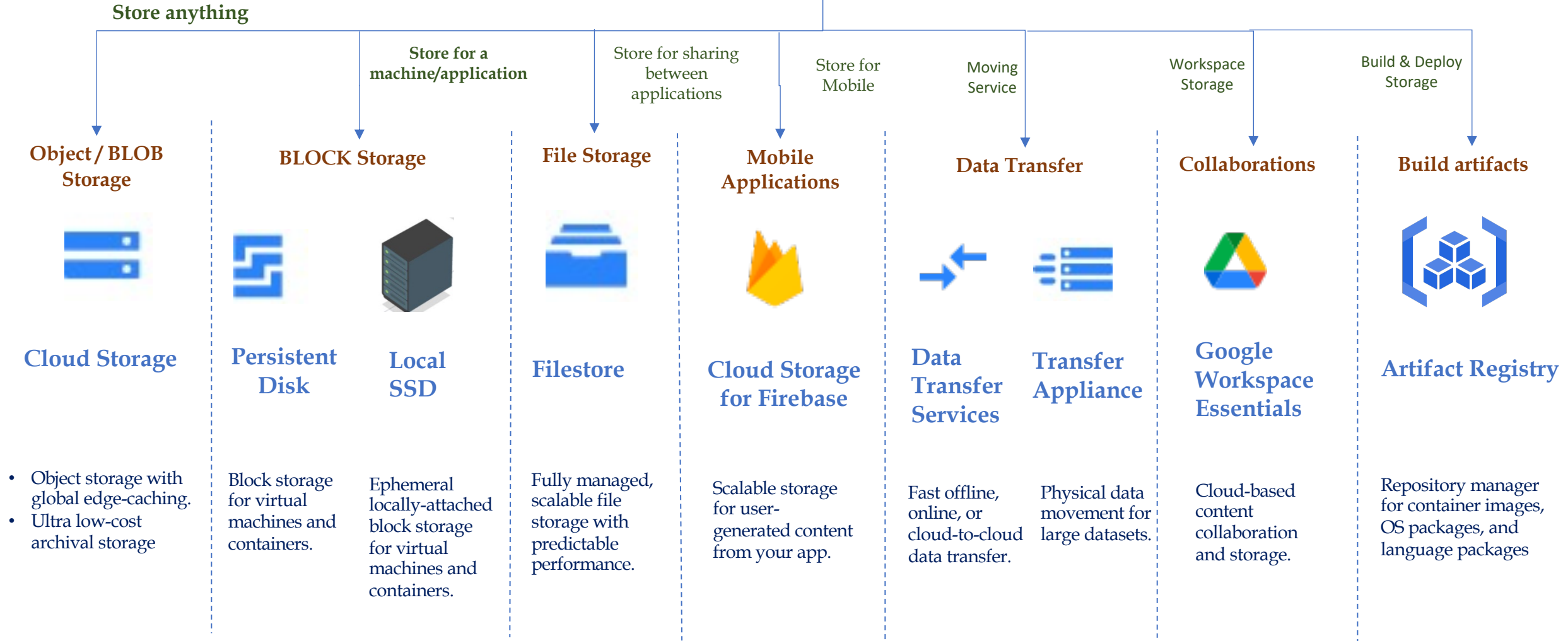


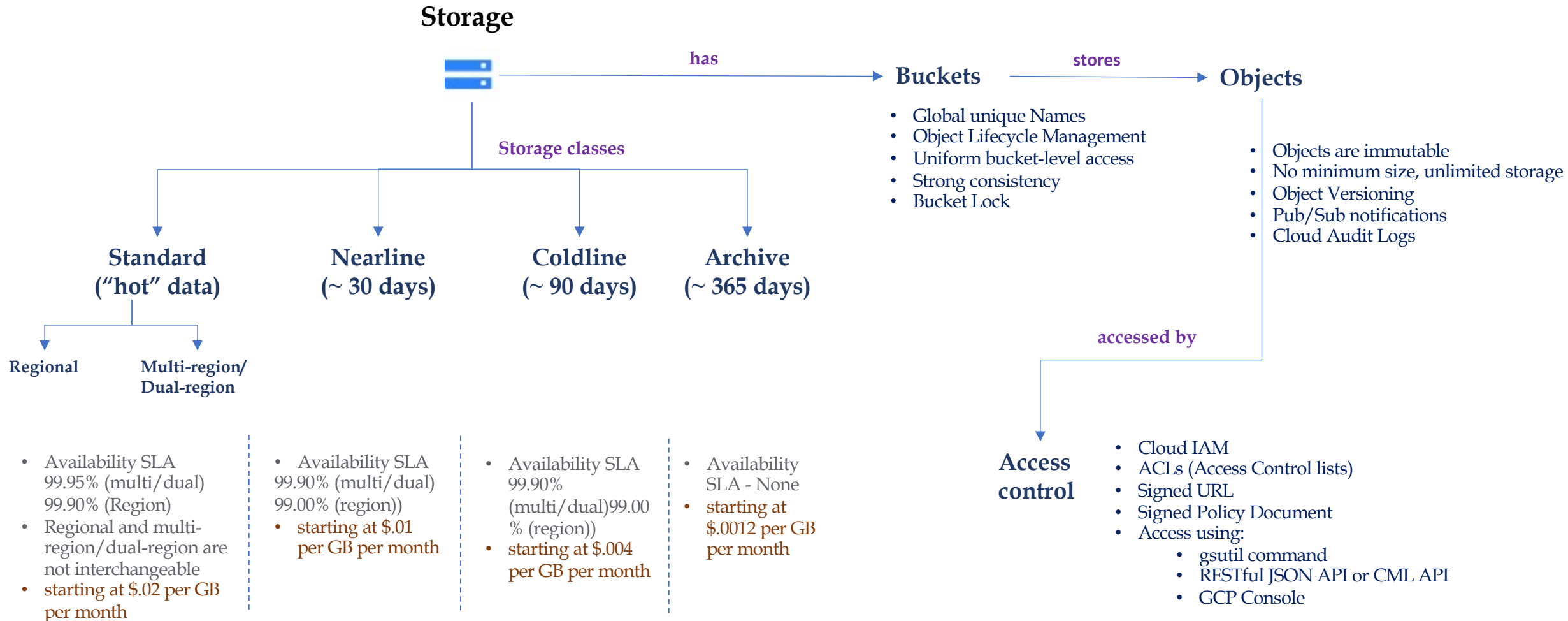


- **Cloud Storage**
- **Block Storage**
  - Persistent Disk
  - Local SSD
- **Filestore**
- **Data Transfer**
  - Transfer Service | Cloud
  - Transfer Service | On-premise
  - Transfer Appliances
  - BigQuery Data Transfer Service
- **Artifact Registry**

