Set up UDP Client and Server on LP devices and on AWS EC2 Instance
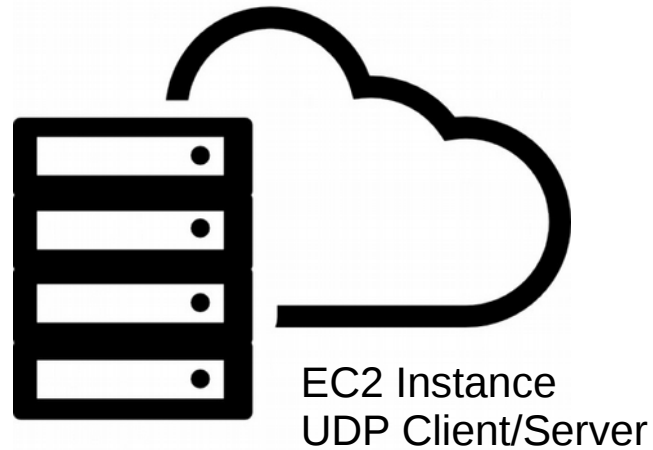

EC2 Instance
UDP Client/Server

LP1
UDP Client/Server

LP2
UDP Client/Server

EC2 Instance
UDP Client/Server
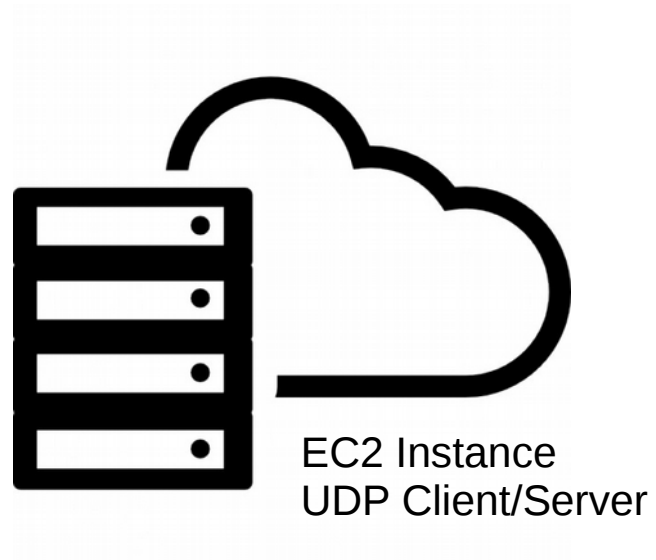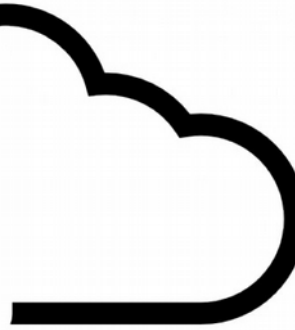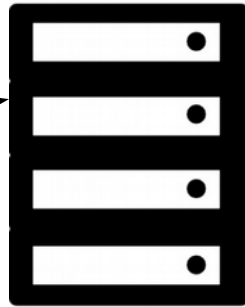
Press SW3 button on LP1

