Transfer Acceleration

Amazon S3 Transfer Acceleration speeds up file transfers to and from Amazon S3 by using AWS's globally distributed edge locations. It leverages Amazon CloudFront's network of edge locations to route data optimally, reducing latency and improving upload and download speeds, especially for users far from the S3 bucket's region. This service is ideal for transferring large files or gathering data sets under the domain of one roof/service quickly and efficiently.

This is especially useful in cases where data stored across various points globally needs to be centrally gathered and performed operations on. However, while it can significantly improve data transfer speeds, it comes with an additional charge compared to regular S3 transfers. Therefore, it’s crucial to evaluate whether the performance improvement is worth the cost for specific use cases. For example, organizations dealing with global users or heavy media files will likely benefit, but for smaller, local transfers, the cost may outweigh the performance gains.

It is also worth noting that once transfer acceleration is enabled for a S3 bucket, it receives an accelerated endpoint with a `s3-accelerate` domain name (for example, `https://<bucketname>.s3-accelerate.amazonaws.com`). In order to benefit from the accelerated data transfers, one has to use the new accelerated endpoint as AWS will not automatically optimize transfers performed using the default standard S3 endpoint.

TLDR;

Aggregate the data from all these global sites as quickly as possible in a single Amazon S3 bucket ⇒ S3 Transfer Acceleration