## Storage Use Cases

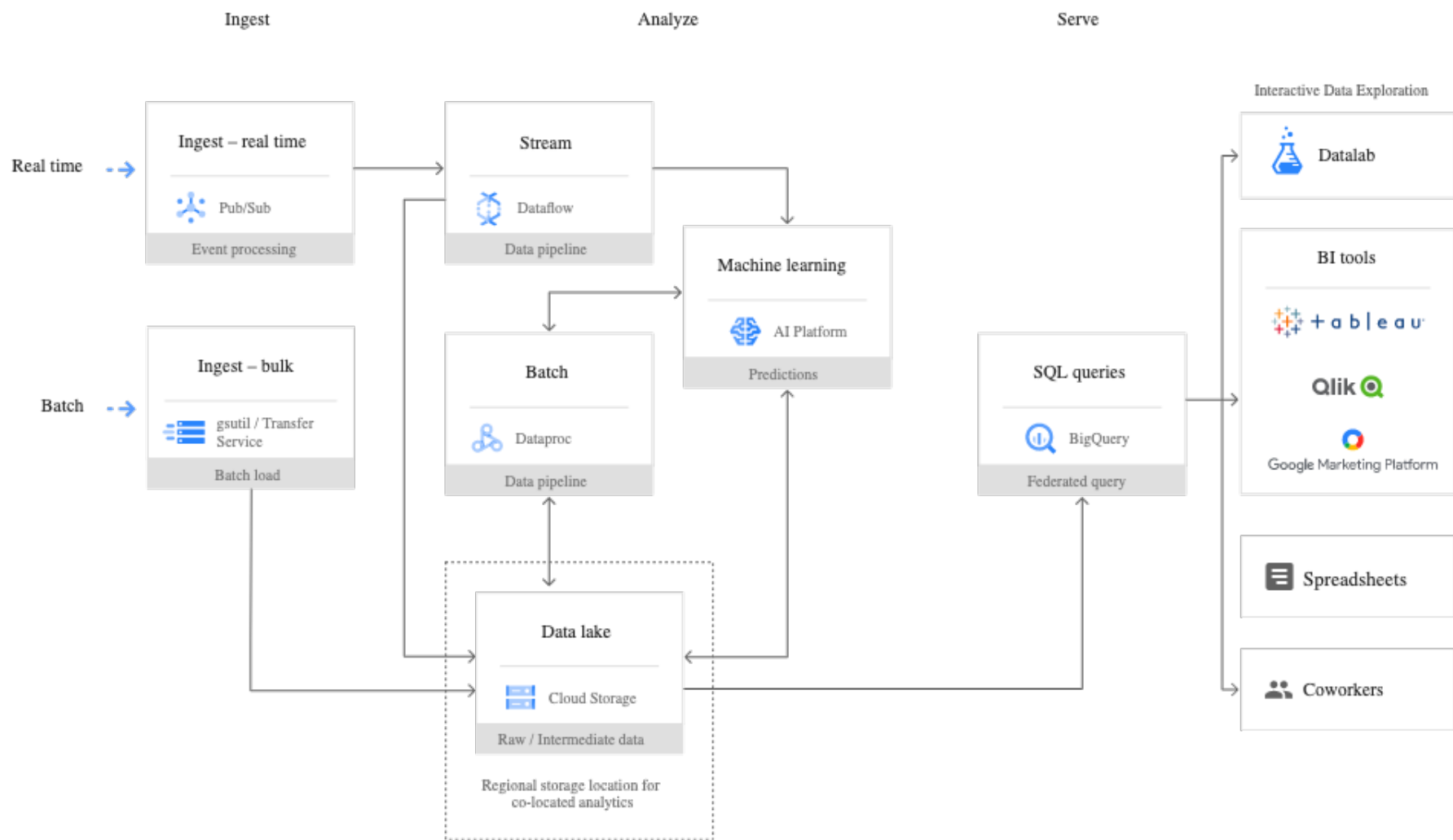


Object storage for companies of all sizes. Store any amount of data. Retrieve it as often as desired.

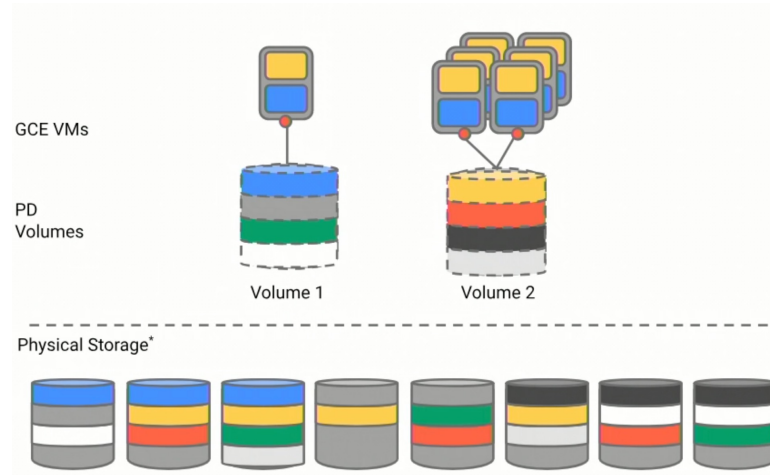


## Storage: Cloud Storage Use Case – Big Data Analytics & ML

The highest level of availability and performance within a single region is ideal for compute, analytics, and machine learning workloads in a particular region. Cloud Storage is also strongly consistent, giving you confidence and accuracy in analytics workloads.



