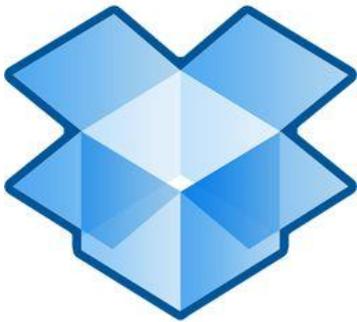


웹하드형 클라우드 스토리지를 통합한 통합형 스토리지 플랫폼

주슬기
김지훈

소개



Dropbox



SkyDrive

UCloud

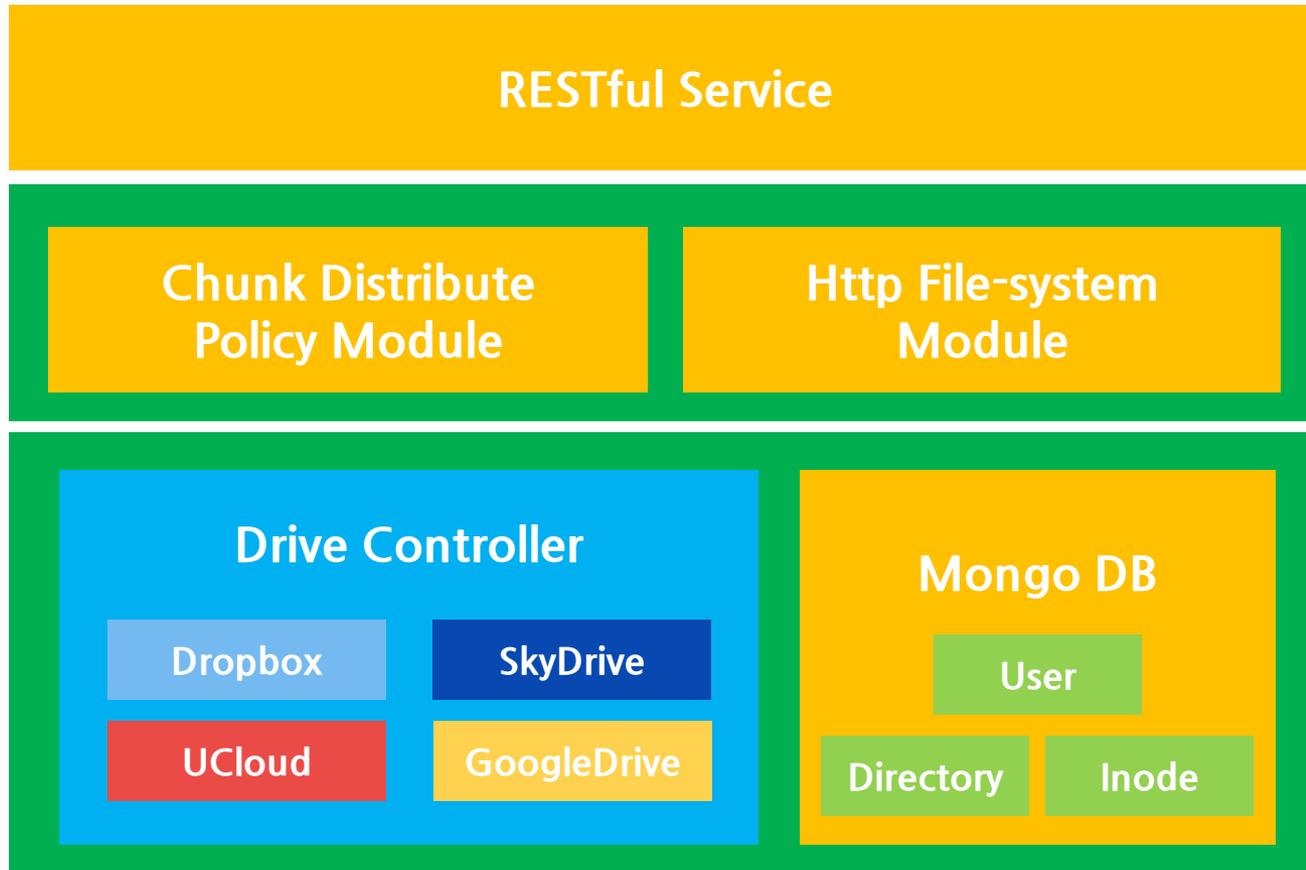


GoogleDrive

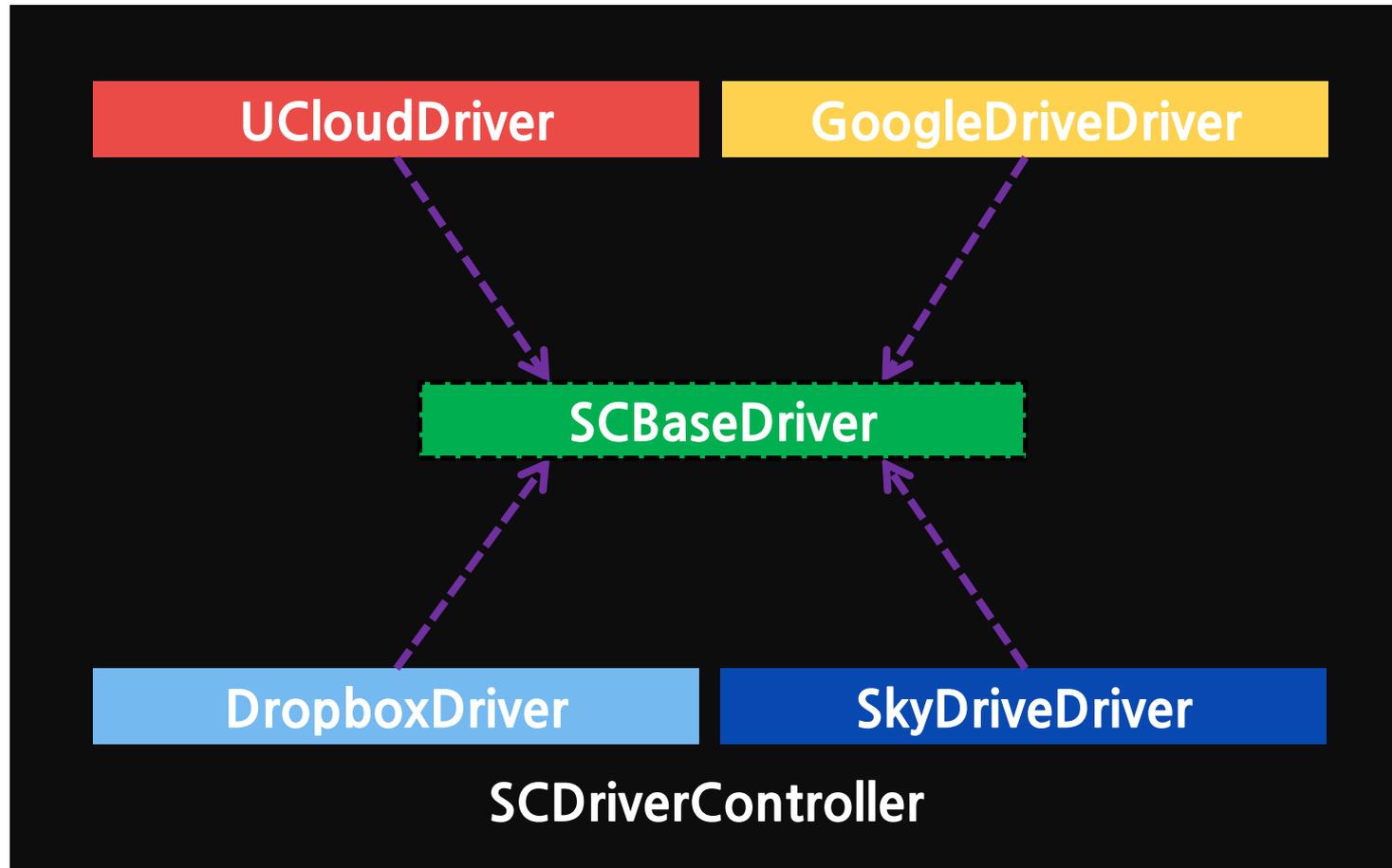
SCloud를 어떻게 만들었을까요?



