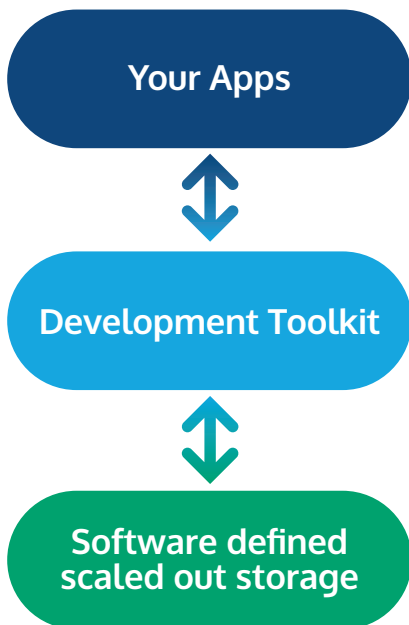


ArcaStream: Data Management Development Toolkit

The only storage management API that helps developers control, protect, monitor and analyse their data



The challenges of maintaining a data-centric pipeline

Automating a scientific or research pipeline can be challenging at the best of times, especially when it comes to interaction with storage. Complicated and often disjointed scripts must be developed in order to bridge the gap between application and data repositories. This can lead to interruptions and lost productivity when individual components of the end-to-end pipeline change.

Providing a more efficient interface between application and data

The ArcaStream Data Management Development Toolkit greatly reduces these challenges by providing a Python 2.7 compliant application programming interface (API) with every ArcaStream solution. The API allows pipeline developers and dev ops staff to rapidly integrate storage control and monitoring directory into user applications with simple, elegant code. Because the API uses a structure and format that any competent developer will be instantly familiar with, very little prerequisite knowledge of ArcaStream's software-defined scale-out storage architecture is required.

Unlimited data and storage management possibilities

With the ArcaStream Data Management Development Toolkit, new storage and data management applications, including graphically driven interfaces, are limited only by the imagination of your developers. While the already feature rich interfaces and software delivered with all ArcaStream solutions provides a huge range of functionality, additional capabilities can be developed with minimal programming effort.

Example Use Cases

- Automated policy, ACL, quota and folder generation for the creation of new projects
- User and departmental chargeback reporting for capacity usage
- Web-based storage management interfaces for specific requirements
- Direct data control from Research Information Systems (RIS)
- One-button snapshot capabilities directly from third party user applications
- Streamlined health and metric collection for any enterprise monitoring applications

Features and Specifications

- Python 2.7 compliant
- Frequent, backward-compatible releases
- Support for GPFS/Spectrum Scale 3.5, 4.1 and 4.2
- Support for RHEL, CentOS and Scientific Linux
- Robust documentation