(대) 굿모닝아이텍(주)







굿모닝아이텍 무빙 클래스 The Lakehouse CLASS

2022년 11월 14일(월)

DX 사업본부 클라우드 사업부 김정희 부장





Chapter 0. ICE BREAKING

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https://www.linkedin.com/feed/update/urn:li:activity:6988181955502632960











Data Lakehouse (이솝이 아닌) 우화.





우리 모두가 마케팅 용어의 홍수 속에서 혼란에 빠져 있다.



2018년 Lakehouse의 태동.



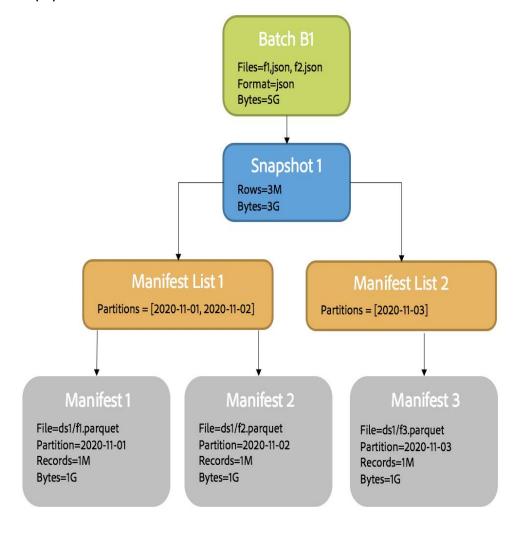




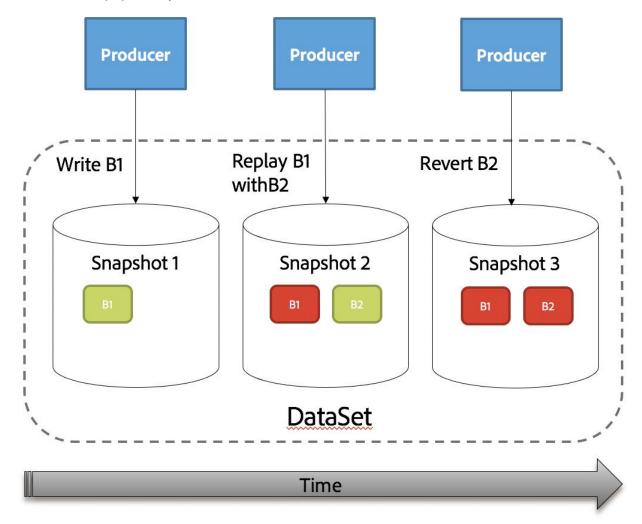




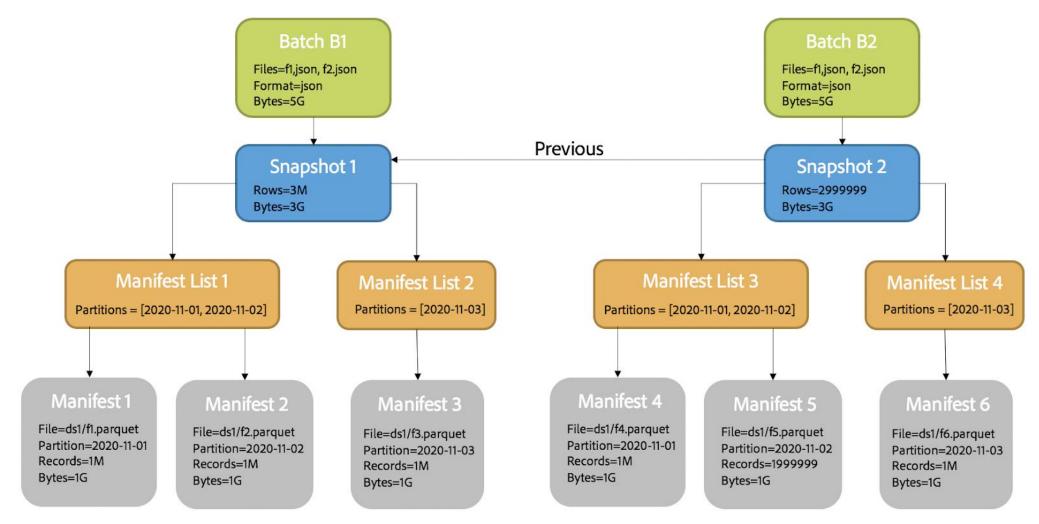
Apache Iceberg가 각광 받는 이유 (1) Manifest로 데이터 관리 최적화



