

# Costs of Running Production Genomics Workflows

## 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:

1. 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. 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](#)

[NCI](#)

## 2. Poster

Showcasing the project work and outcomes.

## 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

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



### Ignite ideas and discussions

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

# Who is this project for?

Infrastructure providers




# What does this project enable?

Projects in this area will contribute to determining what vision, governance structure and implementation program are necessary to create an Australian research data commons.



# Handy resources

- [Final Report](#)
- [Presentation](#)
- [Poster](#)



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