

<p><b>TYPE</b></p> <p>[SERV] [METH]</p>	<p><b>TECHNICAL READINESS LEVEL</b></p> <p>TRL5</p>	<p><b>INTELLECTUAL PROPERTY RIGHTS</b></p> <p>N/A</p>	<p><b>EXPLOITATION ROUTE</b></p> <p>LICENSING   PROPRIETARY DISTRIBUTION</p>
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SkyStore is an open-source S3 service that is jointly developed by IBM (Israel Research Lab) and the University of California, Berkeley. It aggregates multiple concrete S3 services from different locations across the compute continuum and makes all data accessible under a single unified namespace. Access to SkyStore itself is S3-compatible (s3-proxy) and can also be distributed across the continuum. SkyStore enables policies for replicating and caching S3 data so it can accelerate access to remote S3 data that is subject to various usage patterns, such as repeated local access to remote data.

**KEY BENEFITS FOR COMPUTE CONTINUUM PROJECTS**

SkyStore enables users from both academia and industry to efficiently use S3 data at global scale, making use of both large S3 deployments in data centers as well as limited edge deployments. It can be deployed cloud-native, stand-alone, or dockerized. Global, unified and managed access to entire S3 data is the bottom line.

**USE AND IMPACT BEYOND THE EXTRACT PROJECT AND ITS PARTNERS**

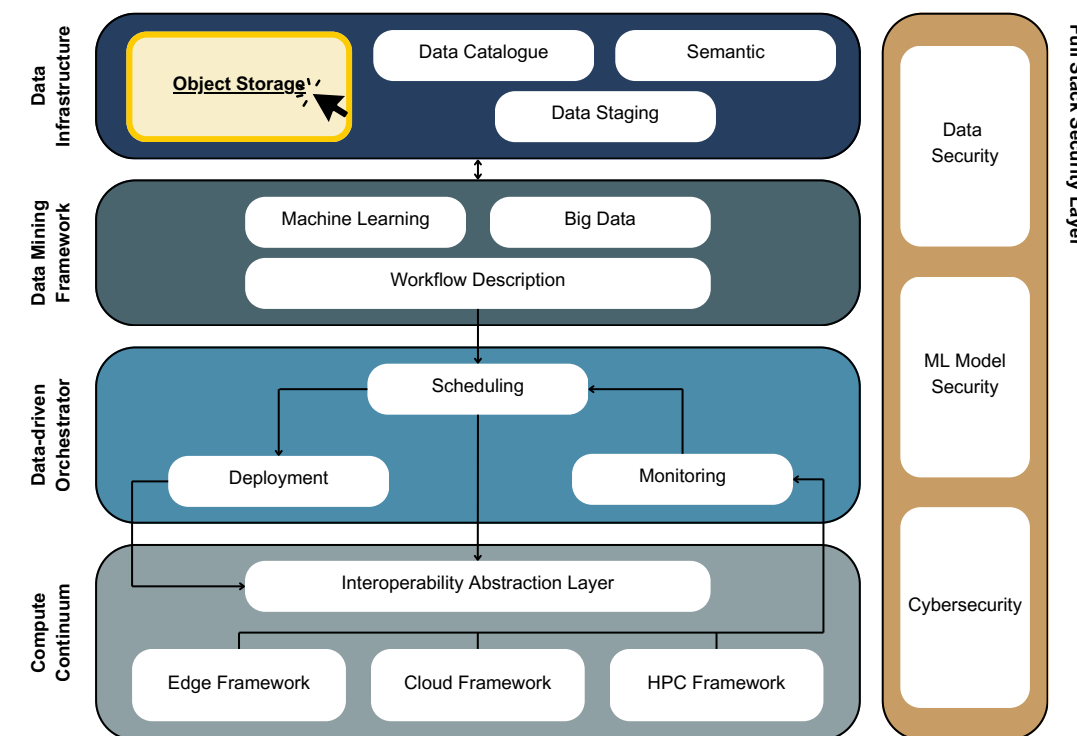
SkyStore was born as a research prototype in IBM. It has significant potential and business units are being engaged for their sponsorship. Integration of SkyStore in IBM storage solutions and in customer engagements is being pursued. SkyStore is also part of the overall collaboration framework between IBM Research and UCB’s famed SkyLab, targeted for further evolution.

**FOR RESEARCHERS AND INDUSTRIAL TEAMS:**

- Store and access data globally, irrespective of where it is stored
- No need to bother with finding different access points to different data
- Possible to keep using standard S3 for all data (as opposed to data lake)

**FOR ADMINISTRATORS AND CDOS**

- Enforce caching policies to improve data access to various end-points
- Enforce locality and remote writes to ensure data storage is in compliance with regulations



<https://github.com/gilv/skystore>

