24/12/24

8-tusment-8

a) to construct à simple LANIA and understand concept & operation of ARP.

Aim: construct a simple LAN's simulate operation of Address Resolution protocol.

Topology Description:

1. Switch connected to 3 Pc's and a server

ve a three three copperstraight wire (fast etnernet

anterfaces) and one enernet enterpace

respectively.

2. All connections made via copper straightturough cable

3. No configuration required for cueiten

Procedure:

1. Open cisco parket tracer and drag it, pollowing switch 0 and server, place in series and connect it to switch 0.

a suiter.

3. use the enspect tool (Q), chick on the PC to veen the ARP table, Display ARP table for all devices (LLI) Oz. 4 . 4 . 4 4. Instially ARP es empty for all E. Also an CLI of sweetch, show mac-address table

It gives are transaction on every device to see how the switch learns from transaction

and build me address table panel to go step by step so that changes

an ARP can be clearly noted 2. Observe the HABOR switch as well as

nodes, 9t updates the ARP touche as and when new communication starts.

As the message travels from one source host to gis destination host the ARP table of au deueces get updated.

ARP maps on IP address to a mac address It ensures communication untuen a socal network.

ARP table for PCO (source):

observation:

29 address	nandware address	Interjace
10.0.0.3	00 60. F70C. 4040	Fast etuernet()

APP table for sca (destination) IP address randware Address 24 address Fast etnernuto 2.0.0.02 status summer from en mis and dod service and blind some stop by viep so that wanger to make and be hundly netted. in the contract which are as in the love so slowed 9,20 me total per it. The sale rolling the render something and record where the set of To side. 944 the work production in the searchine and a service of works. In as your god have have a single of the form of the second The second of the second of the The second

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