Unified Data Catalog for Imaging Analytics

Scenario 1: Initialize Catalog with Metadata

Frank Lee

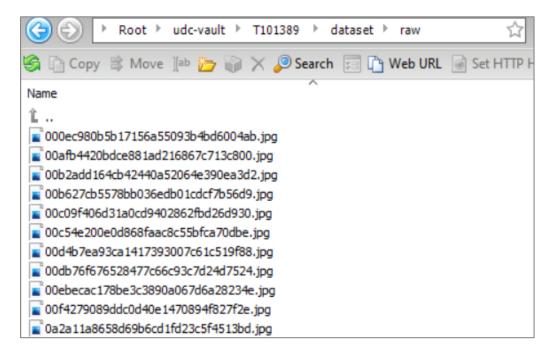
https://github.com/drfranknlee/demo-udc-aircraft

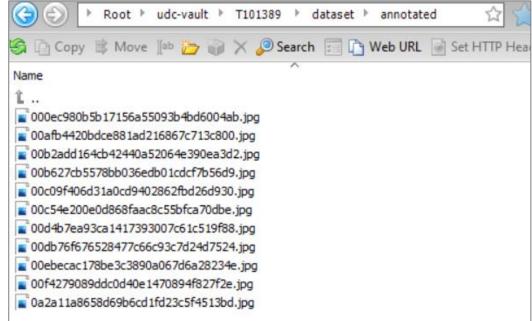


Data source management

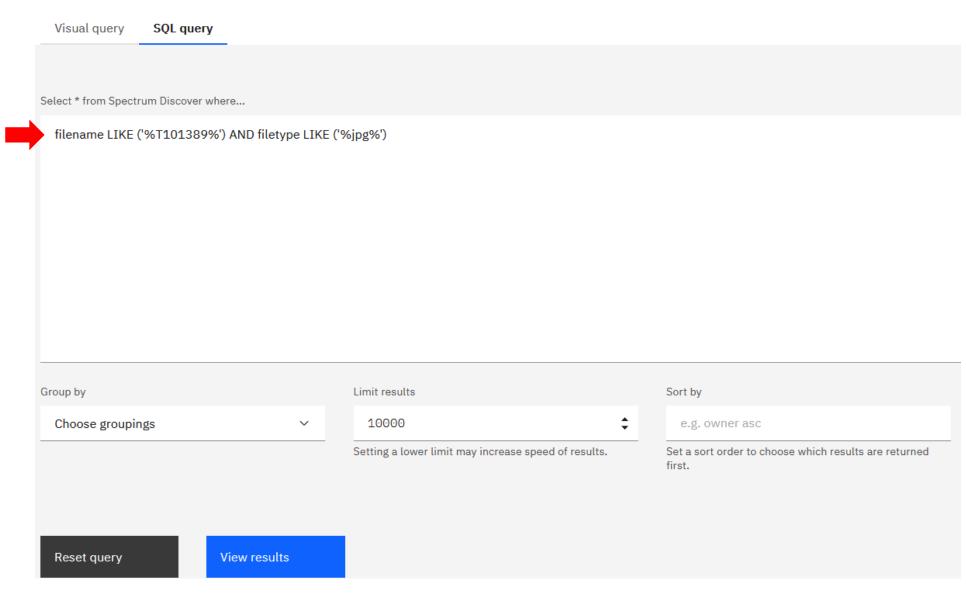
Connections Scan history Discover databases

							Q	Add conne	ection	+
Connection name	Connection type	Cluster	Data source	Site	State	Scan status		Ne	ext scan	
UDCt-ClockTower-ScaleS3	S3	http://129.40.101.35	BreaKHis_v1	ClockTower	Online					
UDCt-haproxy-rhceph01- rgw0	S3	https://9.11.221.111:443	udcuser-bucket		Online	•				
UDCt-rhceph01-rgw0	S3	http://rhceph-01.storage- ocp.tuc.stglabs.ibm.com:8080	udc-RGW-bucket		Online	•				
UDCt-rhceph03-rgw0	S3	rhceph-03.storage-ocp.tuc.stglabs.ibm.com	udc-RGW3- bucket		Online					
UDSt-CoS	IBM COS	df3b7ae7-ab82-756b-01c4-c9f3ac8fae42	udc-vault	Tucson	Online	•				
UDSt-SpectrumScale	Spectrum Scale	scale-bm.storage-ocp.tuc.stglabs.ibm.com	bm_filesystem_2		Online					
Items per page: 20 ∨	1-6 of 6 items						1 ~	of 1 pages	4	>





