

The Adventures of AARNet Across the EOS Dimension

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AARNet's use of EOS for both our production CDN and our CloudStor platform over the last two years has been an adventure in collaboration, experiencing bugs, and extracting esoteric knowledge from both people and the code base.

EOS exists in a space that isn't met by any existing open source scale out storage solutions. Neither Ceph, or any of the less common scale out systems provide the capabilities that EOS can deliver at tens of petabytes per cluster. That is even assuming they can scale to such a size.

AARNet is investigating how to scale up to the tens of petabytes on their continent spanning EOS storage environment, while maintaining high availability of data. The major concern is not the technical development of EOS, but rather the surrounding issues of governance, technical debt, maintenance and documentation.

This presentation discusses in brief some of the issues that have been experienced, how they were resolved (or not), and proposes some possible solutions to taking EOS from the targeted in-house open source project by CERN, to a possible contender in the increasingly common massive storage scale clusters.

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