







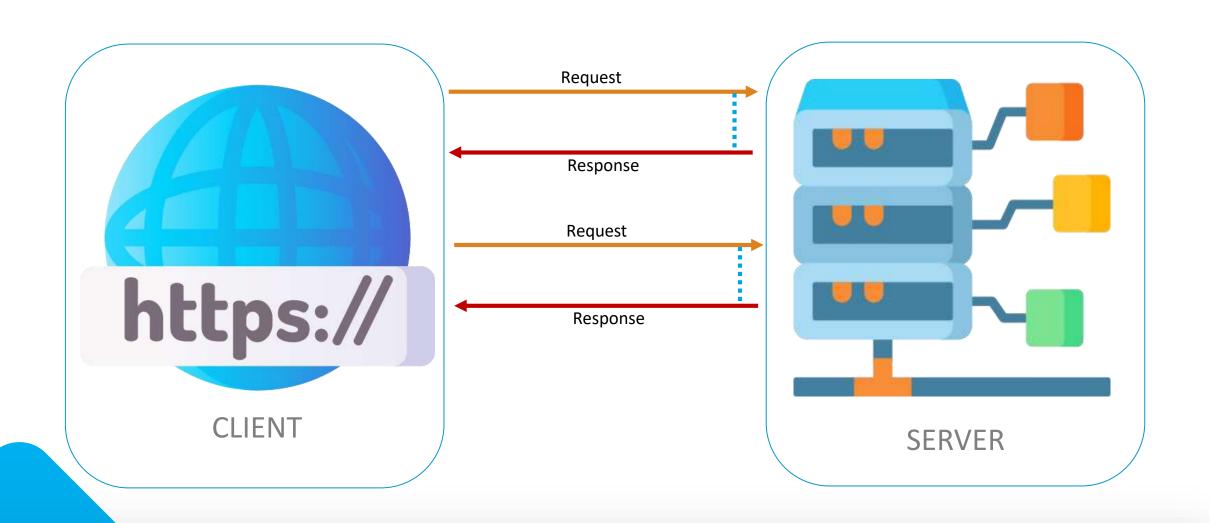
SignalR

Topics Covered

- SignalR Fundamentals
- SignalR .NET Client
- SignalR Identity User
- SignalR Groups
- 8 Different Projects



HTTP



SignalR Transport Type

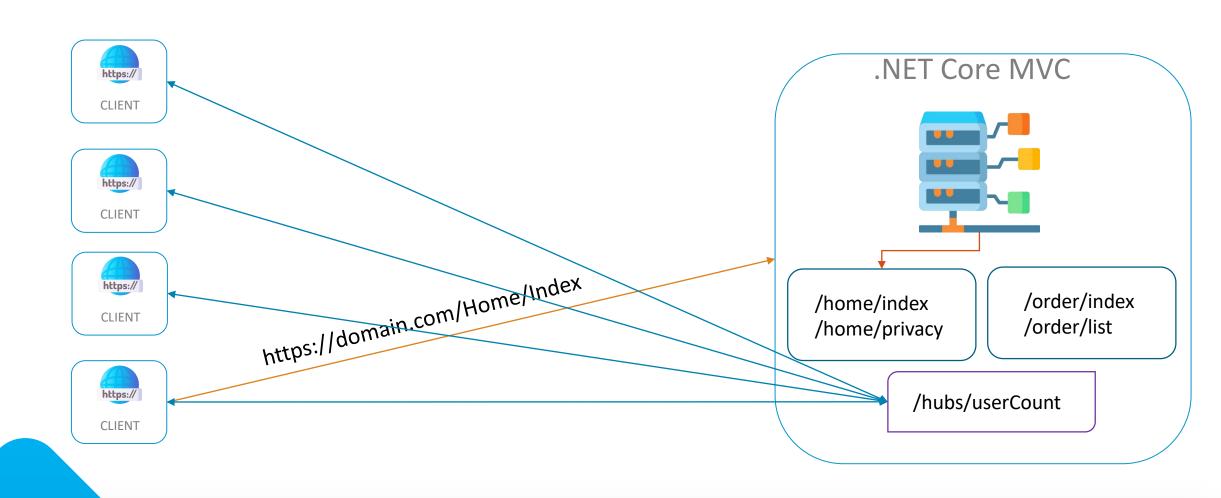
01 Web Sockets

O2 SSE (Server Sent Events)

