Monitoring the Open Science Data Federation

Fabio Andrijauskas - UCSD and Frank Würthwein - UCSD

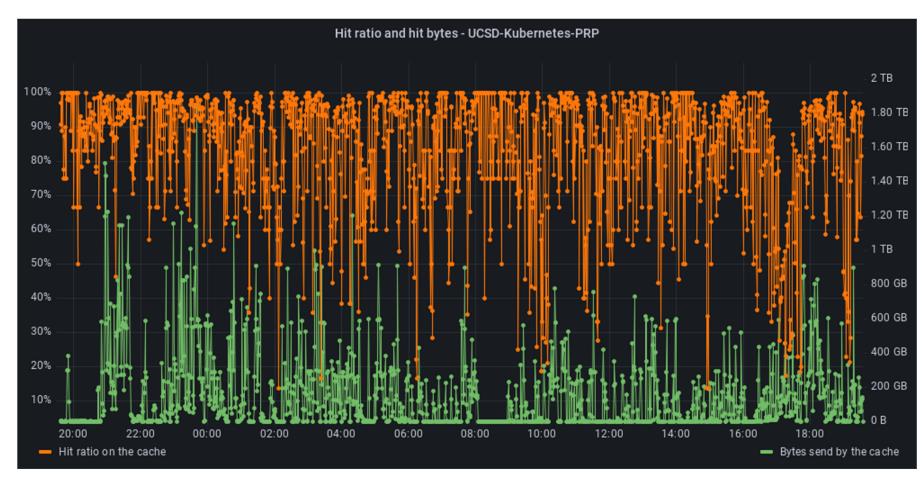
Open Science Data Federation

- Open Science Data Federation (OSDF) is an OSG service that supports sharing files staged in autonomous "origins."
- The OSDF may be used either standalone allowing data to be downloaded via HTTPS or with HTCondor managing data transfer to compute jobs running on one of the many resource pools supported by OSG.
- -The OSDF monitoring provides information and checks end-to-end, using checkmk.

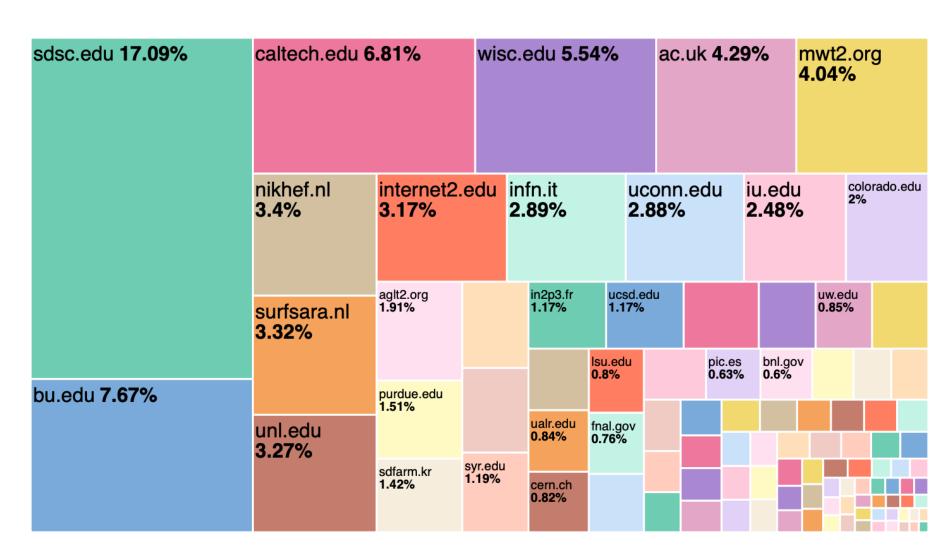
Open Science Data Federation



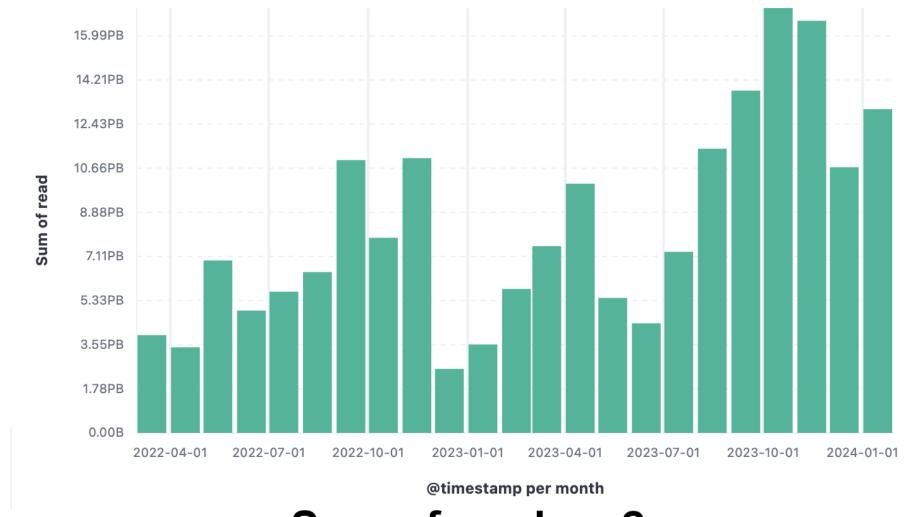
OSDF Monitoring - last 2 years.



Hit and misses from a cache



Sum of reads - user domain - 2 years



Sum of reads - 2 years

ATE	SERVICE	ICONS	STATUS DETAIL	AGE	CHECKED	PERF-O-METER
ОК	Check SSL certificate	=	OK - Certificate 'sdsc-cache.nationalresearchplatform.org' will expire on Tue Dec 17 23:59:59 2024 +0000.	2024-02-27 02:25:34	9.73 s	
ок	HTTP Check CVMFS Access	≡‱	HTTP OK: HTTP/1.1 200 OK - 1122 bytes in 0.087 second response time	2024-02-27 02:25:57	9.73 s	86.7 ms
ок	Shoveler processed msg	=	shoveler_packets_received = 655672	2024-02-27 02:25:13	9.74 s	
ОК	Stash cache auth	=	www.	2024-02-27 02:25:34	42.7 s	
ОК	Stash cache copy check with authentication	=	[' % Total % Received % Xferd Average Speed Time Time Time Current	2024-02-27 02:25:13	42.7 s	
ок	Stash cache reports to GRACC in the past 4 days	≡‱	GRACC received 0 records but there were no history ads	2024-02-24 11:56:42	16.7 s	
ок	XRootD copy	=	[1024B/1024B][100%][===================================	2024-02-24 11:59:12	9.75 s	
ОК	XRootD copy per host		[8MB/100MB][8%][====>][8MB/s] [16MB/100MB][16%][======>][8MB/s] [32MB/100MB][32%][=========>][10.67MB/s] [48MB/100MB][48%] [====================================	2024-02-24 12:00:28	51.7 s	
ОК	XRootD StashCache cache Ping	≡ ‱	ок	2024-02-27 02:25:13	9.75 s	

Tests and checks from an OSDF host