third technique

RESOURCE RESERVATION

Protocol in Real-time Systems

By | Abhishek RS

RESOURCE RESERVATION PROTOCOL (RSVP)

- In the OSI (Open Source Interconnection) model, the resource reservation model comes under the fourth layer which is the transport layer protocol.

- In networking, Resource Reservation Protocol is used as it provides the system with an efficient, quality and fastest way of transmission of data packets from the transmitter to the receiver.

- This protocol is particularly used for the purpose of reserving network resources.

- In RSVP, the resources are associated and maintained by the receiver so it is also known as a receiver-oriented protocol.

EXAMPLE FOR RSVP

- A user wants to initiate a video conference with multiple participants and requires a certain amount of bandwidth and other network resources to ensure smooth transmission of video and audio data.
- The user's device sends an RSVP PATH message to the network, requesting the necessary resources for the video conference.
- The network responds with an RSVP RESV message, reserving the requested resources for the duration of the video conference.
- The video conference takes place, with the reserved resources ensuring the smooth and uninterrupted transmission of data between all participants

Features of RSVP Protocol –

Client Basis – The Resources are maintained at the client or receiver side, so it maintains and manages the reservation of resources properly.

Better Quality – This means that RSVP can work together with Differential services to ensure that network traffic is classified and managed in a way that meets the specific needs of different types of traffic, providing an overall better quality of service for the network.

THANK YOU

ANY QUESTION ?