



ACTIVE RESEARCH DATA MANAGEMENT TOOL

USER MANUAL

March 2020

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1.0 RADIAM

Radiam is a centralized searchable metadata index for the distributed data of a research project during active data collection and processing. It enables researchers to make better use of Canadian digital infrastructure by helping them manage, organize, and discover their research group's data during the active research phase, while data is still being collected and analyzed. It will provide a project-level metadata index of research data, regardless of where it is stored. Indexing functionality of this tool will store not only the location of the data, but also custom metadata records associated with that data.

2.0 SYSTEM REQUIREMENTS

2.1 Operating System requirements

Windows

- Windows 7 and later are supported, older operating systems are not supported (and do not work).

Mac

- Only 64 bit binaries are provided for macOS, and the minimum version supported is macOS 10.10 (Yosemite).

Linux

- Ubuntu 12.04 and later
- Fedora 21
- Debian 8

2.2 Hardware

Windows

- An Intel Pentium 4 processor or later that's SSE2 capable
- 512 MB of RAM

Mac

- An Intel processor that's 64-bit
- 512 MB of RAM

Linux

- An Intel Pentium 4 processor or later that's SSE2 capable

2.3 Documentation

Radiam documentation files can be found at the below link;
<https://radiam.readthedocs.io/en/latest/>

3.0 USER CREATION AND LOGIN

3.1 Radiam User Roles

Role Type	Description
System Admin	A system admin is a super user having all the administrative access and manages all the groups in Radiam GUI system wide
Group Admin	Group Administrators can Create Users, Groups, Locations, Projects, Datasets, View Grants and Agents, and add users to a Group they are a Group Admin of. They have full CRUD ability on any Project or Dataset that resides in a Group they administrate and may create Group Grants and User Agents.
Data Manager	Data Managers can view projects in all groups
Member	Regular users can create and view file level metadata in their own groups

3.2 User

- A user is who has permission to log in to the Dashboard system or crawl files to a project.
- A User's access level is determined by their Association with THE Research Groups
- System Admin can create Group Admin to give access permission to Radiam web interface
- Group Admin has access can create users with the roles Group admin, Data Manager and Member

-
- Newly created users will receive a welcome email addressed with your user name

Hello Test,

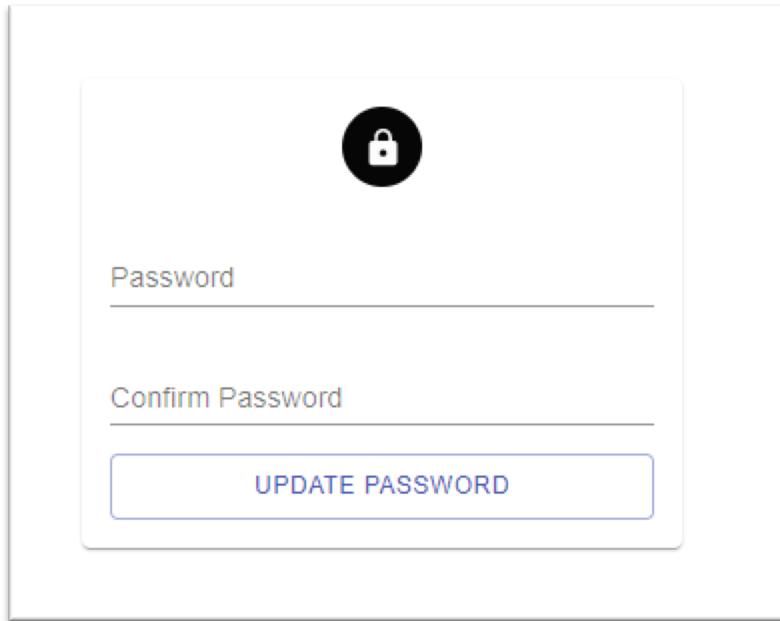
Welcome to Radium. Your username is **testuser**.

To activate your account, you'll need to set a password.

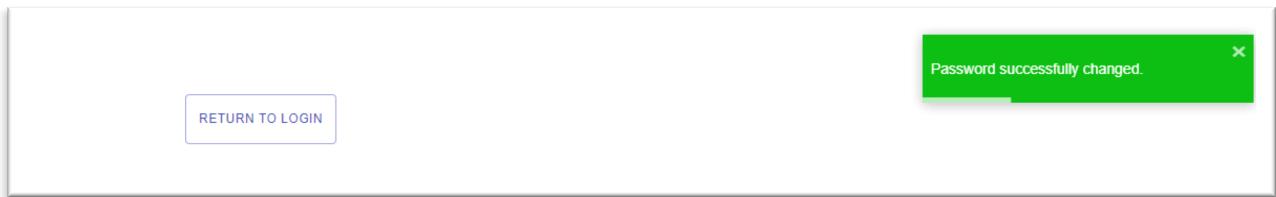
Please visit the [Radium password reset page](#) to complete this process

Thanks, Radium Admin

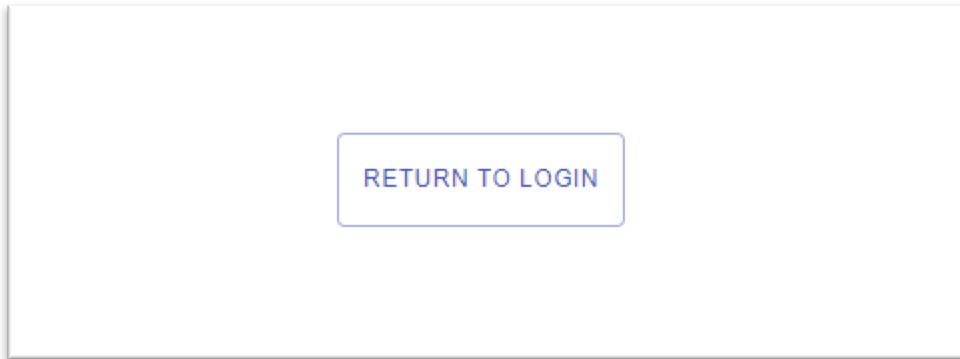
- Click “Radium password reset page” to set your password on the password set up page



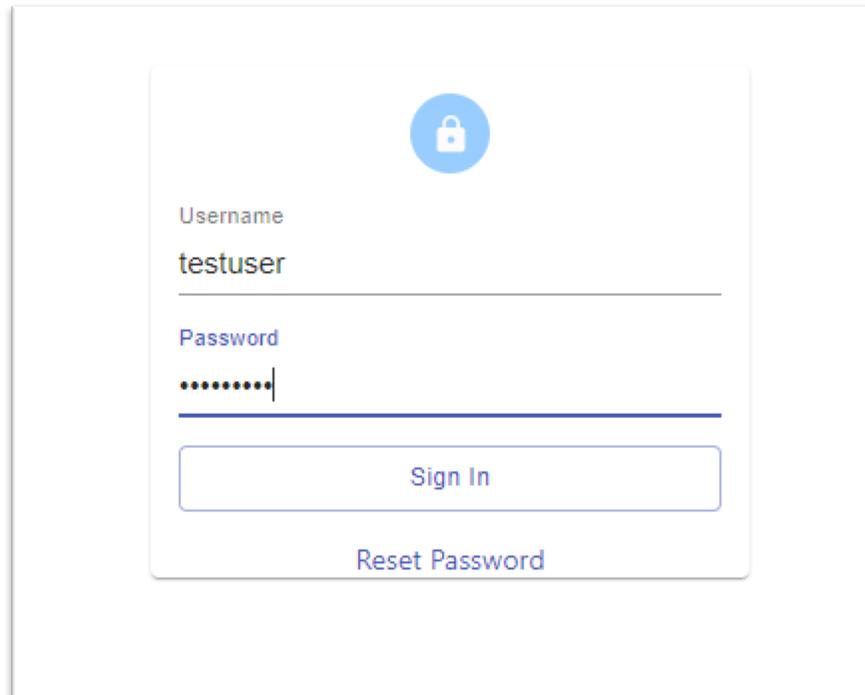
- Green confirmation message will popup upon successful password set.



- Click “return to login” link to login to the Radima web interface



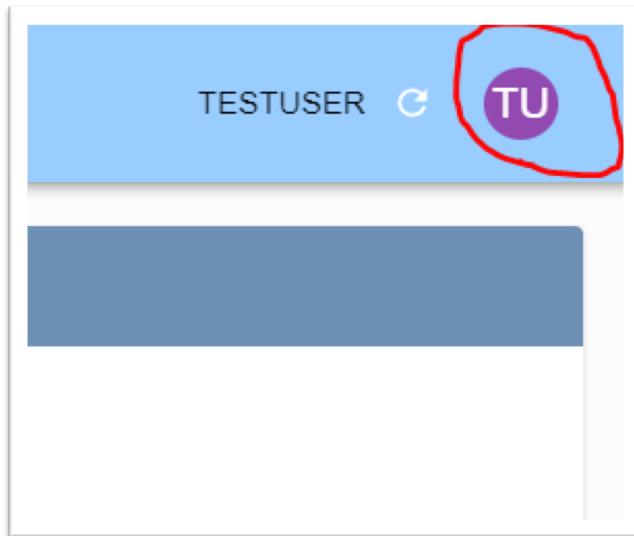
- Login with your username and password on the login page



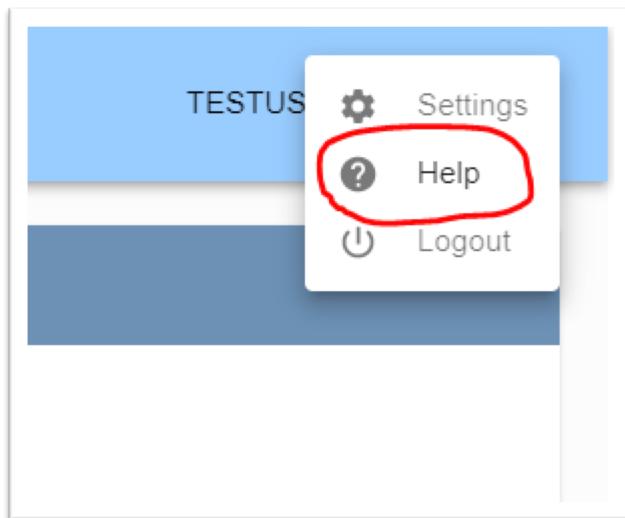
4.0 AGENT INSTALLATION AND CONFIGURATION

4.1 Downloading Agent

- Go to <https://github.com/usask-rc/radiam-agent-releases> GitHub site directly to download Radium agent
- The link can also be found at your Radium web interface instance
 - Click on the user avatar on the top right corner



- Click on the “help” menu



- Click on <https://github.com/usask-rc/radiam-agent-releases> link to download the agent

Radiam Help

Agent Installation

The downloads for the Radiam agent are here: <https://github.com/usask-rc/radiam-agent-releases>

Email Support

For assistance using this specific installation of Radiam, please email: developers@frdr.ca

User Manual: [Radiam_user_manual.pdf](#)

Developer Resources

Developers can consult the Readme file located in the source repository: <https://github.com/usask-rc/radiam>

- To install the agent, click your desired operating system on the “Install agent” window

