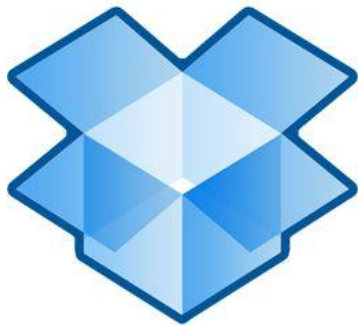


웹하드형 클라우드 스토리지를 통합한 통합형 스토리지 플랫폼

주슬기
김지훈

소개



Dropbox

SCloud



UCloud

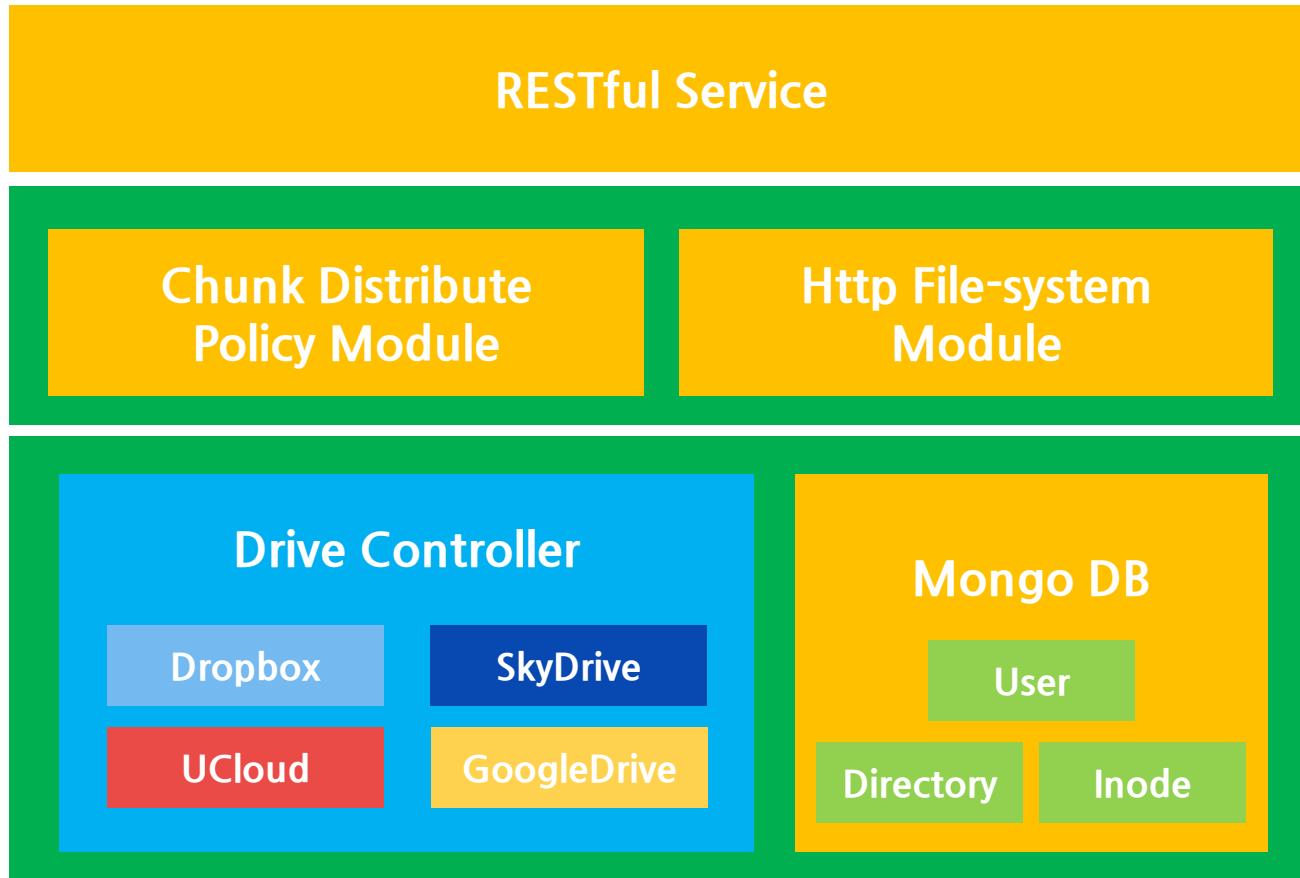


GoogleDrive

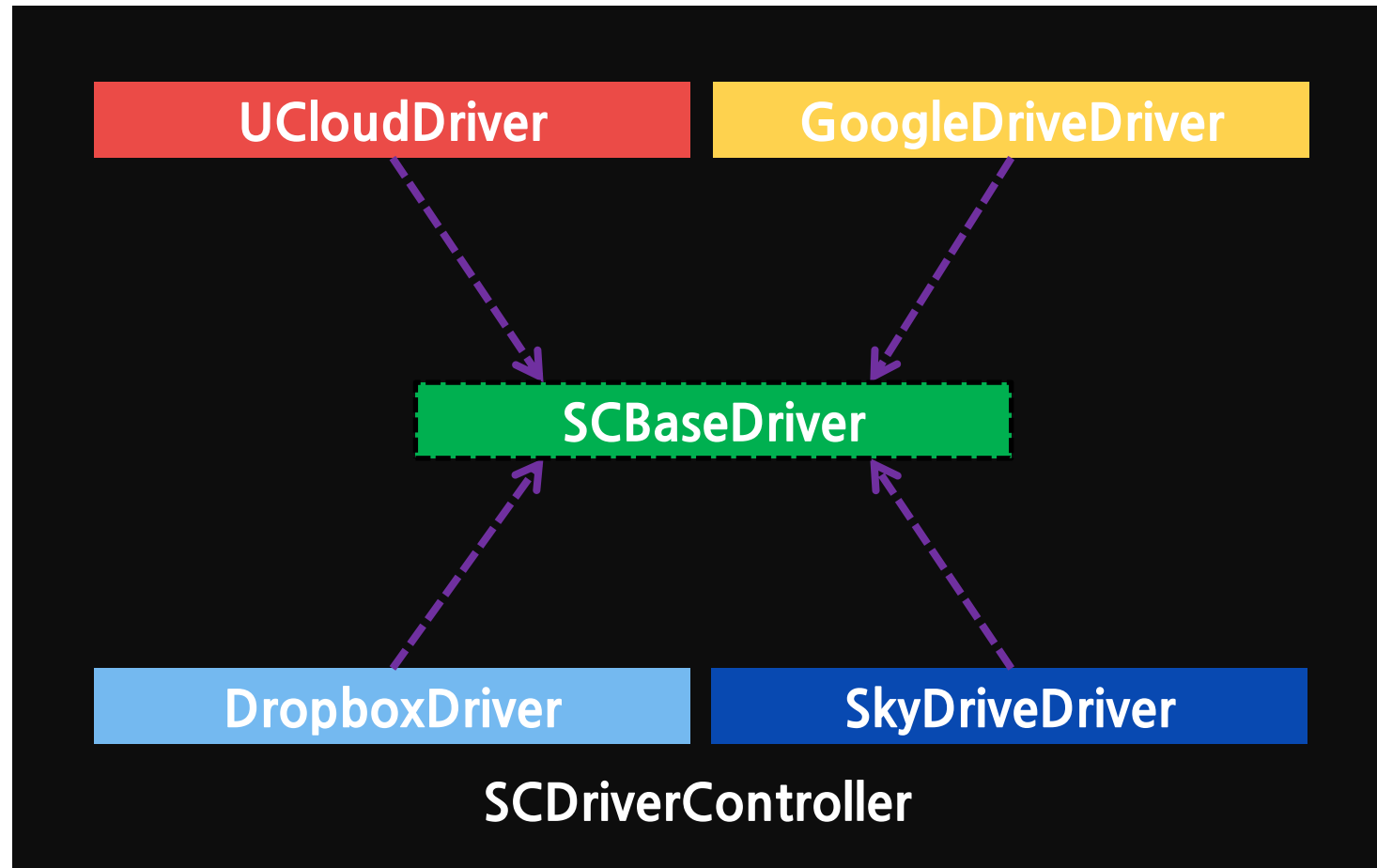
SCloud를 어떻게 만들었을까요?



