GLEN deployments on NRP

Each chip is one Kubernetes object built from one repository.

name Deployment · name Jobs · name CronJob
name SchmidtDSE repo · name boettiger-lab repo · name behind sign-in

OUTSIDE NRP

BROWSER
GLEN apps

Public apps open to anyone. Private apps ask for a Google sign-in or a shared password first.

GITHUB
Repositories

SchmidtDSE
glen · glen-template · geo-query · hexsdm · text-query · text-workflows · text-ingest · glen-in-a-box · 6 apps

boettiger-lab
open-llm-proxy · geo-workflows · geo-ingest · glen-benchmark · glen-ops · nrp-rustfs · nautilus · 16 apps

Each owner merges their own repo. glen-ops records pins and rollouts across all of them.

NRP Nautilus

namespace schmidtdse

APPS: 5 public apps · coasts · cacao-internal · high-seas-private
MCP: high-seas-text-query · wallacea-mcp
UPKEEP: schmidtdse-refresh

NRP culls long-running pods here after two weeks, so a weekly job re-creates them.

namespace biodiversity

APPS: 13 public apps · wyoming · tpl-internal
MCP: duckdb-mcp ×6 · ca30x30-mcp ×6 · sdm-mcp · wyoming-mcp · dev-duckdb-mcp ×2 · experimental-duckdb-mcp
LLM: open-llm-proxy ×3 · log rollups ×3
EVAL: benchmark matrix

NRP Ceph S3: STAC catalog · public datasets · public-output · proxy logs

namespace espm-157

titiler ×3

rustfs: log mirror · private buckets

namespace geo-workflows

BUILDS: dataset builds
UPDATES: coral-reef-watch ×3

Jobs run 50 pods at a time, and one build reached 7,614 chunks. The agent's identity here can manage Jobs and ConfigMaps and read pod logs, and nothing else.

namespace boettiger-lab

BACKUP: minio-sync · source-sync · anon-reconcile
WATCH: backup-watch · fleet-watch
STORE: rustfs

OUTSIDE NRP

Model providers ← open-llm-proxy

jsDelivr CDN → browser loads glen

Leaderboard ← benchmark scores

MinIO mirror ← minio-sync

source.coop ← source-sync

Slack alerts ← watch jobs