03 Long Polling



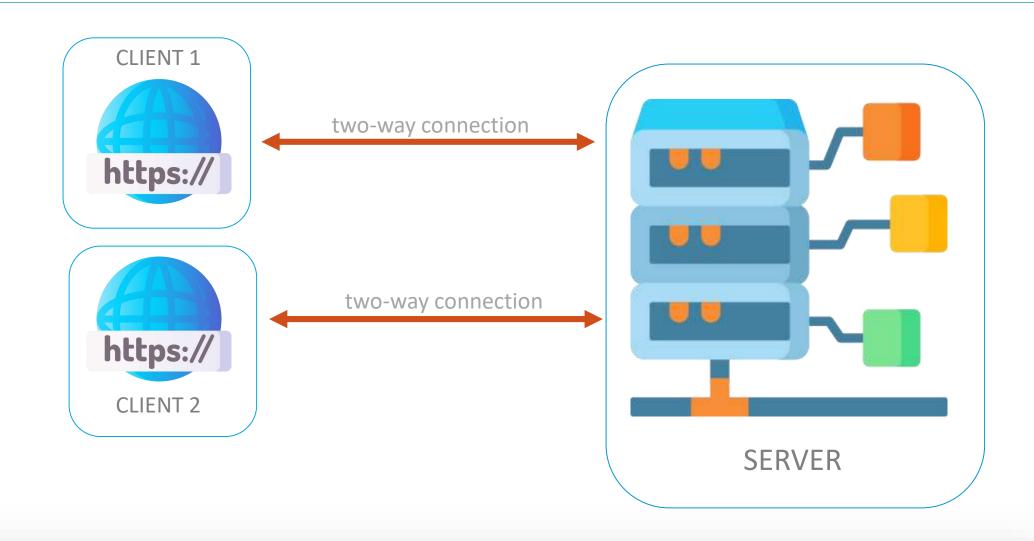
Hubs SignalR



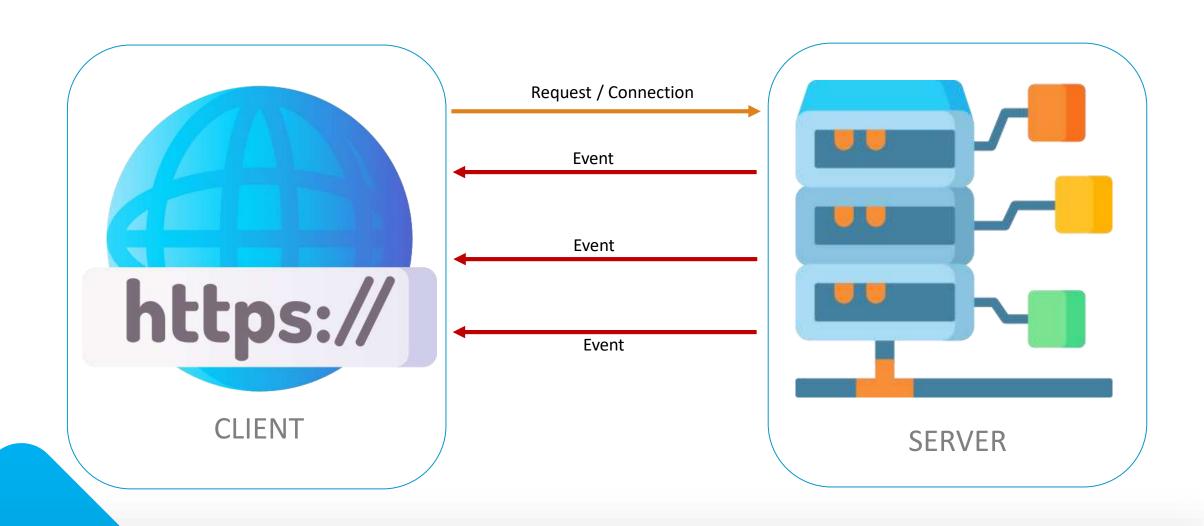
SignalR Typical Flow

Create SignalR Hub Add Methods to Hub Add Client side SignalR 🗸 Connect to SignalR Hub from Client JS 🗸 Call SignalR Hub method 🗸 SignalR Hub invokes method in Client JS to notify clients. Client receives update from SignalR hub and performs action 🗸