## Persistent Disk



- Standard persistent disks (pd-standard) are backed by [standard hard disk drives \(HDD\)](#).
- SSD persistent disks (pd-ssd) are backed by [solid-state drives \(SSD\)](#).
- Balanced persistent disks (pd-balanced) are backed by [solid-state drives \(SSD\)](#).
- Persistent Disks are Zonal or Regional disks

## Local SSD

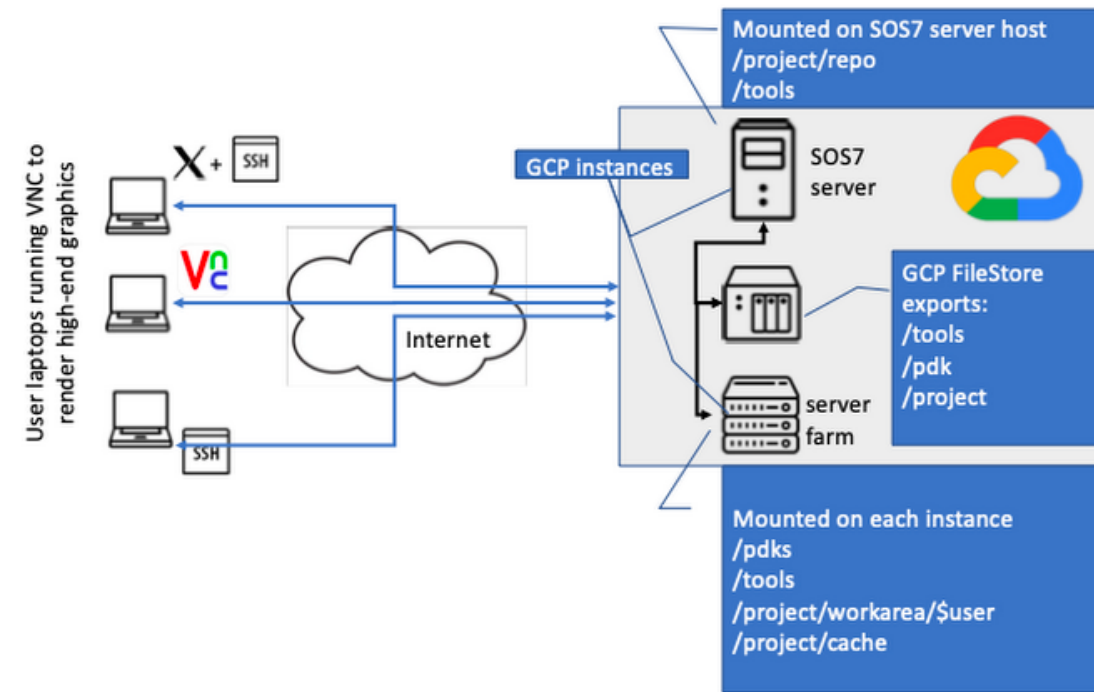
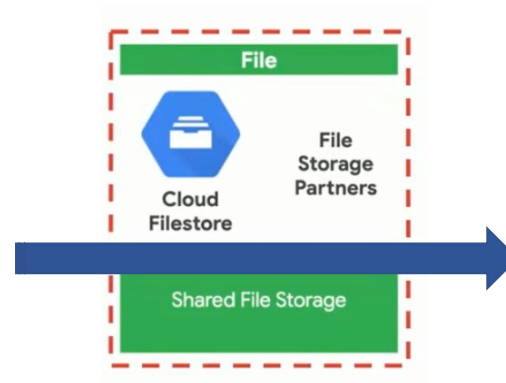
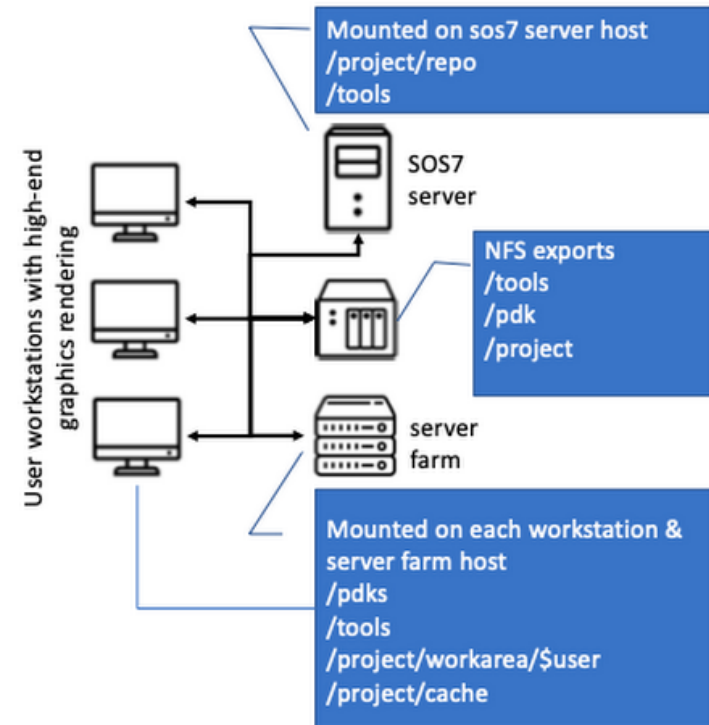