Query builder



Results view: ③					Matchea	l 22 records from n	netaocean_view table in 0	.084276 s	second
Condensed Individual								Q	©
Condensed Individual	path	filenam	e	udc dem2	u2 type	u2 id	udc dem3	u2 wid	dth
Inspecting records	udc- vault/		89/dataset/annotated 980b5b17156a55093b4bd6004ab.jpg	NULL	NULL	NULL	NULL	NI	ULL
Grouped By	udc- vault/		89/dataset/annotated 1420bdce881ad216867c713c800.jpg	NULL	NULL	NULL	NULL	NI	ULL
Cluster Datasource	udc- vault/		39/dataset/annotated dd164cb42440a52064e390ea3d2.jpg	NULL	NULL	NULL	NULL	NI	ULL
Filegroup Filename	udc- vault/		89/dataset/annotated 7cb5578bb036edb01cdcf7b56d9.jpg	NULL	NULL	NULL	NULL	NI	ULL
Fileset	udc- vault/		89/dataset/annotated f406d31a0cd9402862fbd26d930.jpg	NULL	NULL	NULL	NULL	NI	ULL
Show more	udc- vault/		89/dataset/annotated e200e0d868faac8c55bfca70dbe.jpg	NULL	NULL	NULL	NULL	NI	ULL
	udc- vault/		39/dataset/annotated 7ea93ca1417393007c61c519f88.jpg	NULL	NULL	NULL	NULL	NI	ULL
	udc- vault/		89/dataset/annotated 6f676528477c66c93c7d24d7524.jpg	NULL	NULL	NULL	NULL	NI	ULL
	<								>
	Items per page:	10 ∨	1–10 of 22 items				1 v of 3 pages	4	٠

Create the autotag policy in json

```
{
"pol_id": "T101389_autotag_u2source_pol",
"action_id": "AUTOTAG",
"action_params": {
    "rule": {
        "name":"setFromExistingField",
        "action": "regex",
        "existingField": "filename",
        "regexPattern": "[^/]+",
        "matchNo": 3,
        "newField": "u2-source"
      }
},
"schedule": "NOW",
"pol_filter": "filename LIKE ('%T101389%') AND filetype LIKE ('%jpg%')",
"pol_state": "active",
"explicit": "true",
"collections": []
}
```

Execute the policy on server

```
[moadmin@discover1 T101389]$ pwd
/home/moadmin/T101389
[moadmin@discover1 T101389]$ ls
T101389 aircraft import scenario1.json T101389 autotag u2source.json
T101389 aircraft import scenario2.json
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$ gettoken
                                                                Time Current
          % Received % Xferd Average Speed
                                               Time
  % Total
                                                       Time
                                Dload Upload
                                                                Left Speed
                                              Total
                                                       Spent
                                          0 --:--:--
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$ curl -k -H "Authorization: Bearer ${TOKEN}" https://localhost/policyengine/v1/
policies/T101389 autotag u2source pol -X POST -d @./T101389 autotag u2source.json -H "Content-Type: applica
tion/json"
Policy 'T101389 autotag u2source pol' added[moadmin@discover1 T101389]$
```

Tag management

Tags **Policies** Policy history

							Q Add Policy +
Policy	Туре	Schedule (UTC)	State	State	Collections	Last modified by	Last modified
ap_cs_body	CONTENTSEARCH	Done	Active	✓ Complete		sdadmin	9/17/2021, 2:51:16 PM
ap_cs_meta	CONTENTSEARCH	Done	Active	✓ Complete		sdadmin	9/16/2021, 1:18:06 PM
T101389_autotag_u2source_pol	AUTOTAG	Done	Active	Complete		sdadmin	9/21/2021, 2:32:38 PM
u3-iphone-gps	CONTENTSEARCH	Done	Active	Complete		sdadmin	9/17/2021, 12:35:42 AM
Items per page: 20 ∨ 1–4 of	of 4 items					1	✓ of 1 pages ◆