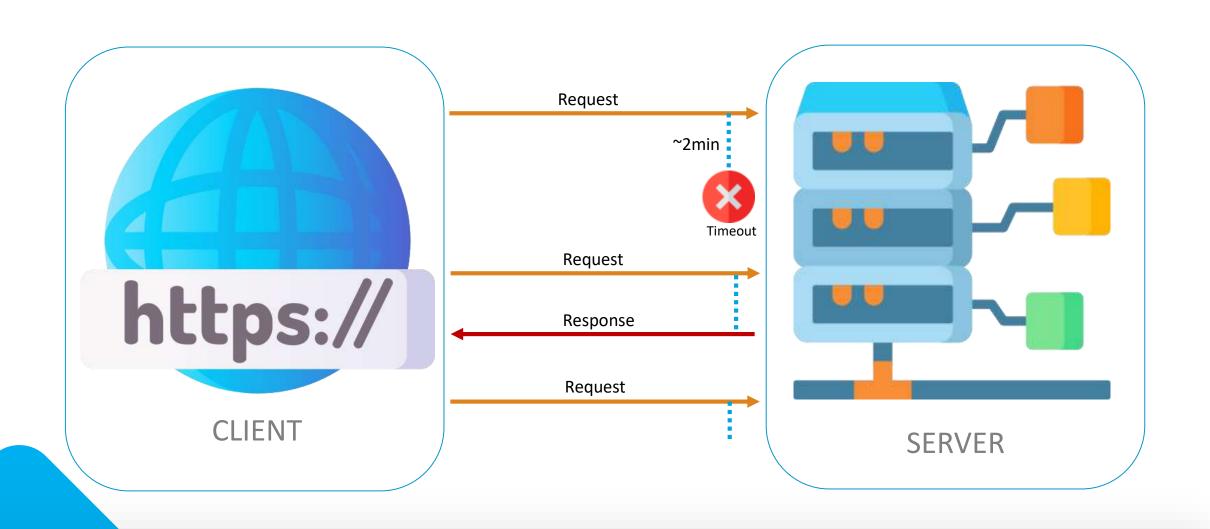
WEB SOCKETS

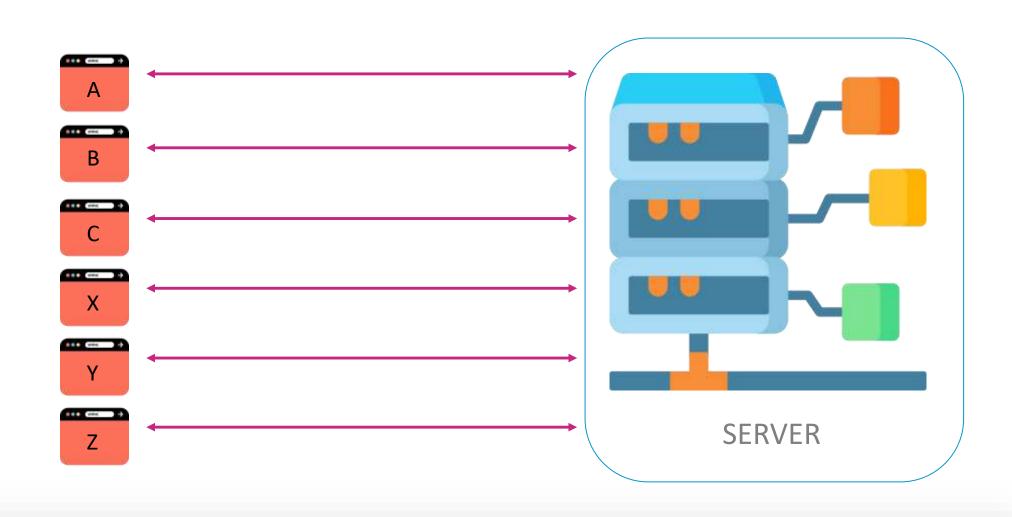


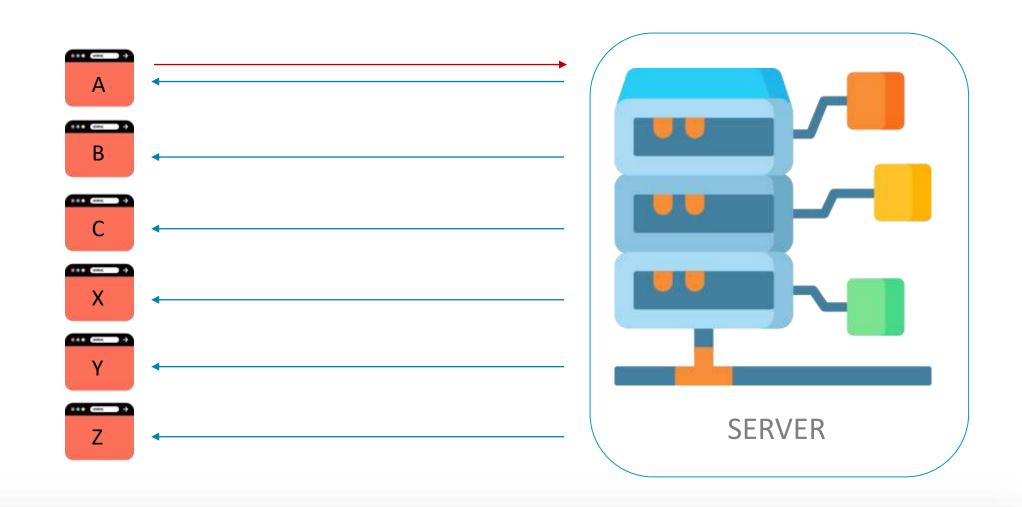
Server Sent Events

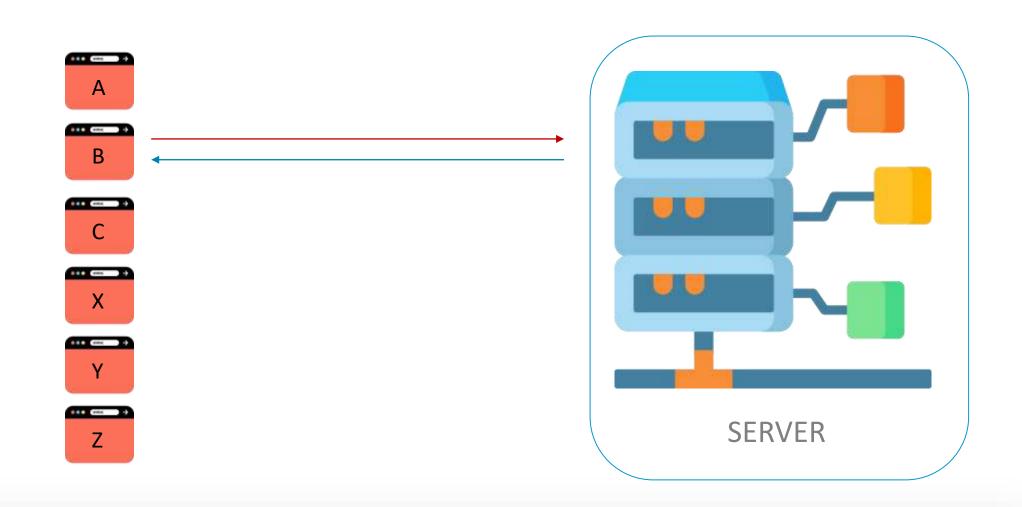


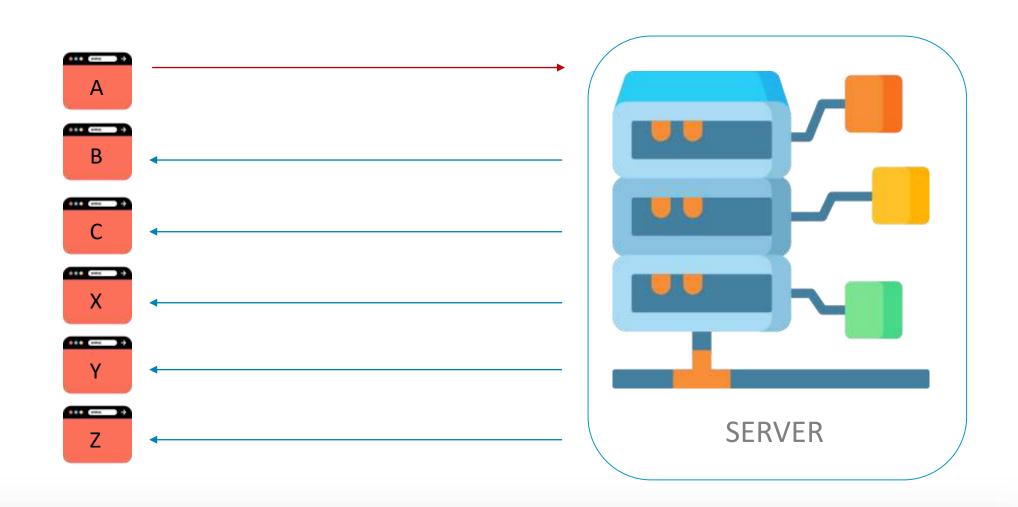