- Fast IOPS and high-speed throughput
- Local SSDs are designed for temporary storage use cases such as caches or scratch processing space.
- Local SSDs can be attached to preemptible VM instances
- You can't use customer-supplied encryption keys with local SSDs.



## Storage: Filestore

Shared file systems are the arteries of Enterprise Applications. Filestore provides high-performance, fully managed file storage.



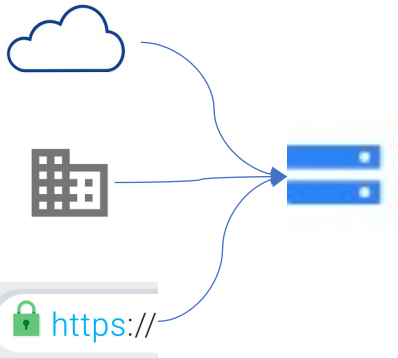
**USE CASES:** Application migration, Media rendering, Electronic Design Automation (EDA), Data analytics, Genomics processing, Web content management



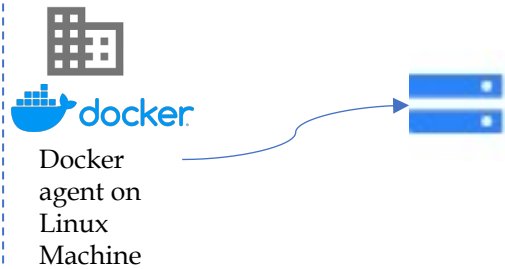
## Data Transfer Services



### Transfer Service | Cloud (Data < 1 TB)



### Transfer Service | on-premises (1 TB -> 100s TB)



### BigQuery Data Transfer Service (SaaS -> BigQuery)

Google Software as a Service (SaaS) apps

- Campaign Manager
- Cloud Storage
- Google Ad Manager
- Google Ads
- Google Play
- Search Ads 360 (beta)
- YouTube Channel reports
- YouTube Content Owner reports

