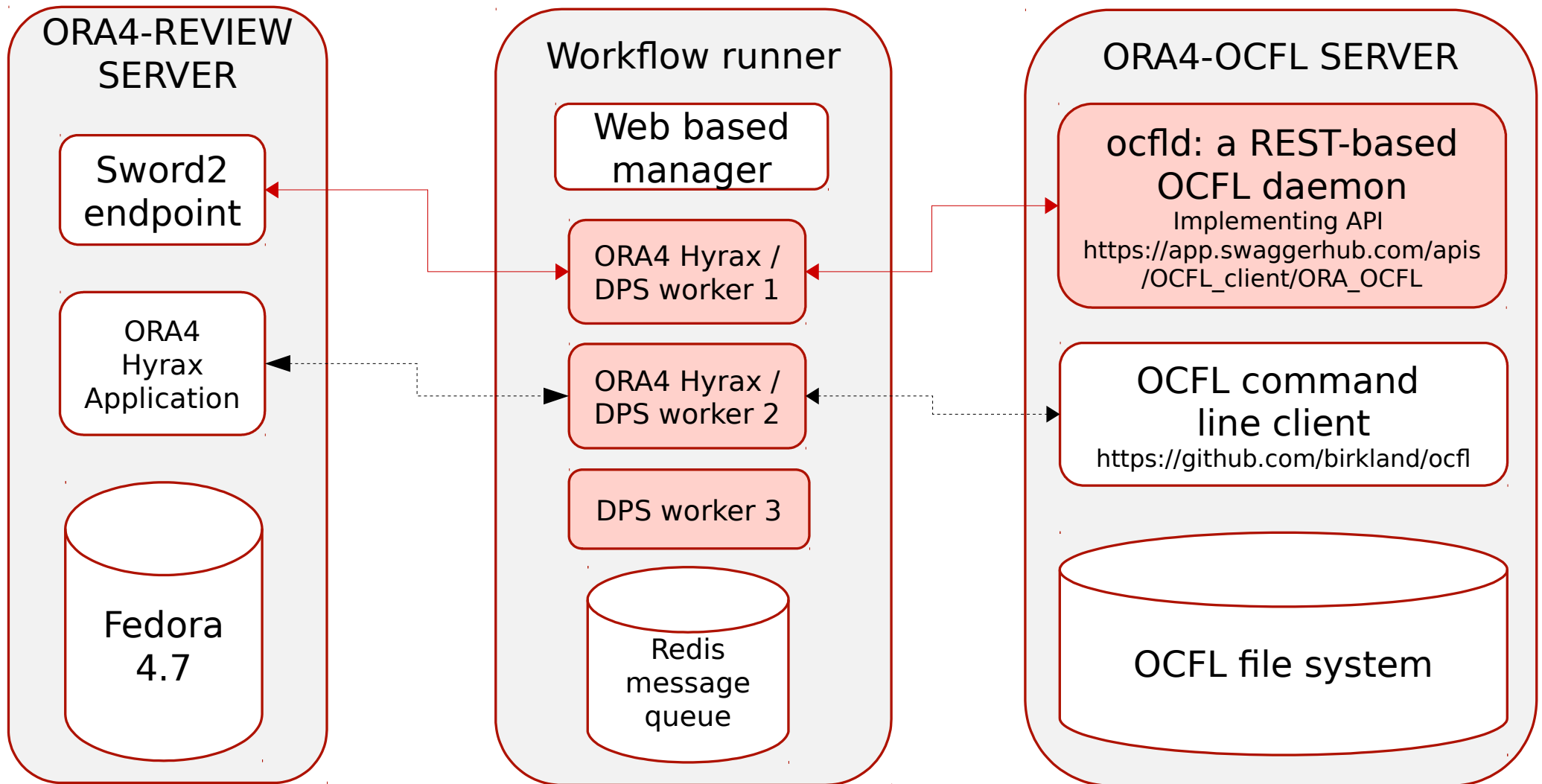


## Architecture overview



# Workflow runner

- Manages one or more parallel workflows
- Each workflow can have many jobs
- Workflows can be defined in directed acyclic graphs
- The workflow runner uses the following
  - Redis for storage
  - Activejob for scheduling and executing jobs
- Workflows and jobs can be managed through the CLI
- workflow runner can be wrapped in a thin rails server to manage and administer jobs from a web interface in addition to the CLI

# Option 1: worker + ocfld

Option 1 envisages the following components:

- ORA4 Hyrax/DPS worker
  - Ruby workflow runner
  - ActiveJob using Sidekiq
  - Tasks taken from a Redis queue
  - Reads ORA objects from Sword2 or Hyrax for ingest into ORA4 DPS via ocfl
  - Reads objects from ORA4 DPS via ocfl for ingest into Sword2 or Hyrax
- ocfl
  - REST-based client implementing an OCFL API
  - Wrapper code around command line OCFL clients

# Option 2: worker

Option 2 envisages only one component:

- ORA4 Hyrax/DPS worker
  - Ruby Sidekiq worker
  - Tasks taken from a redis queue
  - Wrapper code around OCFL command line client
  - Reads ORA objects from Sword2 or Hyrax for ingest into ORA4 DPS via command line client
  - Reads objects from command line client for ingest into Sword2 or Hyrax