아키텍처 - 서버



서버 - Drive Controller



서버 - Http File System

SCloud Server

메타 데이터
(Inode, Directory)

Dropbox

UCloud

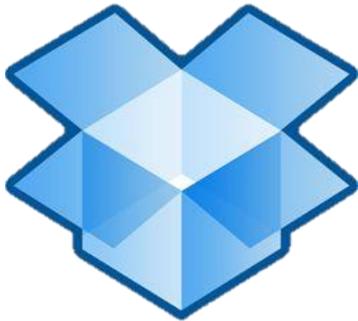
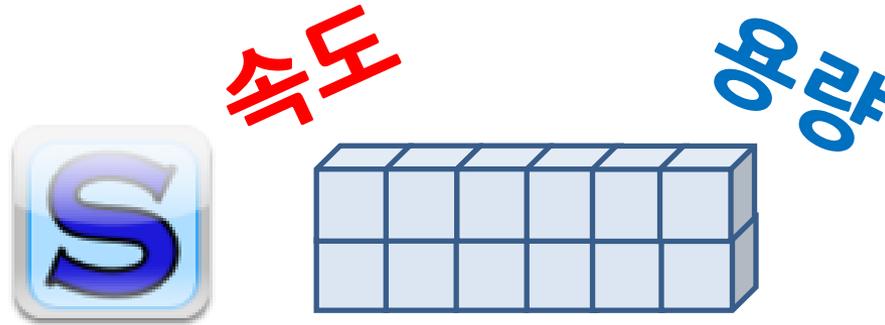
SkyDrive

GoogleDrive

실제 데이터

Capacity
Clean
BlockList
RmDir
BlockMove
Remove
DiskFree
BlockUpload
Info
UploadComplete
DownloadComplete
Upload
Download
BlockDownload
BlockInfo
Init
Move
Exist
MvDir
List
Mkdir

