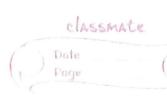
Enperiment - 2

Sata Communications and Comput--ter Networks:

I fing: The ping command is
used to check the reachability to a networked device. The
ping command sends a request
over the retwork to a specific

Net Stat: -> Net Stat stands for retwork statistics, at is used for troubleshooting and Configuration. It also serves as a monitoring tool for connections over the network Both the meaning and connections, routing bubles, port listening and usage statistics are the common uses of this

To list all listening ports using both TCP and UDP, use netstat a:



2. To list only TCP port connections

-SS Resolution Brotocol (ARP)

Cache, which contains one or more
tables that are used to store IP

addusses and their resolved Ethernet
or Token Ring physical addresses

NBt Stat: Nbt Stat is a utility

Cthat displays protocal

statististics and current TCP/IP

connections using NBT (Net BIOS a

over TCB/IP) which helps

troubleshoot Net BIOS name resolu
hion issues

The Net BIOS is an acronym for Network Basic input output System

Classmate

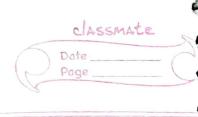
Date
Page Hostname: > A hostname command is used to view a computers hostname and domain name (DNS) (Domain Name Service), hostname ote domain name Tracoct :> it is a network diagon--ostic tool lesed to track in real-time The pathway taken by a packet on an IP network from source to distinctiof all the routers it pinged in betw-Traveroute also sucords the time taken for each hop the packet makes during its route to the destination IP config. >> It stands for Internet.

Protocol configuration program of some computer operat-ing systems that displays all

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-on values and refreshes Dynamic Superation protocal (DMCP)

and Domain name System (DNS)

Dettings.

NSLOOKup: - Name Server Lookup:

is a useful comma
is a useful comma
ned for getting information:

from the DNS server. It is a

network administration tool for

Querying the Domain Name System:

(LNS) to obtain the domain hame:

or IP address mapping or any
other specific DNS record.

Route: 7 /he route command allows you to make allows you to make and make and route of the route and routes to hosts and routes to networks by interpreting the network address of the clesting

Classmate ;

-nætion Variable, which can be specified lither by symbolic name or numeric addresses

Path ping:) Path piny Command is used to locate spots

that have network latency and network loss.

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M.

Net diag: It is a command line

dignostic tool that helps

to isolate networking and commechinity

problems by performing a series

of lests to deformine the state of

your network client.

System info; -) It displays a list of details about your details about your and software compenents such as Osversion, RAM status etc: