<table>
<thead>
<tr>
<th>Ceph</th>
<th>encoding: cross-version test repo, scripts</th>
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<tr>
<td></td>
<td>mon: check for slow performing osds</td>
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<td>librados: caching</td>
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<td>track object states to inform error injection/testing</td>
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<td>msgr workloads</td>
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<td>qa: gitbuilder that does ENCODE_DUMP</td>
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<td>msgr: performance tester</td>
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<td></td>
<td>osd: add opaque 'class &lt;name&gt; &lt;foo&gt;' cap (...)</td>
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<td>rados ager</td>
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<td>rest-bench man page</td>
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<td>doc: expand/complete mds settings reference</td>
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<td></td>
<td>doc: write RADOS backup procedure</td>
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<td>doc: write RADOS restore from backup procedure</td>
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<td>doc: write doc on how to use / rollback to (...)</td>
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<td>doc: write add/remove a metadata server</td>
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<td>doc: write performance monitoring</td>
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<td>doc: write performance tuning</td>
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<td>doc: write install troubleshooting</td>
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<td>doc: write OSD troubleshooting</td>
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<td>doc: write MON troubleshooting</td>
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<td>doc: write MDS troubleshooting</td>
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<td></td>
<td>mon: simple dm-crypt key management</td>
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<td>default to system libs3</td>
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<td>crush: separate library</td>
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<td>Make Rebalancing Smarter</td>
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<td>osd: pg delete</td>
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<td>msgr: move iov + sendmsg into bufferlist::sendmsg (...)</td>
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msgr: remove old rx_buffers functionality
msgr: move readmsg() into bufferlist; refactor (...)
buffer: make readmsg use raw_pipe where possible
buffer: make writemsg use splice where possible
osd: agent: measure temperature
ceph-rest-api: sysvinit and upstart scripts
osd: hard cap on PGs per OSD
osd: store scrub error state in kv store; (...)
osd: add scrub result query interface
librados: add ability to read a specific (...)
rados: add ability to read a specific replica/shard (...)
librados, osd: per-object scrub operation
osd: smarter choice of primary to minimize (...)
osd: allow encoded bufferlist to be used (...)
librados: improve get_objects and get_position (...)
rados: new import from pipe/file
librados: set user_version operation
rados: pool rollback
osd: cache: make writes in readonly mode (...)
ceph: 'daemon list' command to enumerate (...)
osd: pg_num shrink
catch std::bad_alloc and die with helpful (...)
osd: remove read(len=0) full object behavior
osd: leave gap after journal entries to avoid (...)
use STL find() and iterators instead of count()
crushtool: better error messages when parsing (...)
need const iterator for bufferlist
crush: extend rule definition
osd: priority or fairness osd operations
set up a no-atomic-ops gitbuilder
scrub: repair intra-node inconsistencies
Deduplication support in RADOS
osd: rewrite missing object if op is replayed
osd: guard against bad objects in cls map (...)