External cloud storage providers

- Amazon S3

Data warehouses

- Teradata
- Amazon Redshift

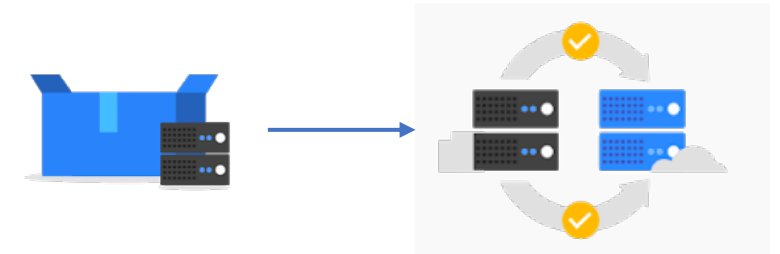


## Transfer Appliance

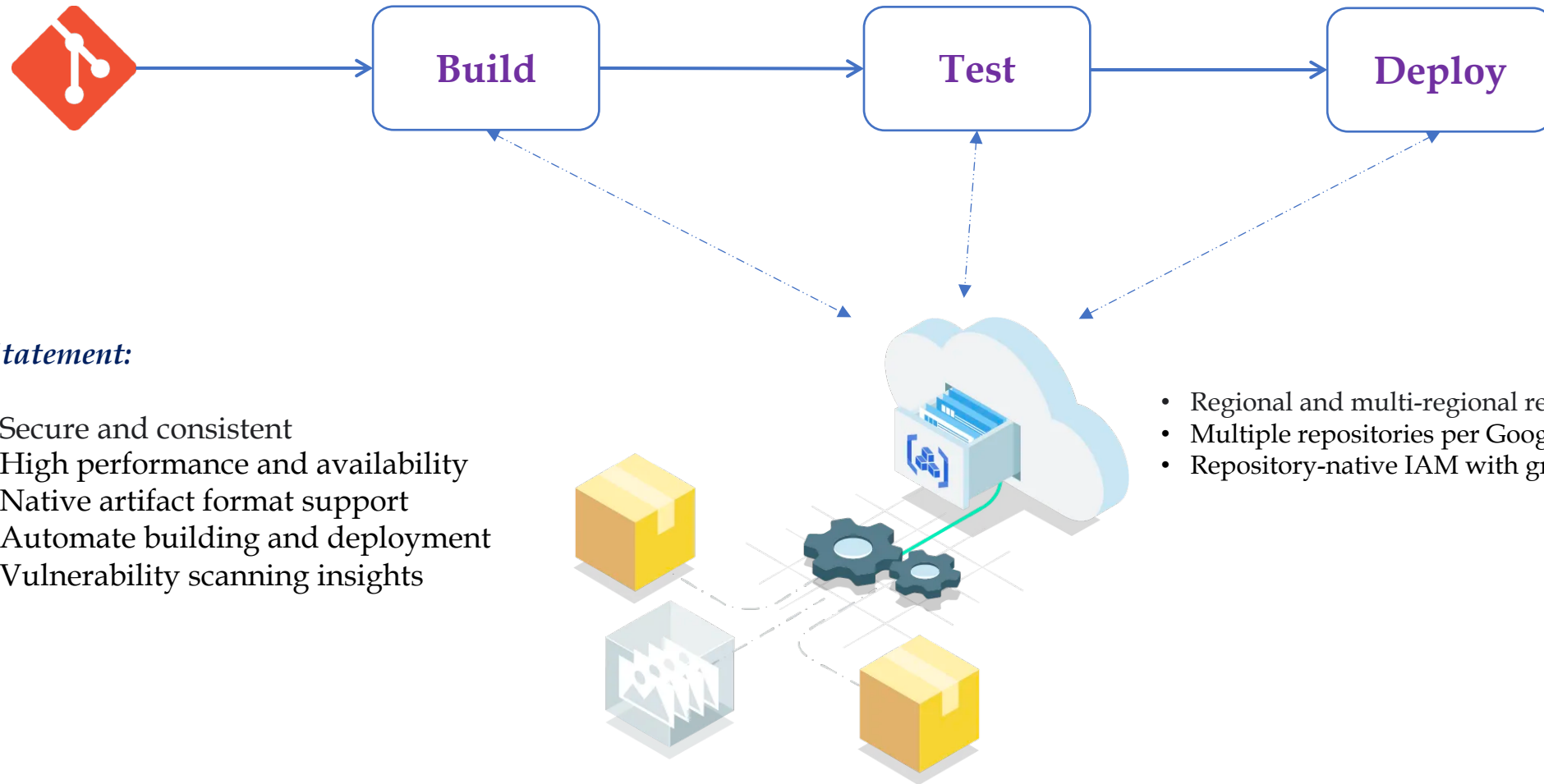


### Transfer Appliances (~100 TBs -> 1 PB)

Transfer Appliance is a high-capacity storage device that enables transfer and securely shipping of data to a Google upload facility, where data is uploaded to Google Cloud Storage.



Artifact Registry enables you to centrally store artifacts and build dependencies as part of an integrated Google Cloud experience.



***Problem Statement:***

1. Secure and consistent
2. High performance and availability
3. Native artifact format support
4. Automate building and deployment
5. Vulnerability scanning insights

- Regional and multi-regional repositories
- Multiple repositories per Google Cloud project
- Repository-native IAM with granular permissions



## Storage Use Cases