Apache Iceberg가 각광 받는 이유 (2) Snapshot을 통한 데이터 수정의 편리함



Apache Iceberg가 각광 받는 이유 (3) 시간여행



https://blog.developer.adobe.com/iceberg-at-adobe-88cf1950e866





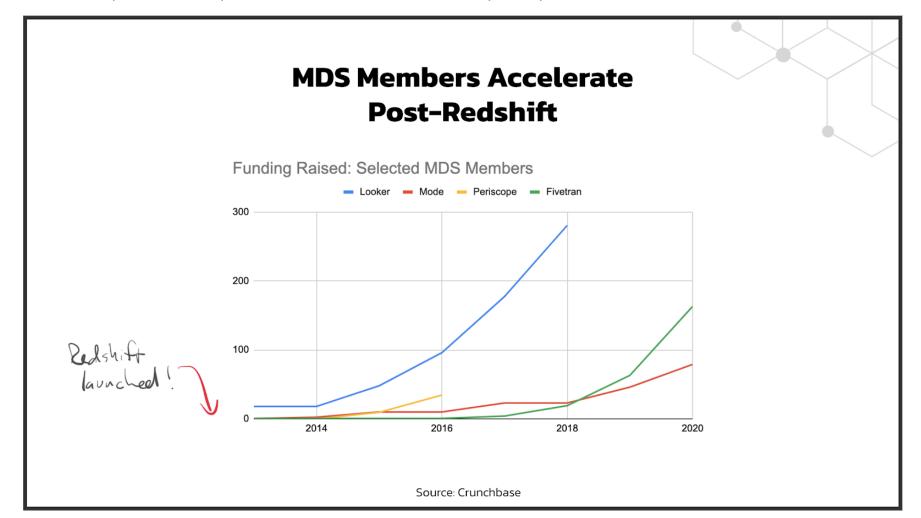


Apache Iceberg 핵심 정리

User experience	Schema evolution
	Hidden partitioning
	Partition layout evolution
	Time travel
Reliability and performance	Scan planning is fast
	Advanced filtering
	Works with any cloud store
	Serializable isolation
	Multiple concurrent writers
Open standard	Designed and developed to be an open community



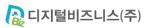
Modern Data Stack(2012-2016)은 AWS Redshift 서비스 런칭(2012) 이후 본격화



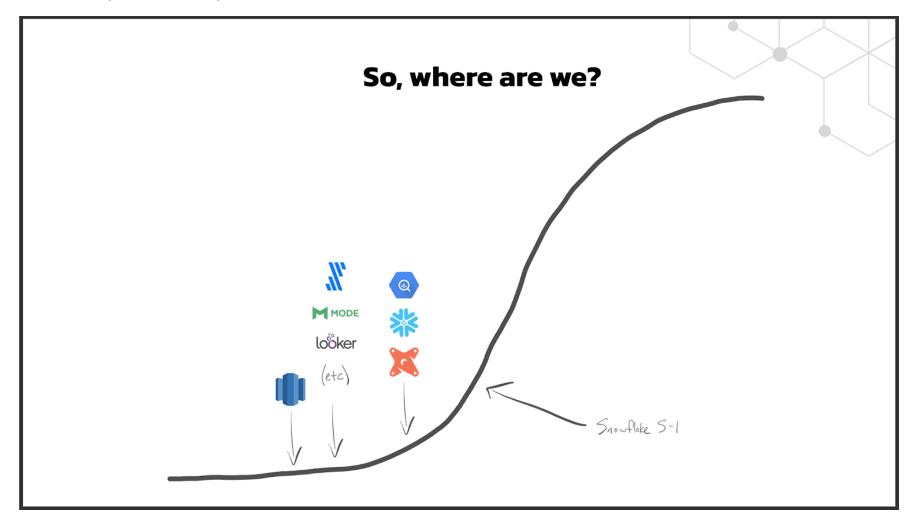
https://www.getdbt.com/blog/future-of-the-modern-data-stack/



