

Rucio WebUI

My internship report





01

Defining issues



DIDs undefined details

List DIDs

DID Search Pattern

[Search](#)

Query for DID Types: Container Dataset File

DID

mock:dataset_542a62aff313460e9939d3637c3b7c46

mock:dataset_961da7a2fe814f79998f2e658d9cc1db

mock:dataset_c3d8a9b9db9b457a82c59edcb2d42837

mock:dataset_45f1274c4aa04871bd53035fab38b390

mock:dataset_bf553abff3524dab8426ddaf942f9cda

mock:dataset_696aa3a76d6149d4b05aab728cc39578

mock:dataset_61ac3bb27792423e9ff118cae64667ea

mock:dataset_test_dataset_e730f0580ead4103bf3438a6e17e70c7

mock:dataset_751688498a9f4b12b3962e37e35b9271

mock:dataset_7aaccbf043374c1b9d33122084de2810

No Errors ✓

«

<

1

of 5

>

»

Idle ↻

Scope

Name

Created At NaN-NaN-NaN

Updated At NaN-NaN-NaN

DID Type Dataset

Account

Is Open False

Monotonic True

Obsolete True

Hidden True

Suppressed True

Purge Replicas True

Availability Available

[Go To DID Page](#)

RSEs details loading error



http://localhost:3000/rse/page/MOCK-OVPVDTUFBQ

1 of 1 unhandled error

Next.js (13.5.6) is outdated ([learn more](#))

Unhandled Runtime Error

TypeError: Cannot read properties of undefined (reading 'length')

Source

src/component-library/StreamedTables/TableBody.tsx (20:19) @ getRowModel

```
18 |   {...otherprops}
19 | >
> 20 |   {table.getRowModel().rows.map(row => {
    |         ^
21 |     const selected = row.getIsSelected()
22 |     return (
23 |       <tr
```

Show collapsed frames



Login failing for identities with multiple accounts



Rucio Login

Default ATLAS Operations Data Management

x509

Userpass

Username vika

Password

Account

Login





Searchbar not functioning



Search Dashboard DIDs RSEs Rules

RSEs

Pattern

RSE Name	RSE Type
<input checked="" type="checkbox"/>	...

« < 1 of 0 > »



Streaming constraints

List RSEs

RSE Search Pattern

Search

Name

Filter by RSE Name

RSE Type

...

Volatile

...

Deterministic

...

Staging

...

No Errors ✓

<<

<

1

of 0

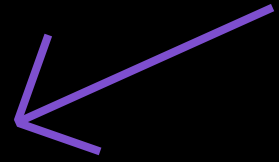
>

>>

Idle



Responsiveness issues



Search

Dashboard DIDs RSEs Rules ...

List DIDs

Search Pattern Search

Query for DID Types: Container Dataset File

Filter DID

- ck:dataset_542a62aff313460e9939d3637c3b7c46
- ck:dataset_961da7a2fe814f79998f2e658d9cc1db
- ck:dataset_c3d8a9b9db9b457a82c59edcb2d42837
- ck:dataset_45f1274c4aa04871bd53035fab38b390
- ck:dataset_bf553abff3524dab8426daf942f9cda
- ck:dataset_696aa3a76d6149d4b05aab728cc39578
- ck:dataset_61ac3bb27792423e9ff118cae64667ea
- ck:dataset_test_dataset_e730f0580ead4103bf3438a6e17e70c7
- ck:dataset_test_dataset_5c8e37f1a3a249f086a9d9bf3f20d3a6
- ck:dataset_7aacbf043374c1b9d33122084de2810

No Errors ✓

1 of 4

Fetching

0 DID selected

root

- ... False
- ... False
- ... False
- ... True
- ... Available

File Replica States

Parent DIDs

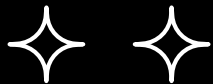
Metadata

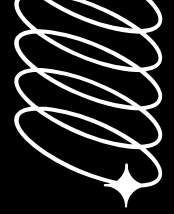
Value

cd904afb2abb46879b537e907ff50e3

null

5 of 5





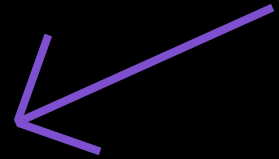
02

My contribution





Parsing issue



List RSEs

RSE Search Pattern

Search

Name	RSE Type	Volatile	Deterministic	Staging
<input type="text" value="Filter by RSE Name"/>
XAYBFW-BB8-BB8-REBALANCE-RULE-FYZXZB	Disk	False	True	False
CERN-S3-LOGS	Disk	False	True	False
MOCK-DPFNEVBCGI	Disk	False	True	False
XAYBFW-GATEWAY-EXTERNAL-REPRESENTATION-GATEWAYEXTERNALREPRESENTATION-GATEWAY-EXPORTER-ESASIH	Disk	False	True	False
MOCK	Disk	False	True	False
MOCK-NEQHCINVC	Tape	False	True	False
MOCK-OSYSKJREFB	Disk	False	True	False
MOCK-RYEJGFFVHO	Disk	False	True	False
XAYBFW-DATASET-REPLICAS-DATASETREPLICAUPDATE-UPDATE-COLLECTION-REPLICA-ZFXALH	Disk	False	True	False
XAYBFW-BAD-REPLICA-CLIENT-ADD-LIST-BAD-REPLICAS-ZKWAVJ	Disk	False	True	False