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<p>| osd classes: add an optional source object |
| mshr: behave better when ending TCP connections |
| mshr: limit simultaneous connections |
| document librados C++ api |
| librados: don't do memory copies for the (⋯) |
| qa: write tests for local reads and random (⋯) |
| qa: test OSD handling of misdirected operations |
| mon: implement internal heartbeating |
| store history of configs and changes |
| osd: expire objects using scrubbing |
| qa/benchmark: Explore using Filebench for (⋯) |
| add an option to force a down osd to be marked (⋯) |
| Save kernel core dumps on all of our test (⋯) |
| vm for coredump archive |
| install + configure package everywhere |
| FAQ: cluster size |
| FAQs: RADOS reliability and availability |
| basic reliability models |
| Basic Availability Model |
| The ceph command should time out |
| rados: support omap (leveldb) and locator (⋯) |
| Provide tool to answer: &quot;when is it safe (⋯) |
| bash completion is broken |
| admin socket: config reload |
| Improve ceph-fuse error reporting (especially (⋯) |
| PG::find_best_info cleanup |
| doc: ceph and all daemons take --show-config |
| ceph tell osd &lt;num&gt; should be ceph osd &lt;subcommand&gt; (⋯) |
| Idempotency tester |
| pkgconfig files for libraries |
| ceph-authtool: Adds keys on typos, expected (⋯) |
| doc: Provide PDF docs |
| doc: Provide epub docs |
| crush: create a visualizer for crush maps |</p>
<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
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<tr>
<td>Consider making MLog messages not require</td>
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<tr>
<td>come up with some way to do gossip among</td>
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<tr>
<td>doc: Document ceph-osd --mkfs --osd-uuid</td>
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<tr>
<td>doc: omap, tmap, xattrs</td>
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<tr>
<td>rados: support asynchronous replication of</td>
<td></td>
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<tr>
<td>doc: Where to see &quot;ceph osd tell ID bench&quot;</td>
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<td>doc: what to do after install to validate</td>
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<td>doc: Explain OSD up/down, in/out: what does</td>
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<tr>
<td>osd: close read hole</td>
<td></td>
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<tr>
<td>osdmaptool's usage is incomplete</td>
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<tr>
<td>Doc: osdmaptool manpage out of date with</td>
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<tr>
<td>Efficient access in distributed data centers</td>
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<tr>
<td>have way of separating auth keys per host</td>
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<tr>
<td>java: add generated JavaDoc pages to ceph.jar</td>
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<td>java: add multi-threaded unit tests</td>
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<td>When is it safe to reboot a node?</td>
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<tr>
<td>doc: Workaround needed to put journal on</td>
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<tr>
<td>doc: &quot;Designing a cluster guide&quot; feedback,</td>
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<tr>
<td>doc: How to troubleshoot unbalanced CRUSH</td>
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<tr>
<td>doc: Explain how to choose journal size,</td>
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<tr>
<td>doc: Explain kernel dynamic printk debugging</td>
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<tr>
<td>refuse to accept &quot;cluster=foo&quot; in ceph.conf</td>
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<td>make Ceph build faster, take less RAM to</td>
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<td>Add perf counter tracking for major memory</td>
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<td>osd: Prevent primary from choosing a pg_temp</td>
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<td>Warn users before allowing pools to be created</td>
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<tr>
<td>doc: add instructions on snapshot reversion</td>
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<tr>
<td>ceph - man page - comprehensive options/switches</td>
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<tr>
<td>ceph zfs</td>
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<tr>
<td>doc: how to recover from a failed journal</td>
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<tr>
<td>Minimize recovery time of a degraded cluster</td>
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<tr>
<td>rados manpage: bench still documents &quot;read&quot;</td>
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<tr>
<td>qemu-rbd: support bdrv_has_zero_init</td>
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<tr>
<td>mon: use new MessageRef and intrusive_ptr's</td>
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</tbody>
</table>
mon: get rid/refactor of QuorumServices
mon: finer-grain Paxos::is_readable() / PaxosService::is_readable()
figure out how to best set the heartbeat (...)
doc: how to use the admin socket interface
crush-map.rst: talks about 'step choose' (...)
ceph osd tree should show disk usage
osd: repair object size vs object_info_t (...)
osd: incremental object checksumming
osd: maintain checksum on collection contents
osd: async replicas
log: stop logging in statfs reports usage (...)
log: detect dup messages
crush compiler errors are not helpful
crush-map.rst: chooseleaf doesn't include (...)
Do a great stream operator const cleanup!
Add perftools to the kernel debian package (...)
We should document what needs to be touched (...)
buffer::list::iterator constructor should (...)
Document various language bindings better
qa: don't chown rbd stuff in rbd/* workunits
ceph: update rados.h to match kernel
ceph: update ceph_fs.h to match kernel
poor use of DIR_? subdirs in osds
Add more replication pool tests for Hadoop (...)
librados: Improve Java bindings
Automatically determine routing data based (...)
qa: test pool rename
add ability to make ceph ignore io errors (...)
itshe should be possible use ssd as primary (...)
osd: allow reads to progress in parallel (...)
permanent log of all operator actions
blog: update 'monitor changes' article to (...)
packaging: set up git repo with ceph spec (...)
qa: add test to compile a simple program (...)

