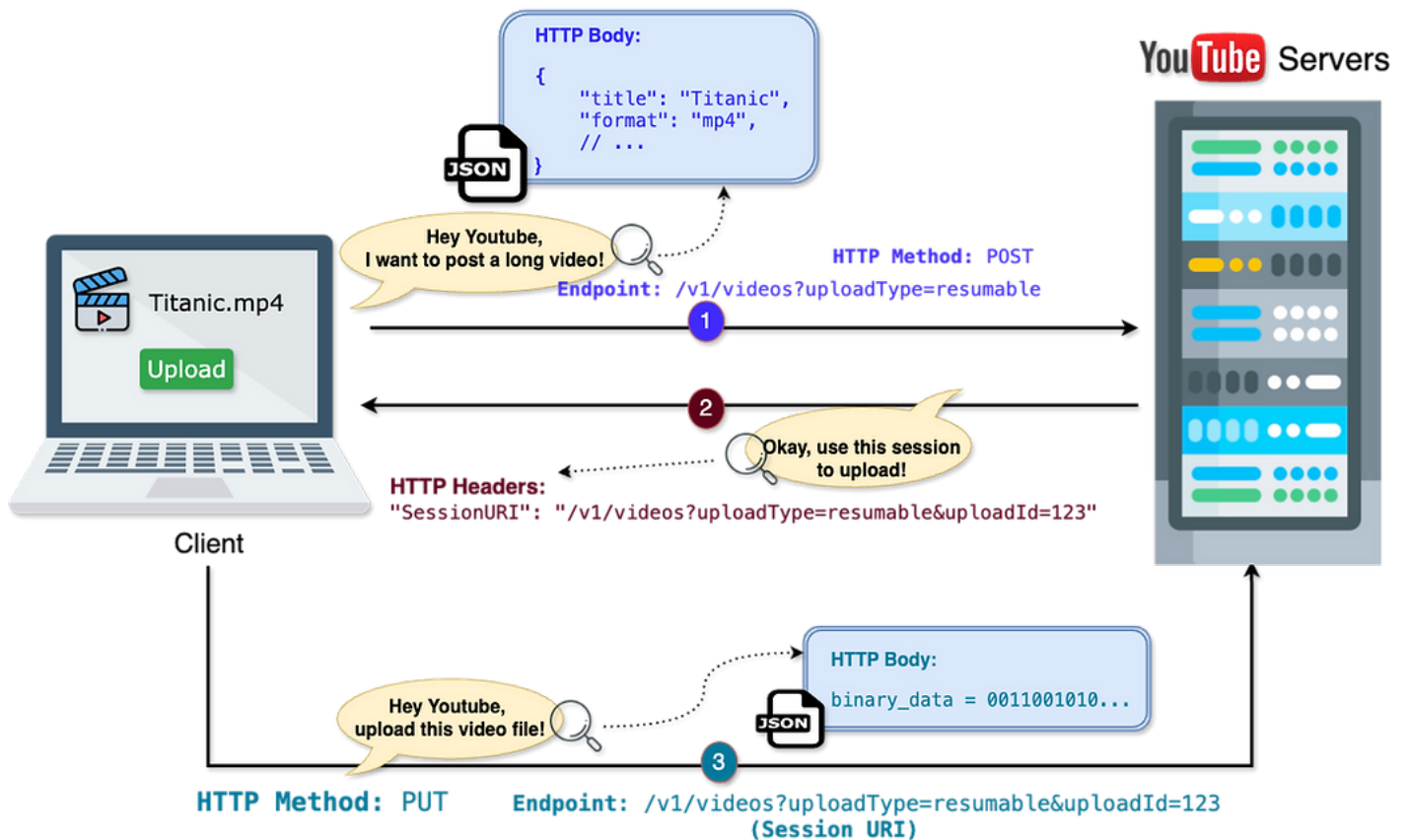
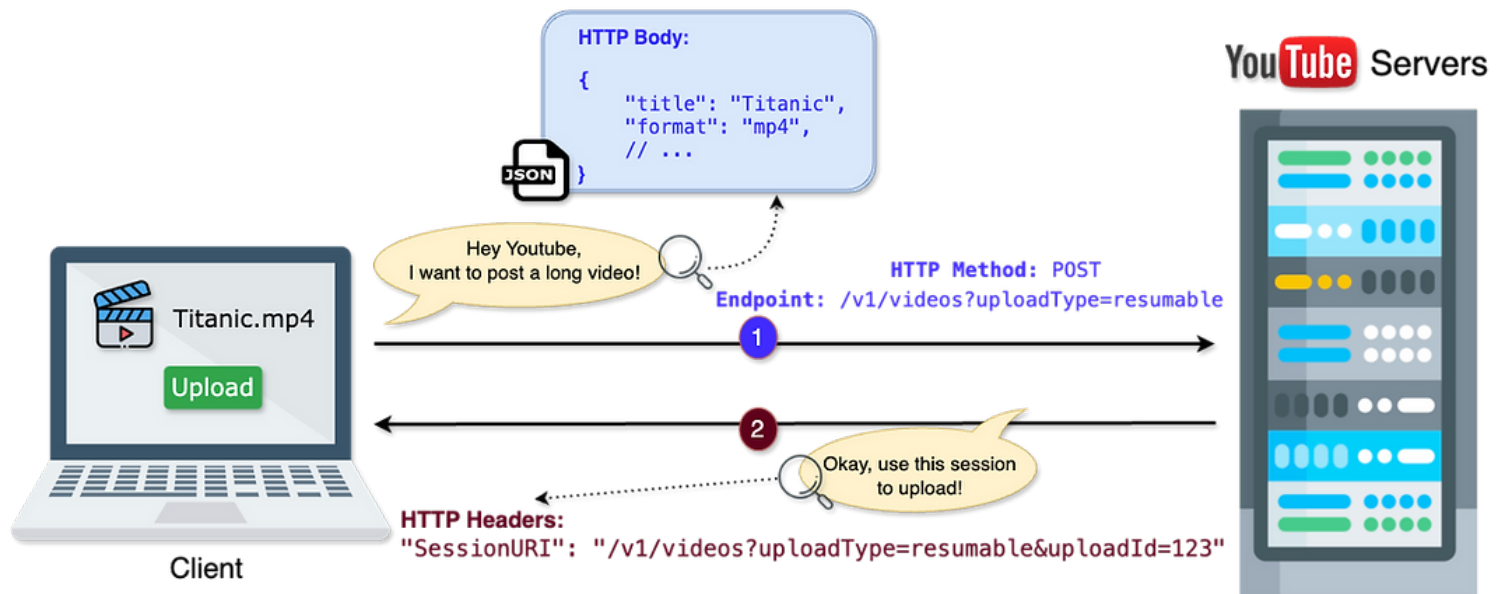
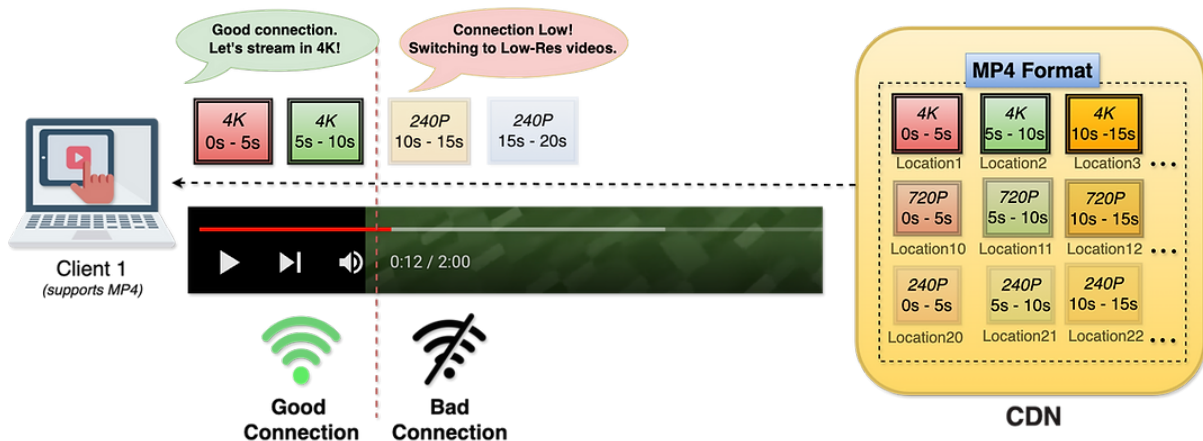