Radiam Agent Releases

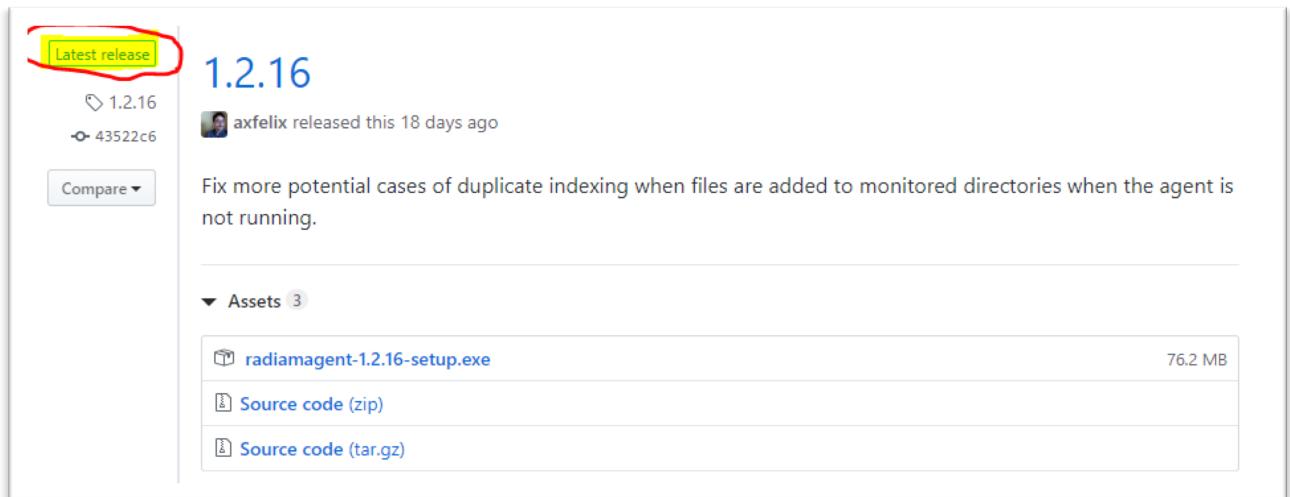
This repository contains binary releases of the Radiam agent.

Download them from [the releases tab](#).

Learn more about Radiam here: <https://www.radiam.ca>

All source code and compiled releases are published under the MIT License. Please see the LICENSE file in this repository.

- To download the latest agent version, click on the [release](#) tab
- Look for the “Latest release” tab on the left, then chose the file to match your system’s operating system to download
 - For Windows file: radiamagent-1.2.16-setup.exe
 - For Mac file: radiamagent-0.0.2.dmg
 - For Linux file: radiam-cli-linux



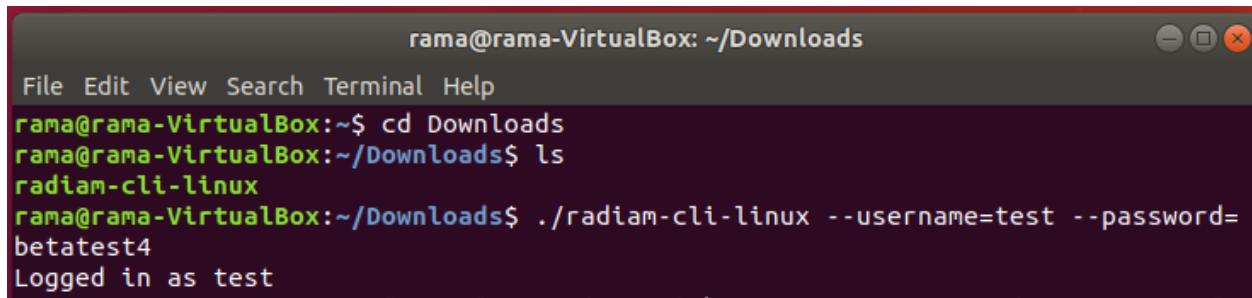
4.2 Installing Agent on Linux

- To run the Radium agent command line interface, mark it as executable with the following command

```
chmod +x radiam-cli-linux
```

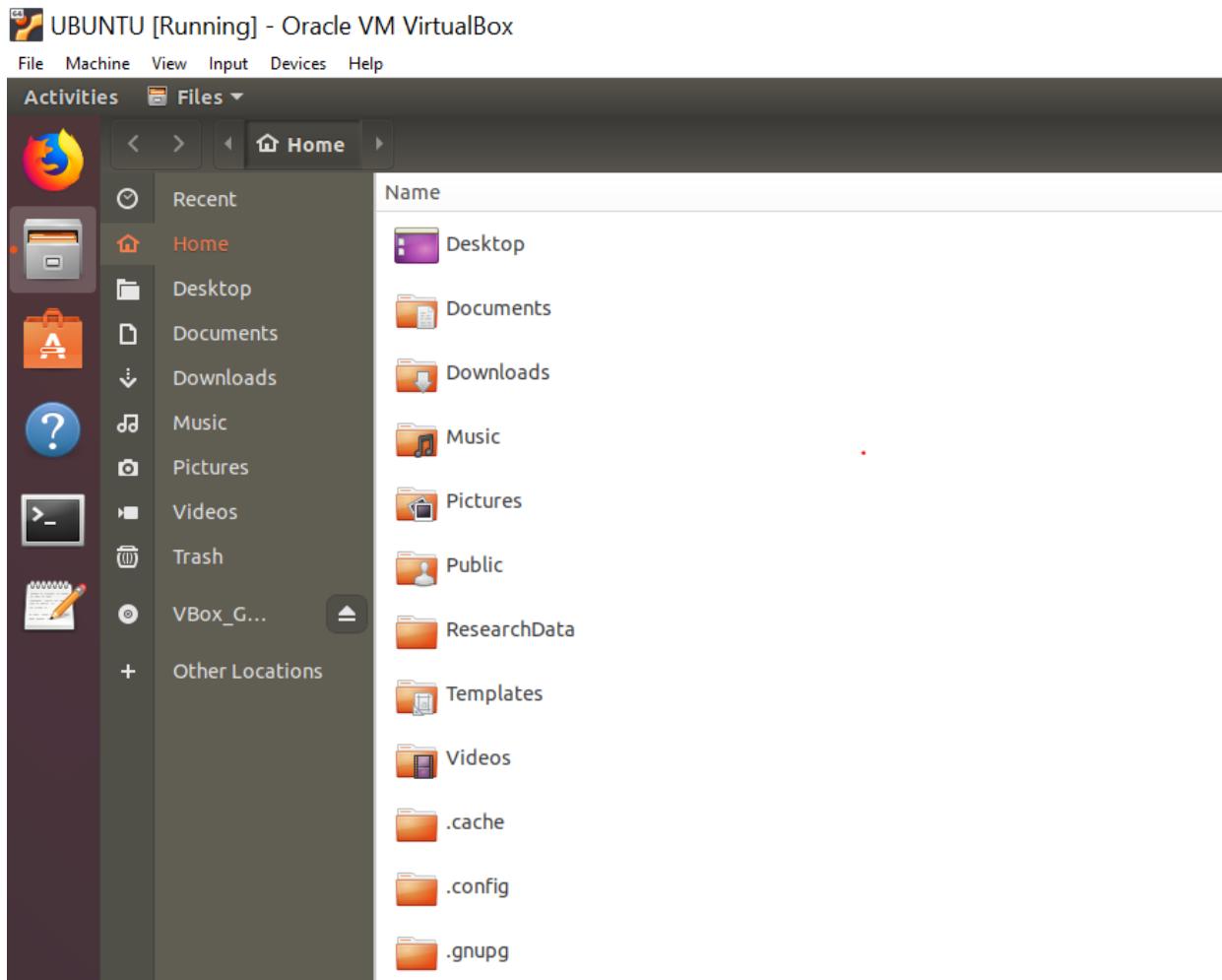
```
rama@rama-VirtualBox: ~/Downloads
File Edit View Search Terminal Help
rama@rama-VirtualBox:~/Downloads$ cd Downloads
rama@rama-VirtualBox:~/Downloads$ ls
radiancli-linux
rama@rama-VirtualBox:~/Downloads$ chmod +x radiamcli-linux
rama@rama-VirtualBox:~/Downloads$
```

-
- You need to obtain a login token with your username and password when you use the app for the first time, by supplying the --username and --password command line arguments:



```
rama@rama-VirtualBox: ~/Downloads
File Edit View Search Terminal Help
rama@rama-VirtualBox:~$ cd Downloads
rama@rama-VirtualBox:~/Downloads$ ls
radiam-cli-linux
rama@rama-VirtualBox:~/Downloads$ ./radianm-cli-linux --username=test --password=
betatest4
Logged in as test
```

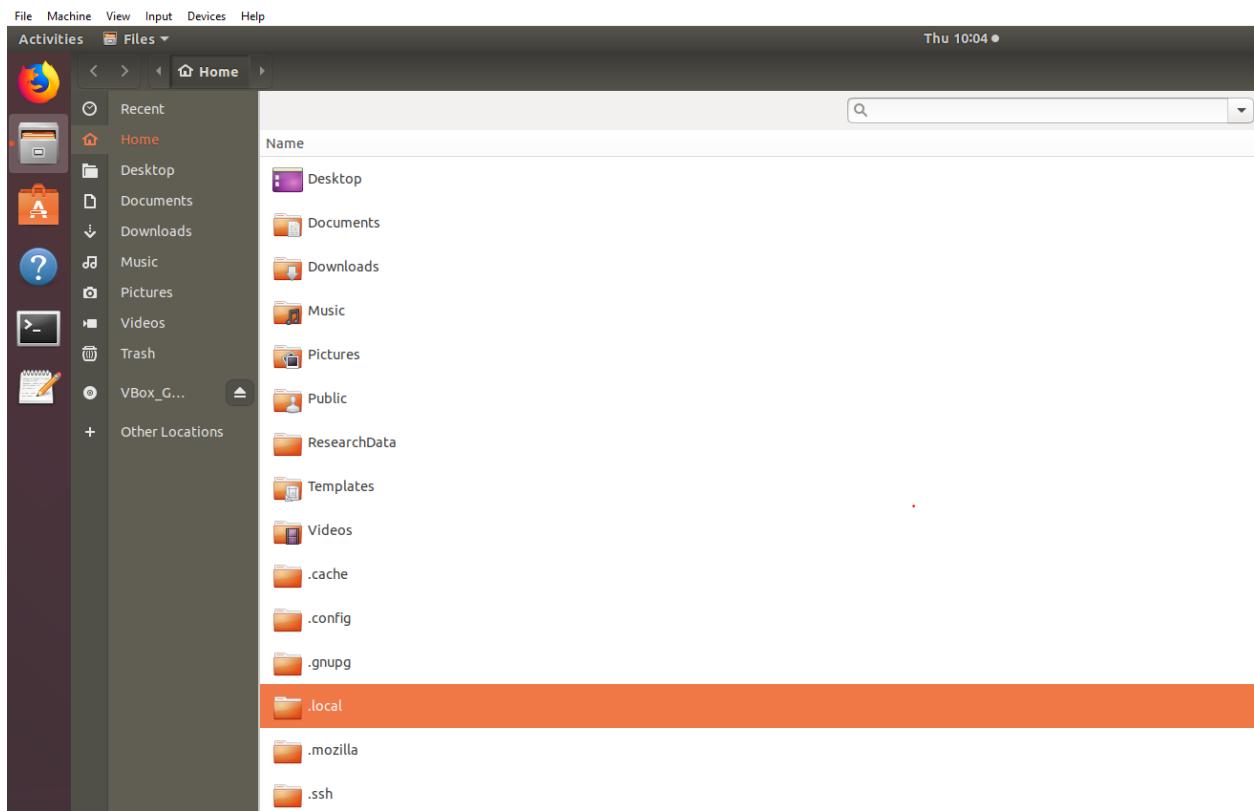
- To configure the agent: Open “Files” from the dashboard menu