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ReplicatedPG:: better handle read waiting  
FAQ entry for changing journal size/moving  
osd read path should detect EIO and initiate  
Deactivating filestore xattr use omap creates  
rados.8 should document import/export 
separate OSD names from their IDs 
Add OpenNebula integration to doc 
recovery from partially partitioned networks 
Decode exception descriptions don't show  
Improve Unfound Object Documentation 
Journal entries should record last known  
Document PG states, possible causes, and  
Monitor: better handle aborted synchronizations 
read kb stats should be occasionally persisted 
OpTracker: support hierarchies of request  
OSD: replica to primary back pressure 
OSD: clone from journal for btrfs 
create and automate scenario based testing 
librados: expose snap_set_diff interfaces? 
Deep scrub CPU limit behavior 
Backport option to disable deep scrub to  
Clarity that "DISK" means "disk, partition,  
document src/objclass/objclass.h 
Some clone errors aren't repaired 
objclass: maintain global namespaces 
repair should handle snapshot/clone discrepancies 
Objecter: support multi-read-from-replica  
need to explain what does and doesn't work  
osd testing: create peering speed test 
mon: support leader election configuration 
pipeline large object recovery 
osd/client: messages should be tagged with  
crushtool's manpage is very out of date 
mon: "setting" CRUSH tunables to their current  
...
osd: localized reads (from replicas) reordered
ceph: sanitize extra args before configuring
mon: can get stuck in tight loop with old
ObjectCacher should handle namespaces
Enhance PGLS or new op to list all namespace/objects
librados: rados_monitor_log can drop messages
Show usable space via CLI/API
monitor: deal with bad crush maps more gracefully
ceph "global options" should be documented
osd: leaks on shutdown if io is in flight
crush: (optionally?) update parent weights
ceph: tell {osd,mon} more hugely slower than
ceph caps processing should pass dict of
formatter: send output to ostream
osd: snaptrimmer should throttle itself
ceph-deploy new needs to be clearer that
erasure-code: library plugin API documentation
negative num_objects_degraded in pool stats
msg: create rsockets entity_addr_t type
msg: add wrappers for remaining socket calls
msg: use either socket or rsocket calls
msg: allow binding to multiple addresses
msg: allow connect to multi-addr peer
ceph.conf: create hierarchy
journal creation on LVM fails with ceph-deploy
osd: mark_me_down sequence is racy
pg <pgid> mark_unfound_lost fails if a completely-gone
Expand upgrade tests to be able to test downgrade
Complete python binding interfaces for librados
packaging, admin_socket: create ceph group
Objecter,OSD: make it easy to determine when
make osd crush placement on startup handle
OSD crash during repair
OSD: handle ENODEV on reads
<table>
<thead>
<tr>
<th>Task</th>
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<tr>
<td>ceph-disk: zap should wipefs</td>
<td>toofull osd prevents backfilling of other</td>
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<tr>
<td>osd_scrub_load_threshold Should Take Core</td>
<td>( ...)</td>
</tr>
<tr>
<td>ceph osd tell * will break when FD limit</td>
<td>( ...)</td>
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<tr>
<td>mon: mon_status should make it clear when</td>
<td>Update CloudStack docs for 4.2</td>
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<td>Better document impact of putting journals</td>
<td>Monitor tries to bind on IPv6 address while</td>
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<td>FileStore: Op unit tests</td>
<td>erasure-code: Downgrade testing</td>
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<td>admin/build-doc should have some kind of</td>
<td>mon: PGMap::dump should use TextTable</td>
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<td>Show running ceph version in “ceph osd tree”</td>
<td>OSD: be more efficient about read/write ordering</td>
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<td>backfill_toofull =&gt; try backfilling another</td>
<td>should document magic data/journal partition</td>
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<td>FileStore: notice that the ObjectContext</td>