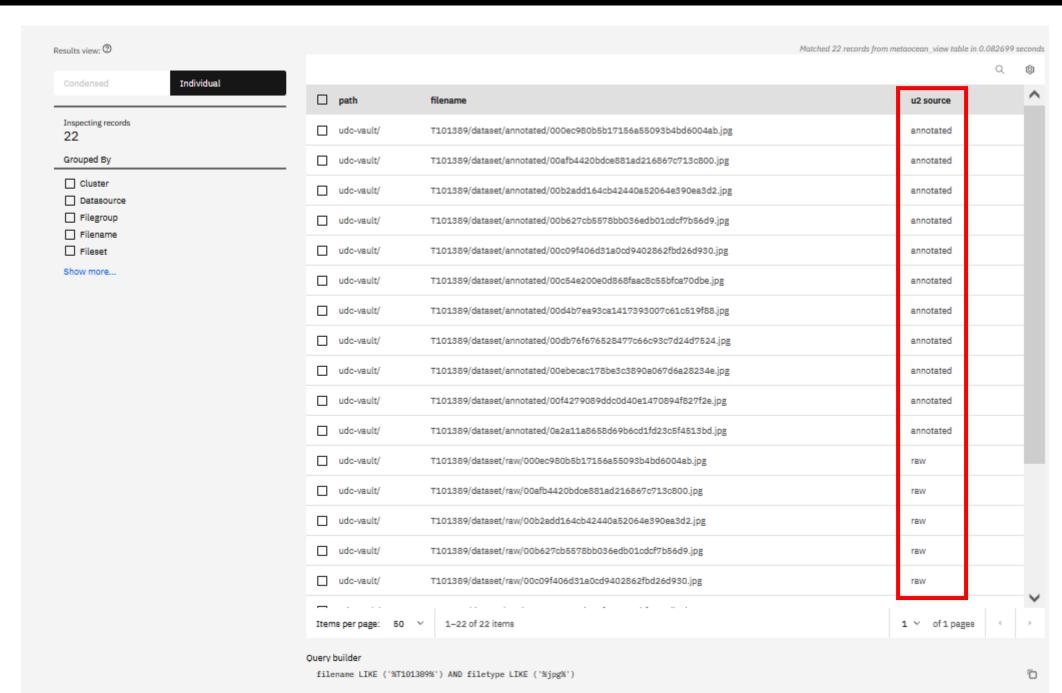
Tag management

Tags

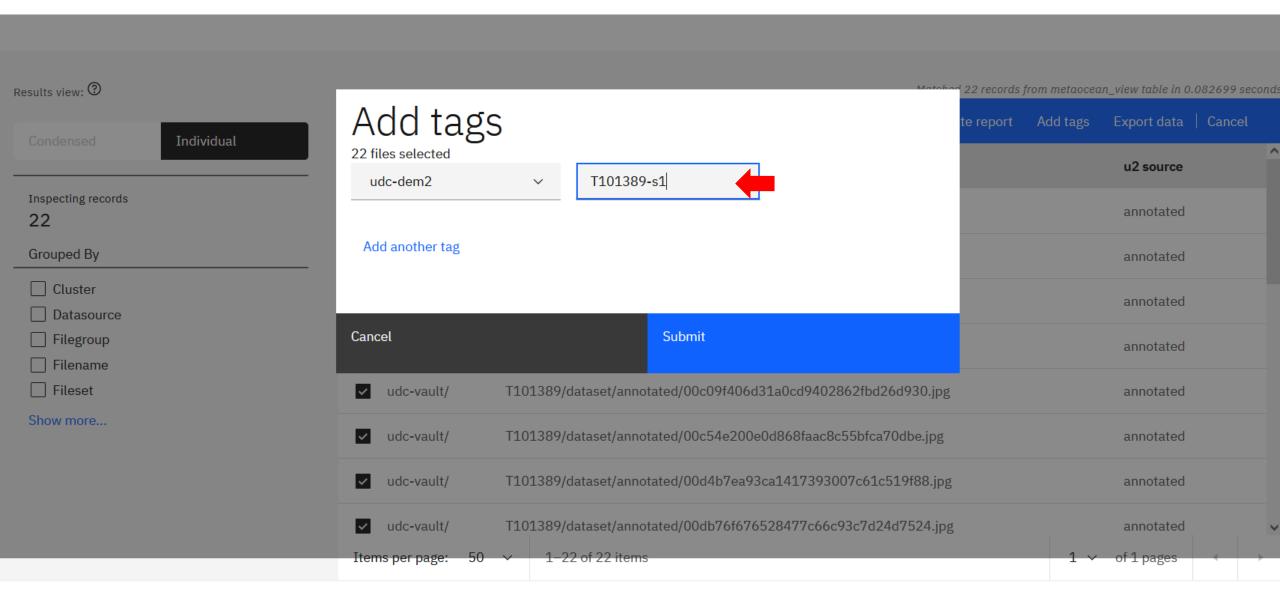
Policies

Policy history

								Q	(3)
Policy name	Туре	Started	Ended	Status	Total records	Successful	Skipped	Failed	
T101389_autotag_u2source_pol	AUTOTAG	9/21/2021, 2:32:39 PM	9/21/2021, 2:32:41 PM	Complete	22	22	0	0	
T101389_contentsearch_u2source_pol	AUTOTAG	9/21/2021, 2:27:44 PM	9/21/2021, 2:27:46 PM	Complete	22	22	0	0	
T101389_aircraft_import_scenario2_pol	IMPORT_TAGS	9/21/2021, 1:03:52 AM	9/21/2021, 1:04:11 AM	Complete	22	22	0	0	
T101389_aircraft_import_scenario1_pol	IMPORT_TAGS	9/20/2021, 11:21:32 PM	9/20/2021, 11:21:49 PM	Complete	11	11	0	0	
T101389_aircraft_import_scenario1_pol	IMPORT_TAGS	9/20/2021, 11:17:06 PM	9/20/2021, 11:17:22 PM	Complete	11	11	0	0	
T101389_aircraft_import_pol	IMPORT_TAGS	9/20/2021, 9:18:41 PM	9/20/2021, 9:18:59 PM	Complete	11	11	0	0	
T101389_aircraft_import_pol	IMPORT_TAGS	9/20/2021, 9:16:06 PM	9/20/2021, 9:16:13 PM	Complete	0	0	0	0	
T101389_aircraft_import_pol	IMPORT_TAGS	9/20/2021, 9:08:05 PM	9/20/2021, 9:08:40 PM	Complete	0	0	0	0	
an cs hody	CONTENTSFARCH	9/17/2021,	9/17/2021,	Complete	16	16	n	n	



