DNS & WEB SERVER CONFIGURATION

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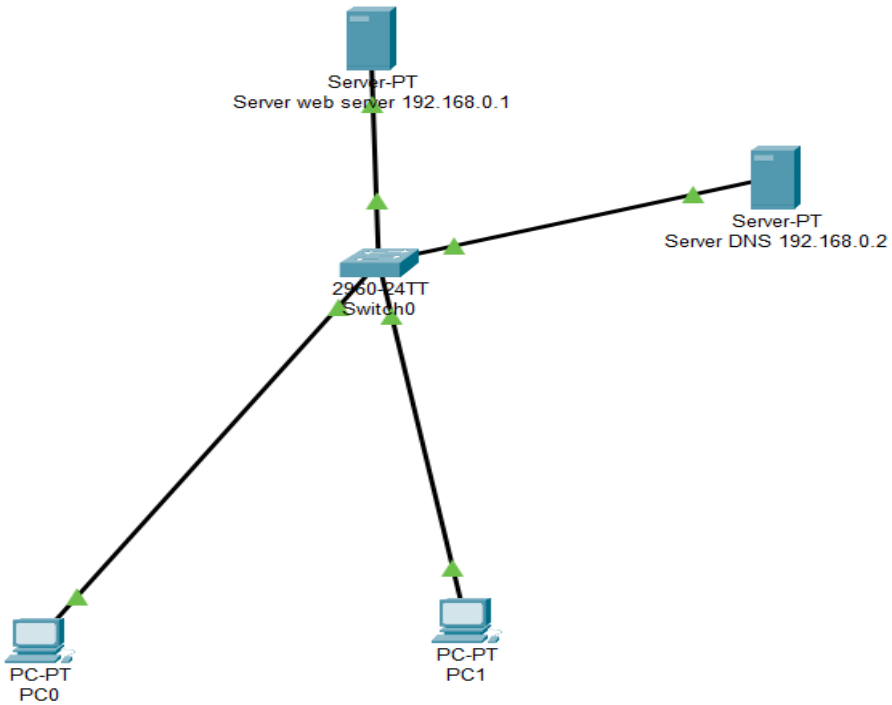
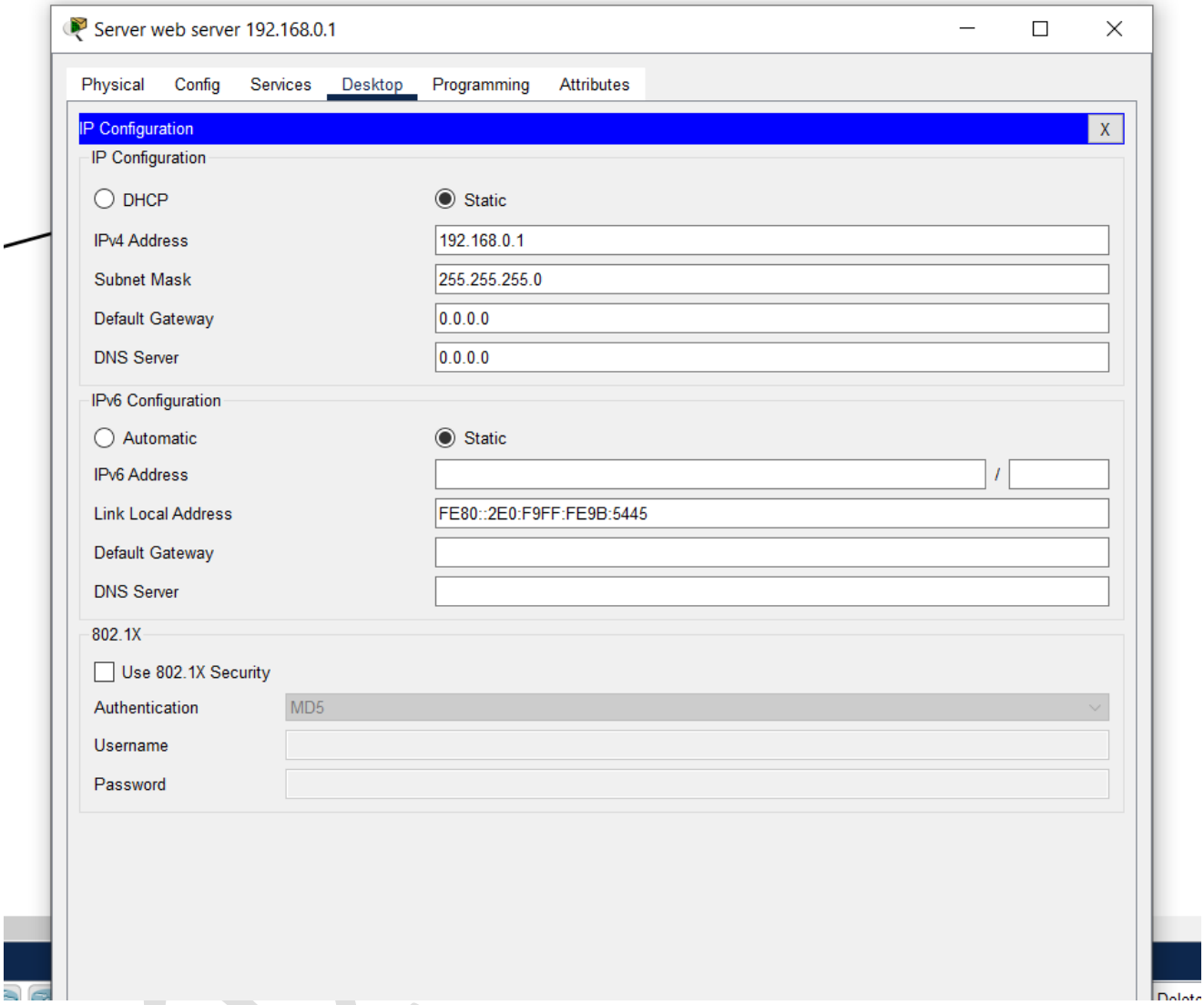
Abstract

