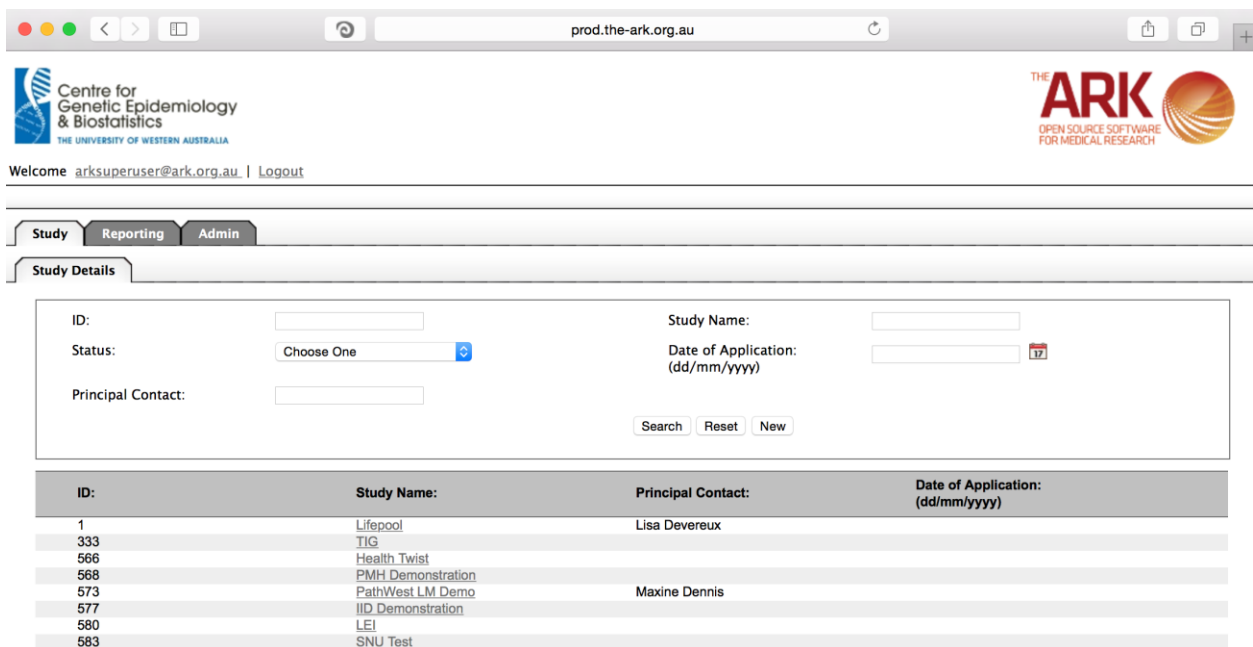


The Ark Documentation.

Micro Service

Log in and select your study by clicking the hyperlink corresponding to the name of your study.

Once you have chosen your study we will be able to adjust study details or select modules and functions available in that study (for which you have privileges).



The screenshot shows a web browser window with the URL `prod.the-ark.org.au`. The page header includes the logo for the Centre for Genetic Epidemiology & Biostatistics at The University of Western Australia, and the logo for THE ARK OPEN SOURCE SOFTWARE FOR MEDICAL RESEARCH. A welcome message reads "Welcome arksuperuser@ark.org.au | Logout". Below the header are navigation tabs for "Study", "Reporting", and "Admin". The "Study" tab is active, showing a "Study Details" section with a search form. The search form contains fields for "ID:", "Status:" (with a dropdown menu set to "Choose One"), "Principal Contact:", "Study Name:", and "Date of Application:" (with a calendar icon). Below the search form are "Search", "Reset", and "New" buttons. Below the search form is a table of studies with the following data:

ID:	Study Name:	Principal Contact:	Date of Application: (dd/mm/yyyy)
1	Lifepool	Lisa Devereux	
333	TIG		
566	Health Twist		
568	PMH Demonstration		
573	PathWest LM Demo	Maxine Dennis	
577	IID Demonstration		
580	LEI		
583	SNU Test		

Alternatively if you have a very long list of studies under your management you may use the search palette/panel at the top of the page. You can search/filter by id, name, principal contact, status of the study or date of application. Once you have added your filtering criteria, click the search button;

prod.the-ark.org.au

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Study Reporting Admin

Study Details

ID: Study Name: pedigree

Status: Choose One Date of Application: (dd/mm/yyyy) 17

Principal Contact:

Search Reset New

ID:	Study Name:	Principal Contact:	Date of Application: (dd/mm/yyyy)
1	Lifepool	Lisa Devereux	
333	TIG		
566	Health Twist		
568	PMH Demonstration		
573	PathWest LM Demo	Maxine Dennis	
577	IID Demonstration		
580	LEI		
583	SNU Test		
584	random_new		
585	IMRC_Test		

As you can see the filter has helped us find our chosen study and we can click the hyperlinked study name as discussed before;

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Study Reporting Admin

Study Details

ID: Study Name: pedigree

Status: Choose One Date of Application: (dd/mm/yyyy) 17

Principal Contact:

Search Reset New

ID:	Study Name:	Principal Contact:	Date of Application: (dd/mm/yyyy)
579	Pedigree WIP	Dr Adrian Bickerstaffe	07/02/2014

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* indicates a child study

Once you have chosen your study we will be able to adjust study details or select modules and functions available in that study (for which you have privileges). The module we wish to select is Genomics – Micro Service.

