

Explain how stateless address auto-configuration works in IPv6.

What are the advantages of hierarchical addressing used in IPv6?

What is the most important property of IP that poses a challenge to Mobile IP?

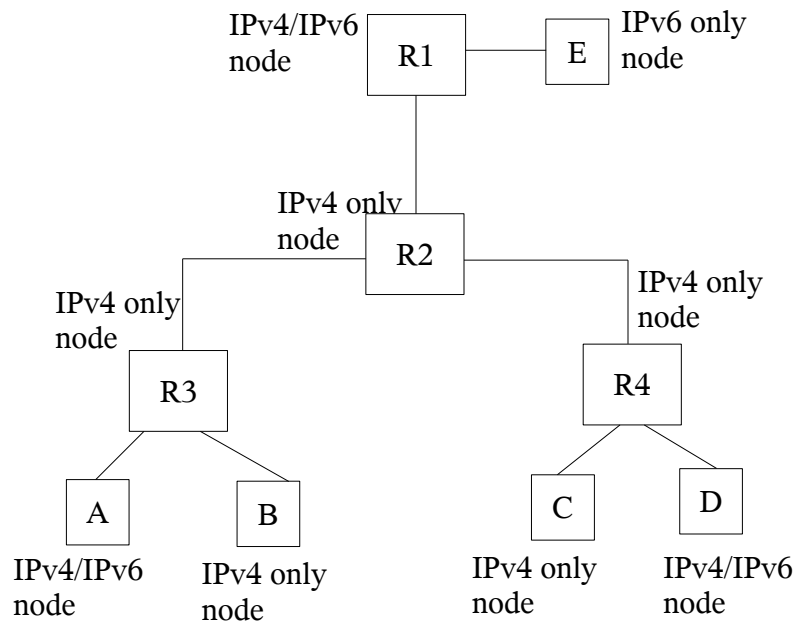
What is triangular routing and what are the conditions under which it is possible and not possible?

What is the difference between a CoA and a co-located CoA? What are the advantages and disadvantages of each?

Why should the HA do a proxy neighbor advertisement for the MN? How does the MN handle its return to the home network so that it receives its packets directly without the intervention of the HA?

How many addresses – both unicast and multicast - does each physical interface in a **router** configure and what are they?

Given below is a topology. Specify how the following pairs of hosts can talk to each other – A and D, B and E, A and E.



What are the advantages of the new header format used in IPv6?

How is the new neighbor discovery mechanism, used in IPv6, better than ARP?

What are the disadvantages of using triangular routing? How are these overcome by using route optimization?