This project explores the configuration of essential network services, specifically a web server and a DHCP server, within a simulated network environment using Cisco Packet Tracer. The primary objective is to demonstrate the practical implementation of these services and their interaction. The configuration of the web server includes setting up a basic website with HTML content and making it accessible via HTTP. The DHCP server configuration involves defining an IP address pool, subnet mask, default gateway, and DNS server address for automatic client IP address assignment. This abstract highlights the key steps involved in configuring both servers, including IP addressing, service activation, and client connectivity testing. The successful implementation of this project provides a hands-on understanding of network service deployment and the fundamental principles of client-server communication.

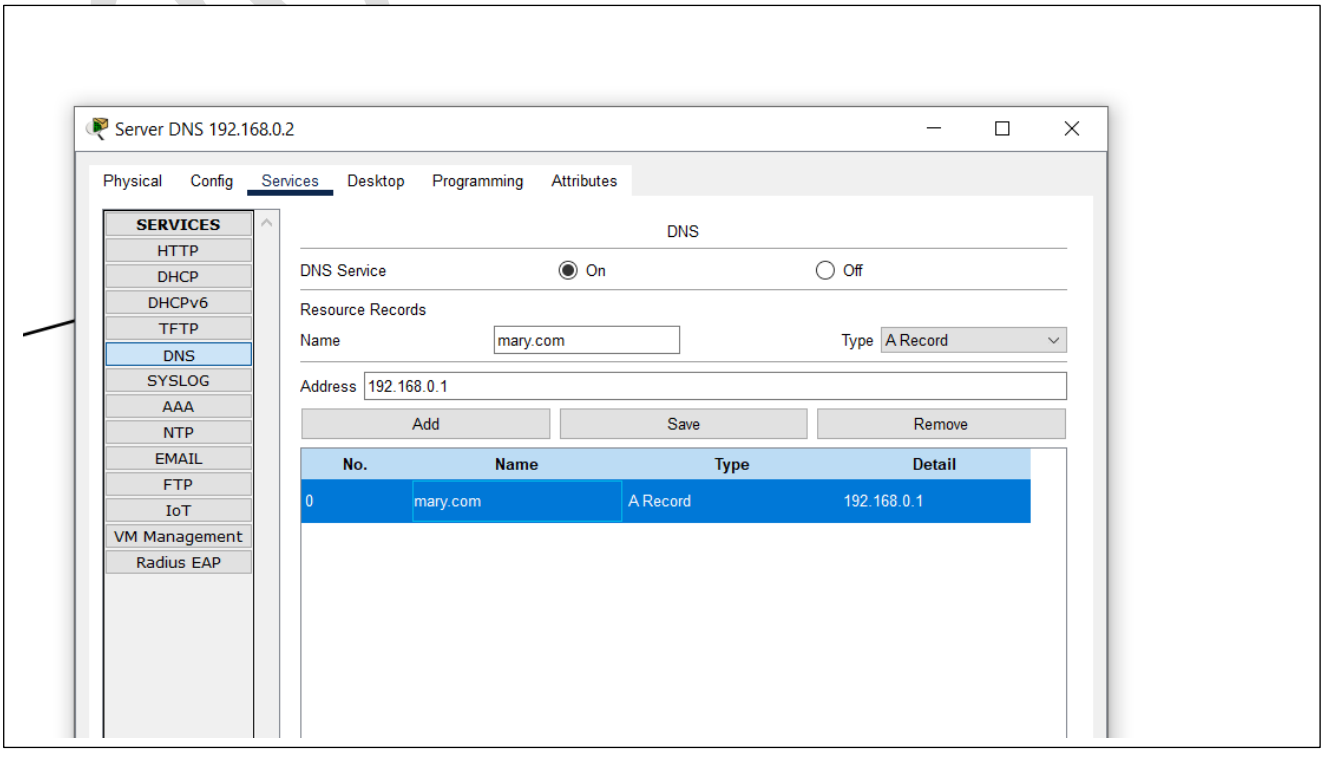
Steps:



