

University Network

Submission date 27/4/2025

Group 9

Bushra Mohammad Alotaibi

Course: Computer Networks – CSCE353

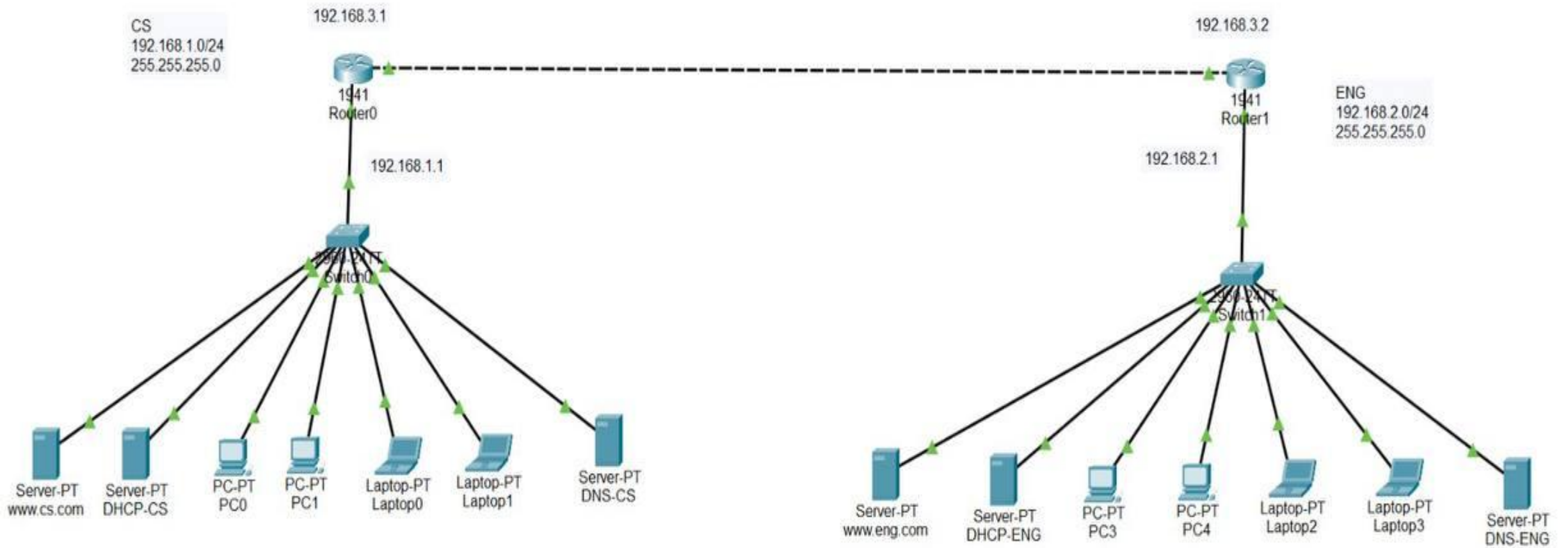
Section: 351

Instructor: Ghadah Alateeq

Project Objectives:







The objective of this project is to design and implement a robust **university network infrastructure** that ensures seamless communication, security, and efficient resource management. This network will support students, faculty, and administrative staff by providing reliable connectivity and essential network services.

- 1- Scalable Design:** Build a structured network that efficiently connects all university units.
- 2- Interdepartmental Communication:** Ensure secure and smooth communication across faculties and offices.
- 3- Centralized Services:** Deploy core services (DNS, DHCP, Email, Web) centrally for better management.
- 4- Secure Internet Access:** Provide reliable and protected internet connectivity campus-wide.
- 5- Performance & Reliability:** Optimize performance and reduce failure risks through proper routing and switching.
- 6- Future-Proofing:** Design with flexibility to support future expansions and technologies.
- 7- VLAN Implementation:** Segment the network using VLANs to enhance security and manage traffic.
- 8- Resource Sharing:** Enable shared access to devices and services among authorized users.



 Realtime

 Simulation

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	Laptop3	ICMP		0.000	N	0	(edit)	(delete)
	Successful	Laptop1	PC3	ICMP		0.000	N	1	(edit)	(delete)
	Successful	DHC...	DHCP-ENG	ICMP		0.000	N	2	(edit)	(delete)



PC4

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The background is a light blue gradient with various abstract elements. There are several spheres of different sizes in shades of blue and purple. Some are solid, while others have a gradient. There are also larger, more complex organic shapes in the same color palette, particularly towards the bottom. The overall aesthetic is clean and modern.

Thank You