

Recitation 7: Group exercises

1. Multicasting

- What is the difference between unicasting and multicasting?
- What is multiple unicasting?
- What are the applications of multicasting?
- Describe the difference between source-based tree and group-shared tree multicast routing.
- MOSPF is a data-driven protocol. What does this mean?
- Compare the following strategies used in multicast distance vector routing: Flooding, Reverse Path Forwarding (RPF), Reverse Path Broadcasting (RPB), Reverse Path Multicasting (RPM)
- What is the purpose of join message in Core-Based Tree (CBT) protocol?
- When PIM-DM is used?
- When PIM-SM is used?
- What is the multicast backbone (MBONE)? How does it operate? What protocol or protocols are used?

2. IGMP

- What is the value of TTL field in IGMP message?
- What is Maximum Response Time?
- What is a Query router?
- Why is there a need to filter at each of the layers in the IP stack? Why is this particularly important for broadcast and multicast addresses?