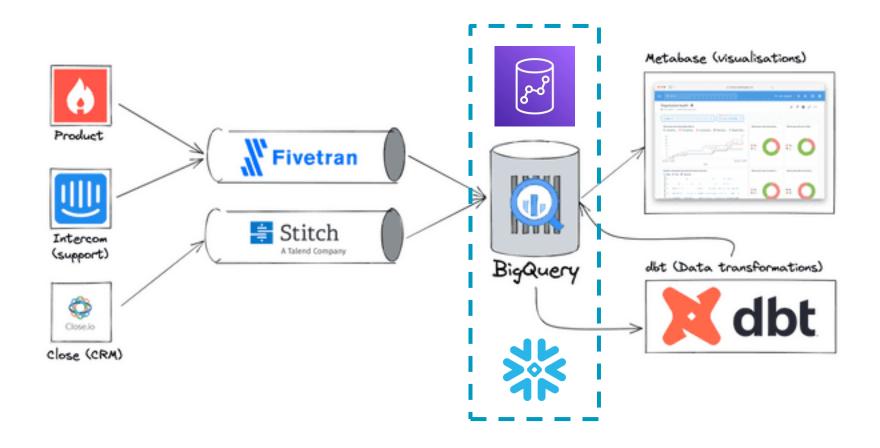




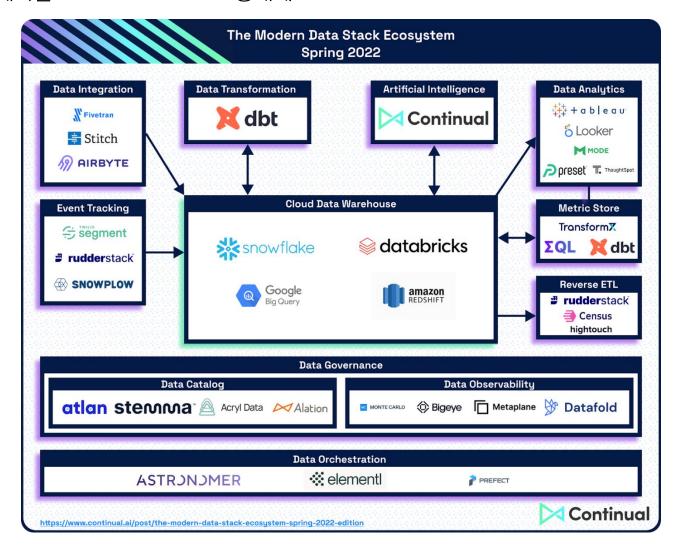
Modern Data Stack(2016-2020) 의 기술 성숙도는 어디까지 왔나?



스타트업 기업을 위한 Modern Data Stack.



AI 회사 Continual이 제시한 Modern Data Stack 생태계.