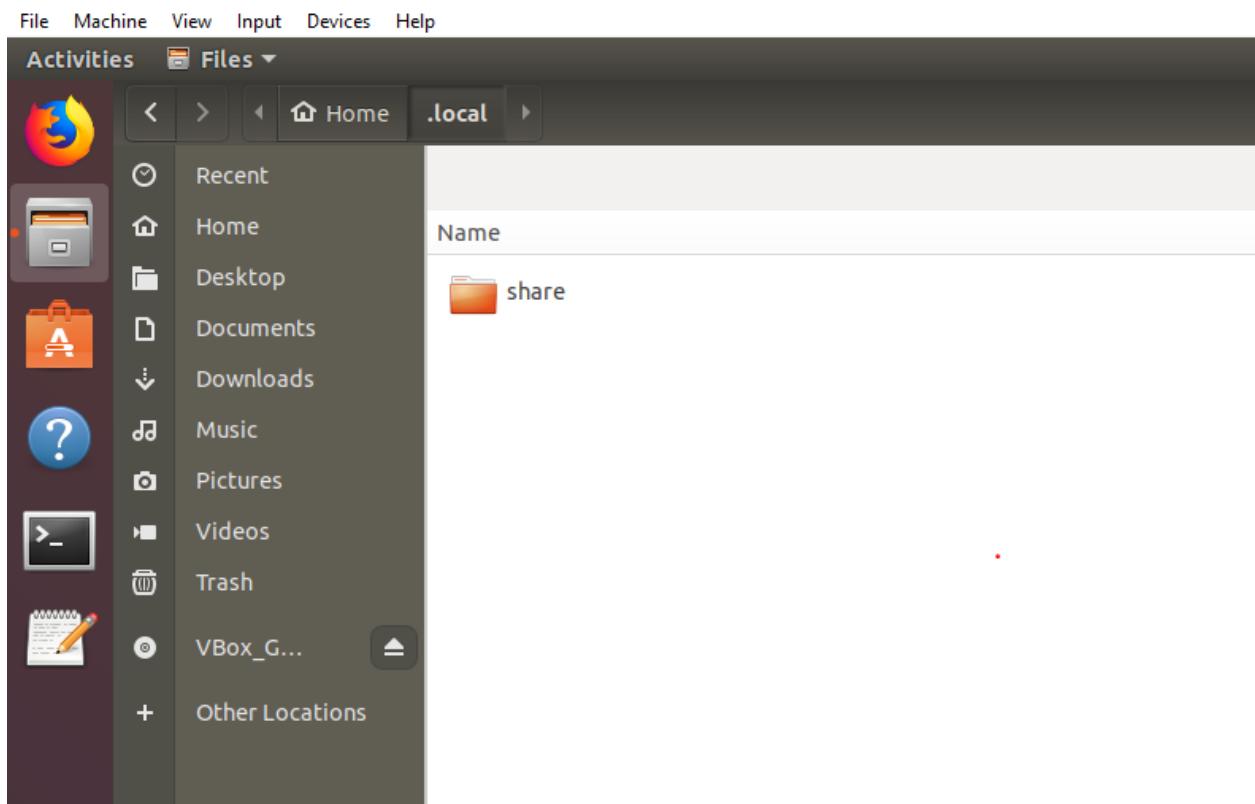
- On the top right corner, click the drop down menu and click “Show Hidden Files”



