## VASAVI COLLEGE OF ENGINEERING

(Affiliated to Osmania University) Hyderabad - 500 031. ECE

DEPARTMENT OF

NAME OF THE LABORATORY : Computer Networks Name Gr. Sri Ganga Prainav Roll No. 1602-71-735-117 Page No.

> Packet Jnaces -13.2.6 veriby IPV4 and IPV6 Addressing

Aim :-

THE Gudyer - 30 coll DBS 1111 part 1: complete the addressing table documentation

part 2: Jest connectivity using ping

part 3: Discover the path by tracing the route

tools Required: - A Proleaded with packet Inaces Procedure; -

step 1: Use ipconfig to verify IPV4 addressing

- a) click PCI and open the command prompt
- b) Enter ip configlall command to collect the IP 4 in formation. Fill the addressing table with the IPV4 address, subnet mask and default gateway
- c) Follow the same steps for PCz to note down the IPV4 information of PC2.

etep2: Use ipv6 config to verity 2pv6 addressing

- a on PCI, enter ipro contigiall command to collect the IPV6 information.
- b) on PCz, enter ipv6 configlall command to collect IPV6 information and note down the IPV6 address, subnet prefix and default gateway Of both PC1 & 162.

FOY PCI; IPV6 address -> 2001: DB81:1: ".A EPV4 address -> 10.10.1.100 subnet masle -> 255.255.255.255.294 Default gateway -> FE80: 1/2 194009. Por PCZ: Onicsonppy and that the trained IPV6 addren -> 2001: DB8:1:4: :A 1 1 10.10-1-20 subject mark - 255.255.255-240 Default gateway - > TE80:3 P IS Use Epporting to venty arveredate in in Patriaus persurates my the command has been Enter ependispial command to collect the IPW information. Fill the addressing table with the ever addrew, subject mark and default gateure fellow the same steps for PG to note clown in IPVy intervalency of PG. 2: Est ipus config to verity apus addicented is PCI, enter for contiglat command to anot en apro intermation. o Fra, Endez ipvi continuend to covered NO INFORMACION CONOL NOCE ROURS THE THE THE de cest, subject preply and actually genterency boll 101 8 10.

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Part 2: Jest connectivity using ping

step 1: Use ping to verity IPV4 connectivity and IPVL connectivity

- a) From PCI, ping IPV4 address for PCI
- b) From PCI, ping IPV6 address for PCZ
- c) From PC2, ping IPV4 address for PC, and
- d) From P(2, ping IP v 6 address for PC,

Part 3: Discover the path by tracing the raile

step 1: Use tracest to discover the IPV4 rate path

- a) From PCI, trace to distover raite to PCZ PC>tracert 10.10.1.20
- b) From PC2, trace the route to PC1

Step 2! Use Except to discover the IPV6 path

- a) From PCI, trace the route to the IPV4 address for PCZ
- b) From PCr, trace the route to the IPVb address
  Result: Verified IPV4 and IPVb addressing of the
  topology and done the troubleshooting.