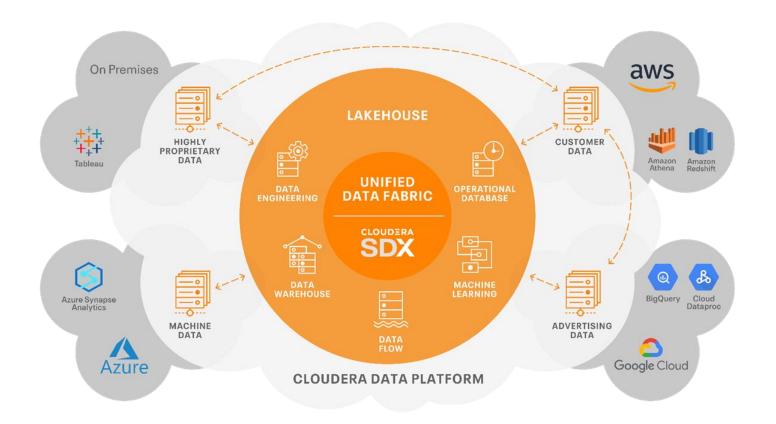


https://continual.ai/post/the-modern-data-stack-ecosystem-spring-2022-edition





CLOUDERA의 Modern Data Stack 소개





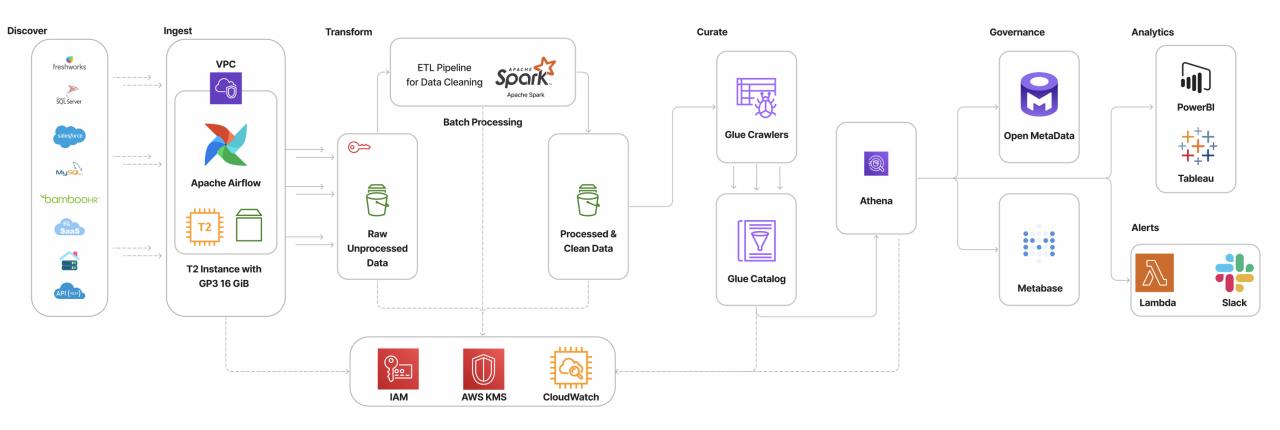






Chapter 3. Data Lakehouse Sample

어느 회사의 데이터 과학자의 Data Lakehouse 아키텍처 on AWS



https://abhijit.work/how-weve-increased-analytics-productivity-by-almost-100-with-data-lakehouse-with-modern-data-6b7afecab14c



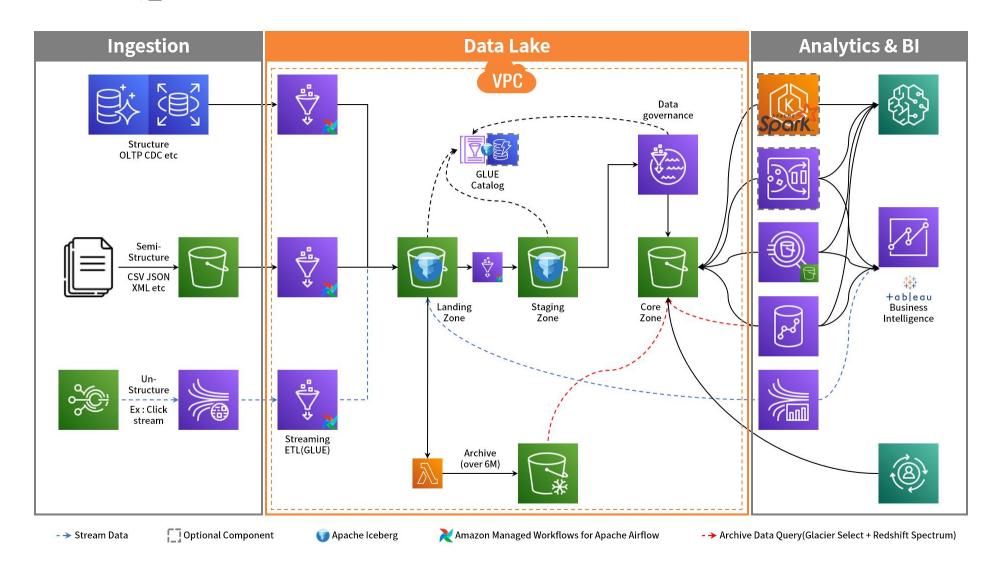






Chapter 3. Data Lakehouse Sample

Data Lakehouse 기반 Modern Data Stack on AWS



Chapter 3. Data Lakehouse Sample

Lake House Architecture on AWS



https://aws.amazon.com/ko/blogs/architecture/address-modernization-tradeoffs-with-lake-house-architecture/





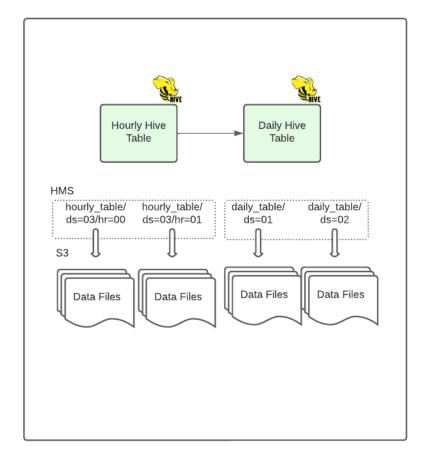


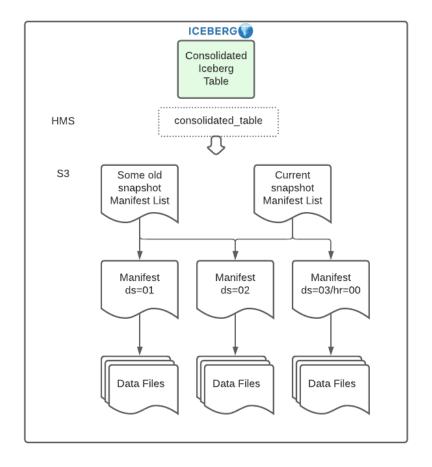




Chapter 4. Use-cases (Apache Iceberg)