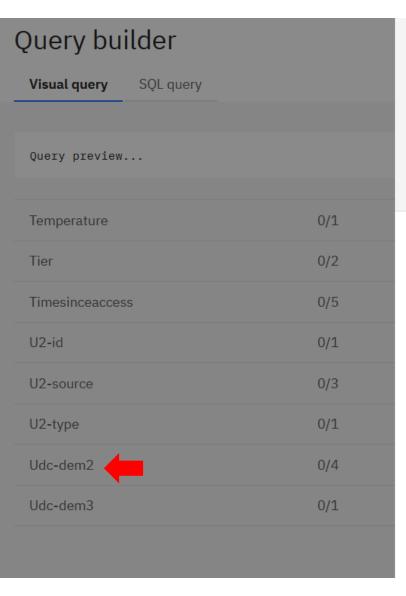
ults view: ③			Matched 22 reco	ords from in Laocean_v	view table in 0.00	82699 seco			
Condensed Individual	22 items selecte	ed	Generate repo	ort Add tags E	Add tags Export data				
individual	∠ path	filename			u2 source				
nspecting records	✓ udc-vault/	T101389/da	taset/annotated/000ec980b5b17156a55093b4bd6004ab.jpg		annotated				
rouped By	✓ udc-vault/	T101389/da	taset/annotated/00afb4420bdce881ad216867c713c800.jpg		annotated				
Cluster Datasource	✓ udc-vault/	T101389/da	taset/annotated/00b2add164cb42440a52064e390ea3d2.jpg		annotated				
☐ Filegroup ☐ Filename	✓ udc-vault/	T101389/da	taset/annotated/00b627cb5578bb036edb01cdcf7b56d9.jpg		annotated				
Fileset	✓ udc-vault/	T101389/da	taset/annotated/00c09f406d31a0cd9402862fbd26d930.jpg		annotated				
ow more	✓ udc-vault/	T101389/da	taset/annotated/00c54e200e0d868faac8c55bfca70dbe.jpg		annotated				
	✓ udc-vault/	T101389/da	taset/annotated/00d4b7ea93ca1417393007c61c519f88.jpg		annotated				
	✓ udc-vault/	T101389/da	taset/annotated/00db76f676528477c66c93c7d24d7524.jpg		annotated				
	Items per page:	50 × 1-22	of 22 items	1 ~ 0	of 1 pages	4			