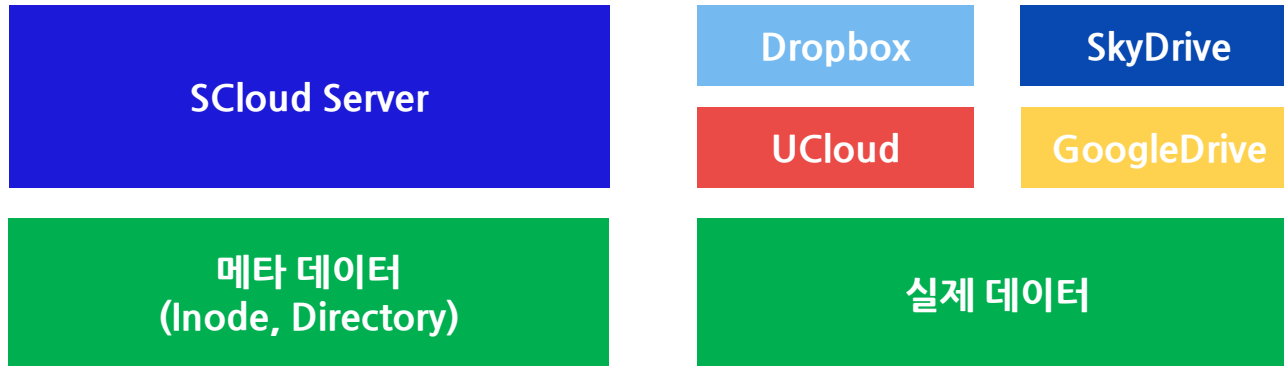
아키텍처 - 서버



서버 - Drive Controller



서버 - Http File System



Capacity

UploadComplete

Clean

BlockList

DownloadComplete

BlockInfo

RmDir

Init

MvDir

BlockMove

Upload

Move

List

Remove

Download

Exist

Mkdir

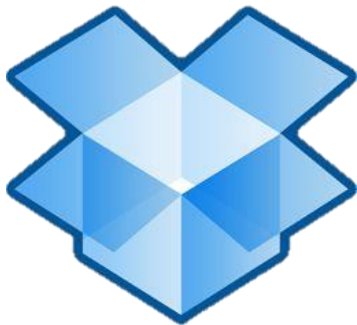
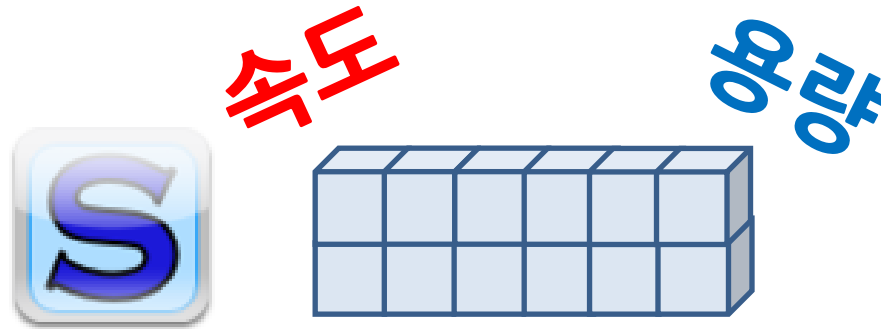
DiskFree

