

A Project Report on

College Network Scenario Implementation by using Cisco Packet Tracer

Submitted by

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in

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CERTIFICATE

This is to certify that the project entitled “College Network Scenario Implementation by using Cisco Packet Tracer” is a bonafide work of “ **Hiteshree Panchal (27) , Riddhi Pandya (28) , Neha Parepalli (30) , Anuja Patel (31)** ” submitted to the University of Mumbai in partial fulfillment of the course requirement for the award of the degree of **Bachelor of Engineering in Electronics and Telecommunication Engineering**.

Internal Examiner

1.Introduction

This College Network Scenario is about designing a topology of a network that is a LAN (Local Area Network) for a College in which various computers of different departments are set up so that they can interact and communicate with each other by interchanging data. To design a networking scenario for a college which connect various departments to each other's, it puts forward communication among different departments.

1.1 Methodology

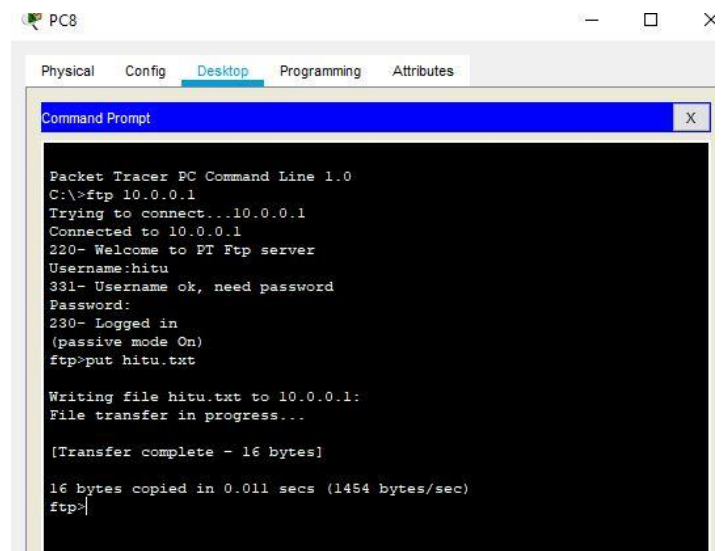
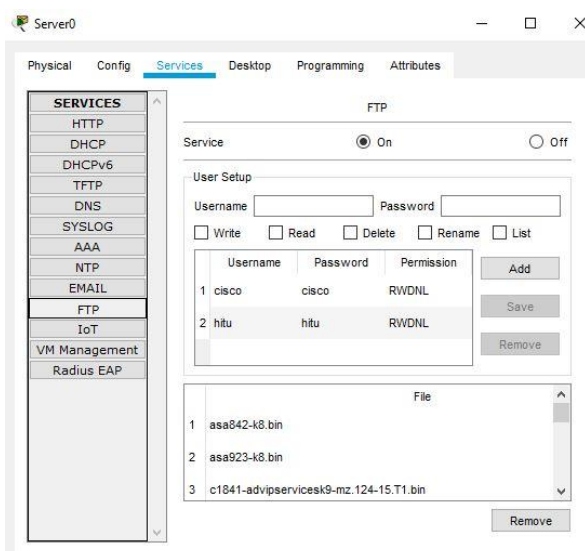
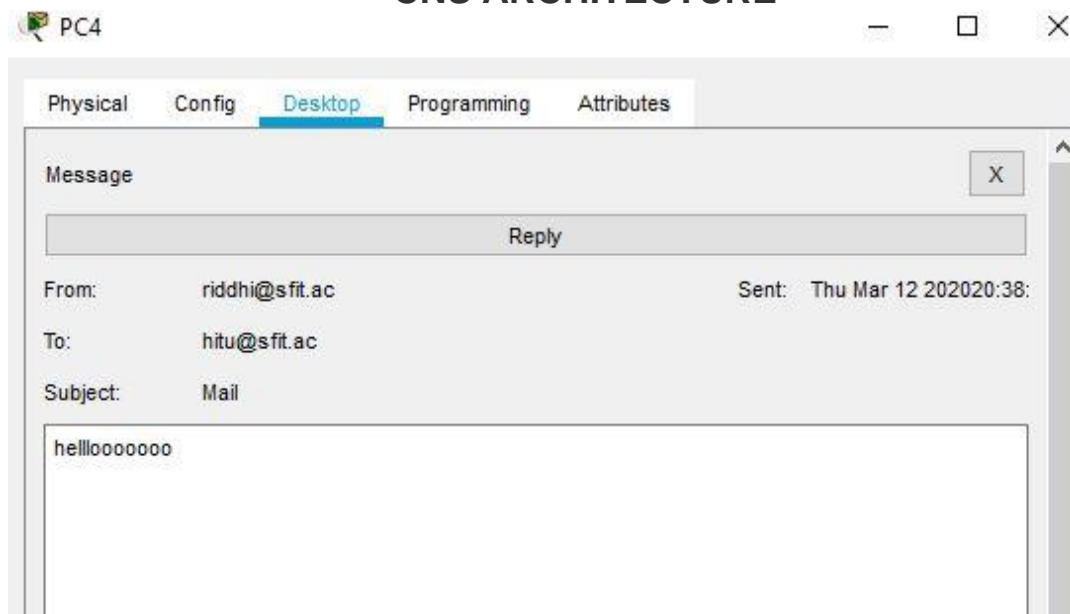
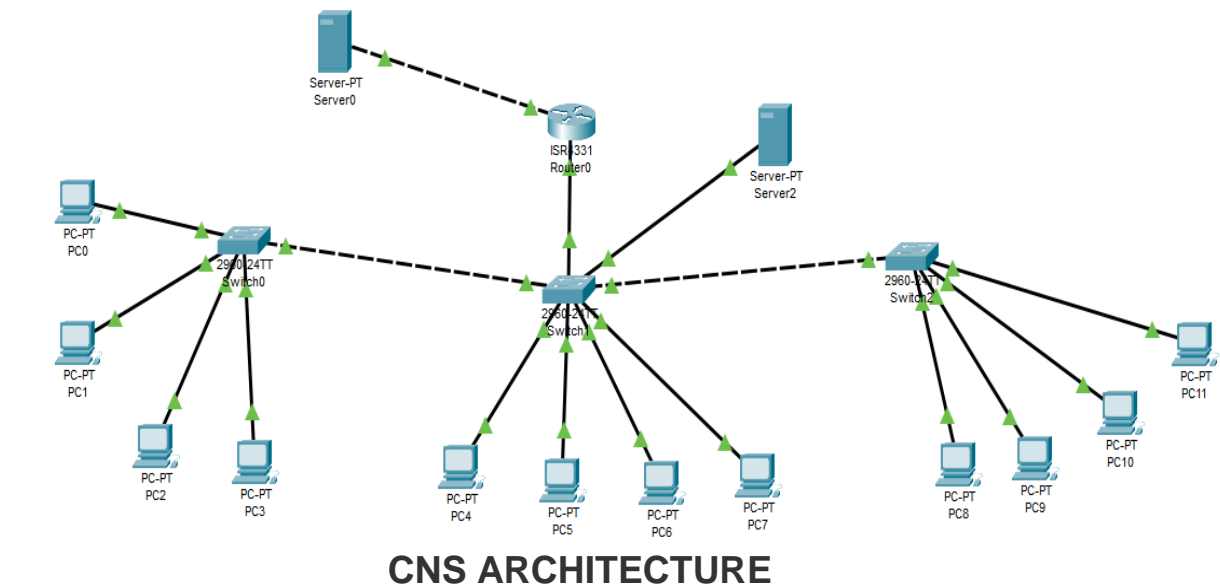
CNS is used to design a systematic and well planned topology, satisfying all the necessities of the college (i.e. client). CNS come up with a network with good performance. CNS is also providing security and authentication to forbid unauthorized logins.