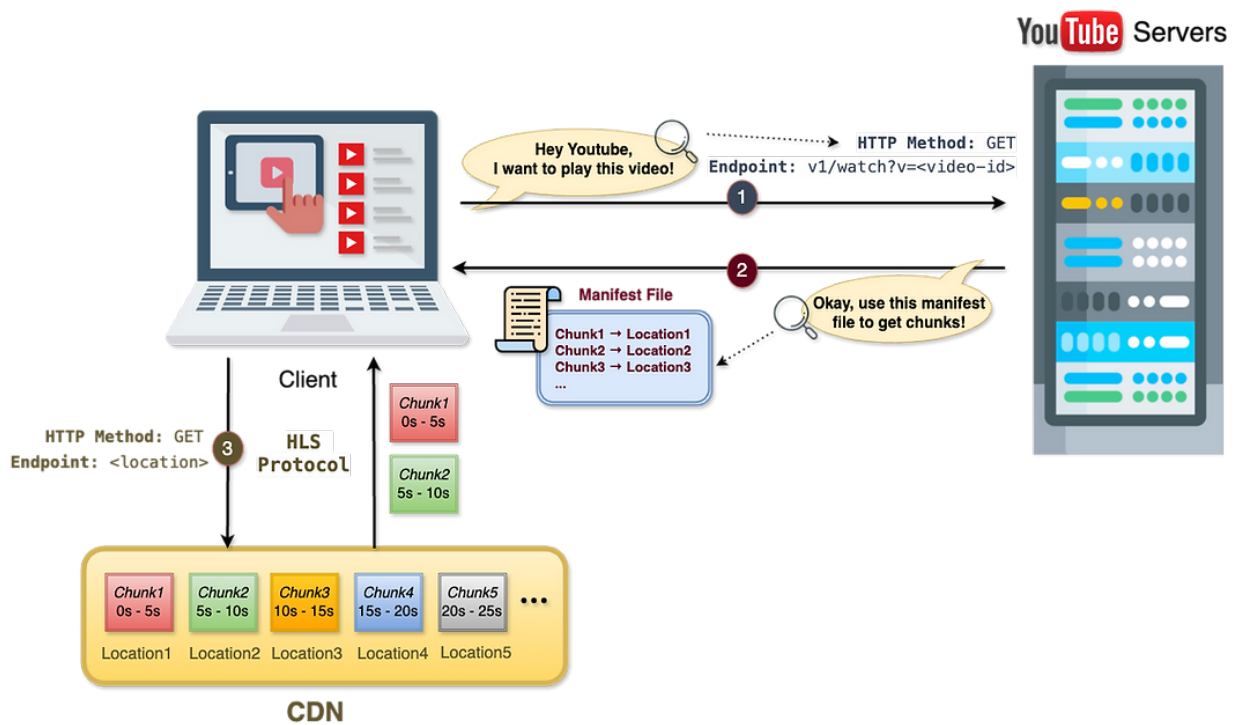
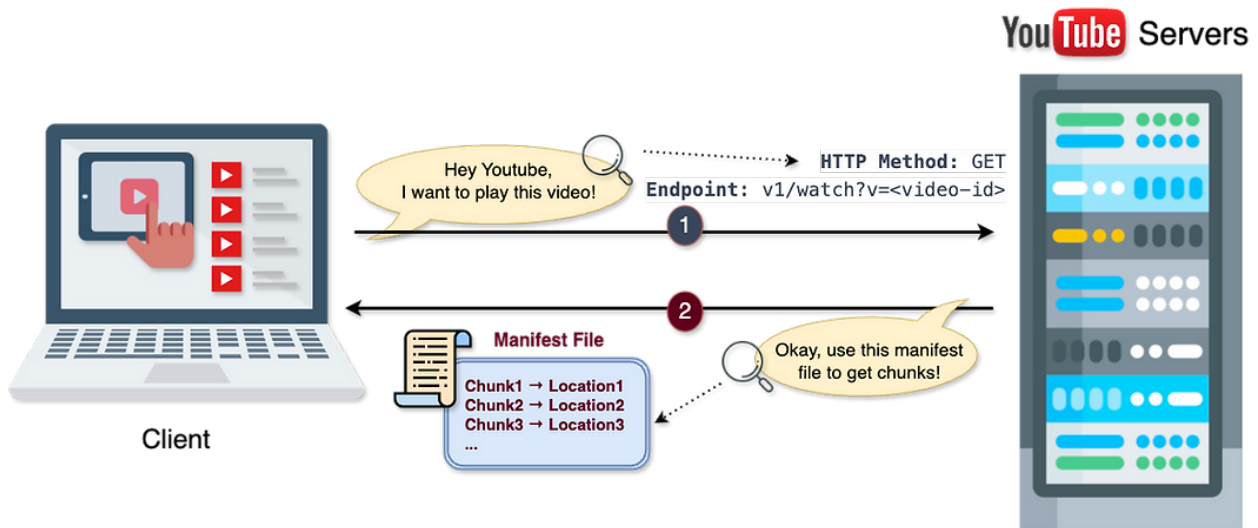


