**3. Where this CAPWAP fits in OSI model, what are the two tunnels in CAPWAP and its purpose.**

CAPWAP mainly works at **Layer 2** and **Layer 3** of the OSI model.

At Layer 2, it's used when the AP and WLC are in the same network.

At Layer 3, it helps the AP and WLC communicate over IP when they’re in different subnets this is where most of the CAPWAP communication happens.

**CAPWAP sets up two separate tunnels between the AP and the WLC:**

1. **Control Tunnel**: This tunnel is used for sending all the control and management messages like configurations, updates, and monitoring details. It's secured using DTLS, so the communication stays encrypted and safe.
2. **Data Tunnel**: This one carries the actual user data basically the client traffic. It uses UDP for faster transmission. With this, the WLC can centrally handle things like traffic flow, policies, and security.