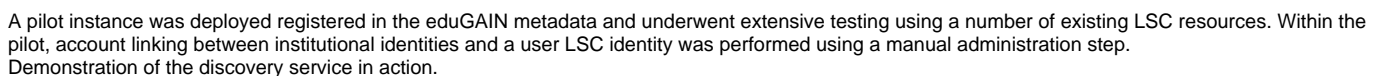



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The LIGO Scientific Collaboration (LSC) is a group of scientists focused on the direct detection of gravitational waves, using them to explore the fundamental physics of gravity, and developing the emerging field of gravitational wave science as a tool of astronomical discovery. The LSC works toward this goal through research on, and development of techniques for, gravitational wave detection; and the development, commissioning and exploitation of gravitational wave detectors. The LSC carries out the science of the LIGO Observatories, located in Hanford, Washington and Livingston, Louisiana as well as that of the GEO600 detector in Hannover, Germany. Our collaboration is organised around three general areas of research: analysis of LIGO and GEO data searching for gravitational waves from astrophysical sources, detector operations and characterisation, and development of future large scale gravitational wave detectors. Founded in 1997, the LSC is currently made up of more than 1200 scientists from over 108 institutions and 18 countries worldwide.

SAML proxies are increasingly being used to easily connect all of a collaboration's resources into the eduGAIN network and this would demonstrate it's success for a large, established collaboration. The AARC Blueprint Architecture is important in shaping the design and features of this pilot.



Following discussions within the LSC Identity and Access Management group it was decided that the pilot will deploy [SATOSA](#) and [pyFF](#) to create a SAML proxy between the eduGAIN institutional identity providers and the LSC's service providers. SATOSA will act as the central SAML Proxy of the project, while pyFF will be used to aggregate SAML metadata from Edugain and the LSC, and also provide the discovery service interface. This would allow LSC and Virgo members to use their institutional credentials to access LSC resources directly. Institutional identities would be mapped to a user's *albert.einstein* identity via an account linking step, so that LIGO specific information; in particular group and identity information would be connected to the user identity.




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Sustainability

Going forward an instance of CManage will be deployed to handle the account linking workflow, as well as more aspects of user management currently handled by a number of custom applications. To move the pilot into production the SATOSA and PyFF services must be deployed in a fault tolerant manner. The LSC has recently deployed a cloud based instance of the main Identity Provider, and we will be take a similar approach to deploy this suite of components.