

# **On-Premise or Commercial Clouds**

While the field of genome analysis is rapidly evolving, a number of tools have matured to become the de factostandard. The Garvan Institute has rapidly grown to become Australia's leading genome-powered medical research institute, and this has meant that we have moved production genome analysis workflows out of the hands of individual researchers. Instead, these workflows are built by engineers to be run at scale on-premise, on commercial clouds (Amazon Web Services and Microsoft Azure) and at the National Computational Infrastructure (NCI).

#### This project investigated the following questions:

 Since Garvan built their 5000 core on-premise computational infrastructure using grants – what does it cost to run these workflows at Garvan, and how do these costs compare when running the identical workflows on AWS, Azure and the NCI.

2. Poster

Showcasing the project work and outcomes.

2. What are the underlying costs of running these analyses that include, power, maintenance, staffing etc?

#### Start date 23 July 2019

Expected completion date

21 October 2019

Investment by ARDC \$36,000

**Co-investment partners** 

Garvan Institute

<u>NCI</u>



### 1. Report

Investigation into the total cost of delivering a range of example workflows on local, shared, national, international and commercial platforms; an apples and apples comparison.

## 3. Presentation

Ignite style talk at the Storage and Infrastructure Summit drawing together lessons learned from the project.

### **Core features**



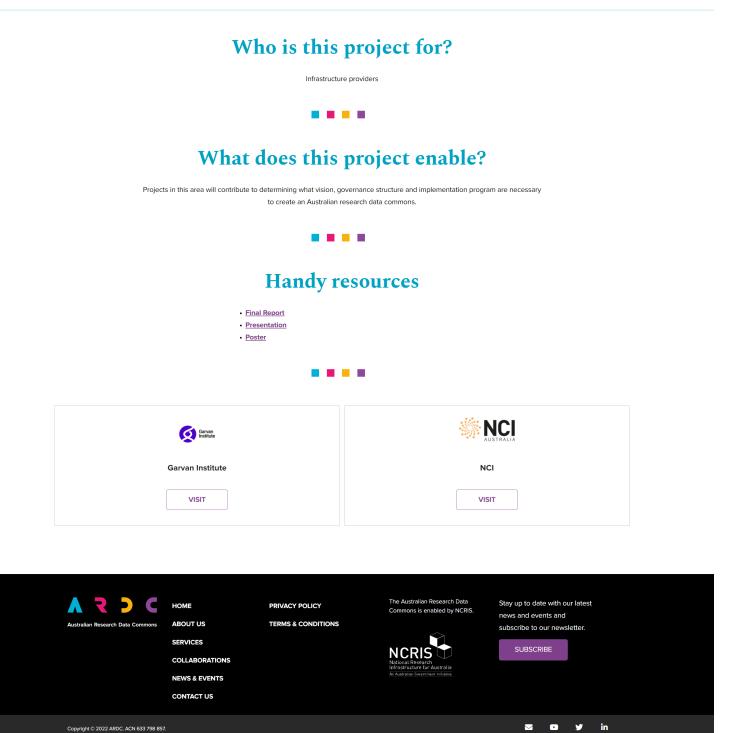
#### **Community support and involvement**

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### Ignite ideas and discussions

A strong sense of community support and involvement in developing answers to some of the more difficult questions our sector faces.

Enabling diverse stakeholders to engage in discussions and sharing of ideas to shape a research data commons for our nation.



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