



dCache Monitoring using RESTful services and dCache view

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Monitoring and administrative tools

- Admin shell
- Info service
- RESTful services
- dCache-view admin tabs
- Kafka, Events (SSE)

RESTful Services

<https://{host}:3880/api/v1/{service}>

deliver data from various backends

- alarm
- billing
- doors
- pools
- pool manager
- pnfs manager
- pin manger
- history (histograms)

Architecture

dCache view



RESTful Services

To get full information from these services, one needs to run:

- Frontend service
[RESTful API, SWAGGER]
- Alarms service
- Billing service with database
[records per Pnfsid, histograms]
- History service
[pool and space statistical data & histograms]

RESTful Services

SWAGGER

<https://{host}:3880/api/v1>

- Provides documentation for methods, parameters, JSON
- Allows you to test the execution of the query
- Gives you the sample CURL
- Most methods require the admin role:

`username#admin:password`

RESTful Services

SERVICE	AUTHZ LEVEL
/alarms/logentries	ADMIN
/alamrs/priorities	ADMIN
/billing/.../{pnfsid}	ADMIN *
/billing/histograms/grid/description	ANON
/billing/histograms/{key}	ANON
/cells/{address}	ADMIN
/user	USER
/namespace/{path}	USER
/poolgroups/{group}[pools, usage, queues, space]	ADMIN
/poolgroups/{group}/histograms/[queues, files]	ANON
/links	ADMIN
/partitions	ADMIN
/pool-preferences	ADMIN
/units/[groups]	ADMIN
/pools/{pool}/[movers, usage[/mode]]	ADMIN
/pools/{pool}/{pnfsid}	ADMIN
/pools/{group}/histograms/[queues, files]	ANON
/space/linkgroups	ADMIN
/space/tokens	ADMIN
/restores	ANON
/transfers	ANON
/events	USER

Will allow user-level access to records in future release

dCache-view

From dCache-view 1.4 forward, all the admin tabs are implemented. These improve and supplement what is in the “webadmin” view (<http://{host}:2288>, <https://{host}:8440>).

In dCache 4.2, dCache-view completely replaces the existing (Wicket-based) “webadmin” interface.

We also plan to eliminate the older static web pages after the dCache-view pages have been tested in production for several months.

(Thereafter, port 2288 will be reserved for the info service).