No Errors

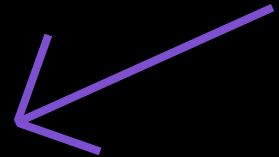
« < 1 of 14 > »

Idle





Functional RSEs details



View RSE

For RSE CERN-S3-LOGS

Name CERN-S3-LOGS
RSE Type **Disk**
Availability

Volatile **False**
Deterministic **True**
Staging Area **False**

RSE Protocols

Scheme	Hostname	Port	Prefix	LAN/R	LAN/W	LAN/D	WAN/R	WAN/W	WAN/D	TPC/W	TPC/R
			
s3	cephgw.usatlas.bnl.gov	8443	rucio_bucket	1	1	1	1	1	1	0	0

Navigation: << < 1 of 1 > >>

RSE Attributes

RSE Attribute

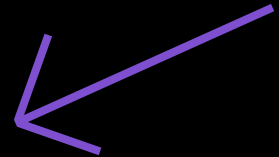
Filter RSE Attribute	Value
CERN-S3-LOGS	True
city	null
continent	null
country_name	null
lfn2pfn_algorithm	hash
region_code	null
time_zone	null
verify_checksum	True

Navigation: << < 1 of 1 > >>





Functional DIDs details



List DIDs

DID Search Pattern Search

Query for DID Types: Container Dataset File

DID

Filter DID

- mock:dataset_542a62aff313460e9939d3637c3b7c46
- mock:dataset_961da7a2fe814f79998f2e658d9cc1db**
- mock:dataset_c3d8a9b9db9b457a82c59edcb2d42837
- mock:dataset_45f1274c4aa04871bd53035fab38b390
- mock:dataset_bf553abff3524dab8426ddaf942f9cda
- mock:dataset_a76fa508a3134aecab8f22e1da7da386
- mock:dataset_696aa3a76d6149d4b05aab728cc39578
- mock:dataset_61ac3bb27792423e9ff118cae64667ea
- mock:dataset_test_dataset_e730f0580ead4103bf3438a6e17e70c7
- mock:dataset_test_dataset_5c8e37f1a3a249f086a9d9bf3f20d3a6

No Errors ✓

« < 1 of 6 > »

Idle ↻

Scope mock
Name dataset_961da7a2fe814f79998f2e658d9cc1db

Created At 2024-10-24
Updated At 2024-10-24

DID Type **Dataset**
Account root
Is Open **True**
Monotonic **False**

Obsolete **False**
Hidden **False**
Suppressed **False**
Purge Replicas **True**
Availability **Available**

[Go To DID Page](#)

Login with account choice



The image shows a dark-themed login interface for Rucio. At the top, the title "Rucio Login" is centered. Below it is a horizontal menu with four options: "Default", "ATLAS", "Operations", and "Data Management". The "Default" option is currently selected, indicated by a blue underline. Below the menu are two blue input fields: the first contains the text "x509" and the second contains "Userpass". Underneath these are three white input fields: "Username" with the value "vika", "Password" with four dots, and "Account" which is empty. At the bottom of the form is a large blue button labeled "Login".

Rucio Login

Default ATLAS Operations Data Management

x509

Userpass

Username vika

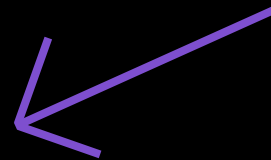
Password

Account

Login



Smart searchbar



Search

Dashboard

DIDs

RSEs

Rules

...

RSE Type
...

Volatile
...

<<

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1

of 0

>

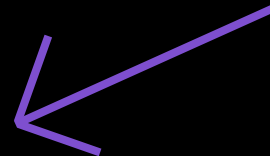
>>





RSEs

Streaming optimization



Expression ?