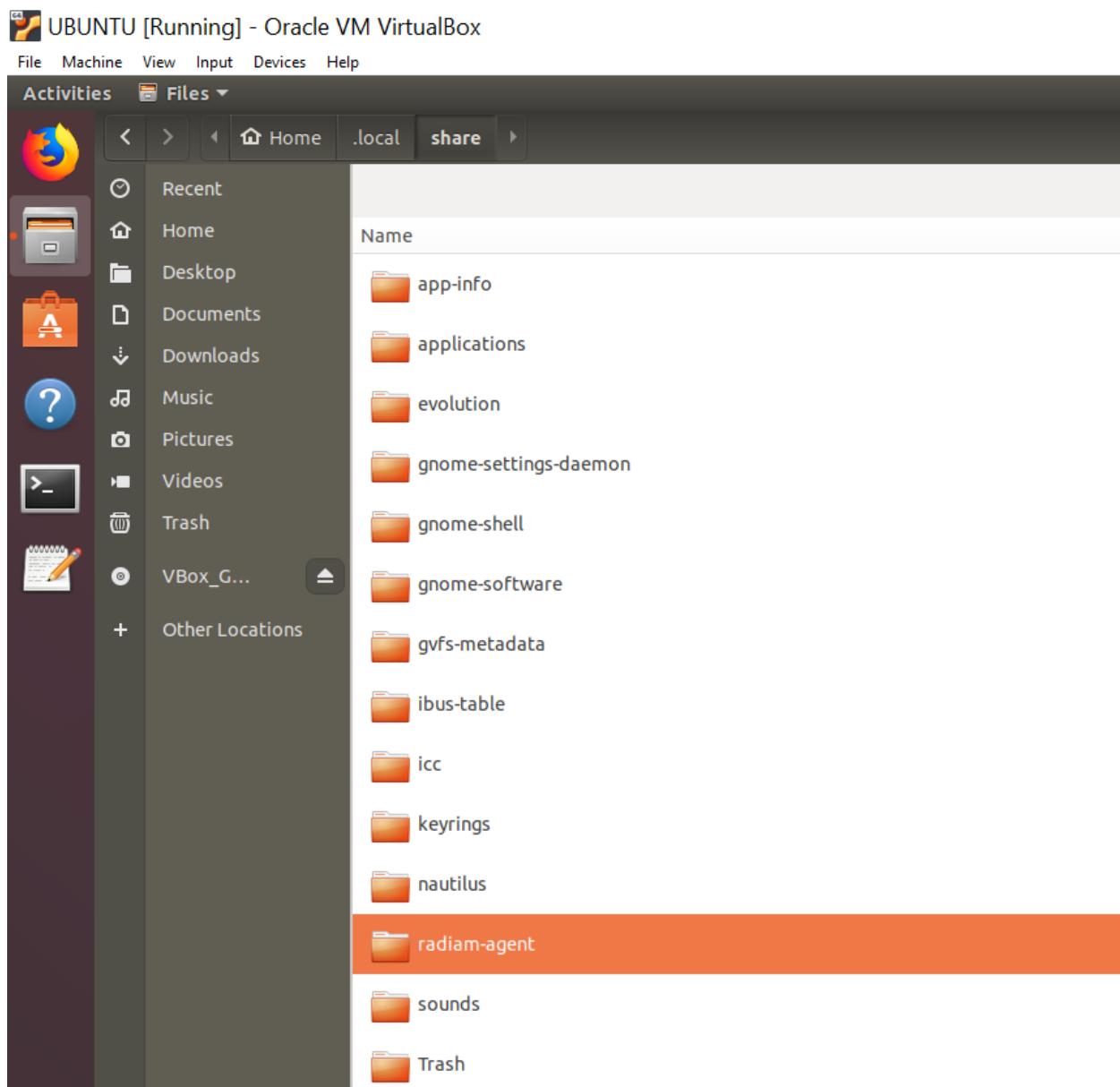
- Click “.local” folder



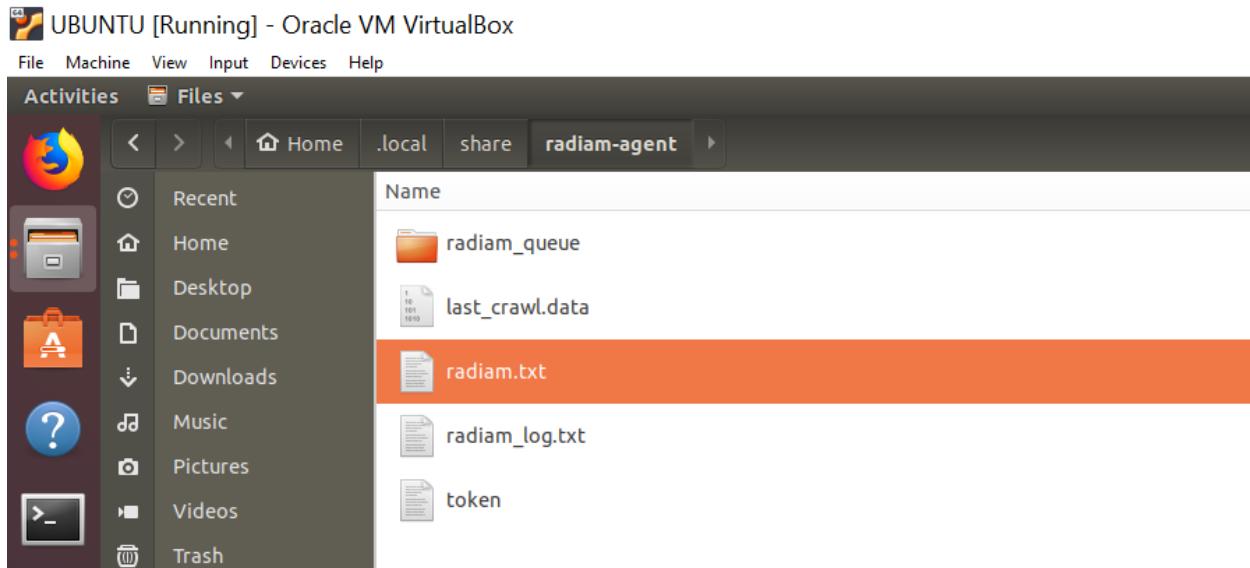
-
- Click the “share” folder



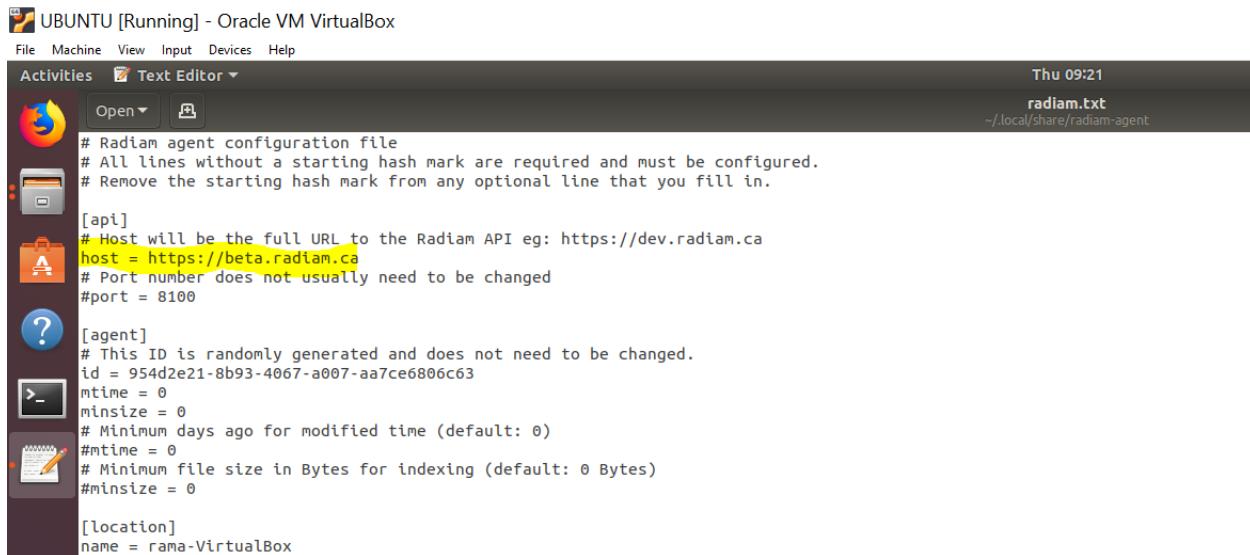
-
- Click “radian-agent” folder



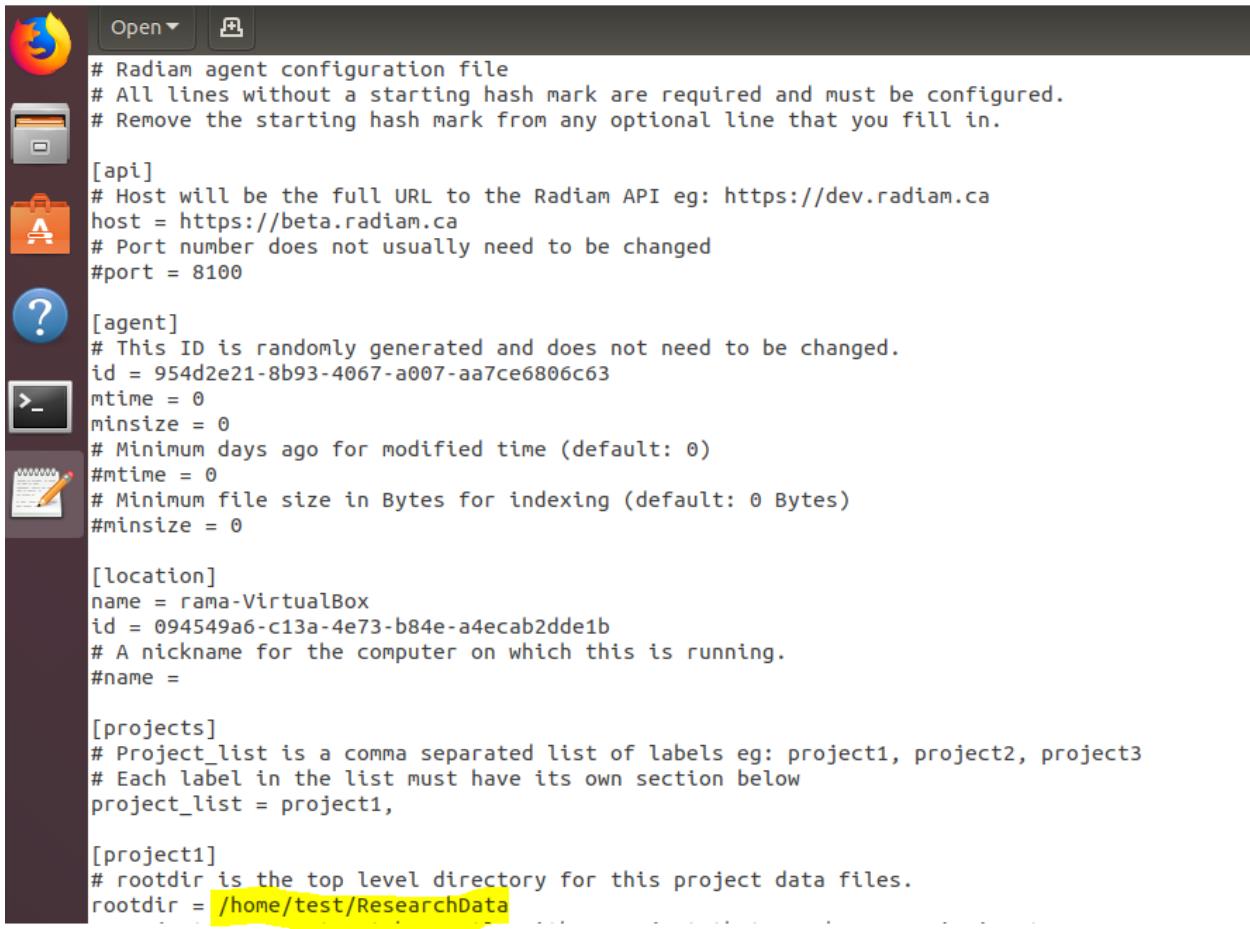
- Open “radian.txt” file to edit



- Under [api] section, for "host" enter <https://beta.radiam.ca>



-
- Under [project1] section, for “rootdir” enter the <local project folder path>



```
# Radium agent configuration file
# All lines without a starting hash mark are required and must be configured.
# Remove the starting hash mark from any optional line that you fill in.

[api]
# Host will be the full URL to the Radium API eg: https://dev.radium.ca
host = https://beta.radium.ca
# Port number does not usually need to be changed
#port = 8100

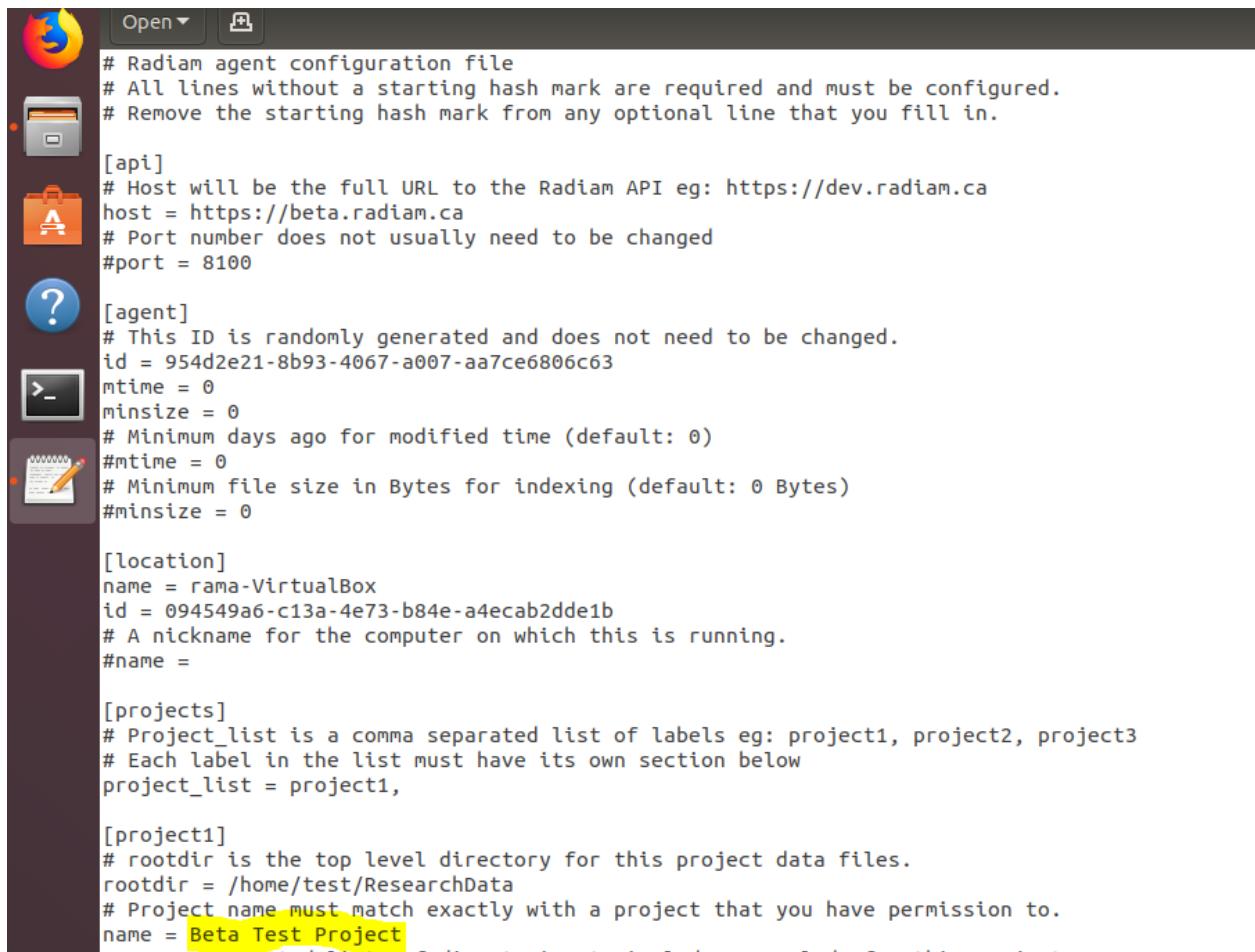
[agent]
# This ID is randomly generated and does not need to be changed.
id = 954d2e21-8b93-4067-a007-aa7ce6806c63
mtime = 0
minsize = 0
# Minimum days ago for modified time (default: 0)
#mtime = 0
# Minimum file size in Bytes for indexing (default: 0 Bytes)
#minsize = 0

[location]
name = rama-VirtualBox
id = 094549a6-c13a-4e73-b84e-a4ecab2dde1b
# A nickname for the computer on which this is running.
#name =

[projects]
# Project_list is a comma separated list of labels eg: project1, project2, project3
# Each label in the list must have its own section below
project_list = project1,

[project1]
# rootdir is the top level directory for this project data files.
rootdir = /home/test/ResearchData
```

