



Where are we going ...

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for the EOS team



EOS Open Storage

CERN storage technology
used at the Large Hadron Collider (LHC)

EOS Architectural Roadmap for 2018

PROPOSAL

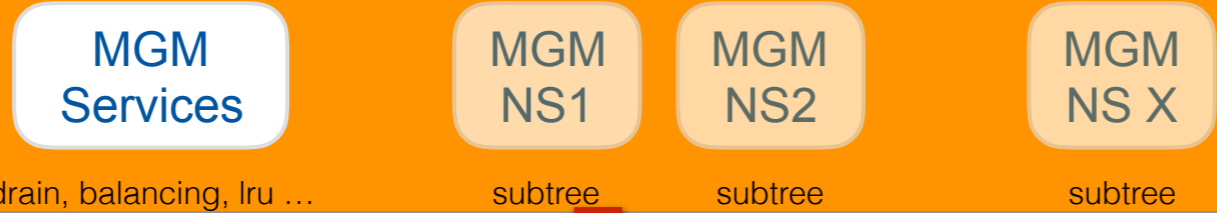


scalable auth fron-end



[http/gRPC/XRootD](http://gRPC/XRootD) protocol

scalable namespace service



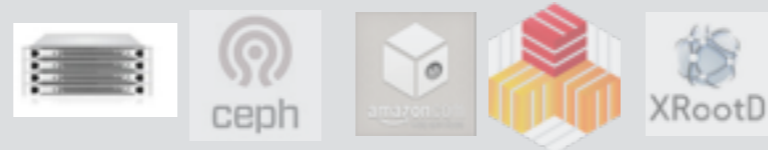
HA persistent MD storage && reliable messaging



stateless scalable storage services



persistent DATA storage



EOS Version 5

Key issues for 2018

- stability & availability at scale
- drop legacy [aquamarine]
- establish stable release declaration & publication process



Feature roadmap for 2018

- FUSE optimisations
- share ACLs for sync & share
- multi-site data handling policies
- tiered storage handling policies
- physical & logical LRU based data conversion or eviction (atime tracking)
- external storage/filesystem connector
 - notify interface
 - filesystem & object storage mount
- xrootd-cache & xrootd-ec integration
- streamlined REST API / gRPC
- HTTP(S) consolidation
- Master/Slave setups with QuarkDB backend
- ...