LONG POLLING

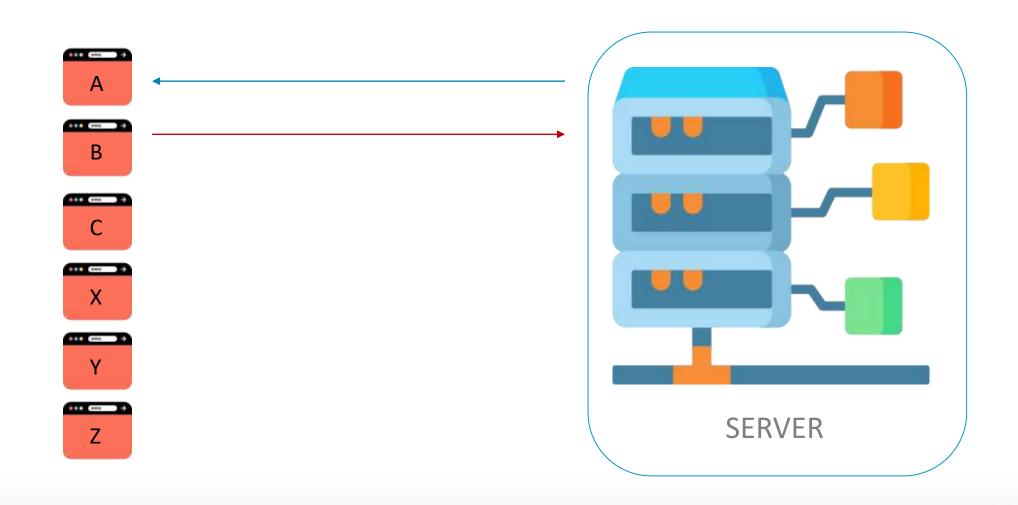


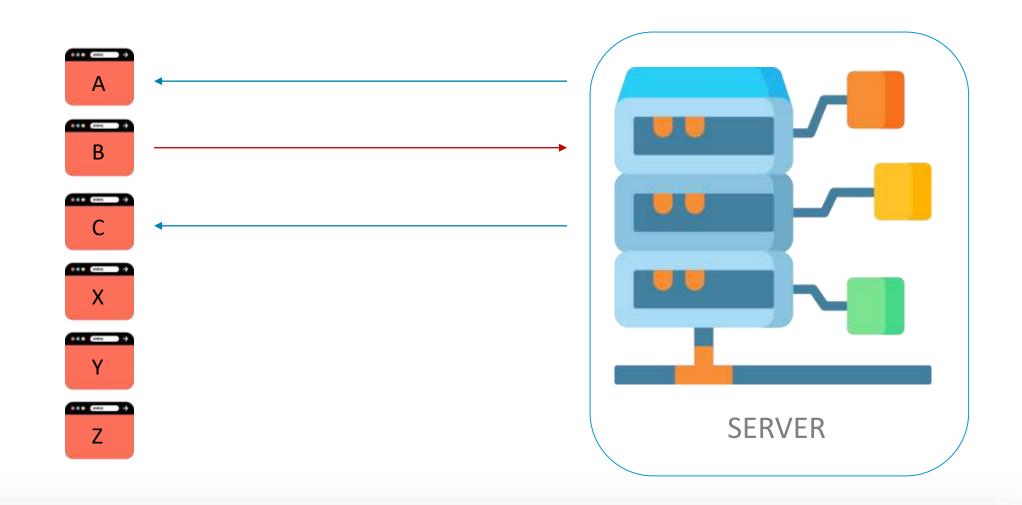


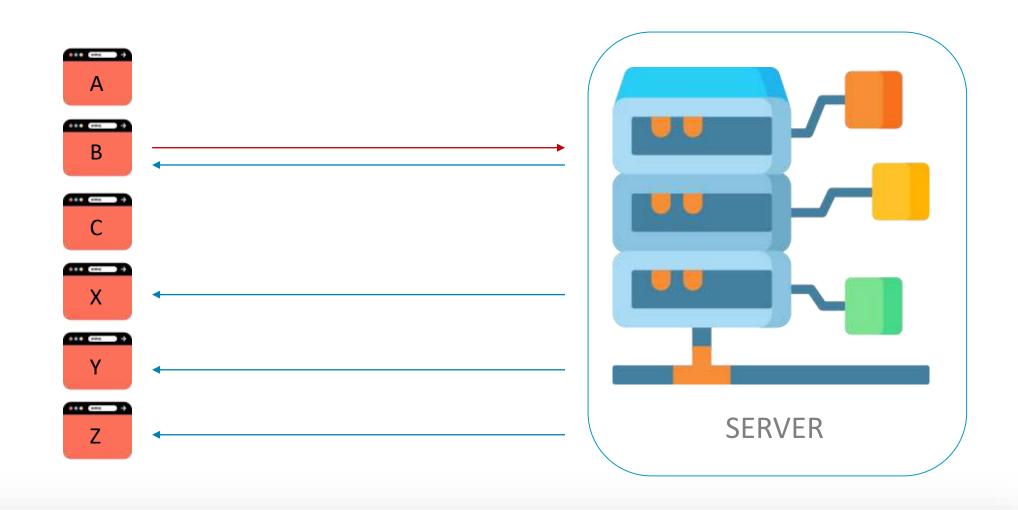


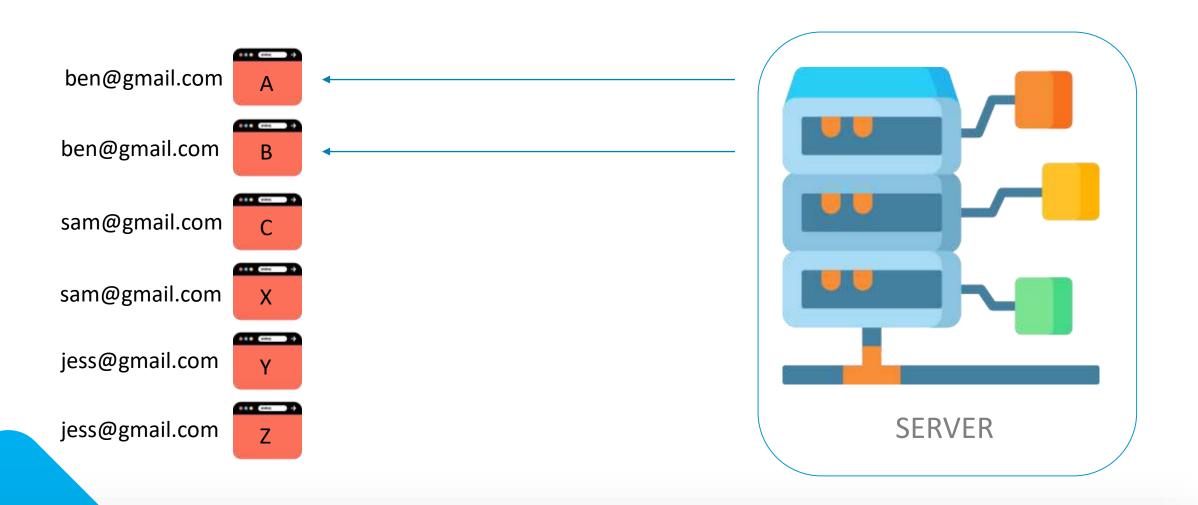


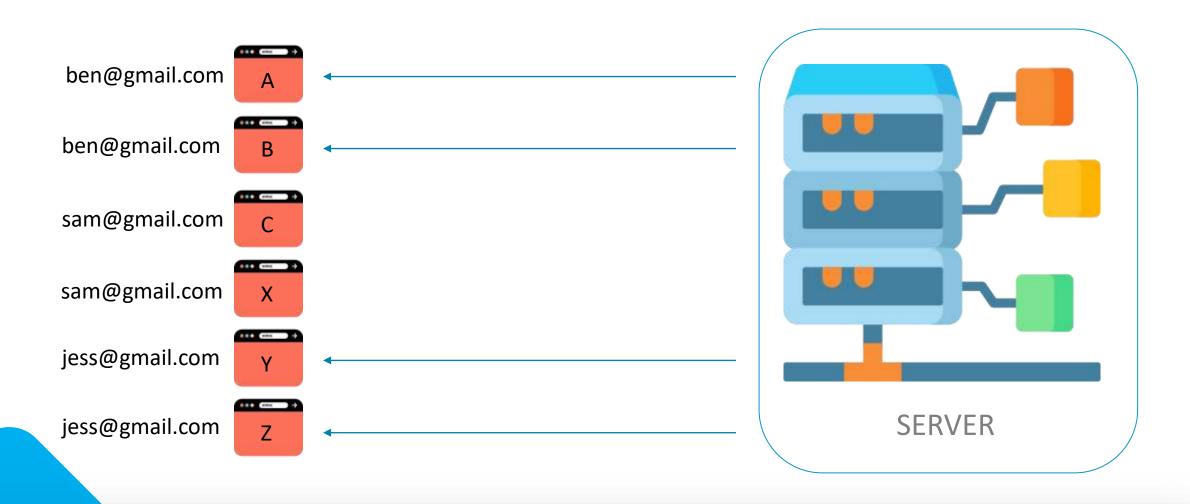