LP1
UDP Client/Server

LP2
UDP Client/Server

LP1 sends begin message packet to EC2

EC2 Instance
UDP Client/Server

UDP

LP1
UDP Client/Server

LP2
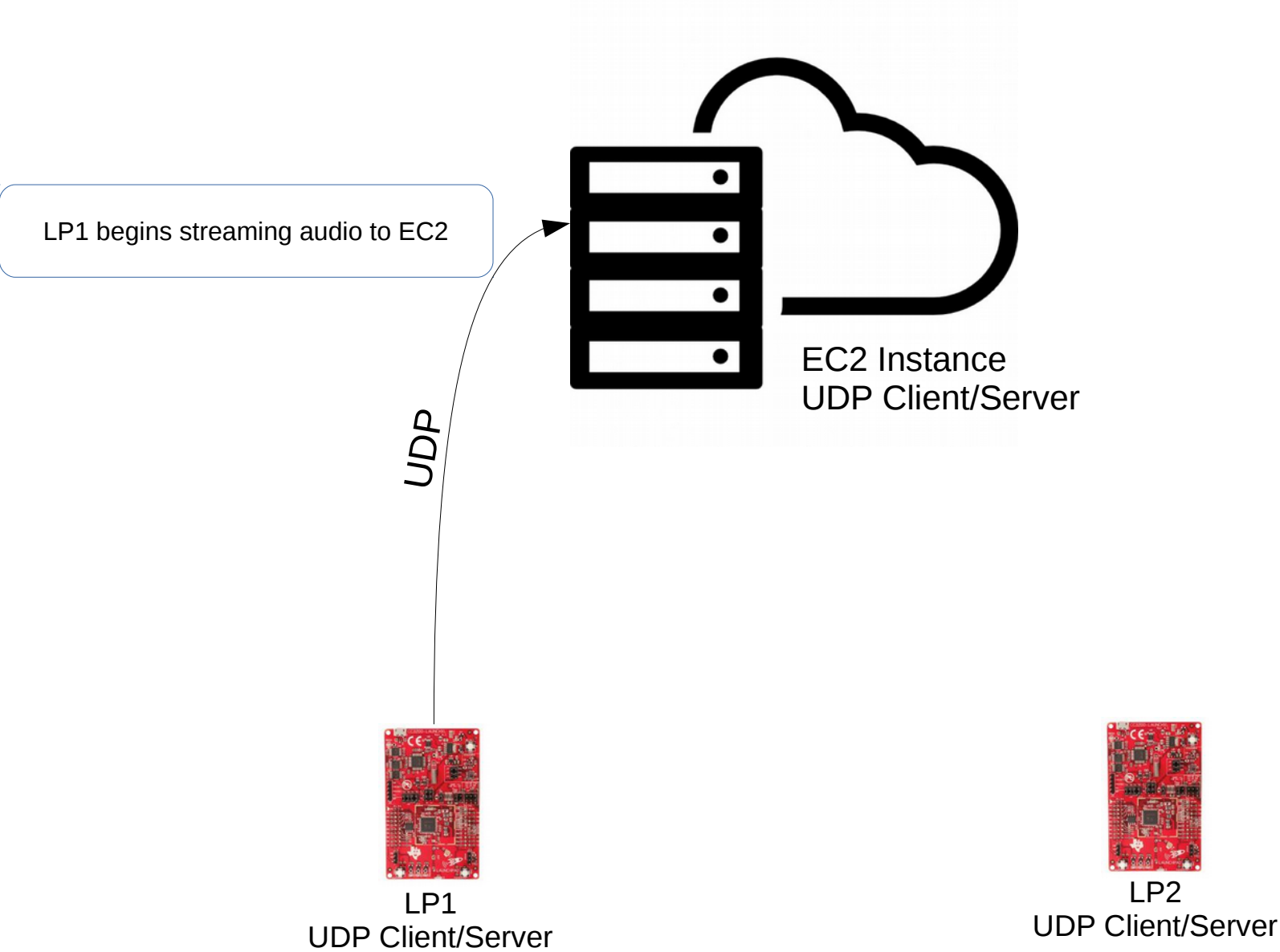UDP Client/Server

LP1 begins streaming audio to EC2

EC2 Instance
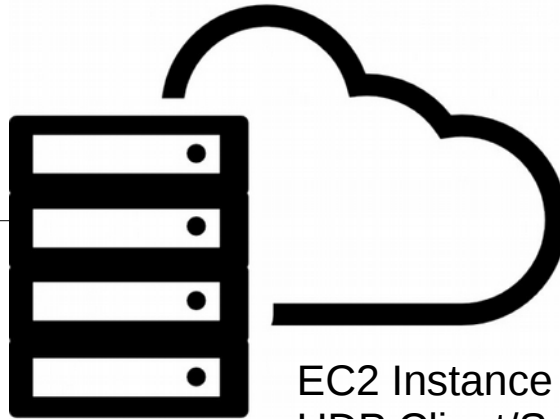UDP Client/Server

UDP

LP1
UDP Client/Server

LP2
UDP Client/Server
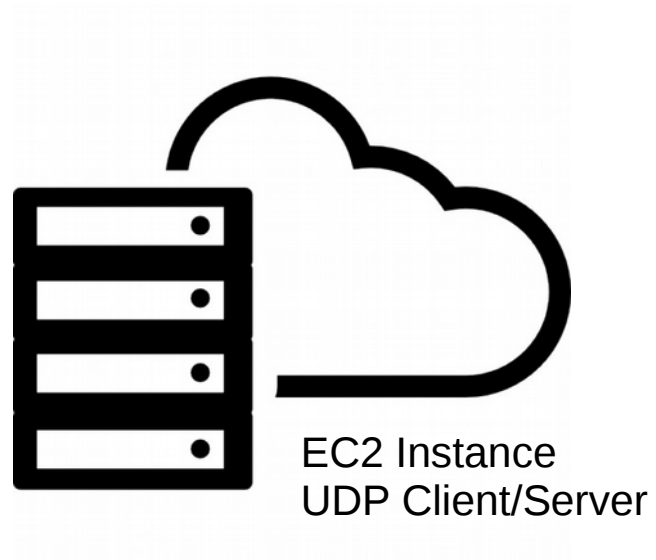
EC2 UDP server writes audio stream to file

011001...

