ObjectVeil

Keep a local hot tier; move eligible files to an object tier

ObjectVeil combines a local file cache, a matching Linux preload shim and tools for importing and exporting files. The engine supports S3, Azure, GCS and NFS. Perforce is a validated integration; the broader file/object engine does not make arbitrary applications compatible without qualification.

For a qualified Perforce deployment, developer commands remain `p4 sync`, `p4 submit` and related commands. Operators deploy the daemon and matching shim, coordinate all writers, provision separate cloud key storage and monitor the upload backlog. These are real deployment changes even though no Perforce client plug-in is required.

What it does

- Serves resident files locally and restores eligible cold files on demand.
- Uses encrypted cloud payloads, current catalog authority and content checks.
- Packs eligible small archives; large objects use parallel multipart uploads.
- Reclaims proved-durable local files while retaining unproven work.
- Imports stable files directly from a running Perforce archive tree, skipping active/changing files, and exports current cloud archives into a separate tree.

Evaluate the economics and performance

Savings depend on the actual hot fraction, cloud storage class, request and retrieval charges, transfer/network costs, NVMe capacity, licensing and support. Cold reads add transfer/decode work; read-only warm opens still check remote freshness. Packing can reduce data-object requests while adding metadata/key requests and over-fetch. Measure total cost and p50/p95/p99 latency on the workload that matters. No fixed savings percentage or no-slowdown guarantee is made.

A practical next step

Choose an owned isolated evaluation, measure its baseline, verify cold history and shelves, exercise failures, then agree explicit acceptance criteria and a fenced cutover. Commercial pricing, capacity and support require a current quote and signed license; historical pricing proposals are not a binding offer.

Scope and evidence

Perforce is the integration covered by the current end-to-end validation. Other applications need their own adapter qualification and failure tests. Earlier-version benchmarks are not ObjectVeil 7.0 performance results. Use the exact release’s validation summary, artifact hashes and test scope; internal multi-agent adversarial reviews are not an independent third-party security audit or a compliance certification. No customer deployment outcome is claimed here.

Uploads are asynchronous. Loss of the only writer and its disks before remote payload/key/catalog publication can lose acknowledged writes. Preserve matching Perforce checkpoints/journals, required archive recovery points, current keys and catalog history. A secondary is a read fallback, not synchronous replication.

See operations, migration, disaster recovery and the ObjectVeil upgrade guide. Website and contact: ObjectVeil, rusty@rcjacksonconsulting.com.