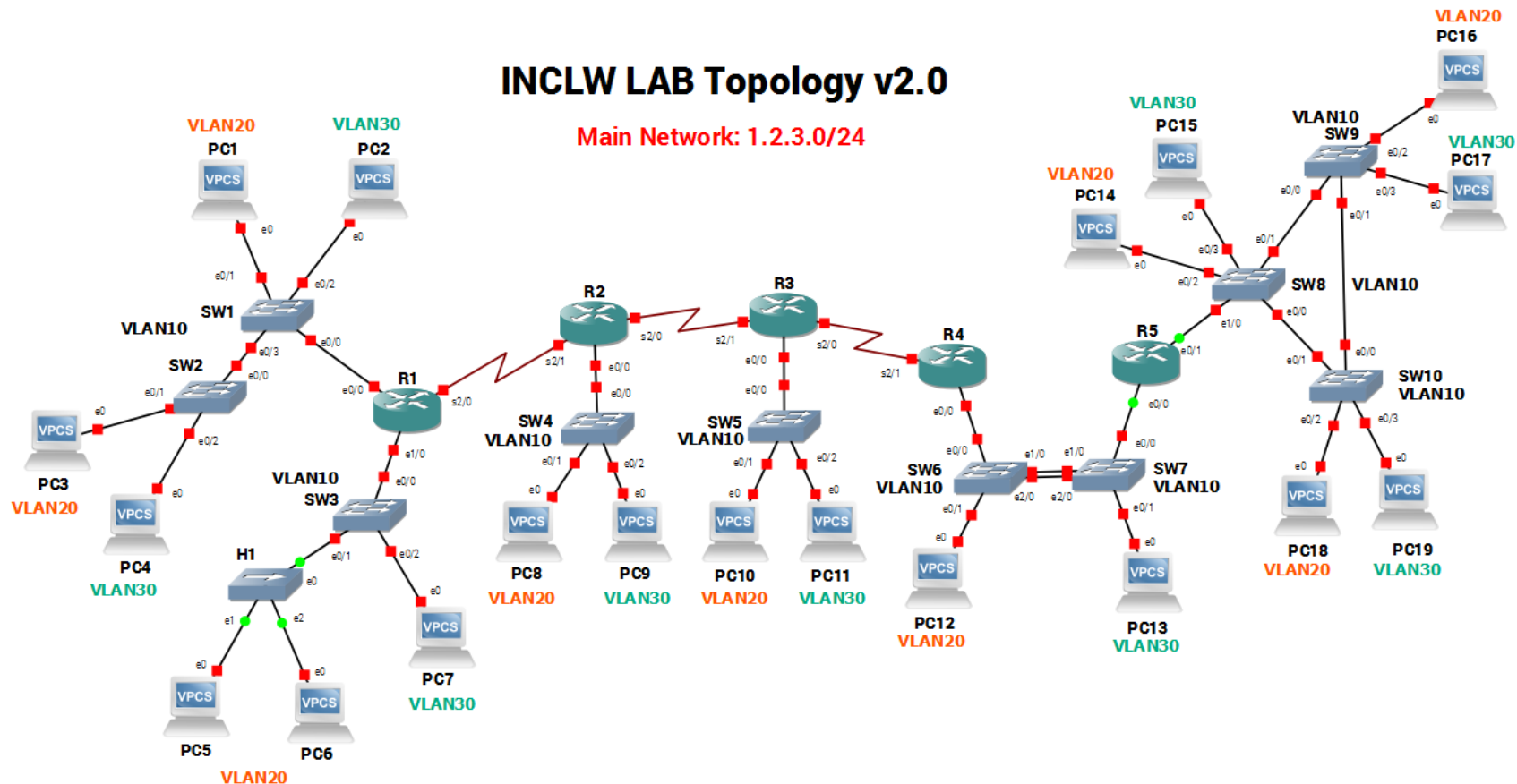
» Verification

- R1# show ip route
- R1# show ip protocols
- R1# show run | section router rip



INCLW LAB Topology v2.0

Main Network: 1.2.3.0/24



LabTop v2.0 :: Addressing Scheme

			VL10	VL20	VL30
1.2.3.0/24	→ 0/27	S1	0/28	16/29	24/29
	32/27	S2	32/28	48/29	56/29
	64/27	S4	64/28	80/29	88/29
	96/27	S6	96/28	112/29	120/29
	128/27	S8	128/28	144/29	152/29
	160/27	S9	160/28	176/29	184/29
	192/27	→ 192/30	S3		
	224/27	196/30	S5		
		200/30	S7		
			⋮		

Questions?

Q&A

Week 5 Focus

» Lab Activities

- Troubleshooting Challenge
- LabTop v2.0

» Practice Quizzes



Thank You

... for the opportunity to share.