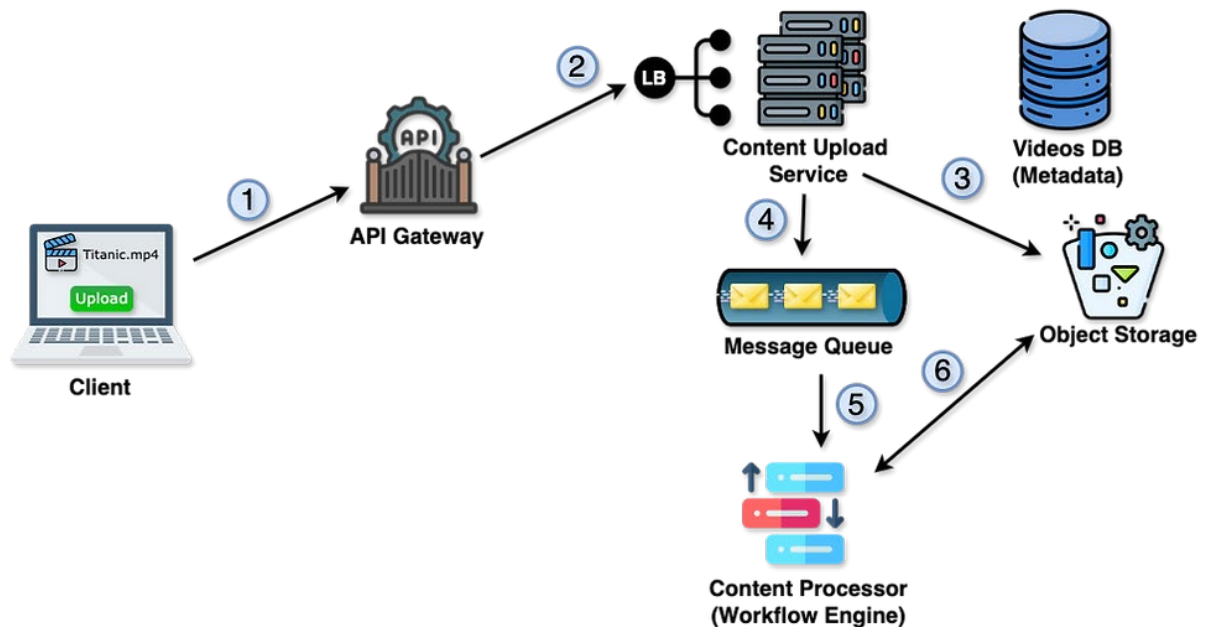
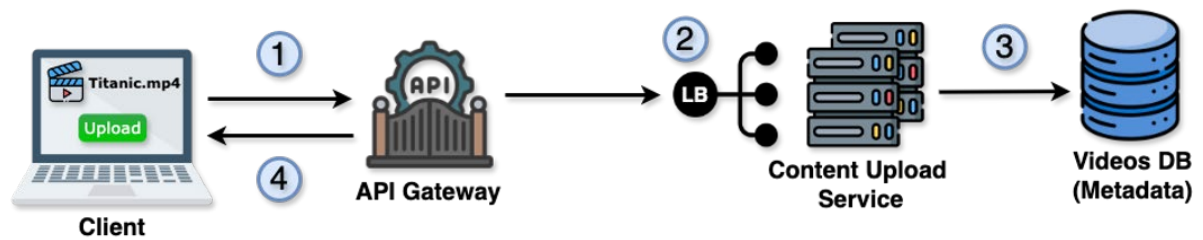
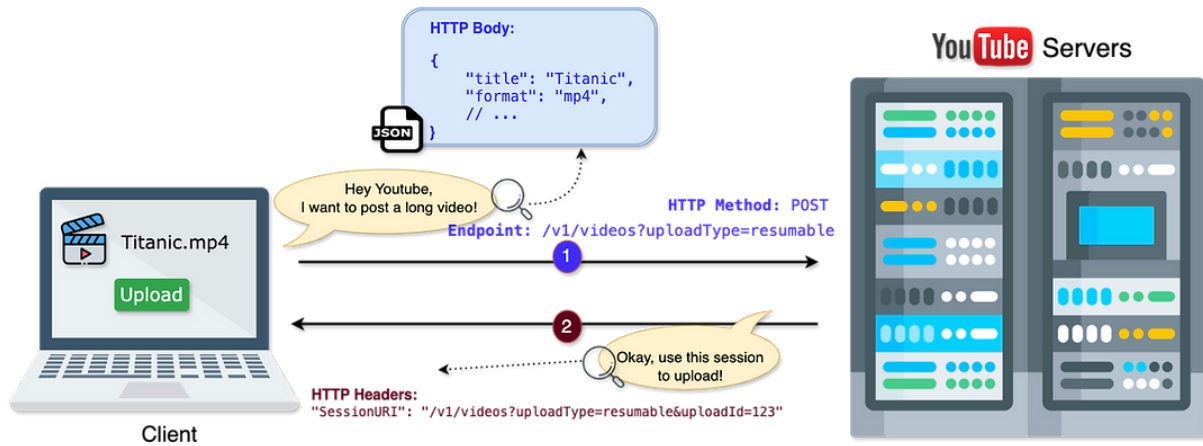
API DESIGN-Upload Content