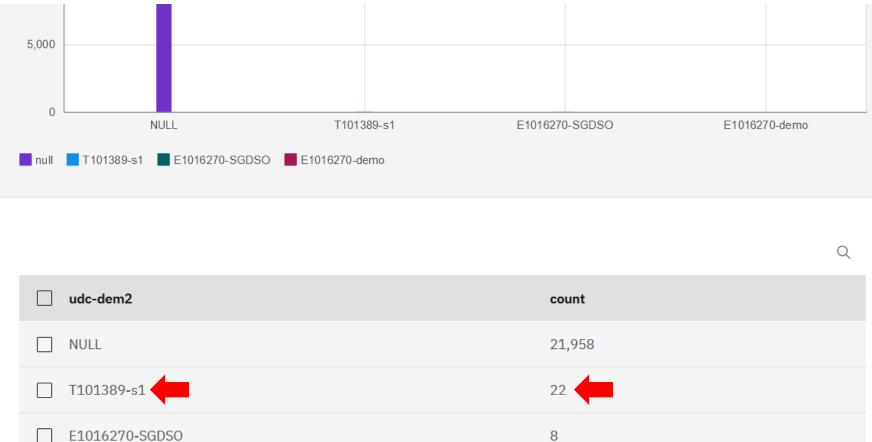


E1016270-demo

1-4 of 4 items

Items per page: 10 ∨

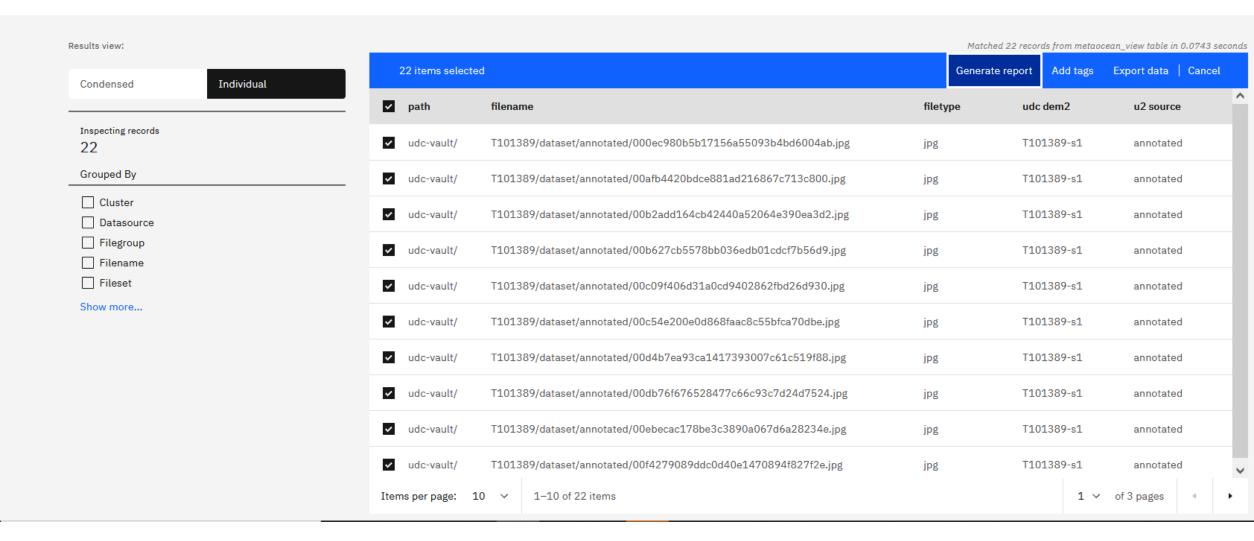


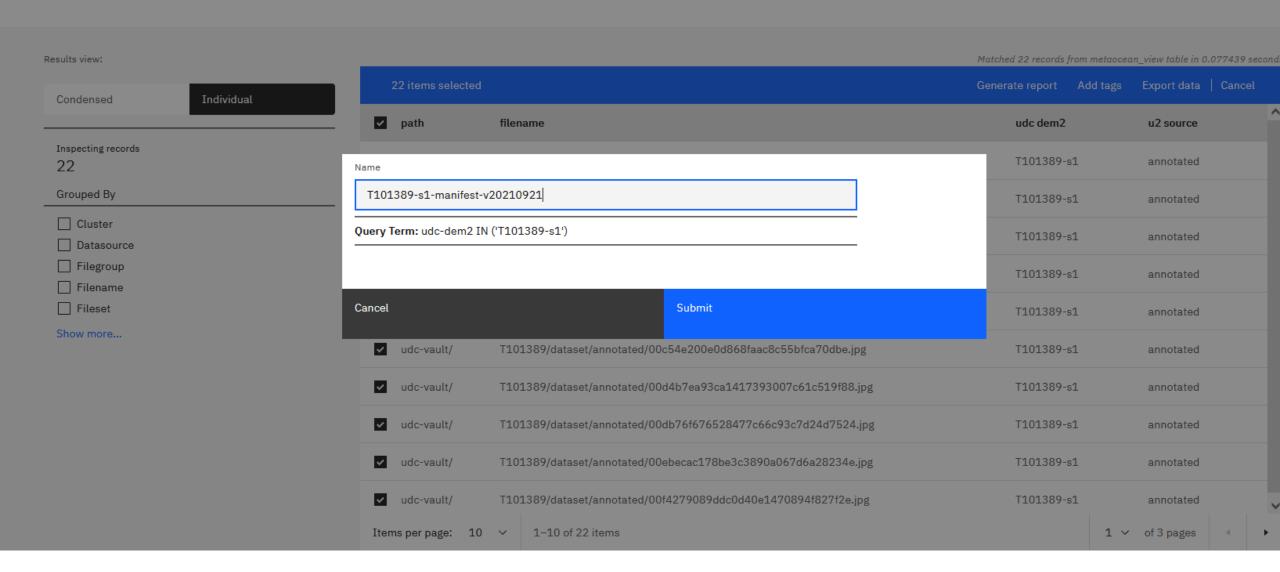


1

1 ∨ of 1 pages







Reports

Report has been Created
The report T101389-s1-manifest-v20210921 was
created

Report	Last run	Duration	Status	Output size	^
T101389-s1-manifest-v20210921	Tue Sep 21 2021 14:49:17 GMT-0500 (Central Daylight Time)	0 seconds	Complete	10.32 KiB	
demo-csv	Thu Sep 09 2021 18:39:49 GMT-0500 (Central Daylight Time)	0 seconds	Complete	2.34 KiB	
E101475_d1-list	Thu Apr 29 2021 08:16:33 GMT-0500 (Central Daylight Time)	0 seconds	Complete	8.17 KiB	
E1014753-data-manifest	Thu Apr 29 2021 00:36:52 GMT-0500 (Central Daylight Time)	0 seconds	Complete	8.08 KiB	
BH01 Dataset Report for FS21EMEA	Tue Feb 09 2021 00:14:30 GMT-0600 (Central Standard Time)	0 seconds	Complete	3.75 MiB	
TD-BH01 Report	Sat Jan 30 2021 18:15:17 GMT-0600 (Central Standard Time)	0 seconds	Complete	3.73 MiB	
BreakHist Summary	Sat Jan 30 2021 17:56:08 GMT-0600 (Central Standard Time)	0 seconds	Complete	3.33 MiB	
Age Report Detail. 90-180 Days	Tue Dec 22 2020 02:24:47 GMT-0600 (Central Standard Time)	0 seconds	Complete	308 Bytes	
Age Report Summary. 90-180 Days	Tue Dec 22 2020 02:24:47 GMT-0600 (Central Standard Time)	0 seconds	Complete	41 Bytes	
Age Report Detail. 720+ Days	Tue Dec 22 2020 02:24:46 GMT-0600 (Central Standard Time)	0 seconds	Complete	308 Bytes	~
Items per page: 20 ∨ 1–20 of 21 items				1 ∨ of 2 pages 4	٠