- Under [project1] section, for “name” enter <your project> name



```

# Radium agent configuration file
# All lines without a starting hash mark are required and must be configured.
# Remove the starting hash mark from any optional line that you fill in.

[api]
# Host will be the full URL to the Radium API eg: https://dev.radium.ca
host = https://beta.radium.ca
# Port number does not usually need to be changed
#port = 8100

[agent]
# This ID is randomly generated and does not need to be changed.
id = 954d2e21-8b93-4067-a007-aa7ce6806c63
mtime = 0
minsize = 0
# Minimum days ago for modified time (default: 0)
#mtime = 0
# Minimum file size in Bytes for indexing (default: 0 Bytes)
#minsize = 0

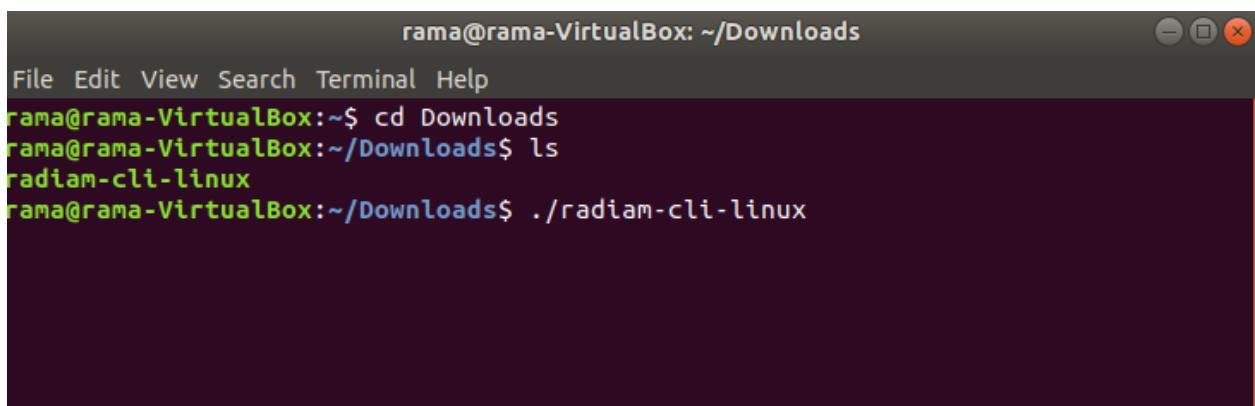
[location]
name = rama-VirtualBox
id = 094549a6-c13a-4e73-b84e-a4ecab2dde1b
# A nickname for the computer on which this is running.
#name =

[projects]
# Project_list is a comma separated list of labels eg: project1, project2, project3
# Each label in the list must have its own section below
project_list = project1,

[project1]
# rootdir is the top level directory for this project data files.
rootdir = /home/test/ResearchData
# Project name must match exactly with a project that you have permission to.
name = Beta Test Project

```

- Save and close radiam.txt file
- To run the agent, type ./radiam-cli-linux then hit enter key

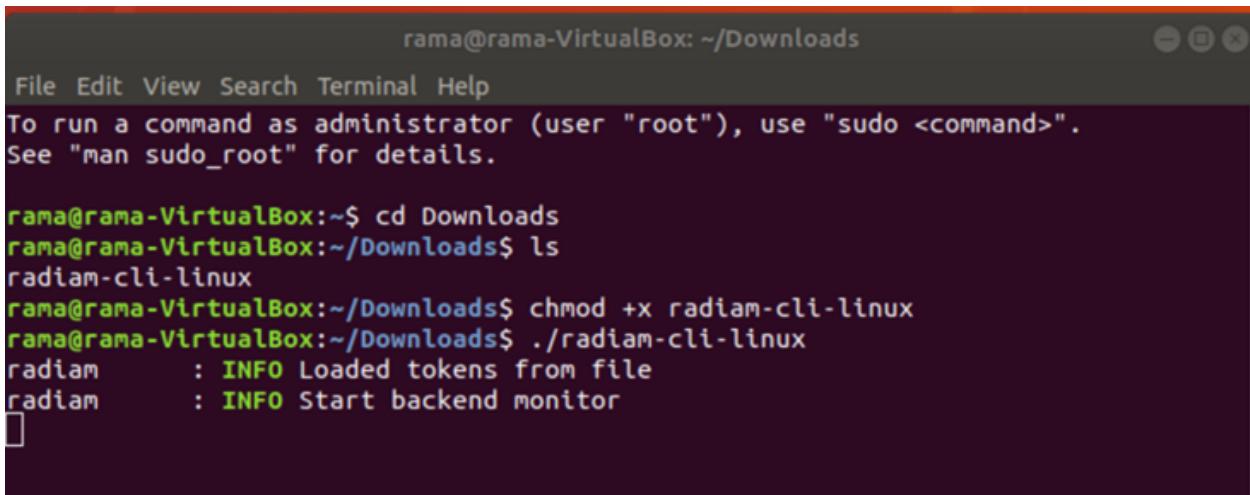


```

rama@rama-VirtualBox: ~/Downloads
File Edit View Search Terminal Help
rama@rama-VirtualBox:~$ cd Downloads
rama@rama-VirtualBox:~/Downloads$ ls
radiam-cli-linux
rama@rama-VirtualBox:~/Downloads$ ./radiam-cli-linux

```

-
- Upon a successful run, you will see the Radium info as below in the screenshot.

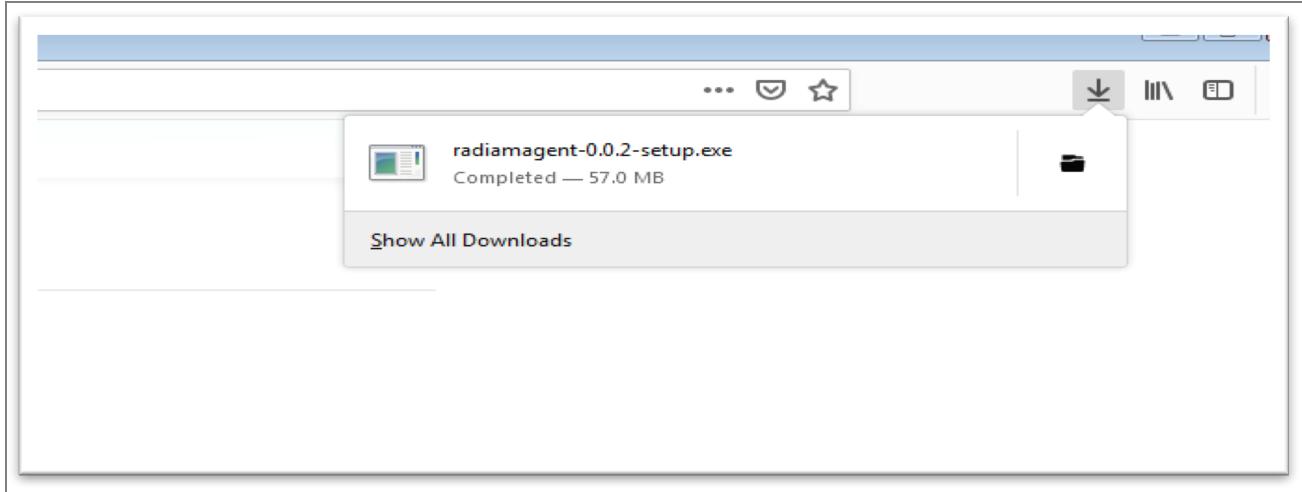


```
rama@rama-VirtualBox: ~/Downloads
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

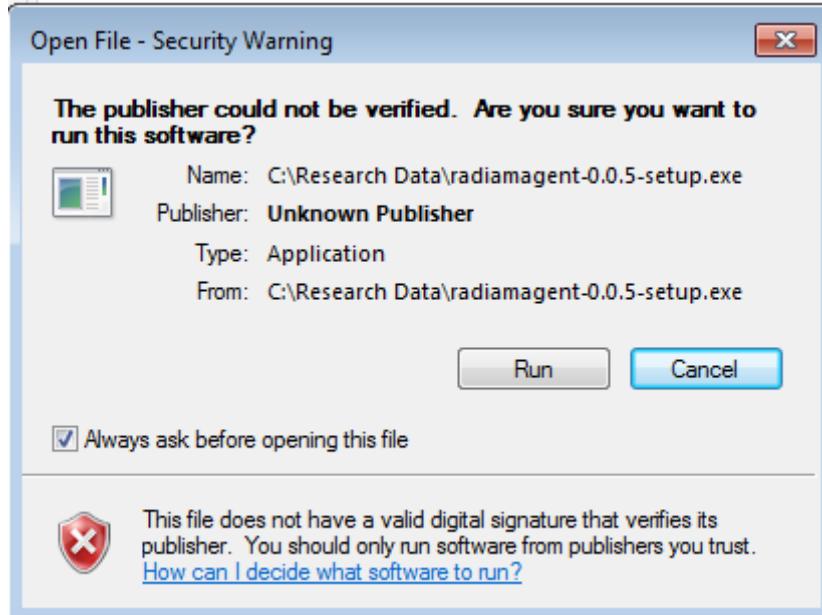
rama@rama-VirtualBox:~$ cd Downloads
rama@rama-VirtualBox:~/Downloads$ ls
radium-cli-linux
rama@rama-VirtualBox:~/Downloads$ chmod +x radium-cli-linux
rama@rama-VirtualBox:~/Downloads$ ./radium-cli-linux
radiam      : INFO Loaded tokens from file
radiam      : INFO Start backend monitor
□
```

4.3 Installing Agent on Windows 7 and Windows 10

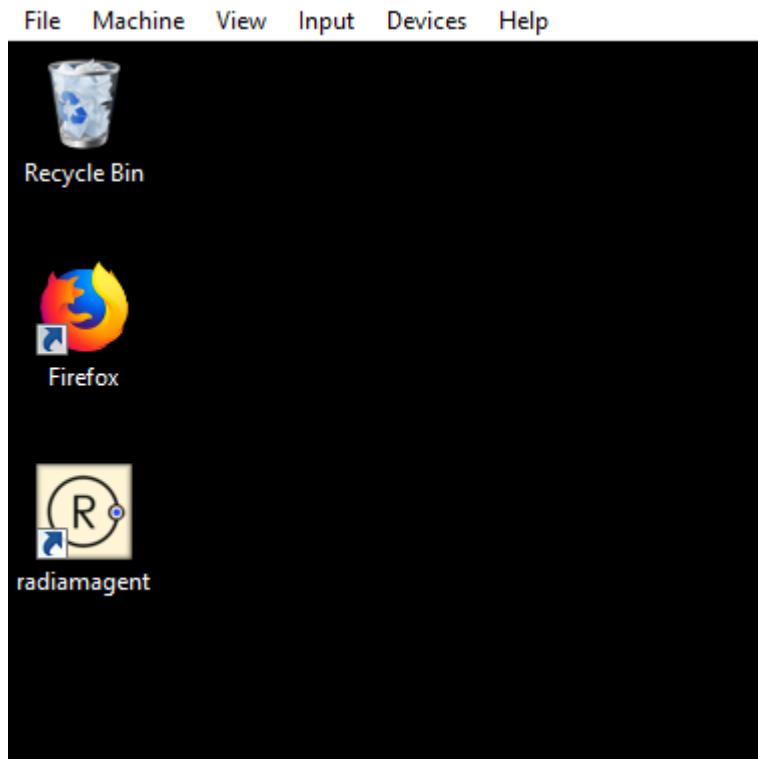
- Click the downloaded setup.exe file to run



Click the “Run” button



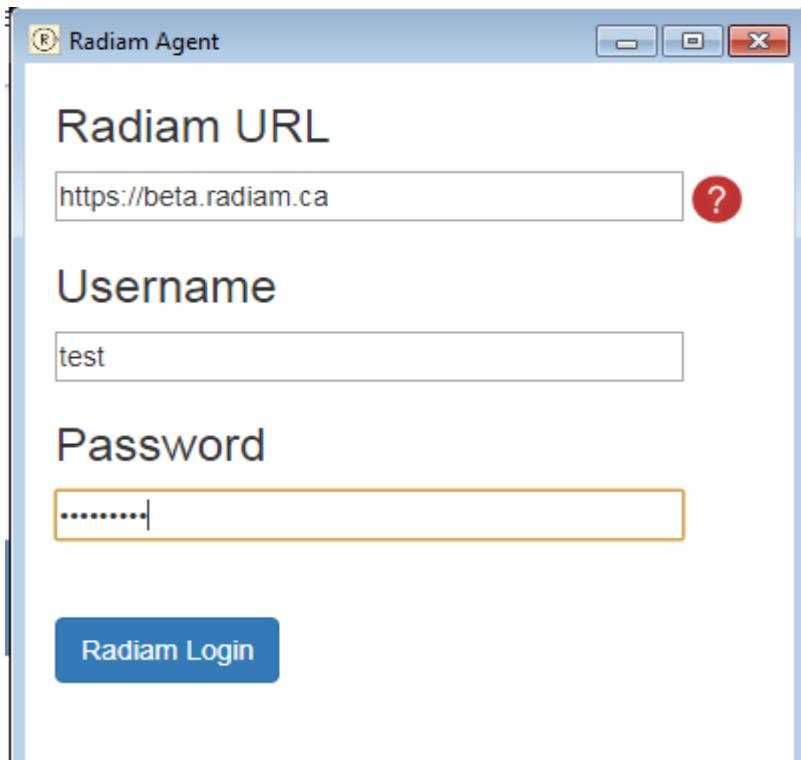
- Double click the “radiamagent” icon on the desktop to run it