EC2 Instance
UDP Client/Server
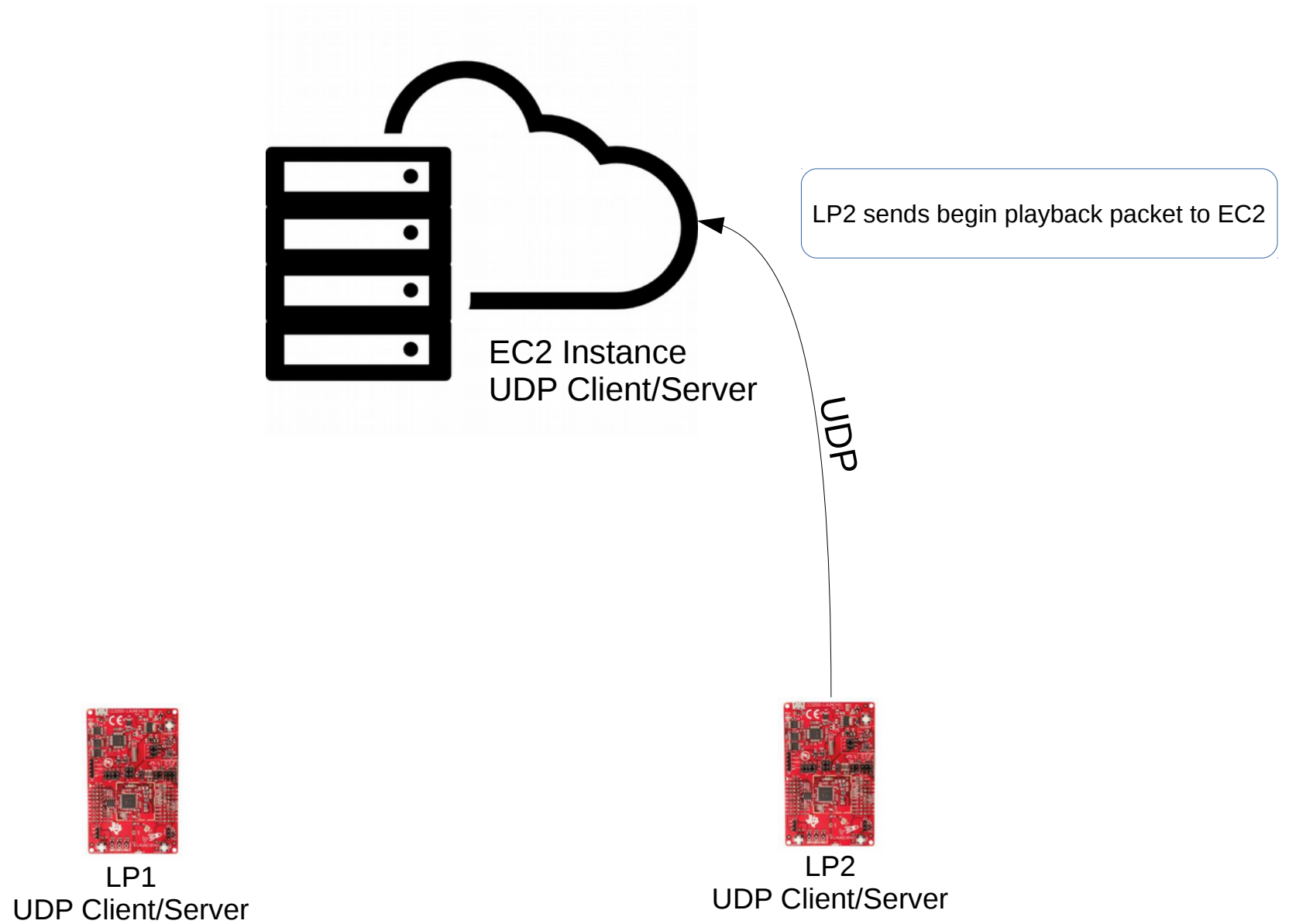
LP1
UDP Client/Server

LP2
UDP Client/Server

EC2 Instance
UDP Client/Server

LP1
UDP Client/Server

LP2
UDP Client/Server

Press SW2 button on LP2

EC2 Instance
UDP Client/Server

LP2 sends begin playback packet to EC2

UDP

LP1
UDP Client/Server

LP2
UDP Client/Server

011001...