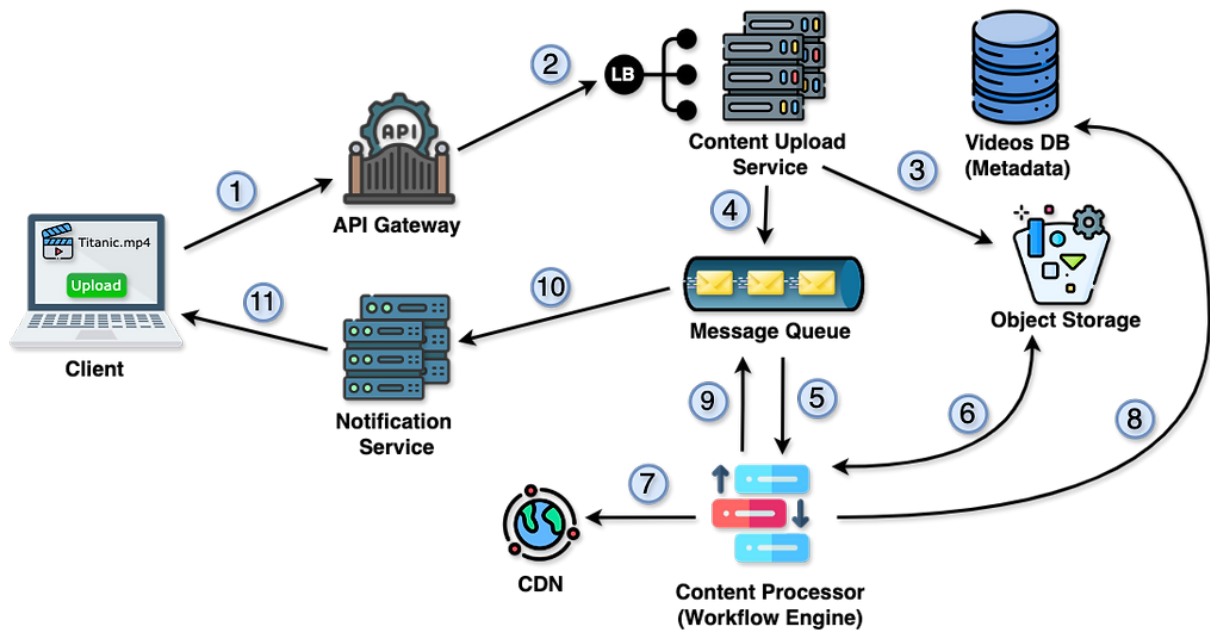


API DESIGN-Stream Content

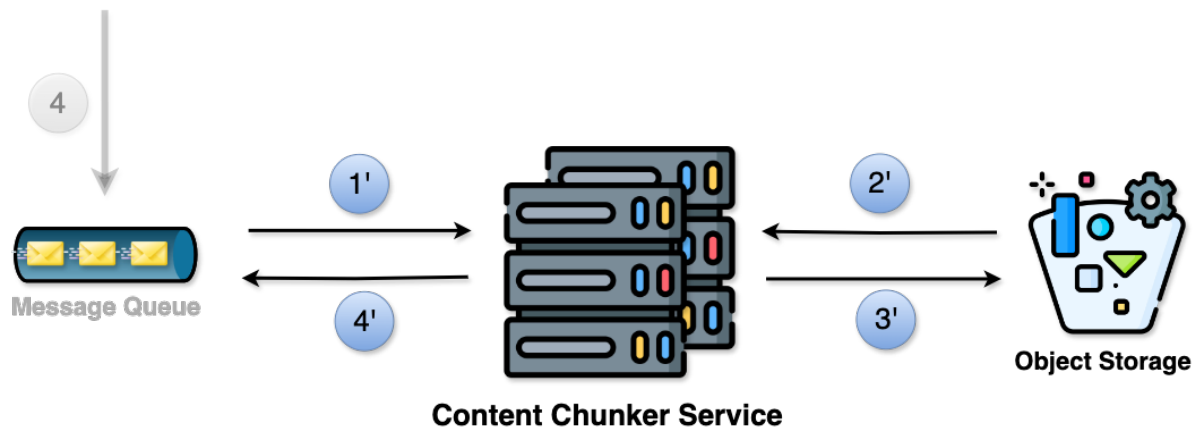


High Level Design-Upload Content

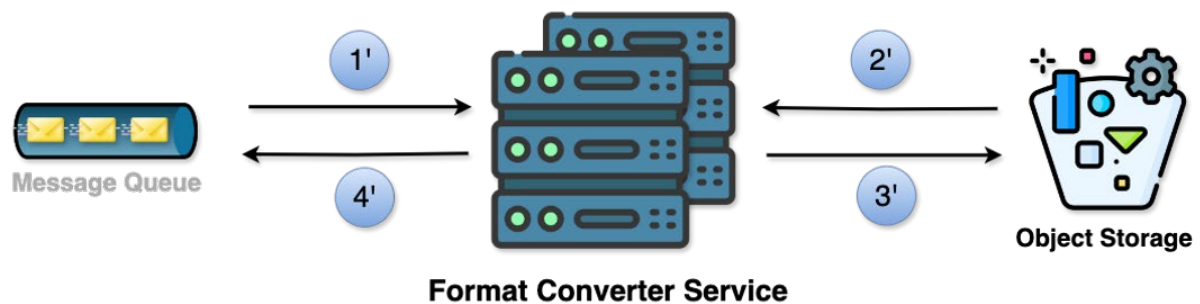




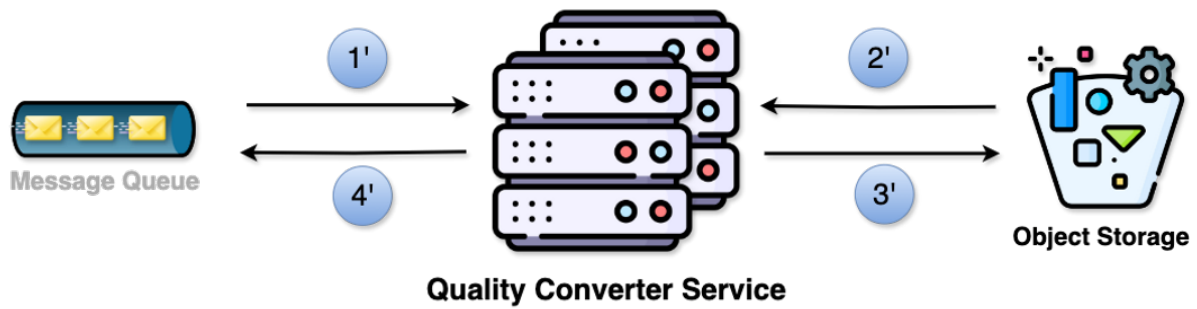
Content Chunker Service



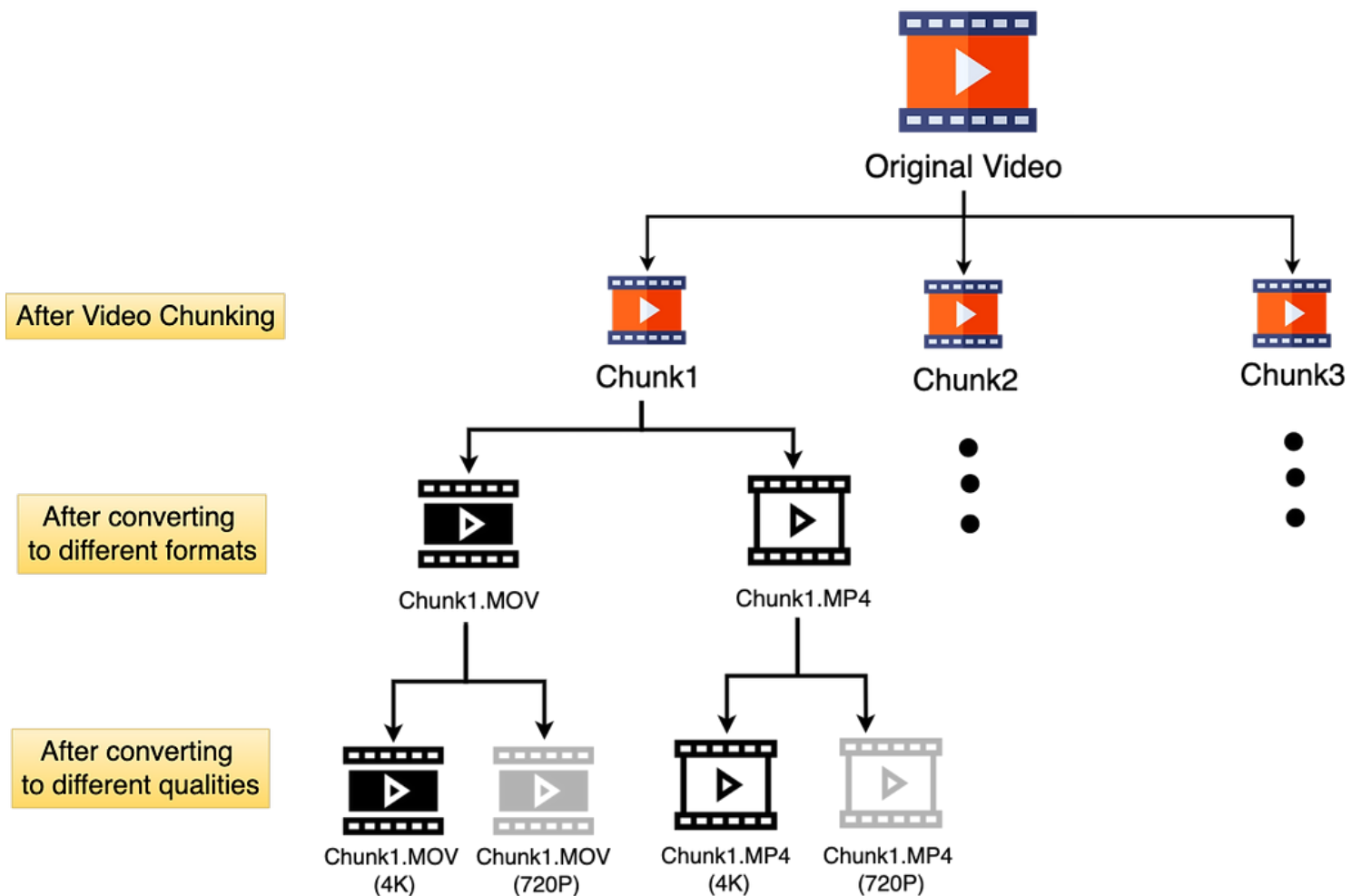