2. Design Methodology

2.1. Working:

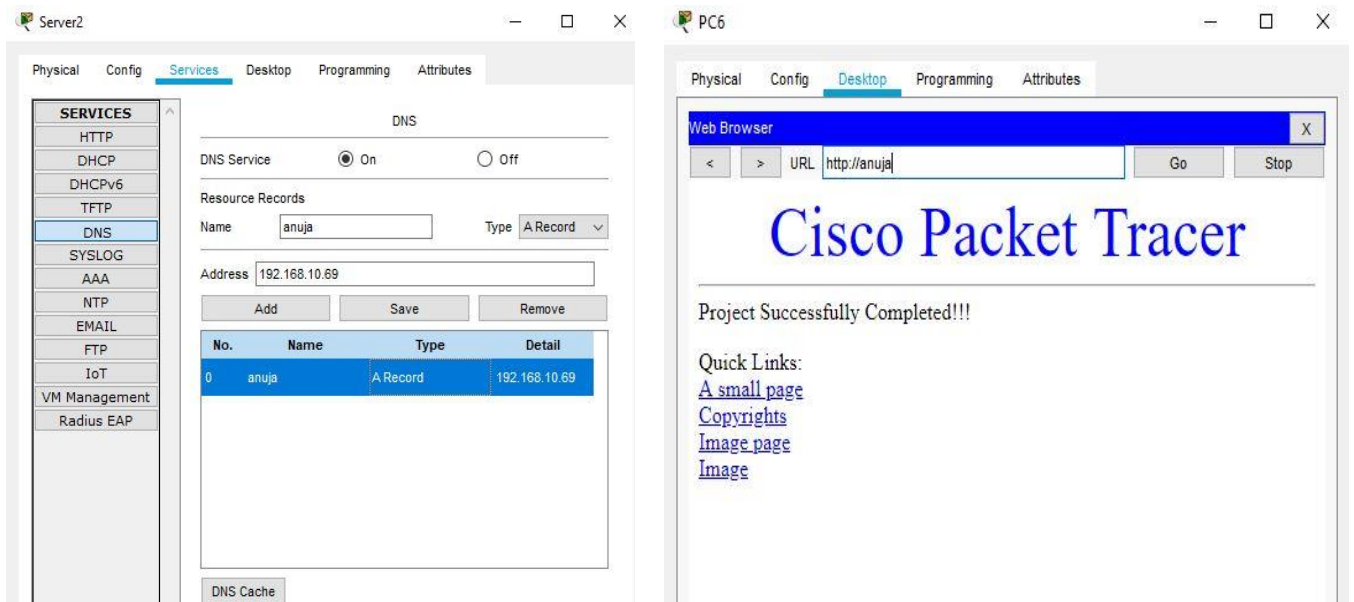
The job of College's Networking Scenario is to provide a systematic, secure, valid, dependable communication among different departments. The work is done keeping in mind the complexity and cost factor. Various departments can simply divide the required data without any problem and can exchange their data without going to them physically, for example like a phone call, thus conserving energy and time. The server used in network serves as DNS, DHCP, EMAIL and FTP server to perform its respective functions.

3. Experimental Results

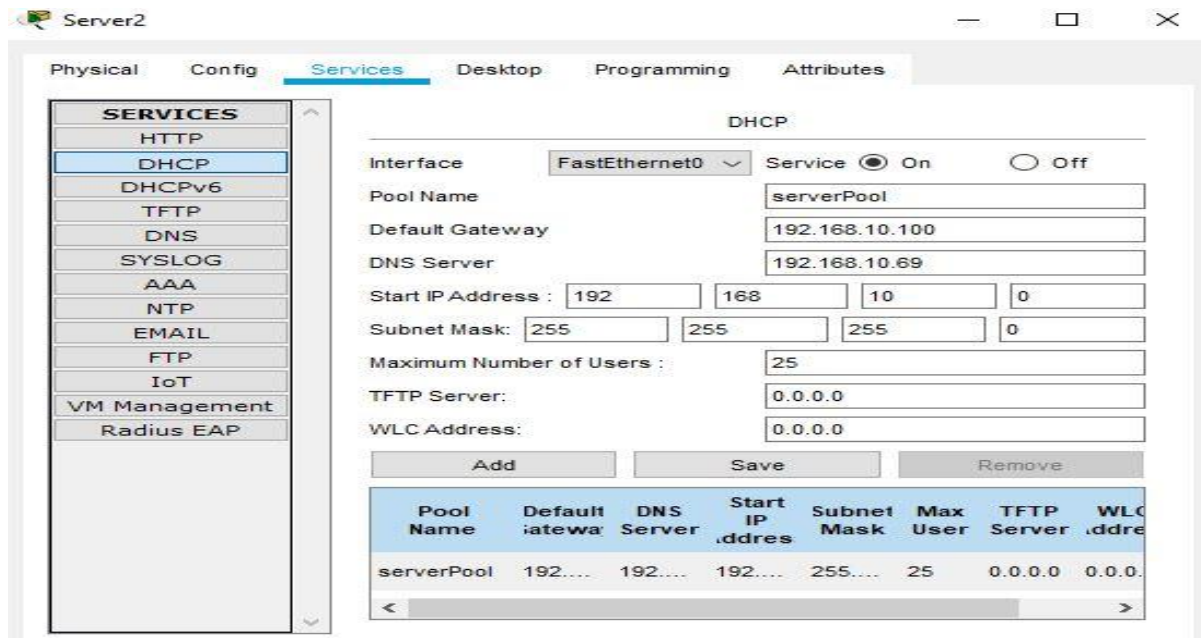




FTP (File Transfer Protocol)



DNS Server



DHCP Server

CONCLUSION

To Design the network outlook for the community college network scenario produces the substructure for all other exposure in the service framework such as security of the network, wireless area network, mobility as well as putting the justification to provide safety and security, operational efficiencies, virtual learning environments, and secure classrooms.

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