

The Advantages of Native-Mode File Transfer

Speed, Access, Savings using Direct Data Access

One of the advantages of Komprise Intelligent Data Management solution is having direct access to your archived data, without needing to rehydrate. The following explains how Komprise makes that possible with Direct Data Access.

Komprise Data Transfer - Flexible Formats

Komprise offers four formats in which to transfer data to suit your needs. The native format, however, provides benefits many aren't aware of, often until you've already locked in to a format.

When Komprise moves cold data from a primary storage source to a secondary storage target, the target can be on-premises NAS, on premises object storage, cloud-based object storage, or tape. When the secondary storage target is object storage (whether on-prem or cloud-based), Komprise can transfer the file in one of the following data formats:

- Chunked (with or without encryption)
- Chunked and compressed (with or without encryption)
- Encrypted
- Native

Chunked data format

In chunked format, when files are transferred to secondary target object storage, they are stored as a set of chunks, each typically 5 MB in size. (The chunk size is configurable.)

Chunked and compressed data format

When files are transferred to secondary target object storage in a chunked and compressed format, they're stored as compressed chunks to reduce file size and the required storage space on the secondary storage target. Handling the compression and decompression of compressed chunks, however, consumes compute resources and can affect file access performance.



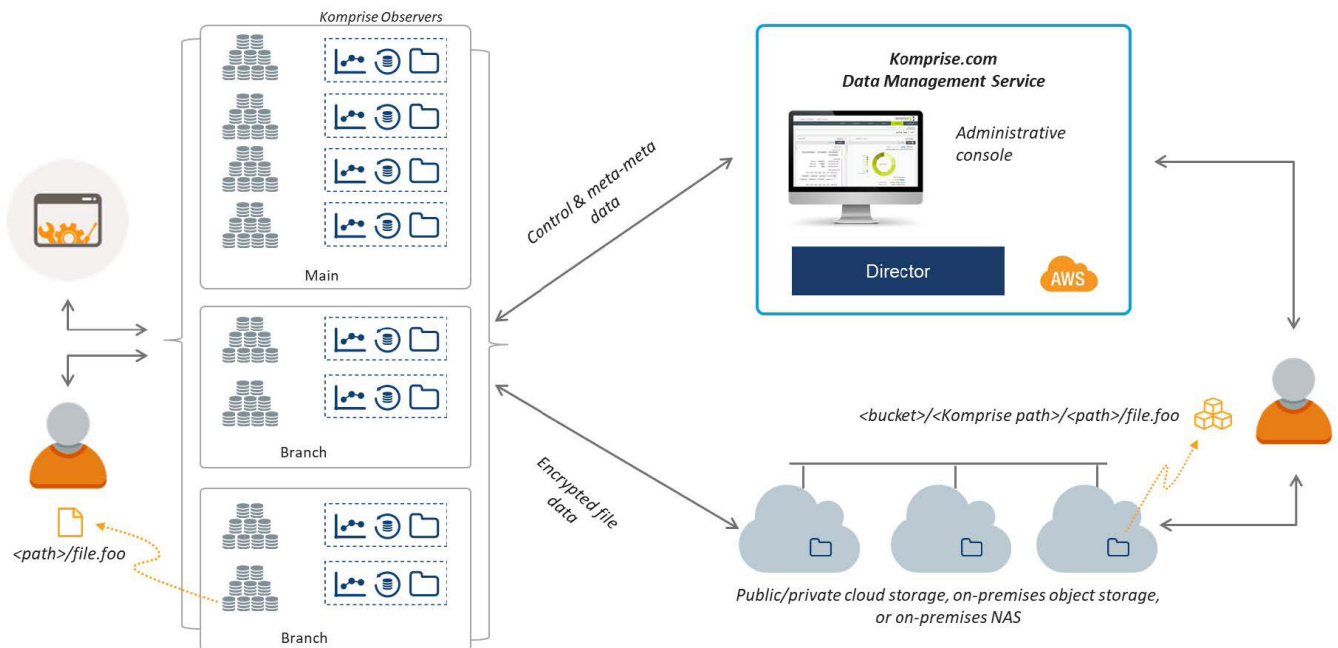
Encrypted format

All Komprise data transfers are sent using secure data transmission (SSL over HTTPS). For the chunked and chunked-and-compressed data formats, chunks can be encrypted (using AES 256-bit symmetric key) prior to data transmission for customer-controlled, end-to-end file transfer security.

Native data format

When files are transferred to secondary target object storage in native format, they're stored as individual objects. Native mode enables users to directly access the files as objects from the target storage.

The diagram below shows the Komprise solution architecture, as well as how users can access files stored in secondary target object storage either through Komprise or natively using the secondary storage's protocols and APIs.





Advantages of Native Data Format

There are several advantages to using native format over chunked, chunked-and-compressed, and encrypted formats:

- Prevents vendor lock-in by enabling users and applications to read files directly on targets without going through the source or even Komprise.
- Optimizes PUT and GET costs when using cloud storage by storing files on targets as single objects instead of multiple file-chunk objects.
- Transfers 20%–60% faster than other data formats since these leverage multi-part uploads and certain optimizations.

Komprise Solution Overview

Direct Data Access is part of the **Komprise Intelligent Data Management**, which empowers businesses to take control of their data with no interference to applications, users, or hot data. Komprise Intelligent Data Management is the foundation for analytics-driven data management which is key to putting data in the right place at the right time across all storage. Only Komprise allows you to analyze, move, and access your data without any vendor lock-in.



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