



Backend Engineer Assignment



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Summary

Develop APIs to upload media file, transcode it to given format and also generate a sharable (public/private) URL for someone to download or play the media.

Also, develop APIs for doing analytics on video consumption, transcoding etc.

API Scope

- Upload any Video/Audio formats
- Extract Information
 - File type
 - Duration
 - Video/Audio stream info
 - size
- Transcode to other formats
- Create sharable URL
 - Private
 - Public
- Analytics
 - Views
 - Like/Dislike
 - Video Info
 - Type of formats users are uploading
 - Avg duration of video
- Crash Analytics [what, when , where failed]

General Requirements

- Use framework of your choice, 'flask' is preferred
- Dockerize the service
- Deploy on Google cloud or AWS
- Log the whole flow in some remote logger of your choice. (eg - Papertrail) Avoid google and AWS native loggers
- Documenting APIs using postman or Swagger or anything else of your choice.

Bonus

- Continuous Deployment workflow
- Scalability strategies (workers and queues)
- Performance strategies
- Reliability Strategies using autoscale matrices.