Genomics module is created with the intention of allowing collaborating researchers to administer the existing GWAS datasets and execute GWAS analysis inside High-performance computing sources via a single web user interface.

This simple page is for controlling the list of available micro services (These micro service entries declare the available high-performance computing resource as a service and given opportunity to researchers to select specific services to start an analysis). As you can see the same standard lay out of a list and filterable fields starts us off.

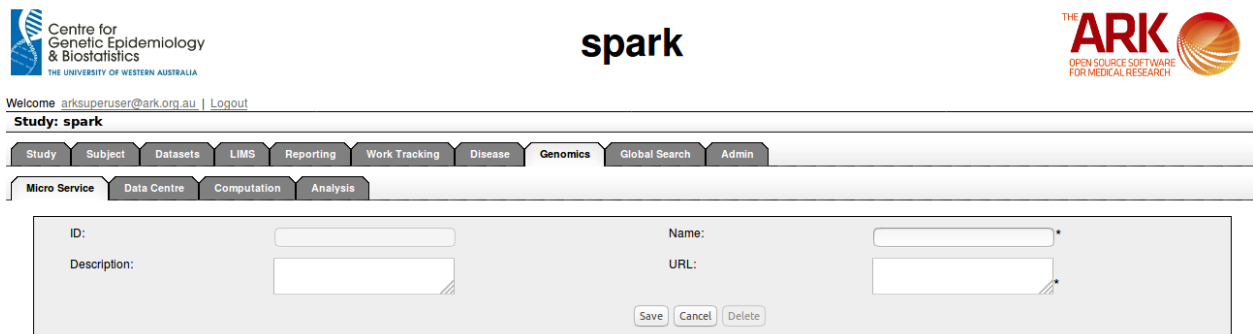
The screenshot shows the 'spark' web interface. At the top left is the logo for the Centre for Genetic Epidemiology & Biostatistics, The University of Western Australia. At the top right is the logo for THE ARK, OPEN SOURCE SOFTWARE FOR MEDICAL RESEARCH. Below the logos is a navigation bar with tabs for Study, Subject, Datasets, LIMS, Reporting, Work Tracking, Disease, Genomics, Global Search, and Admin. The 'Genomics' tab is selected. Below the navigation bar is a sub-navigation bar with tabs for Micro Service, Data Centre, Computation, and Analysis. The 'Micro Service' tab is selected. The main content area contains a form for adding a new micro service with fields for ID, Name, URL, and Status, and buttons for Search, Reset, and New. Below the form is a table of existing micro services.

ID:	Name:	Description:	URL:	Status:
1	spark-local	spark local instance	http://localhost:8080/spark-local	Online <input type="button" value="Check status"/>
2	spark-demo		http://115.146.84.128:8080/spark-demo	Offline (404) <input type="button" value="Check status"/>

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Create new Micro Service

Start by clicking the new button. The following will appear; The fields are all self-explanatory. The only note is that any field with a "*" is required/compulsory.



The screenshot displays the 'spark' web interface. At the top left is the logo for the Centre for Genetic Epidemiology & Biostatistics, The University of Western Australia. At the top center is the 'spark' logo. At the top right is the logo for THE ARK, OPEN SOURCE SOFTWARE FOR MEDICAL RESEARCH. Below the logos is a navigation bar with tabs for Study, Subject, Datasets, LIMS, Reporting, Work Tracking, Disease, Genomics, Global Search, and Admin. The 'Genomics' tab is selected. Below the navigation bar is a sub-navigation bar with tabs for Micro Service, Data Centre, Computation, and Analysis. The 'Micro Service' tab is selected. The main content area shows a form with the following fields: ID: (text input), Name: (text input with an asterisk), Description: (text area), and URL: (text input with an asterisk). Below the form are three buttons: Save, Cancel, and Delete.

Then click save;

If you have no issues and it has correctly saved, then you will have the green message at the top of the page telling you so. If there were any issues (rare on this page), a message will show up in red describing what you have done wrong.

Once creating a micro service its URL is disabled to protect the data integrity

Study	Subject	Datasets	LIMS	Reporting	Work Tracking	Disease	Genomics	Global Search	Admin
Micro Service	Data Centre	Computation	Analysis						

ID:	<input type="text" value="2"/>	Name:	<input type="text" value="spark-demo"/>
Description:	<input type="text"/>	URL:	<input type="text" value="http://115.146.84.128:8080/spark-demo"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Delete"/>			

Click on Cancel button will return to the micro service search list screen.

Micro Services tab search lists the pre-configured SPARK services with the Id, Name, Description, URL, and Status fields and Test button in the right corner.

There, click on the Test button will update the current status of the service.
(Online/Offline)

Click on the Name of an individual service reside in the list will navigate to its details.

Micro Service deletion is omitted in the detail panel, and users can update the description of a service according to their permission level after clicking the Save button.