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and its benefite?

Ans

DHCP Server: (Dynamic Host Configuration Protocol).

It is a network server that
automatically provides and assigns IP addresses
default gatemays and other network forms—
meters to client devices. It relies on the
Standard protocol Known as DHCP, to respond
to broadcast queenes by clients.

- How to use a Router / Smitch as DHIP Server!

(2 Deivate IP WAT | Pat Public IP

DHIP has a page sale in communication between private (AN to Public WAN. whenever System wants to communicate any system will be nouted through DHIP services.

if IAN is small also DHCP is used.

Binefits :

Reliable TP address configuration. DHIP minimizes configuration everage caused by manual 18 address configuration, such as

	Date
	typographical eserous, on address conflicts caused by the assignment of an IP address to more than one computer at the same time
	Reduced kietmork administration.
8-	Define a) PING 6) IP(ONFIG c) NETSTAT d) TRACEROUTE.
<u> </u>	PING: Most Commonly used tool. This tools is used to test connectivity between everyweeting host and destination host.
	E.g.: Ping 192168.1.38-t., if it mag- Reply from 192168.1.38. byte=32 time=7ms 151=255 then it means connection is peroper.
۵.	If messages shown is "Request time out" then it means there is some break issue in cable.
Ы	TP CONFIG. This is used to determine IP Composed for host. It gives TCP TP Configuration details like : TP Address, subject marks and default gatemay of the computer.
	IP Config Command is used for windows. IF CONFIG Command is used in Linux.
	e.g: IPCONFIG: Detail.

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C) NETSTAT:

This rued to determine current
state of active notwork connections on
a host. when verifying the status of
a listening part on a host our to check
and see what remote hosts are connected
to a local host on a specific part.

e-g- Netstat.

& Frace route:

Tt can be used to determine more specific information about the path to the destination host including the route the packet takes and the response time of these intermediate hosts.

It is useful for trouble-shooting large networks.

e.g: toracert www.gaagle.com d

7. 4me 12me 5me 10.131.81.1

2. * 120ms 194ms 192.24.164.190

3.

Here traceroute command is used in LINUX.