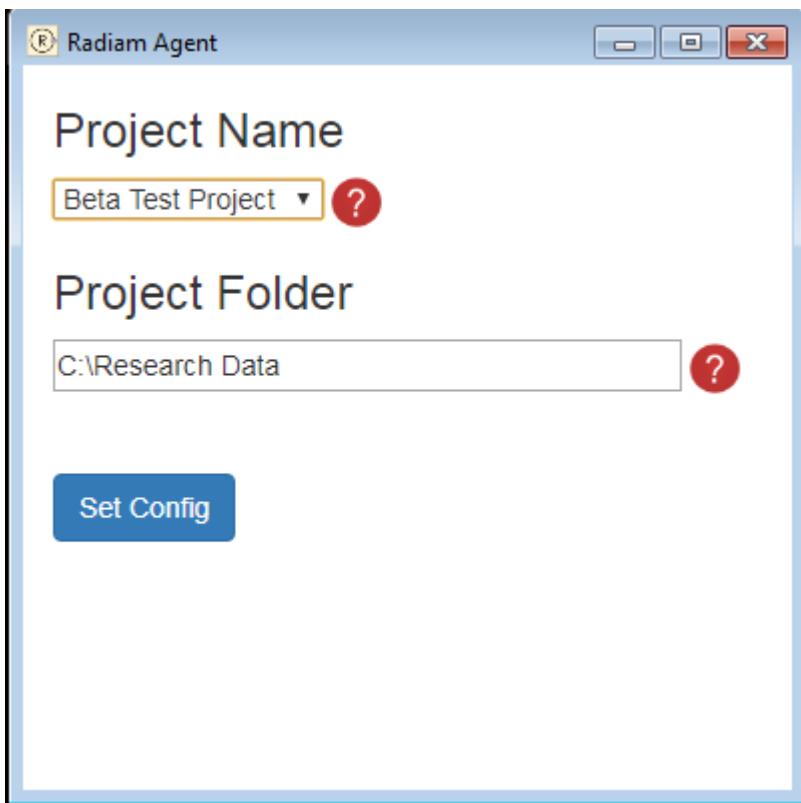
-
- Upon successful startup, the welcome window will pop up. Click the “Quick Config” button



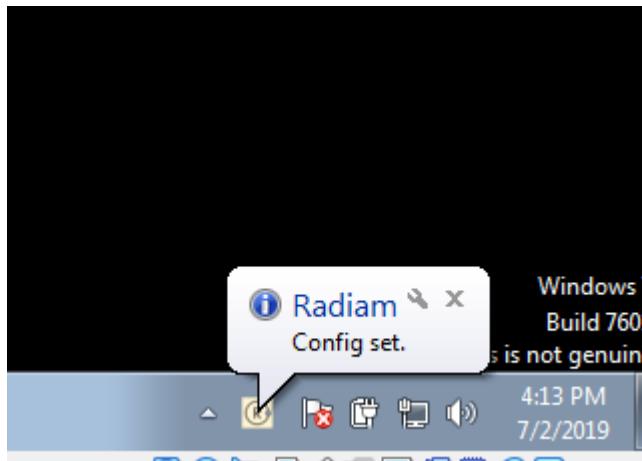
- Enter URL of your own Radium instance; in the given example we used <https://beta.radiam.ca>, your username and password, click “Radium Login” button



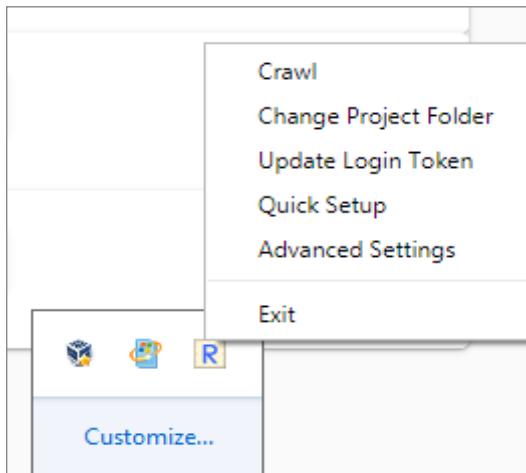
- Select your project, select the local project folder path, and click “Set Config” button



-
- Upon successful configuration, a notification window will pop up at the bottom right corner of the desktop panel



To stop or quit agent crawling, right click on the Radium panel icon select “Exit”

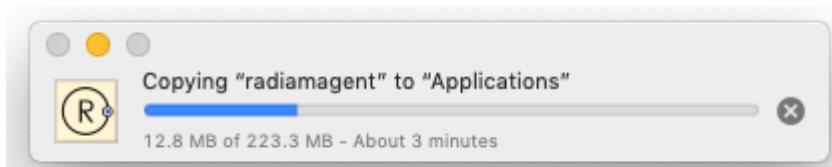


4.4 Installing Agent on Mac

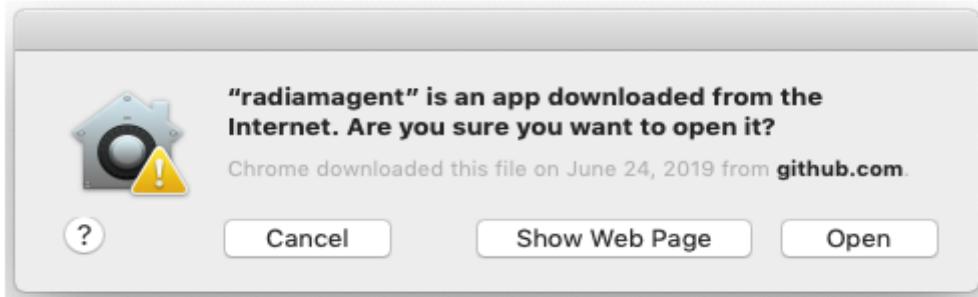
- Click on “radiamagent” icon



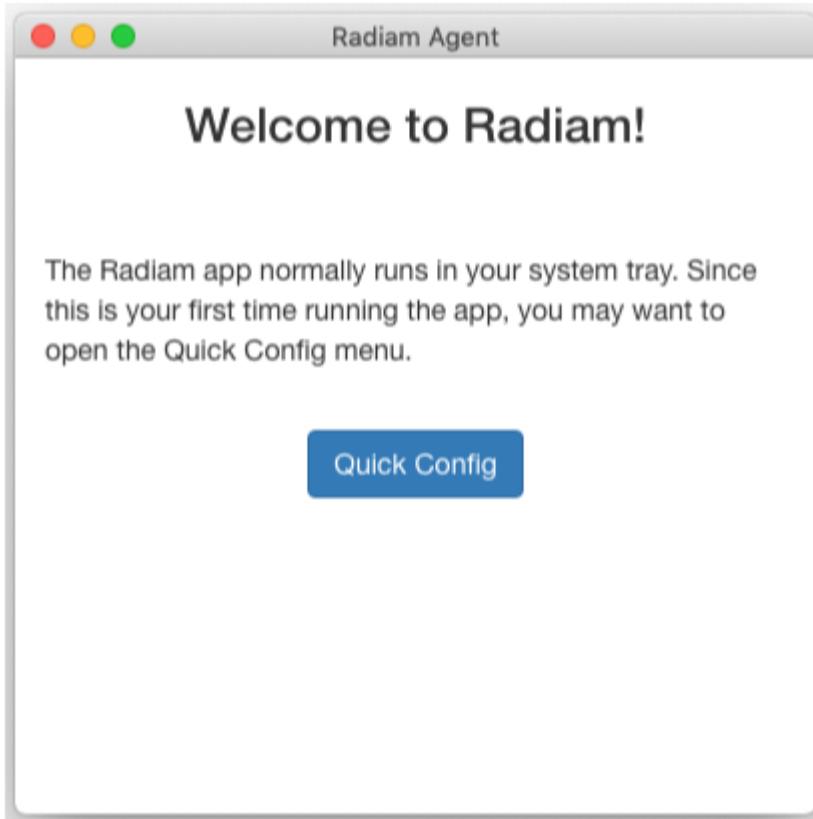
- Move downloaded file into the applications folder



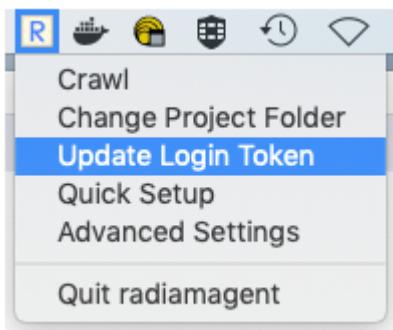
-
- Click “open” button



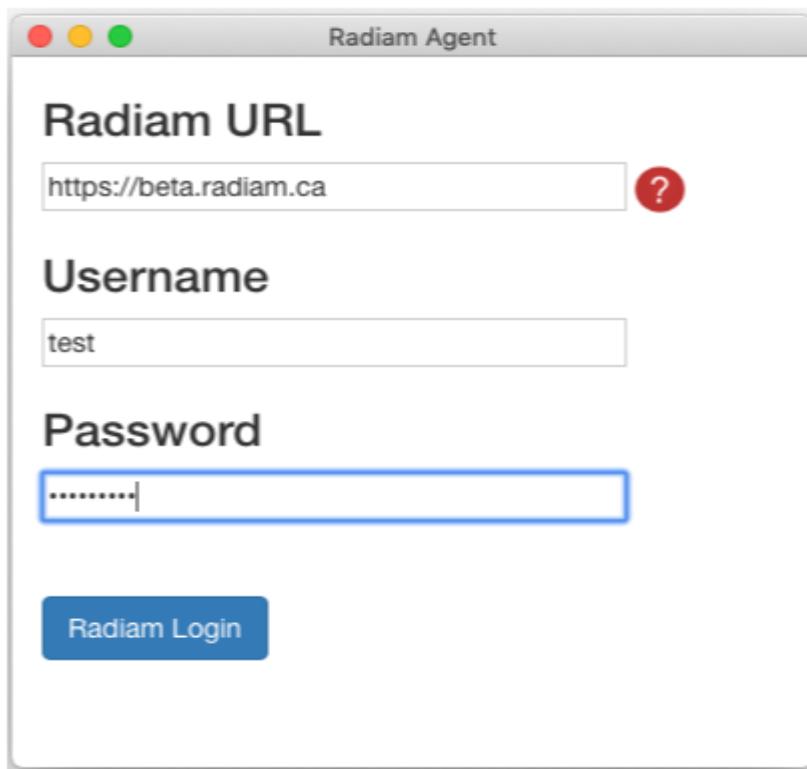
- Click “Quick Config” button on welcome window panel



