

DB usage

Check DB size and usage

```
ceph daemon osd.$(ls -l /var/lib/ceph/osd/ceph-?/.. | cut -d "-" -f 2) perf
dump | jq ".bluefs | {db_total_bytes, db_used_bytes}"
```

1st machine:

```
{
  "db_total_bytes": 3221217280,
  "db_used_bytes": 1162870784
}
```

2nd machine:

```
{
  "db_total_bytes": 4294959104,
  "db_used_bytes": 3879731200
}
```

It looks like DB is full on 2nd machine. Which is a bit strange because it is configured with the same configuration.

More deep look into BlueFS:

```
ceph daemon osd.6 bluefs stats
ceph tell osd.* bluefs stats
```

1st machine:

Usage matrix:						
DEV/LEV	WAL	DB	SLOW	*	*	REAL
FILES						
LOG	0 B	195 GiB	0 B	0 B	0 B	5.4
MiB 1						
WAL	0 B	1013 MiB	0 B	0 B	0 B	1009
MiB 8						
DB	0 B	731 MiB	0 B	0 B	0 B	717
MiB 24						
SLOW	0 B	0 B	2.6 GiB	0 B	0 B	2.6
GiB 43						
TOTALS	0 B	197 GiB	2.6 GiB	0 B	0 B	0 B
76						

2nd machine:

Usage matrix:

DEV/LEV	WAL	DB	SLOW	*	*	REAL
FILES						
LOG	0 B	180 GiB	15 GiB	0 B	0 B	13
MiB	1					
WAL	0 B	733 MiB	0 B	0 B	0 B	731
MiB	5					
DB	0 B	2.9 GiB	502 MiB	0 B	0 B	3.3
GiB	72					
SLOW	0 B	0 B	0 B	0 B	0 B	0 B
0						
TOTALS	0 B	183 GiB	15 GiB	0 B	0 B	0 B
78						

Rows is type of data to be placed, and columns show real storage of this kind of data. On 2nd machine, there is 2.9 GB placed onto DB and 502MB of DB data is placed on SLOW device !

Compacting helps a bit:

```
ceph tell osd.<osdid> compact
# or for all osds
ceph tell osd.* compact
```

{
 "db_total_bytes": 4294959104,
 "db_used_bytes": 2881486848
}

Usage matrix:

DEV/LEV	WAL	DB	SLOW	*	*	REAL
FILES						
LOG	0 B	180 GiB	15 GiB	0 B	0 B	3.7
MiB	1					
WAL	0 B	90 MiB	24 MiB	0 B	0 B	109
MiB	9					
DB	0 B	2.6 GiB	319 MiB	0 B	0 B	2.9
GiB	55					
SLOW	0 B	0 B	0 B	0 B	0 B	0 B
0						
TOTALS	0 B	183 GiB	15 GiB	0 B	0 B	0 B
65						

```
ceph osd set noout
systemctl stop ceph.osd.target
ceph-bluestore-tool fsck --path /var/lib/ceph/osd/ceph-6
```

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