*

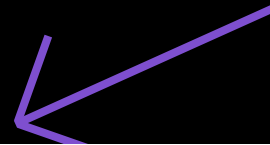
Stop

Name	Type	Volatile	Deterministic	Staging
MOCK-JYRSLDJGDE	TAPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MOCK-OVPVDTUFBQ	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XAYBFW-BB8-BB8-FULL-WORKFLOW-EAYWTO	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XAYBFW-BB8-BB8-FULL-WORKFLOW-RIFIYK	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MOCK-RDFMJYLJCA	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MOCK-TGDGCAYEPG	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XAYBFW-GATEWAY-EXTERNAL-REPRESENTATION-GATEWAYEXTERNALREPRESENTATION-GATEWAY-ACCOUNT-LI	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XAYBFW-BAD-REPLICA-ADD-LIST-BAD-REPLICAS-WZMJIF	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MOCK-DPFNEVBCGI	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



DIDs

Streaming optimization



Dataset :

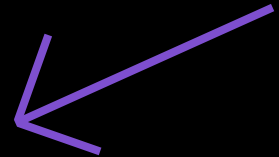
Identifier

No data yet

Select an identifier



Streaming optimization



Rules

Scope

 Search

ID	DID	RSE	Created At	Remaining	State	OK	Replicating	Stuck
----	-----	-----	------------	-----------	-------	----	-------------	-------

No data yet

Loading 100k entries

RSES

Expression ?

Stop



Name	Type	Volatile	Deterministic	Staging
RSE-WALLISANDFUTUNA-43 ↗	TAPE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSE-SANMARINO-76 ↗	DISK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSE-IRAQ-83 ↗	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-DEMOCRATICREPUBLICOFTHECONGO-68 ↗	DISK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-NAURU-73 ↗	UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSE-ROMANIA-85 ↗	UNKNOWN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-ISLEOFMAN-45 ↗	UNKNOWN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-BURUNDI-83 ↗	UNKNOWN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSE-TUVALU-49 ↗	UNKNOWN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSE-CURACAO-0 ↗	TAPE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-TOKELAU-65 ↗	TAPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-INDIA-87 ↗	TAPE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RSE-PALESTINE-46 ↗	TAPE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSE-ALGERIA-99 ↗	DISK	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Rule creation

New Rule

1 DIDs ————— 2 RSEs ————— 3 Options ————— 4 Summary ————— 5 Results

Search



Dataset



mock

:

*

Search



Identifier



Size

+ mock:/dataset_a847d8f8f18240a09998b4d392e62624

0 Bytes

+ mock:/dataset_0c2879ac9b414e678bc04c545a950dcc

0 Bytes

+ mock:/JAWRMW-abacus_account-AbacusAccount2-abacus_account-dataset_2349b3a3d5bc41ed8f6179998097af5d

0 Bytes

+ mock:/JAWRMW-abacus_collection_replica-AbacusCollectionReplica-abacus_collection_replica-dataset_e522b55c7a4b4c6a8c3d6a70f4cf4ebd

0 Bytes

+ mock:/JAWRMW-abacus_collection_replica-AbacusCollectionReplica-abacus_collection_replica_new-dataset_bfc0f70cafe94c7484c8a47302c281fa

0 Bytes

+ mock:/JAWRMW-abacus_rse-AbacusRSE-abacus_rse-dataset_33b14008c2154235ace00b8c8dd20366

0 Bytes

+ mock:/dataset_dd2fcc715aae420cad259158b6d0f525

0 Bytes

+ mock:/dataset_3607d41d11ca4a48bb5f32aa42fe2e25

0 Bytes

<< < Page 1 of 2 > >>

i Please select at least one identifier



Previous

Next



Rule creation

New Rule

1

DIDs

2

RSEs

3

Options

4

Summary

5

Results

Expression ?

*

Search



Name	Quota	Total usage	Remaining ↓
JAWRMW-RULE-CORE-RSE-COUNTER-UNAVAILABLE-REPLICAS-NWNILH	No quota		
JAWRMW-SUBSCRIPTION-SUBSCRIPTIONCLIENT-RUN-TRANSMOGRIFIER-RKOAKJ	No quota		
JAWRMW-PREPARER-PREPARER-SETTING-REQUEST-STATE-QUEUED-SXXKDU	No quota		
MOCK-EAFXMDNSZH	No quota		
JAWRMW-RSE-EXPRESSION-PARSER-RSEEXPRESSIONPARSERCLIENT-COMPLICATED-EXPRESSION-GQVUGJ	No quota		
JAWRMW-SUBSCRIPTION-DAEMON-RUN-TRANSMOGRIFIER-CHAINED-SUBSCRIPTION-EXCLUDE-SITE-ALGO-LMCRCO	No quota		
MOCK-PHFOQQLCAI	No quota		
JAWRMW-PREPARER-PREPARER-SETTING-REQUEST-SOURCE-XBBLVV	No quota		

« < Page 1 of 35 > »

⚠ Out of 2 chosen RSEs, none have enough quota left. Please choose different RSEs or mark the rule as needing approval.