EC2 opens file and begins streaming audio to LP2

EC2 Instance
UDP Client/Server

UDP

LP1
UDP Client/Server

LP2
UDP Client/Server
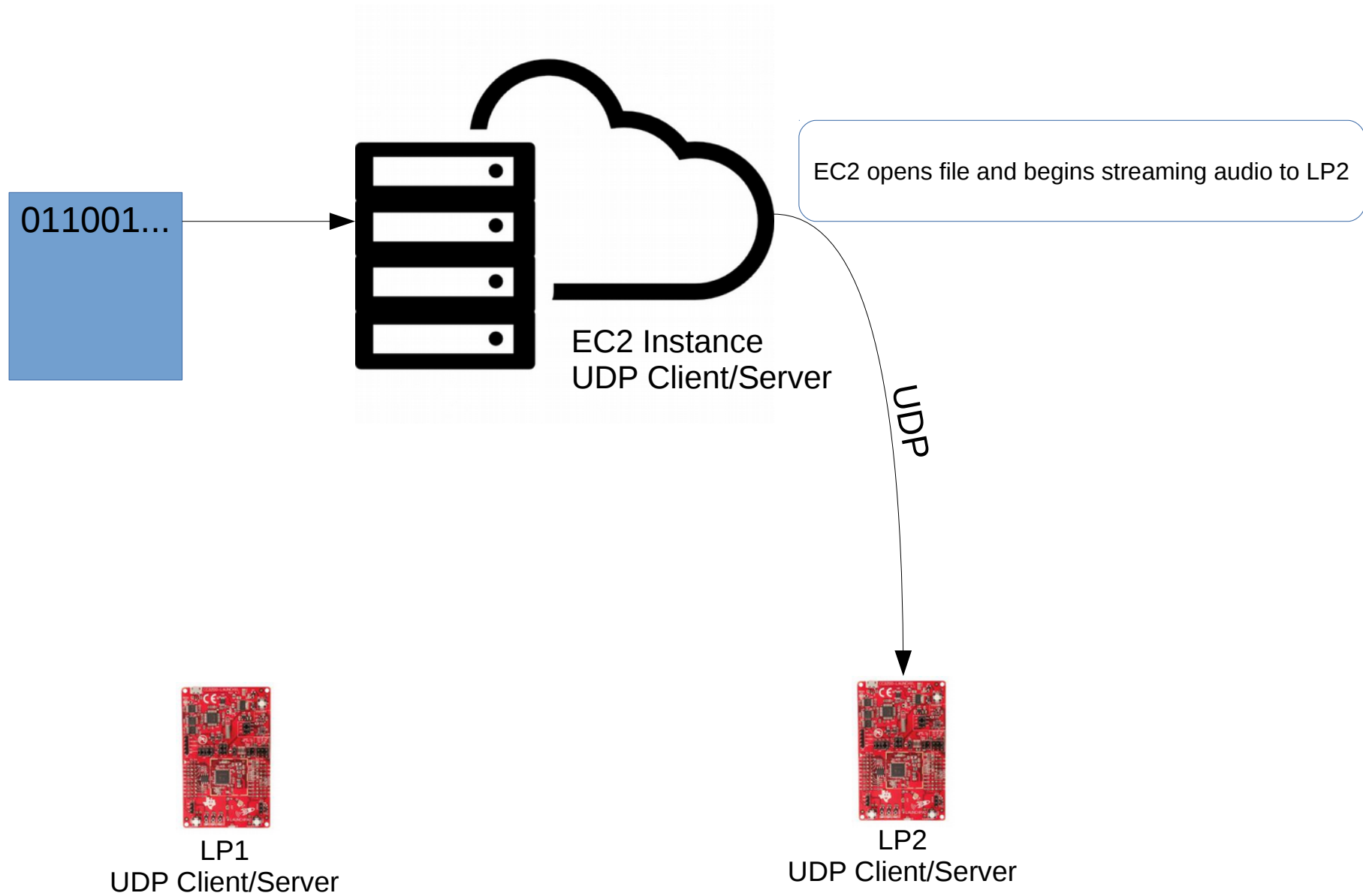
LP1 and LP2 can switch roles

EC2 Instance
UDP Client/Server

LP1
UDP Client/Server

LP2
UDP Client/Server