AME - RUNAL RANK CLASS: BTECH 3RD YEAR, COMPUTER ENGINEERING

AIML Computer Networks Assignment 7

Ansl: Adhess Resolution Protocol:

Address Resolution Protocol is a communication protocol used for discovering physical address associated with the network address.

typically, ARP is a network layer to data link layer mapping process, which is used to discover MAC address for given Internet Protocol address.

In order to send the date to destination, having IP address is necessary but not sufficient, we also need physical address of destination machine. ARP is used to to get the physical address address of to destination machine.

Before sending the IP packet, the MAC address of destination must be known. It not so, then server sender broadcasts the ARP-discovery packets regresting the MAC address of the jude intended destination.

25 Revise Adress Resolution Protocol:

Reverse ARP is a netrorking protocol used by a client machine in a local area network to regrest its Internet address. (1Pv4) from the gateway-routers ARP table. The network administrator creates a table in gateway router which is used to map the MAC address to corresponding IP address.

The DHCP protocol gives the network administrator a method to configure the network from a centralised area. With the help of DHCP, easy handling of new users and reuse of IP address can be a chieved. Ans 3 Since IP does not have an inbuilt mechanism for sending ever and control messages. It depends on Internet Control Message Protocol (ICMP) to provide evor control. It is used for management gueries. It is a supporting protocol and used by network denices like vorters for sending the error messages and operations information. 15 Control Signals chán, · Source Sunce Message Parameter Problem · lime enceded message · Destination unreachable 20 Redirection message Ans 4: 16RP Stands for Interior Grateway Rowling Protocol It works on Bellman Fond Algorithm. It is busically used for larger size organisation. It is distance vector type. It is internet protocol gaterry. It is intelligent muting protocol. Its administrative distance is 100. In larp, Internet Protocol is used