<td>Improved documentation of common RADOS GW</td>
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<tr>
<td>ceph-rest-api authentication</td>
<td>ceph: do not keep full pg log entries in memory</td>
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<tr>
<td>MOSDSubOp: remove unused snapc/snapcontext</td>
<td>osd: do not keep full pg log entries in memory</td>
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<tr>
<td>sockaddr_storage and uuid_t are not portable</td>
<td>osd should never block getting filestore</td>
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<td>Ability to set up/down/in/out based on CRUSH</td>
<td>Ability to move a pg to the front (or</td>
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<tr>
<td>ceph: sbindir always points to /sbin, even</td>
<td>Document the hashpspool setting and config</td>
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<tr>
<td>ceph: sbindir always points to /sbin, even</td>
<td>make install fails when --prefix specified</td>
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<td>PowerDNS backend for RGW bucket directing</td>
<td>Pool 'df' statistics go bad after changing</td>
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<tr>
<td>osd: ability to move a pg to the front (or</td>
<td>cephx authentication for mds seem to accept</td>
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<tr>
<td>Document the hashpspool setting and config</td>
<td>Allow partial dump of pg statistics</td>
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<tr>
<td>OSP 'numpg_*' performance counter inaccurate</td>
<td>( ...)</td>
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</table>
keyring leading spaces
mon should have "version" command so ceph (...)
upstart is restarting daemons which we want (...)
osd should not silently fail to start when (...)
Extensions to 'ceph osd metadata'
OSDMonitor: maintain pool->OSD and OSD->pool (...)
Add a new Info state to ceph health
Exceeding pool quota should be more graceful
objecter: ENOSPC returned by pool quota will (...)
ceph-disk should set the guid correctly when (...)
messenger: Pipe should not hold pipe lock (...)
Missing page for "OS Recommendations"
Replace Ifn_find call in omap* functions (...)
rest-api: support commands requiring 'w' (...)
build: error out on inappropriate use of (...)
Hinted recovery
avoid cli delay when one mon is down
Allow reweight of crush subtree via command (...)
Pre-populate exceptions
ceph-rest-api inconsistent routing with show_human help
ceph-rest-api: /tell/<osdid-or-pgid>/query (...)
An easier-to-process health report
qa: test encoding semantics, not just being (...)
erasure-code: update HITSET_GET to somehow (...)
replaced osd is silently prevented from joining (...)
ceph-disk-activate: custom mount options (...)
rados.py: exception catching when librados (...)
OpenStack <=> RBD docs should specify that (...)
erasure code: take advantage of locality (...)
Make units of measurement constant and definable (...)
/usr/bin/ceph: notify user when privs are (...)
EC: add mechanism for mon to detect and whitelist (...)
remove dead code from OSDMonitor::should_propose
Per CRUSH type mon_osd_down_out_interval
librados: document rados_osd_op_timeout and (...)
OSD: audit osdmap_subscribe calls to remove (...)
Illogical defaults in Python bindings: conffile=None
erasure-code: adapt scrub/repair teuthology (...)
updatedb will index /var/lib/ceph
librados: no test for c api's global ops (...)
Backport appropriate pieces of #7394, #7395
better wording when authentication fails
[docs] adding monitor section doesn’t specify (...)
Add inline attrs support to KeyValueStore
Spread out deep-scrubs to avoid I/O contention
Add an epoch argument to 'osd crush dump'
deprecate rados_pool_create
Fix ceph code to build with LLVM (clang/clang++)
Use new civetweb git repo for ceph
Create a health severity between OK and WARN
OpTracker output doesn’t include op size (...)
Per CRUSH bucket used/available space
Document the process to migrate from RBD (...)
Cancel RADOS Bench writes and still do reads
filestore xattr use omap removed
CAPS with dot (.) notation can be unquoted
os: LevelDBStore: needs to check iter->status() (...)
"ceph osd crush set" should handle ingestion (...)
examples/librados/hello_world.cc broken on (...)