A1	- : × -	$f_{\!\scriptscriptstyle X}$ path																			
A	ВС	D	E	F	G	Н	1	J	K	L	М	N	О	Р	Q	R	S	Т	U	V	W
1 path	filename filetype	datasource own	er grou	up r	revision	site	platform	cluster	inode	permissio	r fileset	uid	gid	recordver	s state	migloc	mtime	atime	ctime	tier	size
2 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:03.0	08:03.0)		100863
3 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:02.9	08:02.9)		18515
4 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:03.3	08:03.3	3		109370
5 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:03.5	08:03.5	5		100985
6 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:04.1	08:04.1	L		276382
7 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:04.5	08:04.5	5		37205
8 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:04.8	08:04.8	3		76399
9 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:05.0	08:05.0)		6931
10 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:05.4	08:05.4	1		231879
11 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:05.7	08:05.7	7		174560
12 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:06.1	08:06.1	L		150729
13 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							07:57.6	07:57.6	5		5720
14 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							07:58.4	07:58.4	1		595383
15 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							07:58.1	07:58.1	L		66842
16 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							07:58.7	07:58.7	7		124600
17 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:01.1	08:01.1	L		1933439
18 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							07:59.9	07:59.9)		284812
19 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:00.8	08:00.8	3		46243
20 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:01.3	08:01.3	3		25959
21 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:01.7	08:01.7	7		215413
22 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	- ()							08:02.3	08:02.3	3		329510
23 udc-vaul	t/ T101389/c jpg	udc-vault				Tucson	IBM COS	df3b7ae7-	. ()							08:02.4	08:02.4	1		6220
24																					
25 26																					
26																					

Results view:

Condensed	Individual
Inspecting records	
Grouped By	
Cluster	
Datasource	
Filegroup	
Filename	
Fileset	
Show more	

					Q	®	
	path	filename	cluster	udc dem2	u2 source		
	udc- vault/	T101389/dataset/annotated /000ec980b5b17156a55093b4bd6004ab.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1			
	udc- vault/	T101389/dataset/annotated /00afb4420bdce881ad216867c713c800.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1 annotated			
	udc- vault/	T101389/dataset/annotated /00b2add164cb42440a52064e390ea3d2.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
	udc- vault/	T101389/dataset/annotated /00b627cb5578bb036edb01cdcf7b56d9.jpg	annotated				
	udc- vault/	T101389/dataset/annotated /00c09f406d31a0cd9402862fbd26d930.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
	udc- vault/	T101389/dataset/annotated /00c54e200e0d868faac8c55bfca70dbe.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
	udc- vault/	T101389/dataset/annotated /00d4b7ea93ca1417393007c61c519f88.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
	udc- vault/	T101389/dataset/annotated /00db76f676528477c66c93c7d24d7524.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
	udc- vault/	T101389/dataset/annotated /00ebecac178be3c3890a067d6a28234e.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
	udc- vault/	T101389/dataset/annotated /00f4279089ddc0d40e1470894f827f2e.jpg	df3b7ae7-ab82-756b-01c4- c9f3ac8fae42	T101389-s1	annotated		
Item	ns per page:	10 V 1-10 of 22 items		1 ∨ of3 page	es 4	•	

Query builder

udc-dem2 like ('%T101389-s1%')