Upgrading Data Warehouse Infrastructure at Airbnb





Before After

https://medium.com/airbnb-engineering/upgrading-data-warehouse-infrastructure-at-airbnb-a4e18f09b6d5



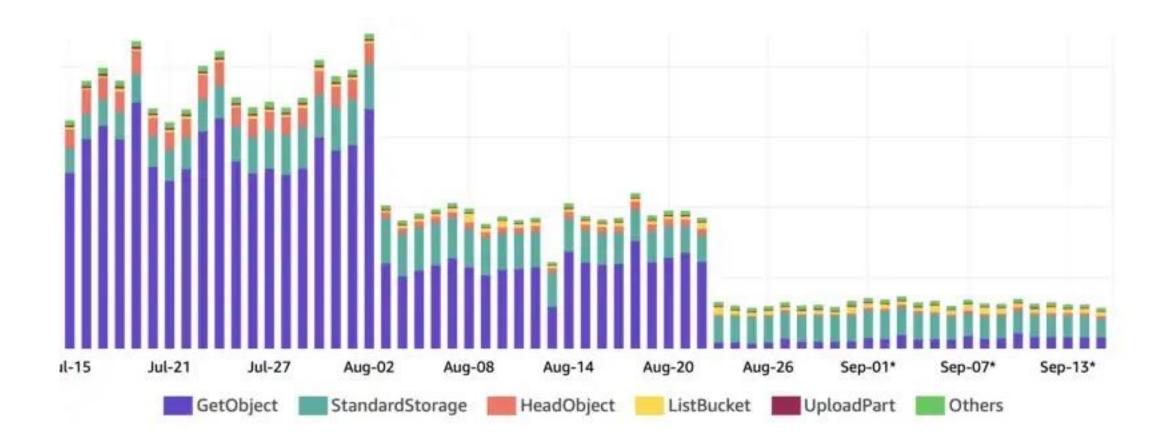






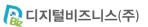
Chapter 4. Use-cases (Apache Iceberg)

Apache Iceberg Reduced Our Amazon S3 Cost by 90%







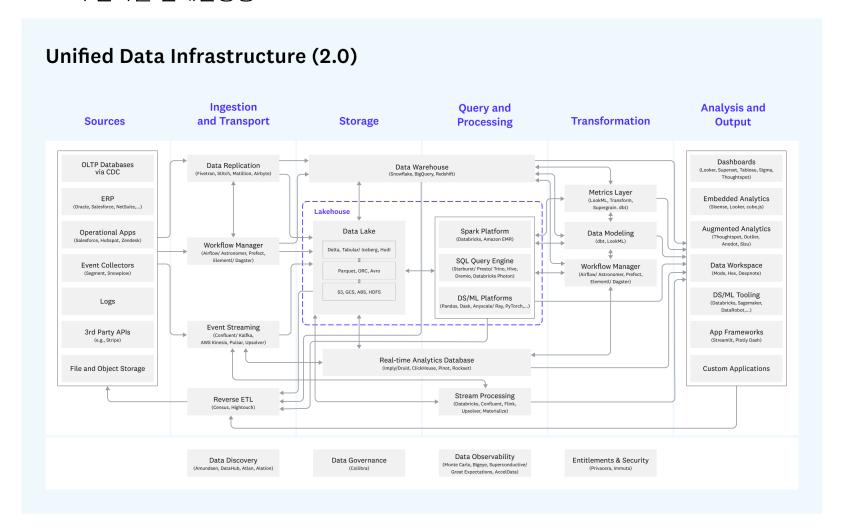




Chapter 5. 클래스 맺음말

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Data Infrastructure의 진화는 현재진행형.



https://future.com/emerging-architectures-modern-data-infrastructure/







Chapter 5. 클래스 맺음말

굿모닝아이텍 무빙 클래스를 마치며… 질문 받습니다.