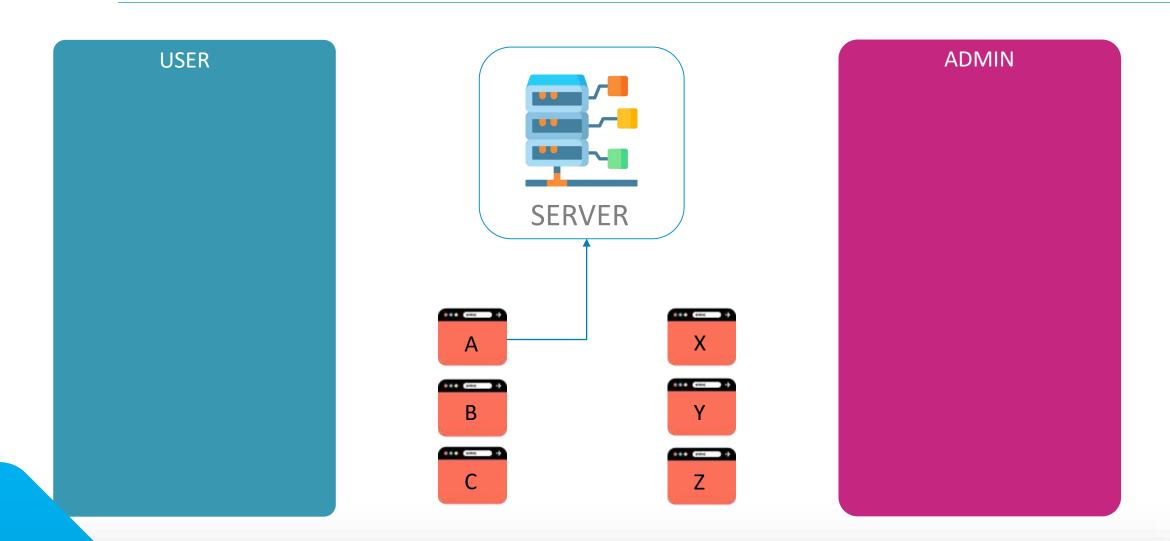


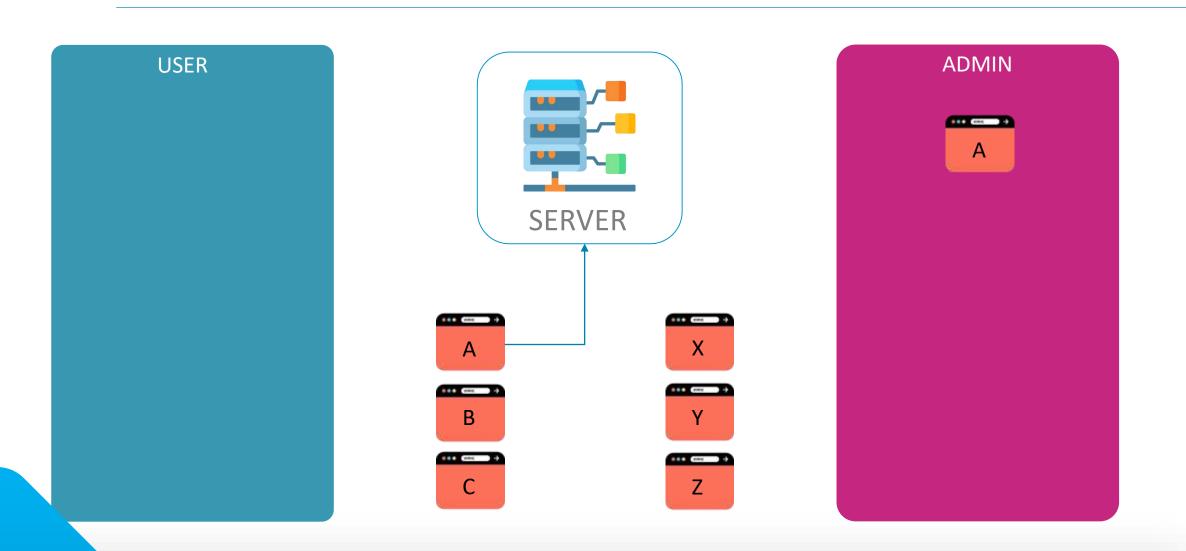


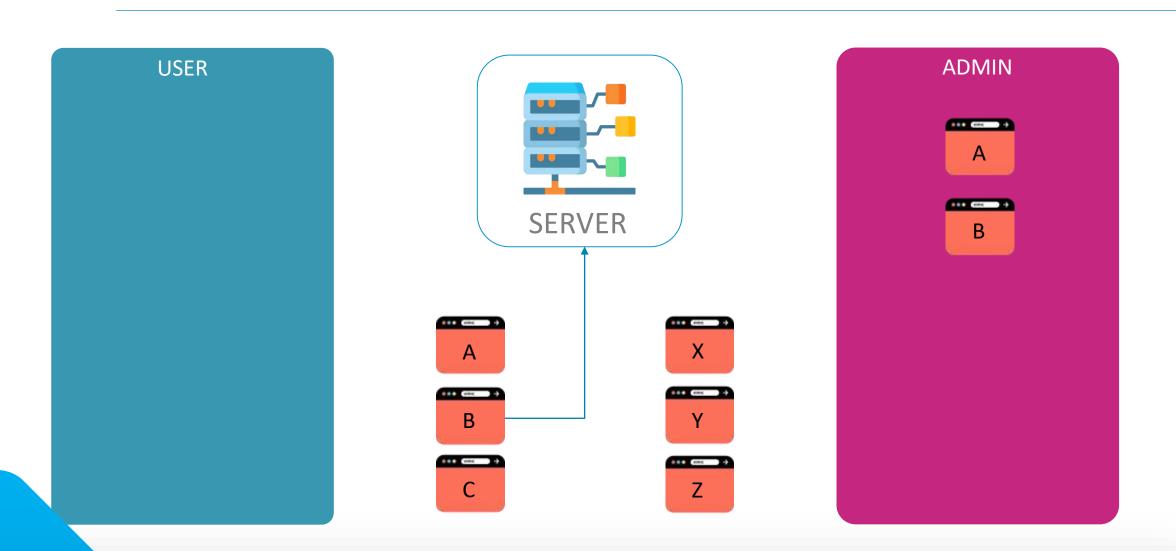






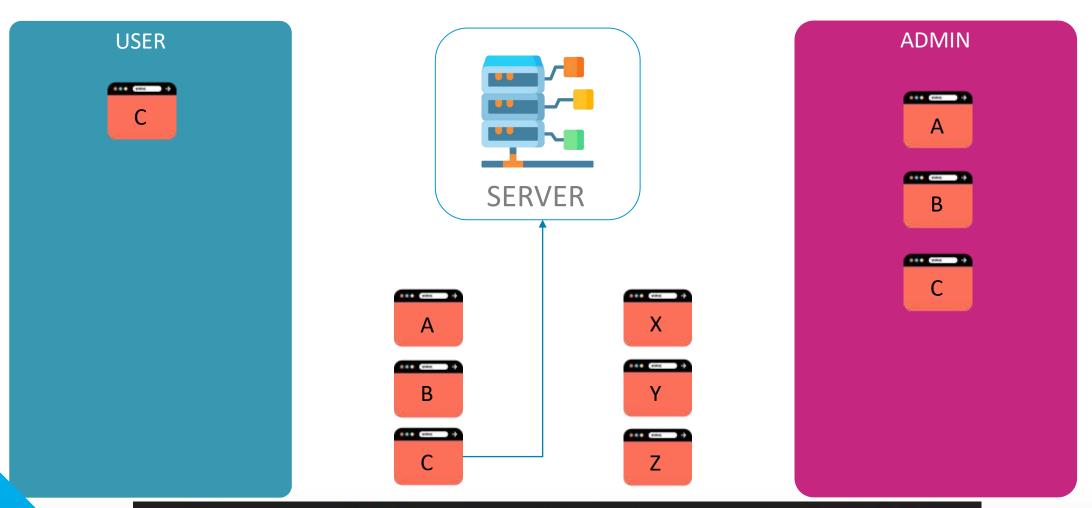




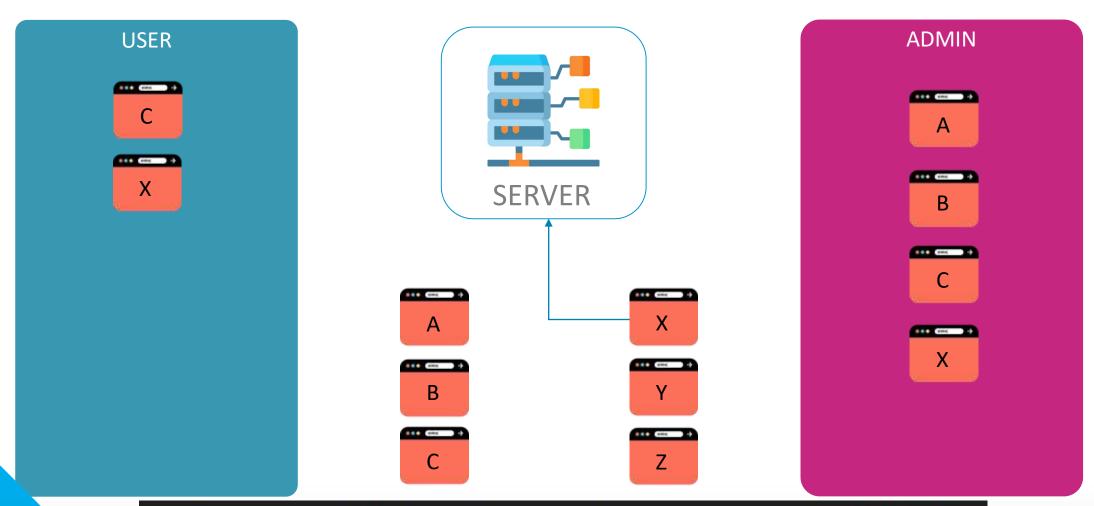


ADMIN USER 888 (MIL. **SERVER** BBB pinc b

