Assumptions

- Total users - 50k
- Daily Active Users = 1667 -> 50k / 30
- Daily posts = 2500 -> 50% of the users posts 3 times a month, 50% * 50k * 3 / 30 = 2500
- AVG post size is 50MB
- Storage = 50MB * 2500 * 30 = ~3.75 TB = 4TB
- Daily Viewer Users = 40k -> 80% * 50k
- Daily Viewer Users Requests Per Second = 5 requests per second -> every user make 10 request a day 40k users per -> 40k*10/24/60/60
- Daily Viewed Posts Reads = 40k users consume in avg 15 posts a day -> 40000*15/24/60/60 -> 7 posts per second * 1MB -> 7MB metadata read per second
- Monthly Write to s3 -> 4TB + Read (40000*15*50MB) 29TB