HDF Kita

HDF Kita is a cloud-native data engine built to optimize the way you access, query, compute and collaborate with HDF5 data in the cloud. Developed by the HDF Group, this unique software is flexible and secure enough to be applied to a range of critical commercial, government and academic applications. Most importantly, HDF Kita is designed to integrate seamlessly within your preferred cloud environment.

+ HDF Kita Lab
JupyterLabs enabled data exploration, fully hosted by the HDF Group.

+ HDF Kita Server *for AWS Marketplace*
Access from anywhere using Amazon Machine Image (AMI) for AWS.

+ HDF Kita Server *for On Premise*
Install and access Kita on your existing infrastructure.

Interested in learning more about HDF Kita? Contact the HDF Group today to see which solution is right for you.

ADVANTAGES

Scalability
- Store petabytes of data
- Support simultaneous use from thousands of clients
- Scale across multiple servers

Performance
- Run HDF5 applications 500x faster on the cloud
- Leverage smart data caching to accelerate object storage queries
- Process single requests in parallel on the server

Concurrency
- Engage in multiple read and multiple writes across different threads

Simplicity
- Deploy with one-click
- Access only the HDF5 data you need
- Work with your cloud provider of choice

Compatibility
- Rapidly shift large HDF5 files, applications and infrastructure to the cloud
- Compatible with any HDF5 based data (e.g. NetCDF4, Energistics, etc.)

TECHNICAL DETAILS

- Solution for object storage
- Containerization using Kubernetes to support efficient, cloud-based elastic scalability
- Supports Python, C, C++, and JavaScript
- Supports the same features in the HDF5 library using RESTful instead of local C libraries
- Automatic data chunk size determination or custom chunk layout
- Run SQL-like queries across elements of a data set
- Support for popular command line tools for HDF5 including: ls, rm, touch, chmod, data uploading/downloading to and from the cloud
- Support for http-Basic Auth
- Support for Access Control Lists (ACLs)
- Supports compression