PG: do not double-queue pg log entries
osd: allow writes on degraded objects
please clarify copyright and the license
erasure-code: fine grain SSE support
arch: use cpuid.h when possible
investigate having the messenger (or dispatch (...)
What's the policy on URL stability for public (...)
W: shlib-with-executable-stack
erasure-code: last stripe is not truncated
<table>
<thead>
<tr>
<th>Issue</th>
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<td>Implement posix_fadvise/POSIX_FADV_DONTNEED</td>
<td>Allow the user to query inconsistent object</td>
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<td>OSD shutdown: ./common/shared_cache.hpp</td>
<td>Hang on shutdown with valgrind on trusty</td>
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<td>OSD: check if messages are actually handled</td>
<td>Epic: Kerberos/LDAP Support</td>
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<td>OSD: must guarantee we are newer than Objecter</td>
<td>Make it easier to map crush rules to pools</td>
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<tr>
<td>Warn user when there are no OSDs in the acting</td>
<td>Quickly delete base pool and cache pool without</td>
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<tr>
<td>Make PG repair safe by requiring force flag</td>
<td>Nice if we had a state for when a pg can't</td>
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<td>mon: disseminate config options throughout</td>
<td>crypto: cryptopp has precedence over libnss</td>
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<td>ceph: display tier relationships visually</td>
<td>short a window of highest risk during recovery</td>
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<td>RFE: introduce “back in a bit” OSD state</td>
<td>Bad ceph command syntax sends to mon anyway</td>
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<tr>
<td>0.80--rc1: ‘crushtool’ crash</td>
<td>PG::repair_object() should check for and</td>
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<tr>
<td>Include “ChangeLog” and/or “NEWS” files to</td>
<td>extend rados import to support recovering</td>
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<tr>
<td>cephx: clock skew causes verify_reply decode</td>
<td>Monitor: allow specifying “begin” and “target”</td>
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<td>admin socket: commands always return 0 even</td>
<td>Weighted monitors</td>
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<td>add python 3 support for python scripts</td>
<td>add nonce/sequence number associating the</td>
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<td>Ceph installation pre-flight problem with</td>
<td>Ceph installation pre-flight problem with</td>
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<tr>
<td>init-ceph: small drives can end up with defaultweight</td>
<td>In the erasure-coded pool, primary OSD will</td>
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<td>better error reporting from ceph-disk</td>
<td>sgdisk no longer likes ‘--change-name’ when</td>
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<td>Monitor multi-thread awareness</td>
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MON crashes on new crushmap injection
Improve ceph pg repair
leveldb: initial inquiries on how we can (...
mon: test rocksdb performance
Unnecessary remapping/backfilling?
improve logging statements
OSD: preemptively clean up incoming Connections (...
OSD: make osd_backfill_full_ratio respond (...
osd: recovery op counting leak (dumpling)
erasure-code: use LRU to cache decoding matrix (...
osd: ec plugin leak
Add VERBOSE to make check invocation
PGs get stuck in “replay”, but drop it upon (...
ceph kernel module for el7
ceph pg {deep-}scrub 20.1*
asserts to log message to ceph log
Clarify potential problems from ceph-deploy (...
msgr: clean up local Session invocation functions
msgr: encode osd epoch in nonce to avoid (...
Known working kernels
Improve threading for ObjectCacher
Add support for collecting usage information (...
Uniqueness between two or more CRUSH ruleset (...
osd_pool_default_pgp_num woes
librbd: shared flag, object map
erasure-code: better LRC strategy
clients can SEGV during package upgrade
request for tools/commands to see hits/misses (...
ceph-authtool: Modifying user without --gen-key (...
ceph-authtool: Delete a user.
