The state of the s	Name Burel Thereme
	Name-Rupesh Dharme Rollno . 31124
	RO11110 - 31124
	Assignment-10
	Title- DHCP
	Problem statement -
	Installing and configuring DHCP serverand write a programme to install the software on
	write a programme to install the sortware
` .	remote machine
-	
	Prerequisite-
	Application layer - Protocals, Roles
	DHCP
	1 Alica
	learning Objectives
	Students will be able to understand and configure DHCP servers
100	Understand dela
	Theory-  Dynamic Host configuration protocol (DHCP)
	is defined as network protocol that milians
	the conver to offomatically allocate an ir advers
	connective computer toom a specified defined
	of numbers (scope) which is configured for a required
	network.
	Public Network
	DHCP server
	192.168.0.
	10.1.0.2 Public
	DHCP relay 192.168.0.2
	Local 2 Interface Local 2 Interface
, , , , , , , , , , , , , , , , , , ,	132.168.1.1
	192.168.1.0/24



The state of the s	Dillo
	DHCP available for IPV4 and IPV6
	and the state of t
	Need of DHCP-
	- Avoid manual entry of IP address and
	configuration information for all computers/
	devices Individually
	- Provide a central mechanism to keep toack
-	of all assigned IP address in a network
-	To reclaim unused IP address and reassign
	To make central configuration/topology
	changes in the network easier
1 1	- To dynamically allocate. It addresses to
	partable clients that keeps moving from
	Place to place in the network
	DHCP handshake-
	DHCP client DHCP server
	Discover.
	message to identify DHCP server
	offer
	Offer  DHCP server responds with an  available IP address and option
4	[ [ - 1] - 1] - 1] - 1] - 1] - 1] - 1] -
	Request  — client requests IP address ->  From server
	110m-Server
	Acknoledge
	Server acknowledge IP request-
	and complete initiation cycle
	Consider Suggest III installed and configured Duce-
	Conclusion - Successfully installed and configured DKCP-
	Serverand also created a programme to Install software on a remote machine

PSpython -u "c:\Users\HP\Rupesh\PICT\TE SEM 1\CNS Lab\Ass ignment 10\31124 Rupesh CNSL Assignment 10 server.py" Binding the port: 9999 Listening... turtle> connection: <socket.socket fd=368, family=Address Family.AF INET, type=SocketKind.SOCK STREAM, proto=0, lad dr=('192.168.43.233', 9999), raddr=('192.168.43.233', 617 66)> address: ('192.168.43.233', 61766) connection: <socket.socket fd=384, family=AddressFamily.A F INET, type=SocketKind.SOCK STREAM, proto=0, laddr=('192 .168.43.233', 9999), raddr=('192.168.43.233', 60630)> address: ('192.168.43.233', 60630) turtle> list <socket.socket fd=368, family=AddressFamily.AF INET, type</pre> =SocketKind.SOCK STREAM, proto=0, laddr=('192.168.43.233' , 9999), raddr=('192.168.43.233', 61766)> ('192.168.43.23 3', 61766) <socket.socket fd=384, family=AddressFamily.AF INET, type</pre> =SocketKind.SOCK STREAM, proto=0, laddr=('192.168.43.233' , 9999), raddr=('192.168.43.233', 60630)> ('192.168.43.23 <socket.socket fd=384, family=AddressFamily.AF\_INET, type=SocketKind.S</pre> OCK\_STREAM, proto=0, laddr=('192.168.43.233', 9999), raddr=('192.168.4 3.233', 60630)> ('192.168.43.233', 60630) available? yes downloading a file on that client... turtle>

PS C:\Users\HP\Rupesh\PICT\TE SEM 1\CNS Lab\Assignment 10> python -u " c:\Users\HP\Rupesh\PICT\TE SEM 1\CNS Lab\Assignment 10\31124\_Rupesh\_CN SL\_Assignment\_10\_client.py"

Try the new cross-platform PowerShell https://aka.ms/pscore6

powershell

Windows PowerShell

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PS C:\Users\HP\Rupesh\PICT\TE SEM 1\CNS Lab\Assignment 10> python -u "c:\Users\HP\Rupesh\PICT\TE SEM 1\CNS Lab\Assignment 10\31124\_Rupesh\_CN SL\_Assignment\_10\_client.py"

performed...

PS C:\Users\HP\Rupesh\PICT\TE SEM 1\CNS Lab\Assignment 10>