Format Converter Service



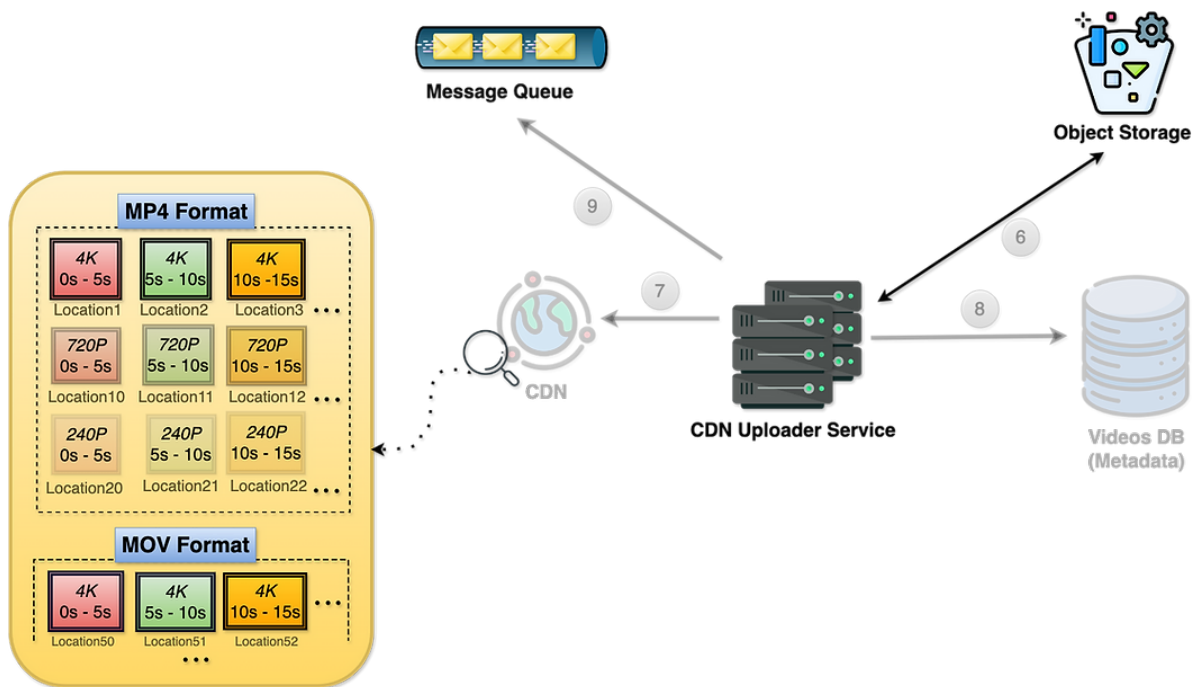
Quality Converter Service



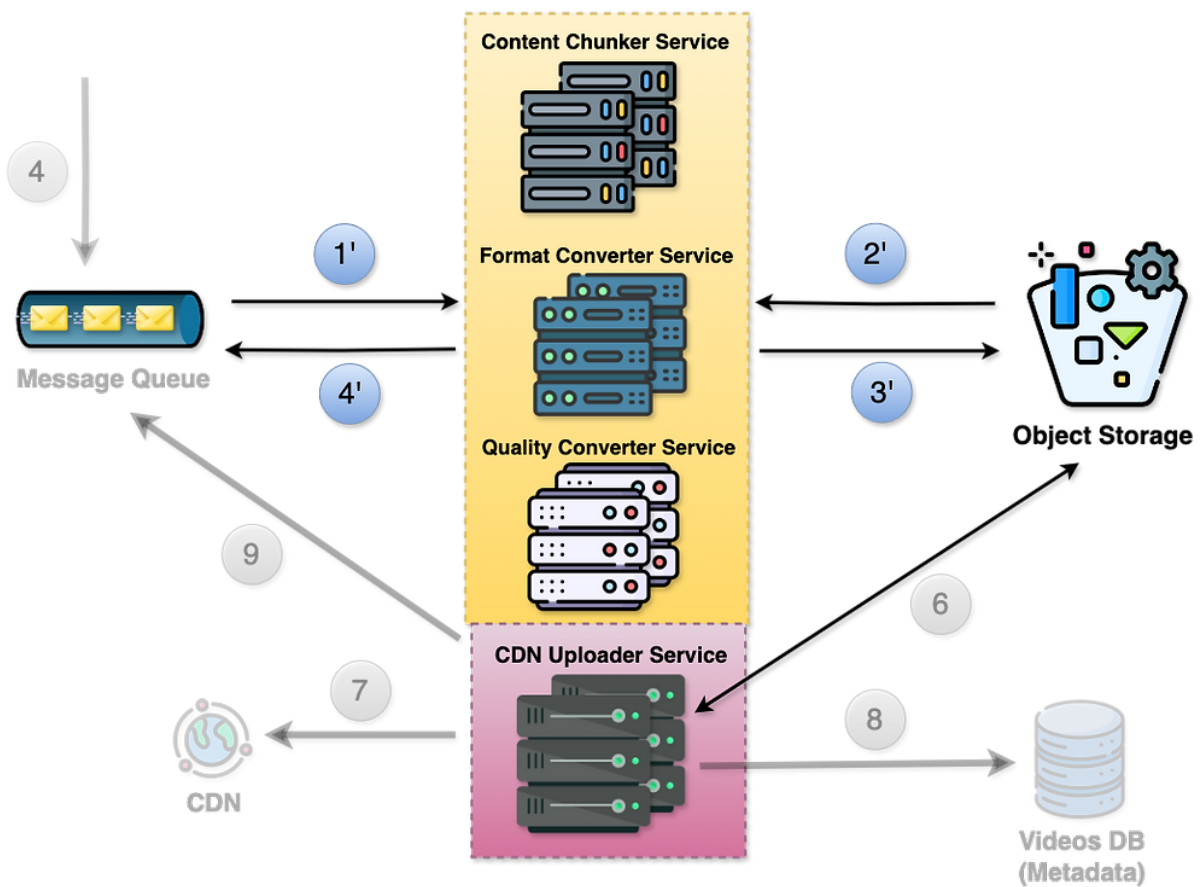
Chunking Videos



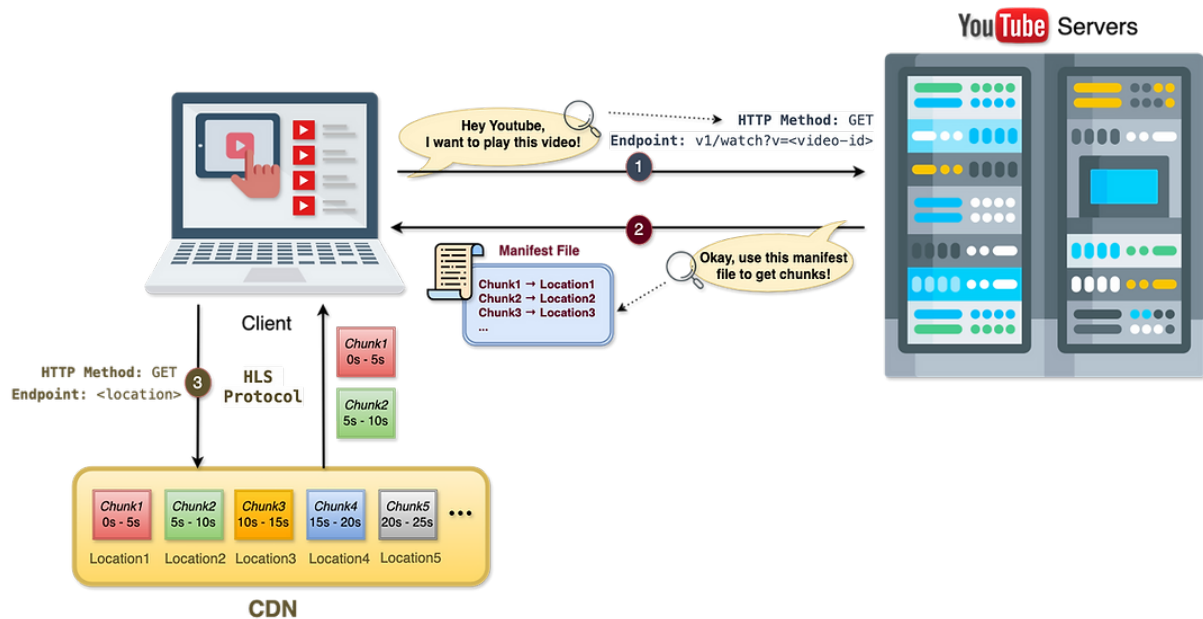
CDN Uploader Service



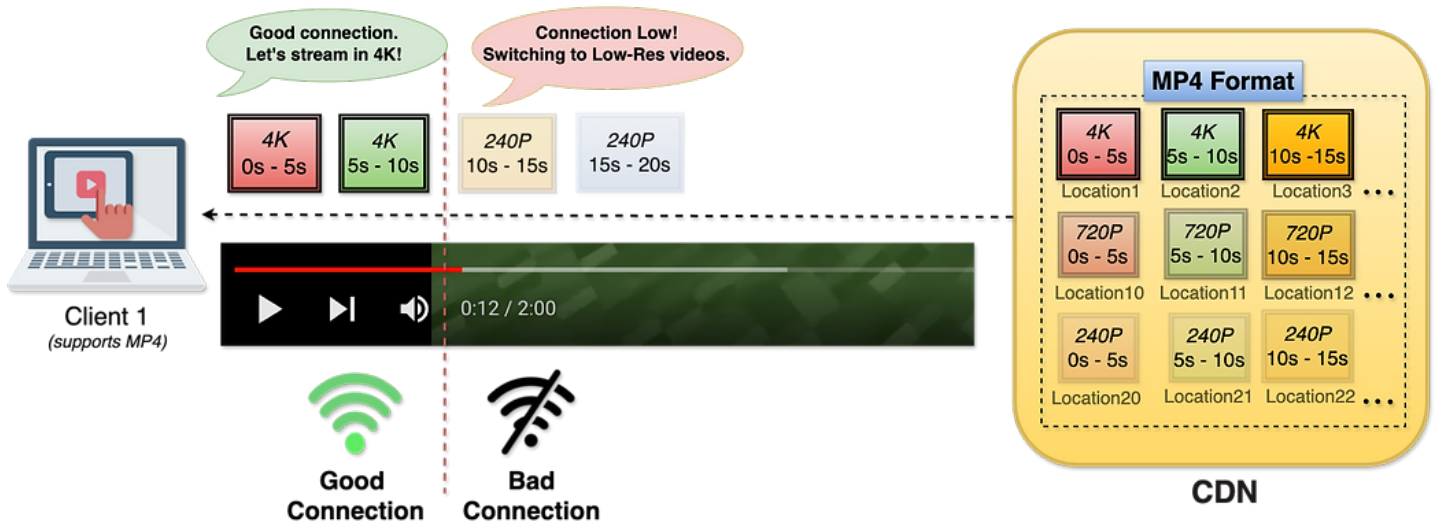
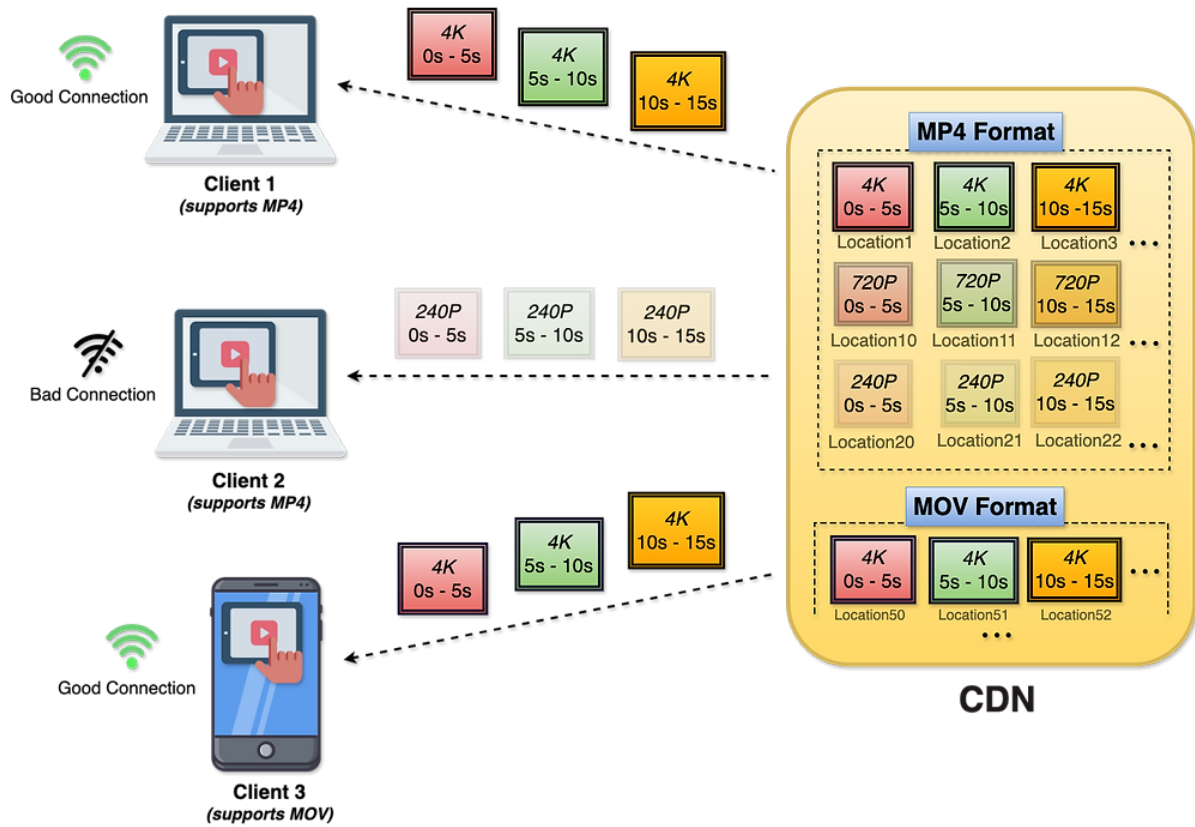
Overall Chunking Flow



High Level Design-Stream Content



Chunk	Parent Video	Format	Quality	Location
Chunk1 (0s - 5s)	Video1	MP4	4K	Location1
Chunk2 (5s - 10s)	Video1	MP4	4K	Location2
...				
Chunk10 (0s - 5s)	Video1	MP4	720P	Location10
...				
Chunk50 (0s - 5s)	Video1	MOV	4K	Location50



Video's DB Schema



**Videos DB
(Metadata)**

```
{
  "videoId": "unique_video_id",

  // Technical Metadata
  "format": "mp4",
  "duration": "length_of_video_in_s",
  ...

  // General Metadata
  "creatorId": "creator_id",
  "title": "video_title",
  "description": "video_description_text",
  ...

  // Content Delivery Metadata
  "cdnUrls" : {
    "MP4": {
      "4K": ["chunkurl1", "chunkurl2", ...],
      "720P": ["chunkurl1", "chunkurl2", ...],
      ...
    }
    "MOV": {
      "4K": ["chunkurl1", "chunkurl2", ...],
      "720P": ["chunkurl1", "chunkurl2", ...],
      ...
    }
    ...
  }
}
```

Chunking Workflow