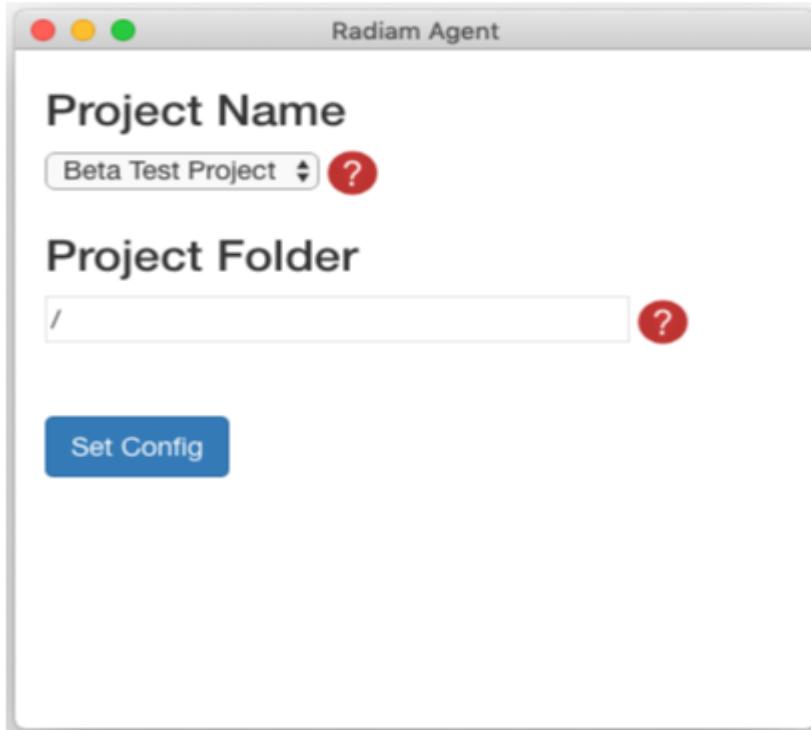
- Right click on installed Radium on the menu bar to select “Update Login Token”



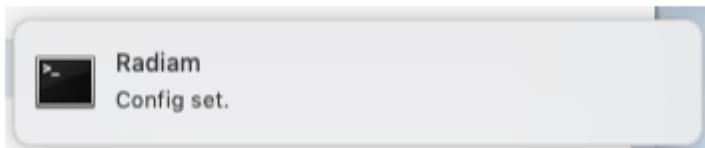
- Enter URL <https://beta.radiam.ca>, your username and password, click “Radium Login” button



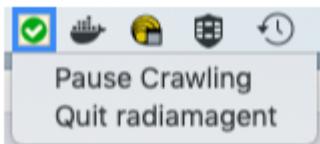
- Select your project, select the local project folder path and click “Set Config” button



- Upon successful configuration, a notification window will pop up



- To stop or quit agent crawling, click on the Radium panel icon select the right option



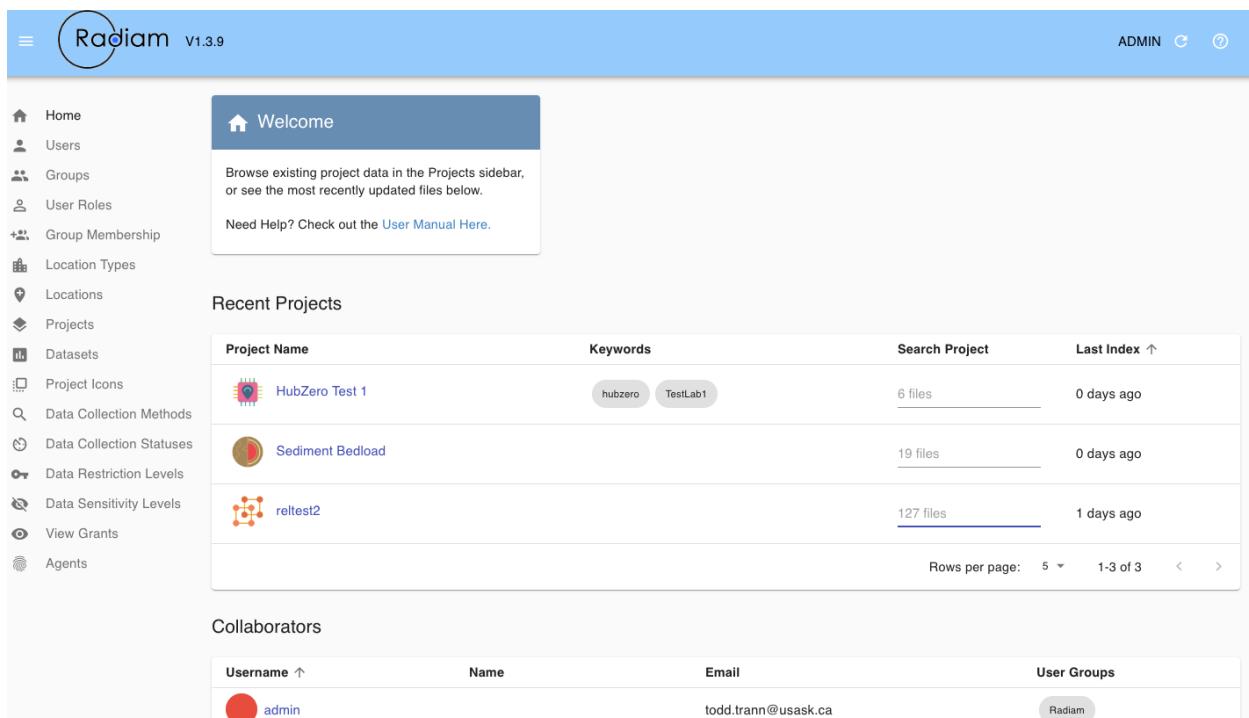
4.5 OSF and HUBZero Agent

- Creating OSF and HUBzero agent and, configuration details can be found at the below link;
<https://radium.readthedocs.io/en/latest/osf.html>

-
- Creating HUBzero agent and configuration details can be found at the below link;
<https://radian.readthedocs.io/en/latest/hubzero.html>

5.0 WEB INTERFACE DASHBOARD

5.1 Radium Dashboard



The screenshot shows the Radium web interface dashboard. At the top, there's a navigation bar with a menu icon, the Radium logo, and version information (v1.3.9). On the right, there are links for 'ADMIN' and other user options. The main content area has a 'Welcome' header with instructions to browse project data or check the User Manual. Below this is a 'Recent Projects' section with a table:

Project Name	Keywords	Search Project	Last Index
HubZero Test 1	hubzero TestLab1	6 files	0 days ago
Sediment Bedload		19 files	0 days ago
reltest2		127 files	1 days ago

At the bottom of this section, there are pagination controls for 'Rows per page' (5), '1-3 of 3', and arrows. Below the projects is a 'Collaborators' section with a table:

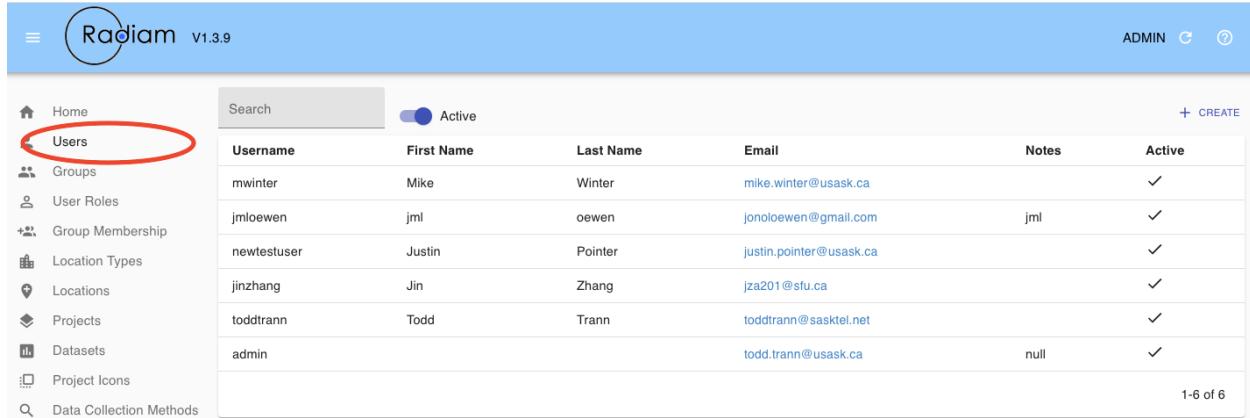
Username	Name	Email	User Groups
admin		todd.trann@usask.ca	Radium

5.2 Users

- A user is who has permission to log in to the Dashboard system or crawl files to a project.
- A User's access level is determined by their Association with Research Groups.

- ex: A User who is a Group Admin in Group A and a Data Manager in Group B will have Edit permissions within items Group A manages but not with Group B, since Data Managers do not have Edit access on most items. Said User would not be able to see Group C or any Projects or Datasets that it manages, since they have no association with said Group.

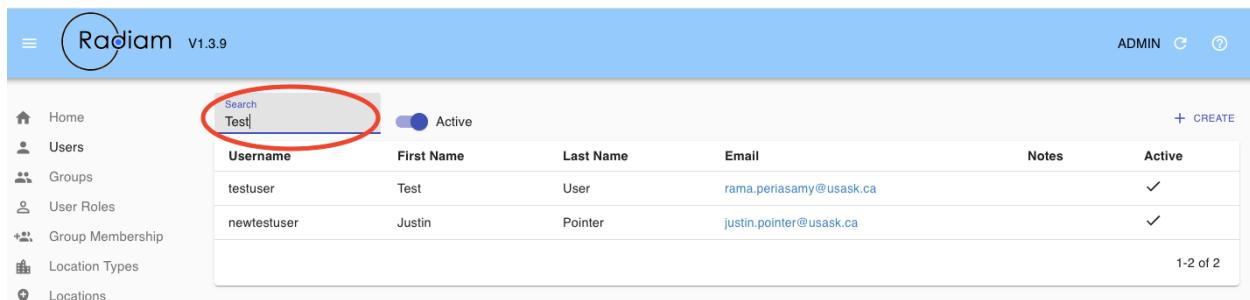
- Dashboard view of list of users:



The screenshot shows the Radium V1.3.9 dashboard. On the left, there's a sidebar with icons for Home, Users (circled in red), Groups, User Roles, Group Membership, Location Types, Locations, Projects, Datasets, Project Icons, and Data Collection Methods. The main area has a search bar with 'Search' and a 'Active' toggle switch. Below is a table with columns: Username, First Name, Last Name, Email, Notes, and Active. The table contains 6 rows of user data. At the bottom right, it says '1-6 of 6'.

