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1390	Lab Assignment-10 Title DHCP, DNS and Web server Configuration Aim Configure network using Dynamic Host Configuration Protocol (DHCP) and web server. Use ping utility to test connectivity
	Objectives: 1) To learn the DHCP installation and understand the practical use of DHCP, DNS and Web Server. 2) To learn the mechanism to access the remote machine by using ping utility to test connectivity.
	Theory:-
	Dynamic Host Configuration Protocol (DHCP) DHCP is a client server protocol that automatically provides an Internet Protocol host with its IP address and other related configuration information such as the subnet mask
	and default gateway.
2)	The need of DHCP:
	DHCP reduces the chances of common errors occurring when IP addresses are assigned manually. It also ensures no two host can have same IP addresses. DHCP plays an important role in managing small networks where mobile devices are used and require IP addresses on a non-permanent basis
	used and require IP addresses on a non-permanent basis
3)	DHCP Message Format:
\Rightarrow	It is based on BOOTP message format although DHCP
AND T	The numbers in parenthesis indicates the size of each field
41-111	The numbers in parenthesis indicates the size of each field in bytes.
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Page No.

4) DHCP operations:

It falls into four phases: Server discovery, IP lease offer,
IP lease request, and IP lease acknowledgement. These
Stages are often abbreviated as DORA for discovery,
ofter request and acknowledgement.

5) DNS and Fmail server:

This needs to be matched to a domain name and this needs to be matched to an IP address to be able to send the data so the mail server uses DNS to match the address on the 'envelope' to its destination and deliver the email.

Students Observation:

Thus, we have configured network using DHCP, DNS and Web Server use Ping Utility to test connectivity.

FAQ's

Ans 1) First click on your start menu and type command

prompt and press enter. A window will open where

you type: "ipconfig Ibll" and press enter.

Your ipv4 address is the IP address.

Ans 2) Either a static or olynamic IP address is assigned to a device when it connects to internet. This goes same way when we must dedicated server.

Ans 3) A public IP address Identifies you to the wider internet so that all the information you are searching for can find you. A private IP address is used within a private network to connect securely to other devices within that same network.

Public = 1 to 191, Private: class A: 10.0.0.0 to 10.255.255.255

Page No.		
Date	1	

Ans 4) DNS is an internet service that translates domain names into IP addresses. DHCP is a protocol for automatically assigning IP addresses and other configuration to devices when they connect to a network.

108 01/11/20