



Ceph Supporting Genetic Research at The Wellcome Sanger Institute

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Wellcome Sanger Institute

Ceph Day for Research and
Non-profits 2019



The Wellcome Sanger Institute



Ceph Hardware



Ceph@Sanger Timeline

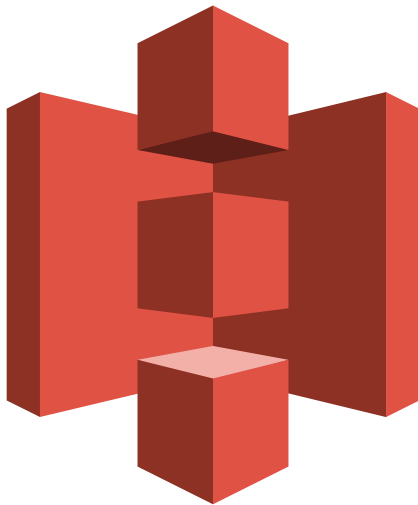


Date	Raw capacity (PB)	Rack & Host Numbers
2016-11	3.2	3×3
2017-07	9.7	3×9
2017-08	15.1	3×14
2017-11	18.3	3×14; 1×9

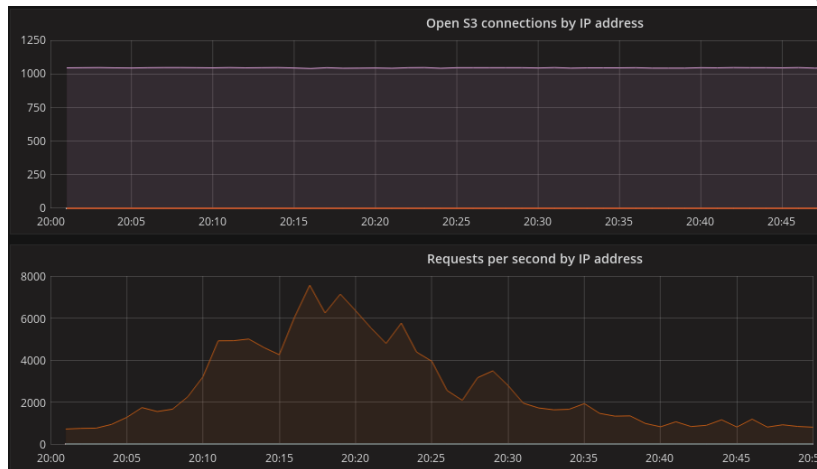
Deployment



RGW / S3



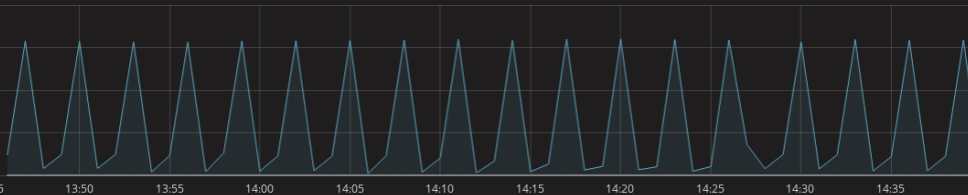
S3 connection exhaustion



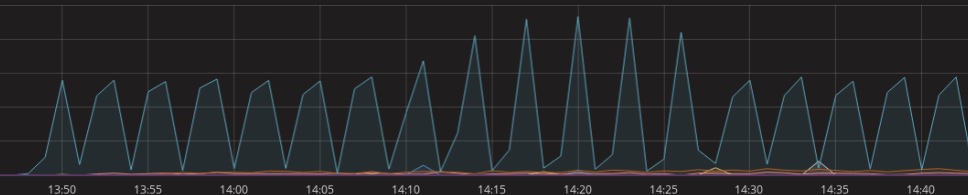
S3 with HAProxy



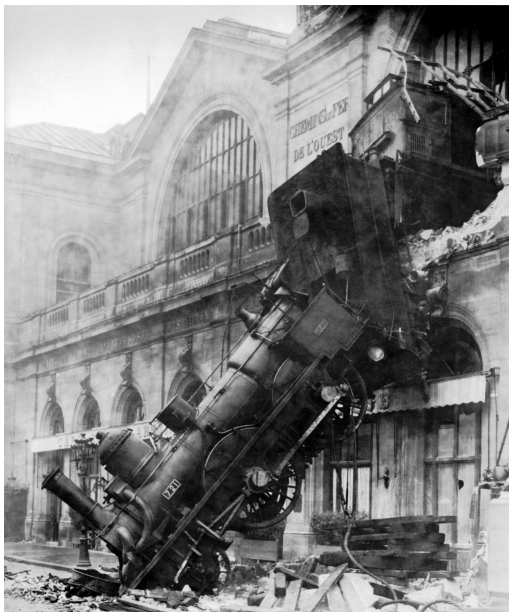
Open S3 connections by IP address



Requests per second by IP address



Pain points



Questions?



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<https://github.com/wtsi-ssg/letsencrypt-rgw>

<https://github.com/wtsi-ssg/ceph-disk-utils>

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