Contribution ID: **27**   Type: **not specified**

2 Fast, 2 Curious: Accelerating CloudStor Storage Performance

Monday, 3 February 2020 16:00 (20 minutes)

At AARNet the Cloud Services team have invested a lot of research and development effort in the last year to lift CloudStor performance to meet the demands of research data generators and those who need to access, move, share and consume high volume research data. Much of our storage infrastructure had previously operated at modest speeds, often below 1Gbps for users accessing CloudStor services across 10Gb AARNet links. As universities start to adopt AARNet's 100Gbps service the disparity between what our network can deliver and what our storage can achieve started to grow. There are many reasons for this disparity, including organic growth of the service, new service expectations and the evolution of the applications that CloudStor is built upon. But a confluence of advancements in the applications and operational software, combined with improved hardware, and plain old hard work, has given us the opportunity to deliver a service that pushes the boundaries of speed. This talk will highlight the steps we have taken over the past year to improve the performance of the CloudStor platform and how we are preparing for the high performance infrastructure required to meet the challenge of low-latency international data sharing.

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Session Classification: Associated Cloud/Storage Projects