"शीलं परं भूषणम्" हान

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STUDENT'S ROLL NO.: 3330



Assignment 5
Install and Configure DHCP server using Cisco Packet Tracer tool (Windows Server)
Tracer tool (Windows Server)
 What is DHCP?
Dynamic Most Configuration Protocol is an application
Dynamic Most Configuration Protocol is an application layer protocol, which is used to provide— 1. Subject mask
1. Subret mask 2
2. Router Address =
3. DNS Address .
4. Vendor Class Identification - DHCP is based on a client server model and is
based on discovery offer request and ACK
based on discovery, offer, regrest and ACK. DHCP is a network management protocol that is
used to automate the process of configuring devices
THE THE TOTAL OF THE PARTY OF T
notwork sources like UNS. NTP and any communication
protocor based on Oprov (Cr
A DHCP server auto dynamically assigns an IP address and other retwork configuration parameters to
address and other retwork configuration parameters to
each device on a network so that they can communicate with other IP networks. DHCP is an
communicate with other IP networks. DHCP is an
enhancement of BOOTP
THE Marking - THER and the time
DHCP Working - DHCP employs a connectionless service model using the Upp. It is implemented with
2 Upl port numbers for its operations. Upl port
no. 67 is destination part of society UPP now no 18
is used by the Client DHCP enerations Int into 4
no. 67 is destination port of server UDP port no. 68 is used by the Client DHCP operations fall into 4 phases -> server discovery, IP lease offer, IP request,
THE TOTAL THE TO

abbreviated as DORA - discovery, offer, request and cicknowledgement.	
appreviated as DDRA - discovery, offer request	_
and cicknowledgement.	
Discourse - The manager is cont by DUCP client to	
Discover - The message is sent by DHCP client to discover a DHCP server.	
Offer - Sent by a DHCP server to slegge a unique	
Offer - Sent by a DHCP server to degree a unique 1P address & other parameters to a client	
)
Request - Sent by DHCP server to assign OHCP server to lease the parameters listed in of	-1 24
Acknowledgement - Sent by DHCP server to assign	
A cknowledgement - Sent by DHCP server to assign IP address, mask, default pouter & DNS Server address to the Chint.	
server address to the Chint.	
What is the DHCP projess for Client machine of DHCP client senses DHCP serves broadcasts	
a DHCP discovery message searching for a	
DHCP server. If a DHEP server exists in the	
network, it dill respond with a DMCP offer	
containing the offered IP address, subnet mask	•
etc. Once the client receives the offer it will	
respond with a DHCP request indicating that i	t
Finally the server sends a DHCP acknowled	moment
back to the Client.	
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Benefits of DHCP? Advantages of using DHCP— 1) centralized management of IP addresses
Advantage of using DHCP -
1) controlized on an Insert at IP addresses
 1) contrati da managenten of 11 aur cessos
2) case of adding new clients to a network
V
3) reuse of 1P addresses teduce the total no. of
Il addresses required
4) simple reconfiguration of the LP addesse
snace on the DHCP good without
3) reuse of IP addresses teduce the total no. of IP addresses required. 4) simple reconfiguration of the IP address space on the DHCP server without reading to reconfigure each Client.
is the country of the
OHCP discover
OHCP offer DHCP Client DHCP request Server DHCP ack
Client DHCP request Source
0400
when ack