Ask for approval



Previous

Next



Rule creation

New Rule

1

DIDs

2

RSEs

3

Options

4

Summary

5

Results

Copies *

1

Lifetime



Comments *

Test

Receive notifications

Advanced



Grouping

Undefined



Asynchronous

Create a sample



Previous

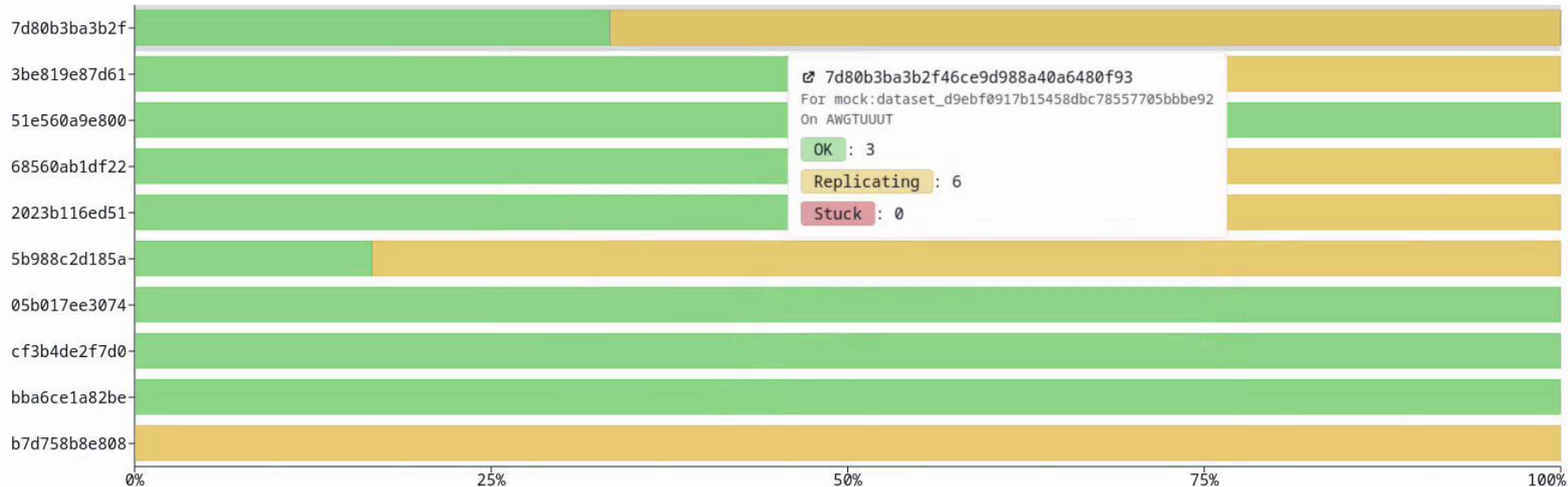
Next



Dashboard

Hello, jdoe!

Locks of latest rules



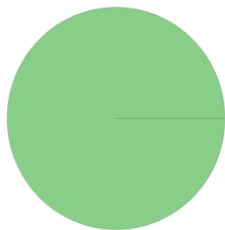
OK Replicating Error

Dashboard

RSE Usage

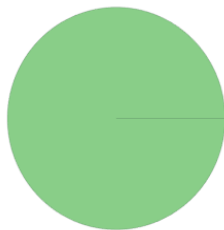
Used Remaining

WJ-XROOTD



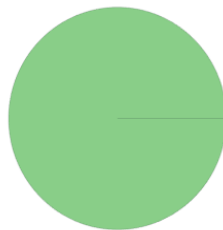
Quota 66.76 MB

MOCK2



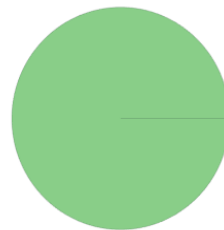
Quota 5 Bytes

SSH-DISK

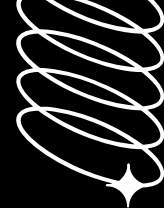


Quota 117.19 KB

MOCK



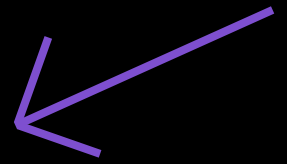
Quota 5.86 KB



03

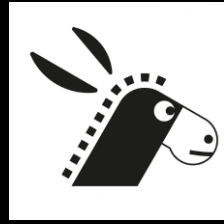
What's next?





- Extensive test coverage
- Reworking the rest of the views (coming soon!)
 - Adjusting for different Rucio communities
 - Adjusting for different browsers
 - Refining the visual integrity
- Focusing on client/server component architecture for performance benefits





Thank you!