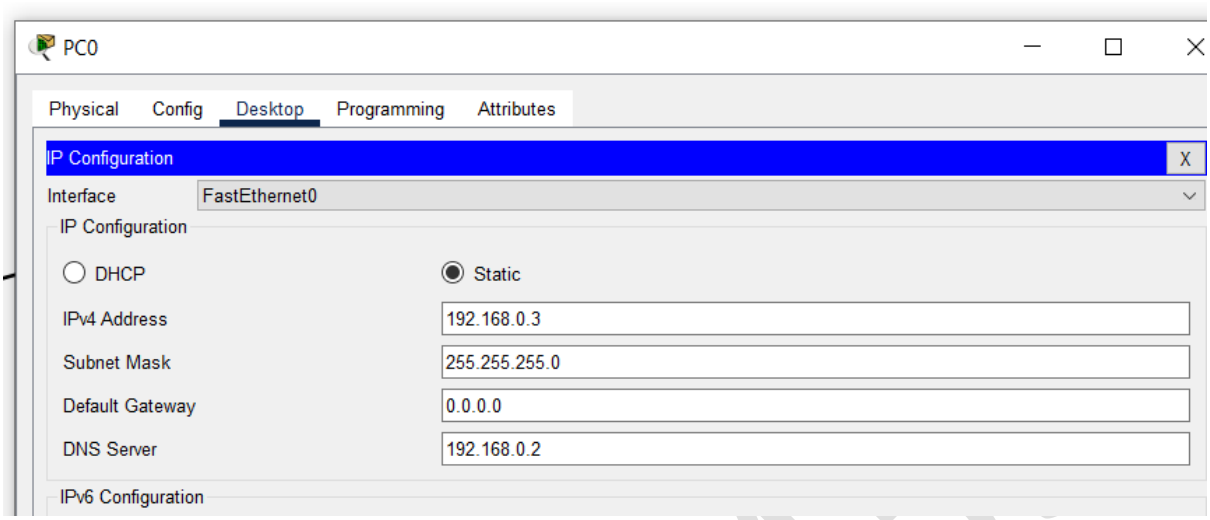
Step 2:configure the server

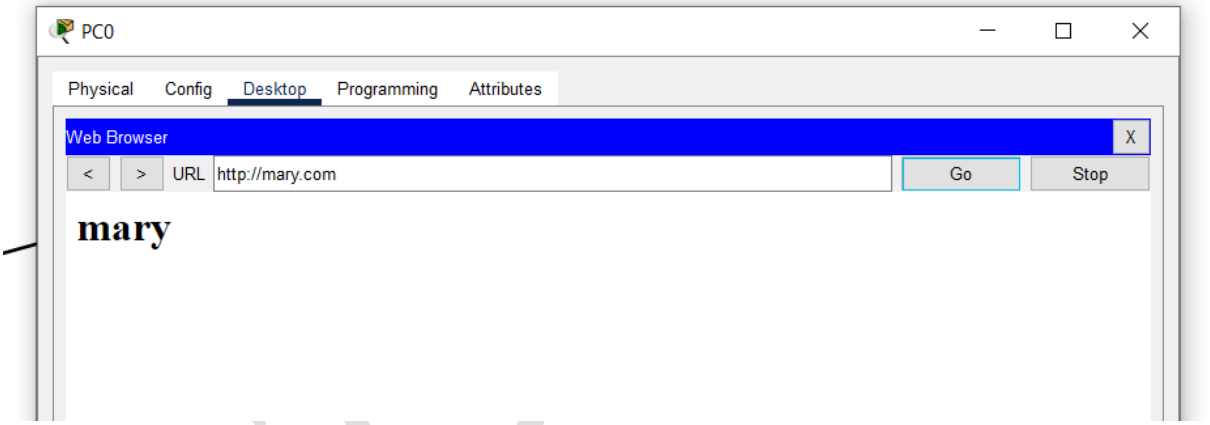


Step 3:configure thedns server and switch on the dns service



Step4:now go to computer and give ip address of the computer and dns server ip address.Go to web browser in computer and search for the web page.





Significance

The configuration of web and DHCP servers is fundamental to modern networking. Web servers provide the platform for hosting websites and web applications, enabling information sharing and online services. Understanding their configuration is crucial for anyone involved in web development, network administration, or cybersecurity. DHCP servers automate IP address assignment, simplifying network management and preventing IP conflicts. This is essential in both small and large networks, ensuring seamless connectivity for numerous devices. Learning to configure these services in a simulated environment like Cisco Packet Tracer provides a safe and practical way to grasp core networking concepts, including IP addressing, DNS resolution, and client-server interaction. This knowledge is highly relevant in today's interconnected world, where web services and network efficiency are paramount. Mastering these skills is a valuable asset for aspiring network engineers and IT professionals.

Thank you