BlockUpload

Info

BlockDownload

서버 - Chunk 분산 모듈



Dropbox



SkyDrive

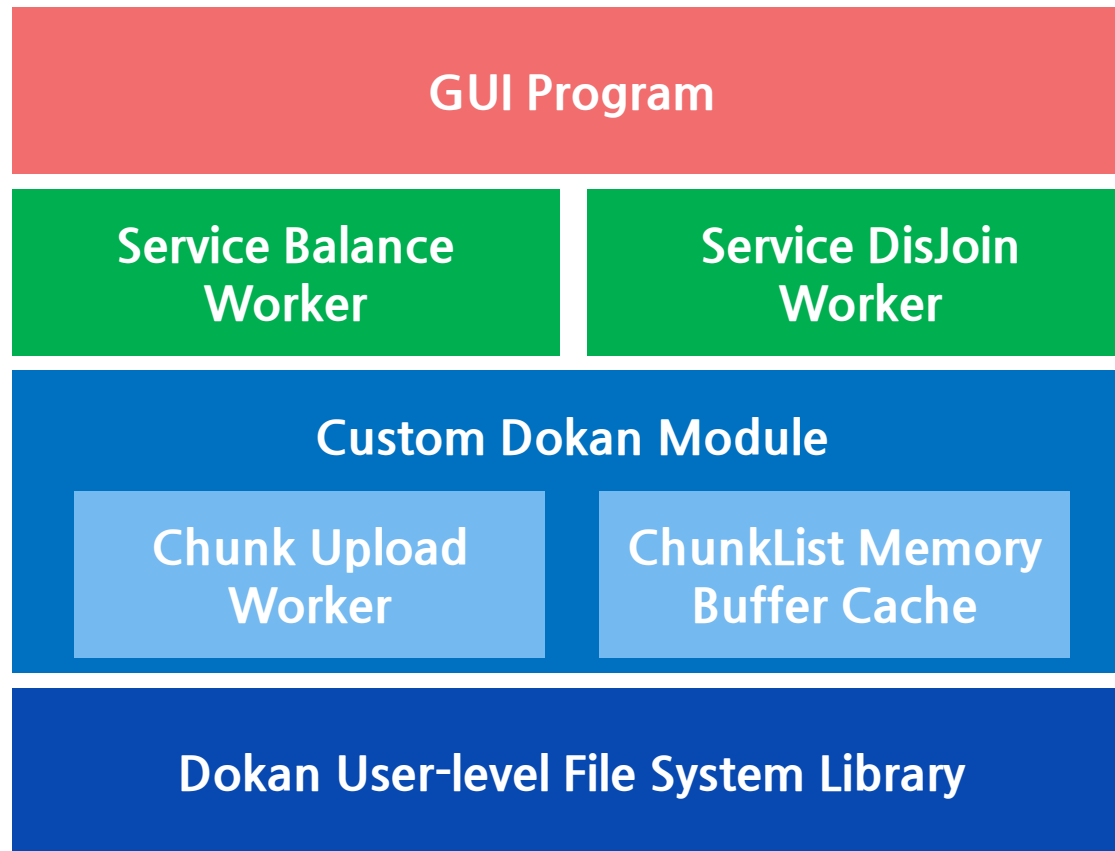


UCloud



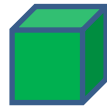
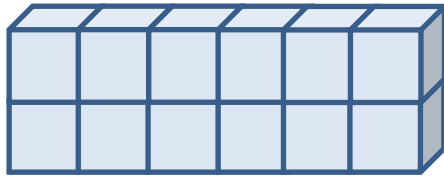
GoogleDrive

아키텍처 - 클라이언트



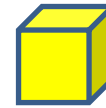
시나리오 - 파일 업로드

클라이언트

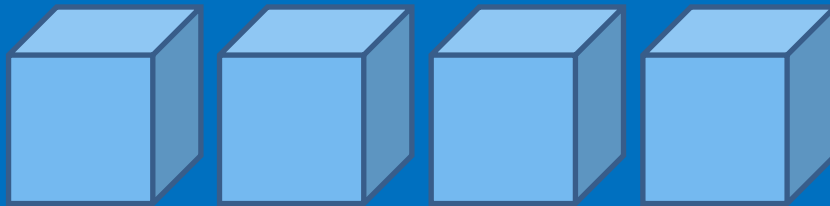


메타 데이터

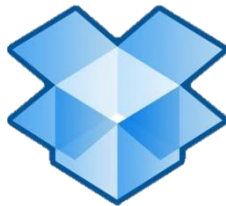
서버



JSON 데이터



Upload Worker ThreadPool



Dropbox



SkyDrive



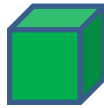
UCloud



GoogleDrive

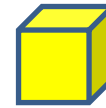
시나리오 - 파일 다운로드

클라이언트

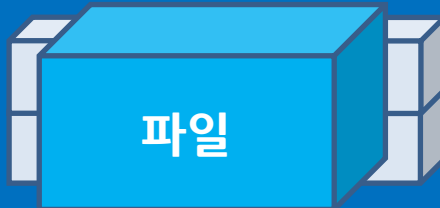


메타 데이터

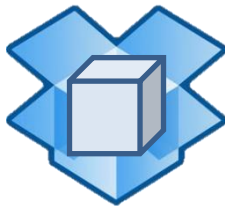
서버



JSON 데이터



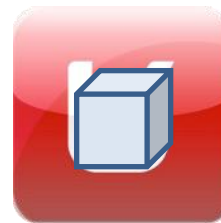
Chunk List Buffer



Dropbox



SkyDrive



UCloud



GoogleDrive

성능 - 다운로드(144MB)

138초



Dropbox

356초



SkyDrive

20초



UCloud

27초



GoogleDrive

68초







S'Cloud

끝까지 들어주셔서
감사합니다!