Research Data Security
Data Safe Havens
My Research Background
The Challenge

In early 2013, it was realised that a **Data Safe Haven** was required by many of our Researchers and Academics. This was driven by the needs and expectations of **Data Owners** and how they expected their data to be controlled against **data breaches** occurring.
The Expectation

- Receive
- Store
- Access
- Analyse

Yet, above all, the balance between *convenience* and *security* needed to be “just right”.
Service Definition

A *Data Safe Haven* is an environment with a strict and controlled *Information Security Management System*.

It is characterised by, but not limited to, the following:
Service Definition

1. Uses *two factor authentication*; something *you have* (security token) and something *you know* (password).
Service Definition

2. Operates within its own *private data network*; with all data connections being *encrypted*; and each project being segmented from other projects, to *prevent cross-leak of data*.
Service Definition

3. Uses a **Virtual Desktop Infrastructure** to deploy and provide an environment which can accept remote connections from approved devices directly attached to the University of Edinburgh Data Network (EdLAN).
Service Definition

4. Utilises GateKeeper roles (trained individuals) to vet and approve all ingress and egress of data.
Service Definition

5. Provides a **secure data storage** platform.
Service Definition

6. Provides a *dynamic data analytics* platform.
The Experience
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**Microsoft.XML-Notepad_2.7.1.15_1C**
XML Notepad 2007 provides a simple intuitive user interface for browsing and editing XML files.
Floating - Auto Run

**Oracle.My-SQL-Workbench_6.3_1C**
MySQL Workbench is a visual database design tool that integrates SQL and provides an integrated development environment for the MySQL database system.
Floating - Auto Run

**R-Stats_3.5.1_1C**
Floating - Auto Run

**R-Studio_1.1.419_1C**
RStudio is a free and open-source integrated development environment for R.
Floating - Auto Run
The Experience
Research Data Management

- **RDM Website**
  [http://www.ed.ac.uk/information-services/research-support/research-data-service](http://www.ed.ac.uk/information-services/research-support/research-data-service)

- **Data Management Plans (DMP)**
  [https://dmponline.dcc.ac.uk/](https://dmponline.dcc.ac.uk/)

- **MANTRA Training**
  [http://mantra.edina.ac.uk/](http://mantra.edina.ac.uk/)

- **Information Security Essentials in ‘LEARN’**
  [https://www.learn.ed.ac.uk](https://www.learn.ed.ac.uk)
  Login to LEARN and search for the above phrase to self-enrole.

- **GDPR Training in ‘LEARN’**
  [https://www.learn.ed.ac.uk](https://www.learn.ed.ac.uk)
  Login to LEARN and search for the above phrase to self-enrole.