

Chapter 4 Problems – Sep. 27

1. What are the main functions of data plane and control plane in router? Also, compare routing vs. forwarding.
2. Explain what prefix is, and why only prefix (instead of IP address) is used in router forwarding table.
3. Explain why all four DHCP messages are broadcasted.
4. In the IPv6 tunneling example, does router B have to understand only IPv6 addresses, or both IPv4/IPv6 addresses? Explain.
5. Explain address (or route) aggregation, and why longest prefix matching is important

