Upload videos - ingestion Feed / timeline of videos - distribution Storage of videos

videos of 10 seconds allowed convert into different formats and resolutions

- highly available
- · eventually consistent
- once i click on upload btn, the video should be uploaded as soon as possible
- There can a little delay between videos shown to followers after the video gets uploaded
- · fault tolerant
- · highly scalable

1 billion users in total 10% DAU - 10 million 100000 creators

write to read ratio = 1:100 200 files for 4 format each = 800 files * 3 resolutions = 2400 files 200 K videos per day * 100 MB = 200 GB 200 GB * 3 formats = 600 GB