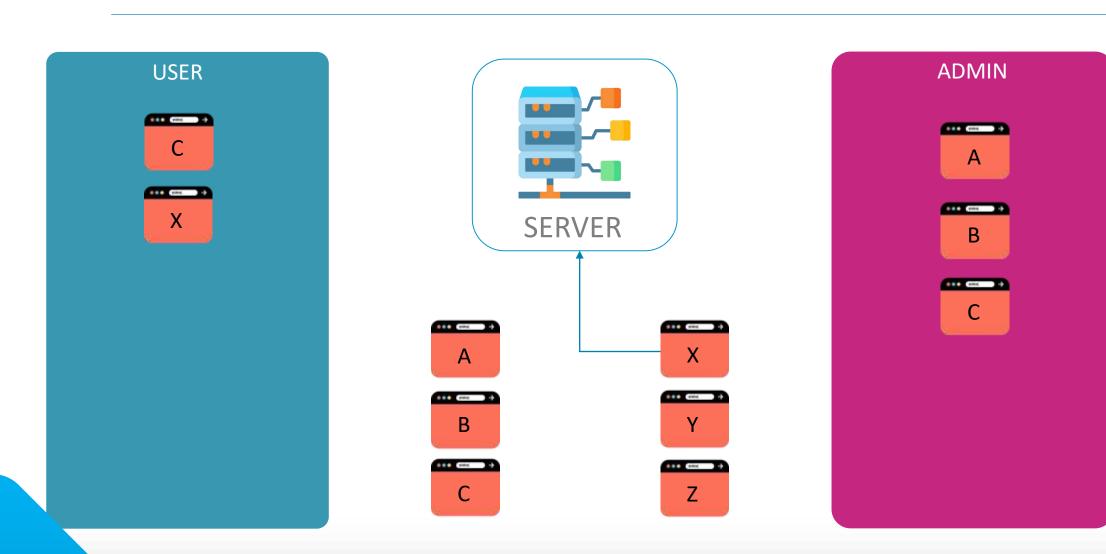
await Groups.AddToGroupAsync(Context.ConnectionId,"admin");

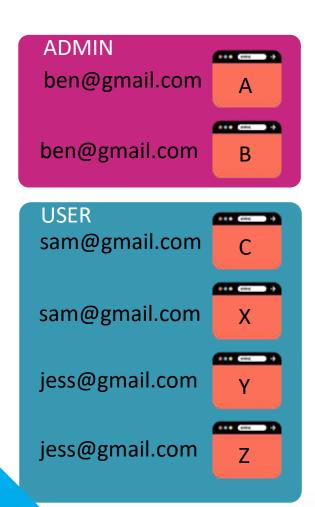


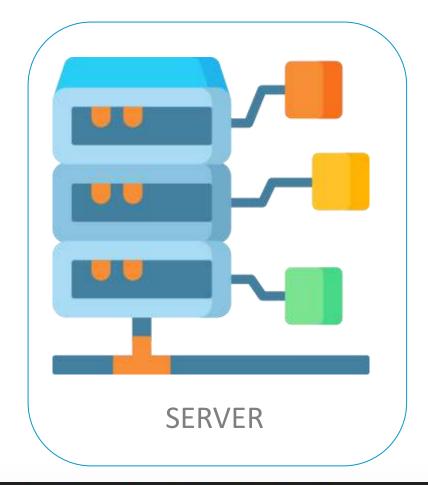
await Groups.AddToGroupAsync(Context.ConnectionId,"admin");