서버 - Chunk 분산 모듈



Dropbox



SkyDrive

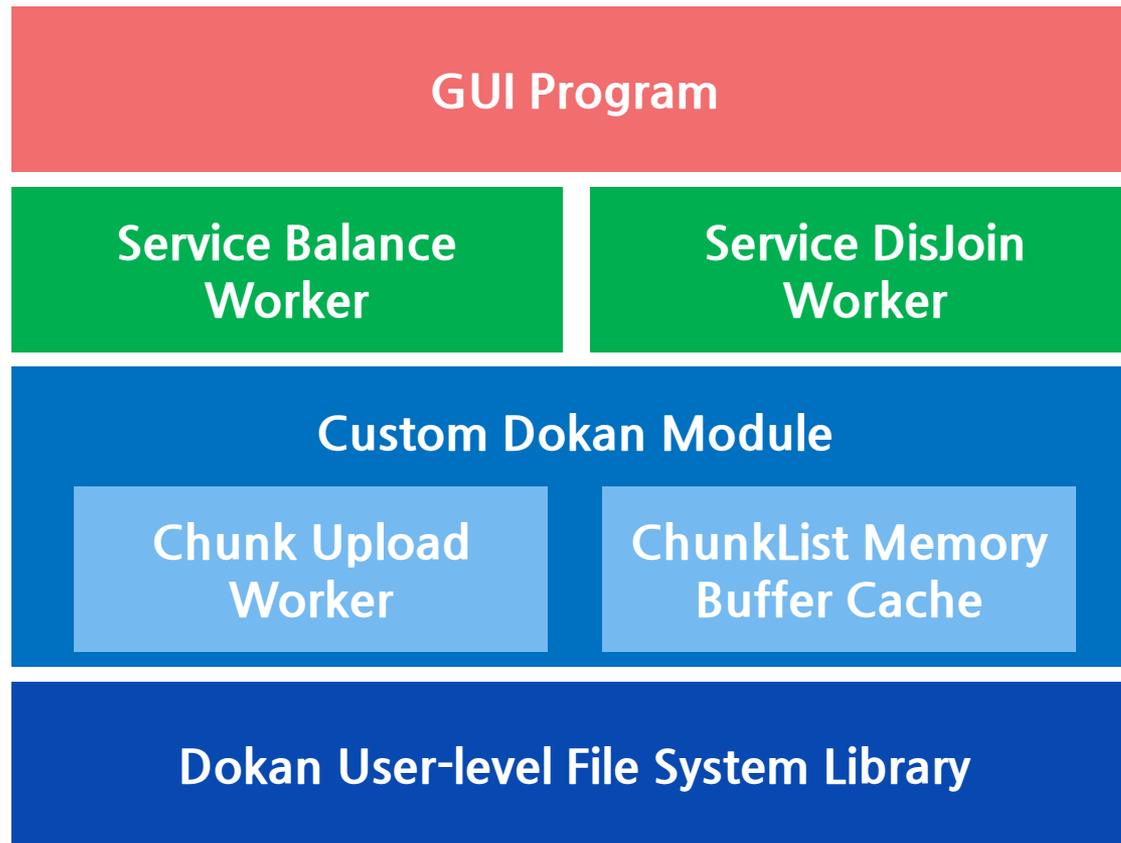


UCloud



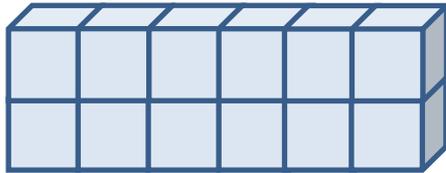
GoogleDrive

아키텍처 - 클라이언트



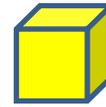
시나리오 - 파일 업로드

클라이언트

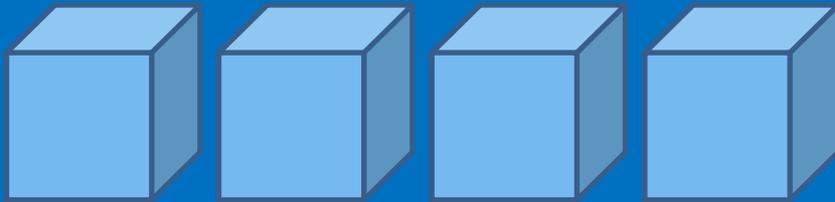


메타 데이터

서버



JSON 데이터



Upload Worker ThreadPool



Dropbox



SkyDrive



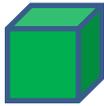
UCloud



GoogleDrive

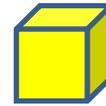
시나리오 - 파일 다운로드

클라이언트

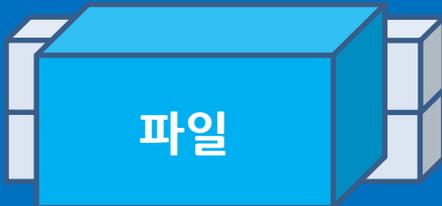


메타 데이터

서버

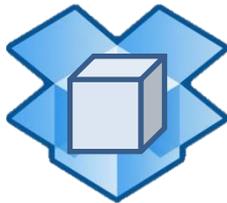


JSON 데이터



파일

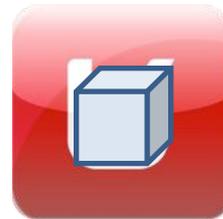
Chunk List Buffer



Dropbox



SkyDrive



UCloud



GoogleDrive

성능 - 다운로드(144MB)

138초



Dropbox

356초



SkyDrive

20초



UCloud

27초



GoogleDrive

68초







S'Cloud

끝까지 들어주셔서
감사합니다!