ceph auth get: Get multiple users
ceph CLI: Help is missing -k keyring option
Cache warmup and ejection
wrong picture on http://ceph.com/docs/master/cephfs/
Performance degradation during recovering
annotate config options
unable map stripe rbd
check consistency of rbd export and import
erasure-code: cache minimum-to-decode results
erasure-code: optimize IsReadablePredicate
EBUSY on umount of osd volume after ceph-osd
Support Signatures in Kernel Code
Add flag to ceph-deploy to start services
generalize the scrub workflow
valgrind requires LIBOSD
Different implementation for PGTransaction::get_bytes_written
ceph should fail when an argument is of the
admin socket: allow multiple pending requests
RBD: Provide a way to know how much space
Crush optimization for unbalanced data/pg
dev documentation about incompat features
mon: audit read-only commands on a lower
Unable to delete crush rule with blank space
OSD: add a get_newest_map command to the
OSD: block until we have the same map as
Radosgw docs incorrectly state to disable
Both op threads and dispatcher threads could
Both op threads and dispatcher threads get
osd: prioritize recovery of OSDs with most
OpTracker segfault on shutdown (firefly)
stop backfill when osd becomes too full
rework bufferlist::"aligned" functions
erasure-code: ErasureCode::encode overhead
mon: ambiguous error_status returned to user
testing: test CrushWrapper::get_full_location_ordered()
Document ceph df numbers
ceph df reports % of global size used instead
Support metering info
ReplicatedPG::hit_set_trim osd/ReplicatedPG.cc: (...) rados cli doesn’t print specific usage errors rados cli: objects not present in a snapshot (...) teuthology-suite: allow scheduling sub-suites Issues found by Clang do not leak ceph-disk activate lock to the (...) try to make address sanitizer work forbid erasure code profile modifications (...) All tools should be named consistently and (...) make it harder to remove cluster data pools ceph tell {daemon},{id} config set etc.
When replaced a disk, the CRUSH weight of (...) kvm and qemu do not document ceph/rbd support PGs per OSD documentation needs clarification erasure-code: document the LRC per layer (...) failed pull needs to allow mark_unfound_lost (...) mon: leveldb weirdness
   mon: VIRT usage 2.4G larger than tcmalloc’s (...) libgoogle-perftools4: tcmalloc performance (...) admin socket check hang, osd appears fine RHEL: selinux-policy-targeted rpm update (...) gtest: update, move to submodule create selinux policies for ceph-mon, ceph-osd, (...) osd: mark pg and use replica on EIO from (...) ltng_probe_unregister hangs on shutdown option to disable erasure code plugin version (...) Configuration parameters not picked up outside (...) rbd bloom filter unit tests fail (power8) Cluster unreachable after restart osd tree to show primary-affinity value Optimise RBD image removal ECUtil::HashInfoRef should have a NONE value OSD level metadata mismatch handling
| PG metadata corruption detection and handling |  |
| Object metadata mismatch detection and handling |  |
| Create new git repo for json_spirit |  |
| librados: mark old objects_begin interface (...) |  |
| OSD crashes if xattr "_" is absent for the (...) |  |
| rados bench parameter -b producing wrong (...) |  |
| OSD dispatcher thread hangs several seconds (...) |  |
| documentation: auth service required needs (...) |  |
| double resource for setting up ceph-deploy |  |
| RPM quick start for RHEL should explain where (...) |  |
| mon,osd: long-term non-clean PGs prevent (...) |  |
| Change "ceph-deploy mon create (ceph-node)" (...) |  |
| Per-pool PG recovery prioritisation |  |
| local deep scrub messsages |  |
| Free space over-reported when OSDs have weight (...) |  |
| crushtool --show-choose-tries overflows |  |
| add ceph-report-parsing |  |
| osd: an all/mostly delete pg log stalls during (...) |  |
| osd crashes on osd/ReplicatedPG.cc: 9025: (...) |  |
| duplicated PGLog transaction inserted |  |
| ceph-rest-api support for rbd snap rollback |  |
| Permanently mark daemons and clusters which (...) |  |
| osd: allow startup option to skip processing (...) |  |
| osd crashed at OpRequest::_dump_op_descriptor_unlocked |  |

OSD Keeps Going Down

Ceph - v0.60

| Document old design | v0.60 97% |
| Document new design | In Progress 90% |
| implement new design | New 90% |
| implement upgrade from old design to (...) | In Progress 90% |