await Groups.AddToGroupAsync(Context.ConnectionId,"user");



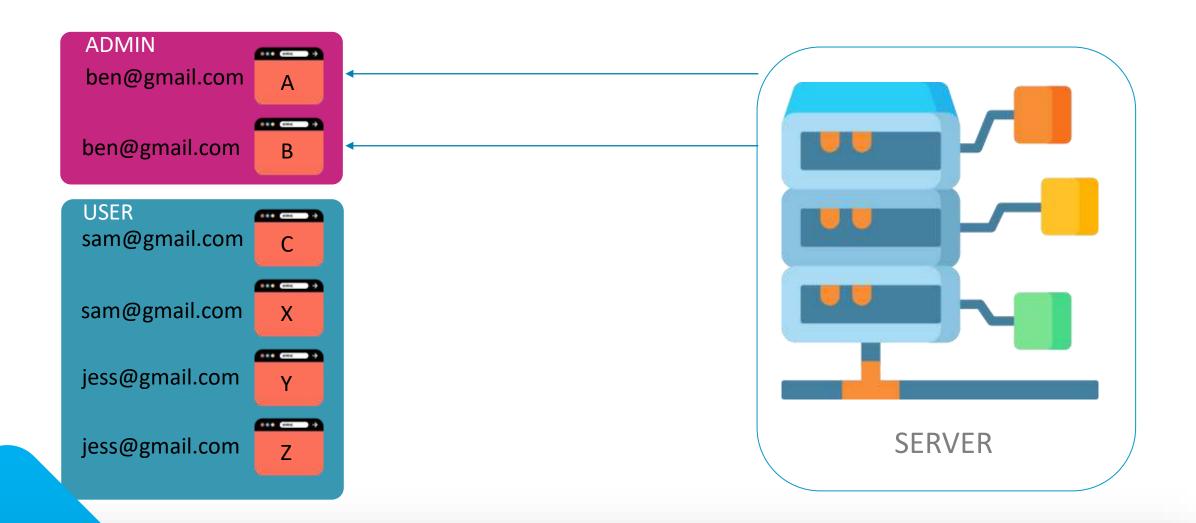
await Groups.AddToGroupAsync(Context.ConnectionId, "admin");
await Groups.AddToGroupAsync(Context.ConnectionId, "user");

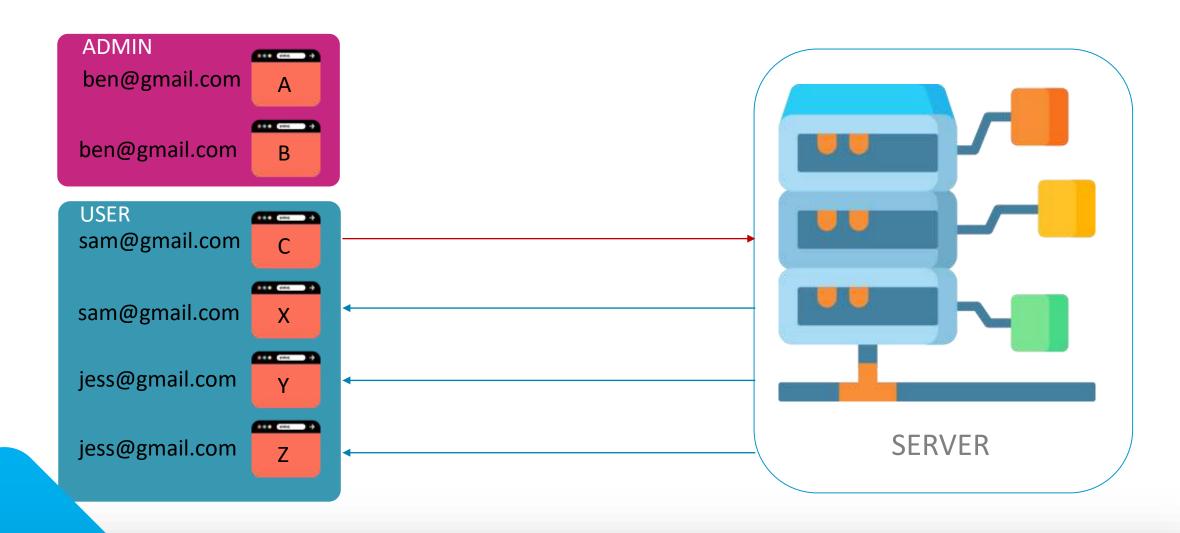


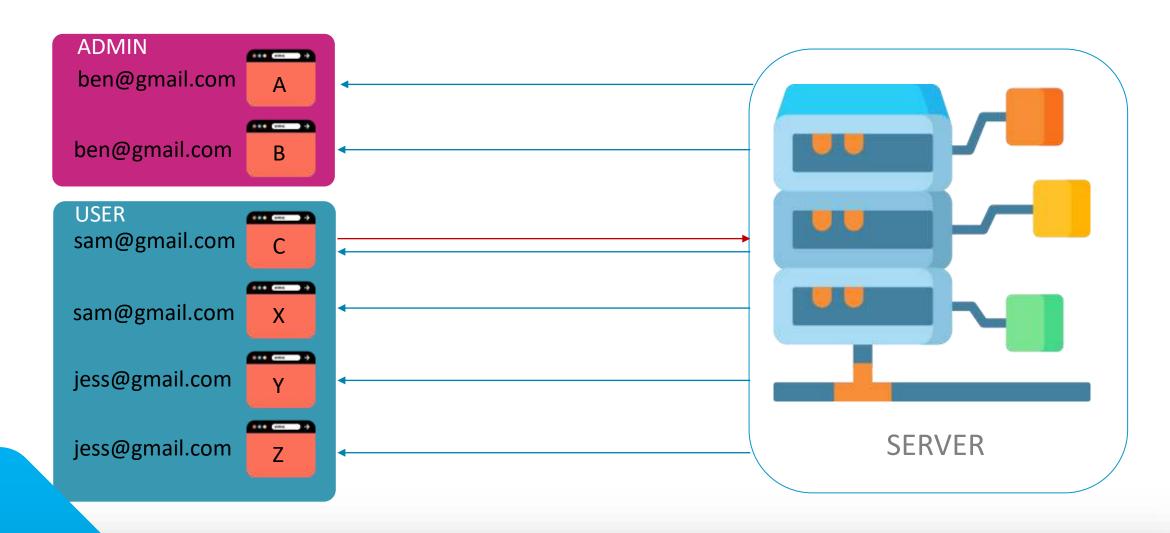


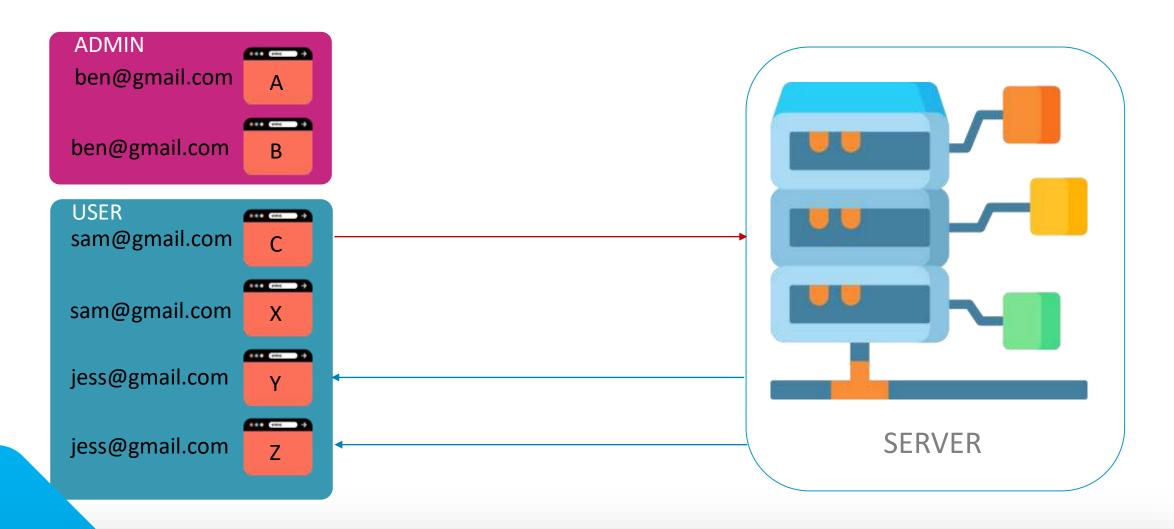


await Groups.AddToGroupAsync("Context.ConnectionId", "admin");
await Groups.RemoveFromGroupAsync("Context.ConnectionId", "admin");









```
await Clients.All.SendAsync("ReceiveMessage", user, message);
await Clients.Caller.SendAsync("ReceiveMessage", user, message);
await Clients.Others.SendAsync("ReceiveMessage", user, message);
await Clients.Client("Connection Id - A").SendAsync("ReceiveMessage", user, message);
await Clients.Clients("Connection Id - A", "Connection Id - B").SendAsync("ReceiveMessage", user, message);
await Clients.AllExcept("Connection Id - A", "Connection Id - C").SendAsync("ReceiveMessage", user, message);
await Clients.User("ben@gmail.com").SendAsync("ReceiveMessage", user, message);
await Clients.Users("ben@gmail.com", "jess@gmail.com").SendAsync("ReceiveMessage", user, message);
await Groups.AddToGroupAsync(Context.ConnectionId, "GroupName");
await Groups.RemoveFromGroupAsync(Context.ConnectionId, "GroupName");
await Clients.Group("admin").SendAsync("ReceiveMessage", user, message);
await Clients.OthersInGroup("admin").SendAsync("ReceiveMessage", user, message);
await Clients.Groups("admin", "user").SendAsync("ReceiveMessage", user, message);
await Clients.GroupExcept("admin", "sam@gmail.com").SendAsync("ReceiveMessage", user, message);
```