Username	First Name	Last Name	Email	Notes	Active
mwinter	Mike	Winter	mike.winter@usask.ca		✓
jmlloewen	jml	oewen	jonoloewen@gmail.com	jml	✓
newtestuser	Justin	Pointer	justin.pointer@usask.ca		✓
jinzhang	Jin	Zhang	jza201@sfsu.ca		✓
toddtrann	Todd	Trann	toddtrann@sasktel.net		✓
admin			todd.trann@usask.ca	null	✓

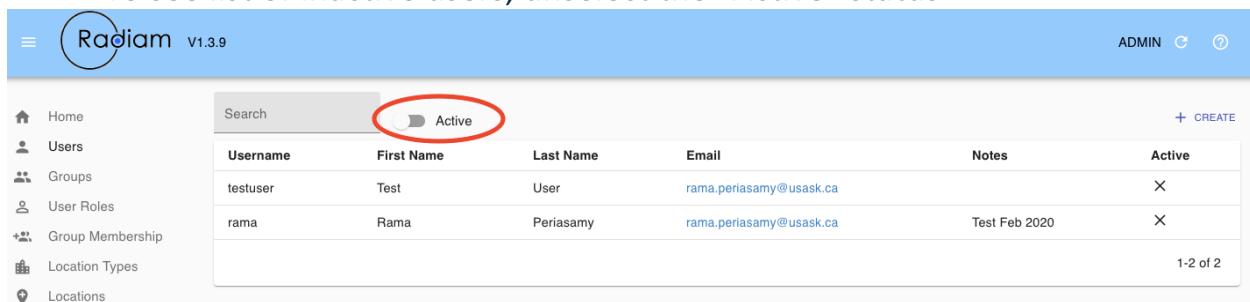
- Users can be searched with their user name, first name and last name



The screenshot shows the Radium V1.3.9 dashboard. The search bar at the top contains 'Test' (circled in red). The main area displays a table with the same columns as the previous screenshot. It shows 2 results: 'testuser' and 'newtestuser'. The bottom right corner indicates '1-2 of 2'.

Username	First Name	Last Name	Email	Notes	Active
testuser	Test	User	rama.periasamy@usask.ca		✓
newtestuser	Justin	Pointer	justin.pointer@usask.ca		✓

- To see list of inactive users, unselect the “Active” status



The screenshot shows the Radium V1.3.9 dashboard. The 'Active' toggle switch at the top is unselected (circled in red). The main area shows a table with the same columns. It lists two users: 'testuser' (inactive) and 'rama' (inactive). The bottom right corner shows '1-2 of 2'.

Username	First Name	Last Name	Email	Notes	Active
testuser	Test	User	rama.periasamy@usask.ca		✗
rama	Rama	Periasamy	rama.periasamy@usask.ca	Test Feb 2020	✗

5.3 Groups

- A Group is associated with zero-to-many Users, listed in the Group Membership table.
- Groups may have an assigned Parent Group. Doing so grants view access to members of the Parent Group on the child Groups' Projects.

The screenshot shows the Radium web interface with a blue header bar. On the left, there is a sidebar with icons for Home, Users, Groups (which is circled in red), User Roles, Group Membership, Location Types, Locations, Projects, and Datasets. The main content area has a search bar at the top. Below it is a table with columns: Group Name, Description, and Parent Group. The table contains five rows: group_inactive (inactive group, Parent Group: Radium), HubZero Testing Group (HubZero Testing Group, Parent Group: Radium), Sediment Group (Researchers looking at river bed sediment, Parent Group: Radium), Rama test group (Rama Testing, Parent Group: Radium), and Radium (The top level group in this Radium instance, Parent Group: Radium). At the bottom right of the table, it says '1-5 of 5'. The top right of the header bar shows 'ADMIN' and other user icons.

Group Name	Description	Parent Group
group_inactive	inactive group	Radium
HubZero Testing Group	HubZero Testing Group	Radium
Sediment Group	Researchers looking at river bed sediment	Radium
Rama test group	Rama Testing	Radium
Radium	The top level group in this Radium instance	Radium

- System admin and Group admin have permission to create research groups

The screenshot shows the Radium web interface with a blue header bar. On the left, there is a sidebar with icons for Home, Users, Groups (which is circled in red), User Roles, Group Membership, Location Types, Locations, Projects, Datasets, Project Icons, and Data Collection Methods. The main content area has a title 'Creating Group'. It contains three input fields: 'Group Name *', 'Description *', and a dropdown menu for 'Parent Group'. At the bottom are two buttons: 'SAVE' and 'DELETE'. The top right of the header bar shows 'ADMIN' and other user icons.

- There are two types of filter search available: 1. Parent Group 2. Active

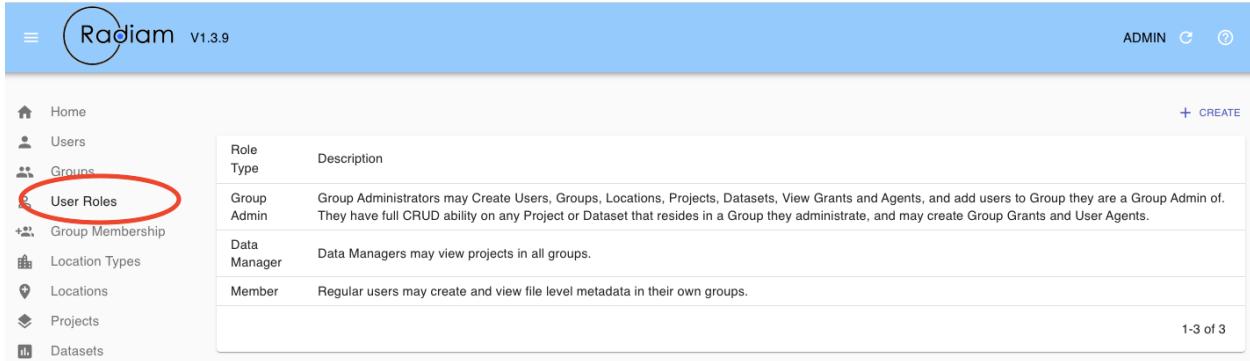
The screenshot shows the Radium web interface with a blue header bar. On the left, there is a sidebar with icons for Home, Users, Groups, User Roles, Group Membership, Location Types, Locations, Projects, and Datasets. The main content area has a search bar at the top. Below it is a table with columns: Group Name, Description, Parent Group, and Active. The table contains the same five rows as the previous screenshot. The 'Parent Group' and 'Active' columns are circled in red. At the bottom right of the table, it says '1-5 of 5'. The top right of the header bar shows 'ADMIN' and other user icons.

Group Name	Description	Parent Group	Active
group_inactive	inactive group	Radium	
HubZero Testing Group	HubZero Testing Group	Radium	
Sediment Group	Researchers looking at river bed sediment	Radium	
Rama test group	Rama Testing	Radium	
Radium	The top level group in this Radium instance	Radium	

5.4 User Roles

- There are currently three User Roles

- **Group Admin**
 - Group Admins administrate their Research Group and can add / remove Data Managers from their research group.
 - They may also add metadata / Geolocation data to Projects associated with their Group, and view all files that have been crawled to said Projects, as well as all Datasets associated with said Projects.
 - Finally, they may also create web agents and apply View Grants on their Datasets to other Research Groups.
- **Data Manager**
 - Data Managers are the base level of user - They may browse Datasets that their Groups have been granted View access on, and Projects that belong to one of their Groups.
- **Member**
 - Largely unused, a Member is the base level of user and has a very limited permission set. A User granted Membership on a Group will only have view access on said group.
- There are also two User Types, beyond the scope of Roles:
 - System Admins: Can view and modify any field. A System Admin must create the initial User and Group setup, as Group Admins do not have this permission.
 - Anonymous users: Users exist in the system but have no existing association with any Research Group, and must be granted such from another user. As they have no association with a Group, they have no Role with any group.

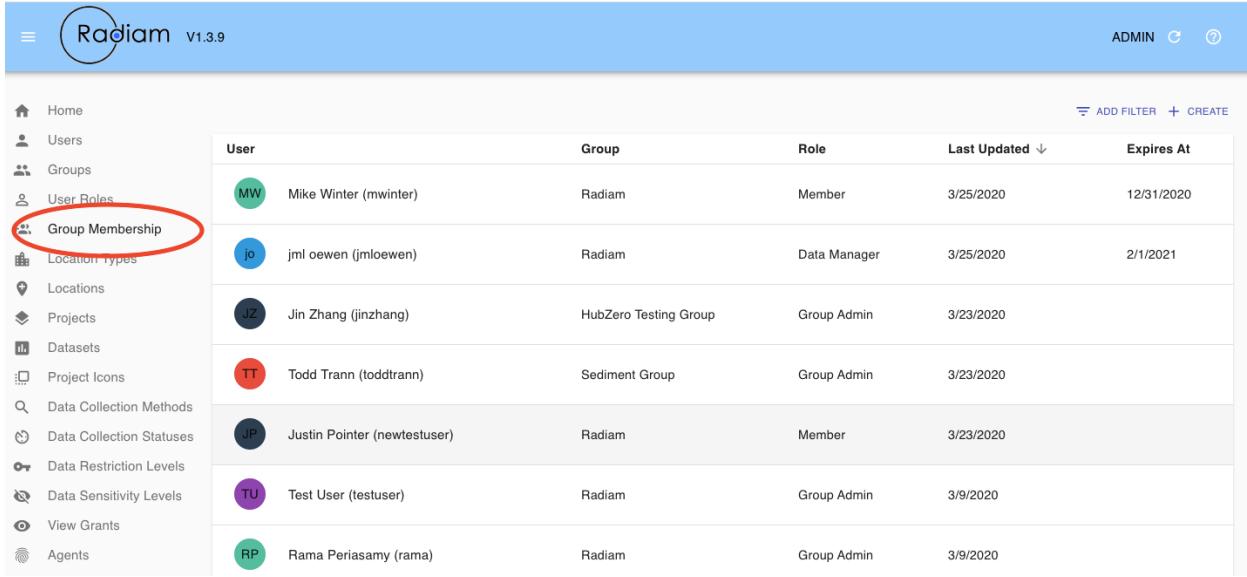


The screenshot shows the Radium application interface. At the top, there's a blue header bar with the Radium logo and version V1.3.9. On the right side of the header, there are 'ADMIN' and other user-related icons. Below the header is a sidebar on the left containing links: Home, Users, Groups, **User Roles**, Group Membership, Location Types, Locations, Projects, and Datasets. The 'User Roles' link is highlighted with a red oval. To the right of the sidebar is a main content area. At the top of this area is a table header with columns 'Role Type' and 'Description'. Below the header is a table with three rows. The first row contains 'Group Admin' and the description: 'Group Administrators may Create Users, Groups, Locations, Projects, Datasets, View Grants and Agents, and add users to Group they are a Group Admin of. They have full CRUD ability on any Project or Dataset that resides in a Group they administrate, and may create Group Grants and User Agents.' The second row contains 'Data Manager' and the description: 'Data Managers may view projects in all groups.' The third row contains 'Member' and the description: 'Regular users may create and view file level metadata in their own groups.' At the bottom right of the content area, it says '1-3 of 3'.

Role Type	Description
Group Admin	Group Administrators may Create Users, Groups, Locations, Projects, Datasets, View Grants and Agents, and add users to Group they are a Group Admin of. They have full CRUD ability on any Project or Dataset that resides in a Group they administrate, and may create Group Grants and User Agents.
Data Manager	Data Managers may view projects in all groups.
Member	Regular users may create and view file level metadata in their own groups.

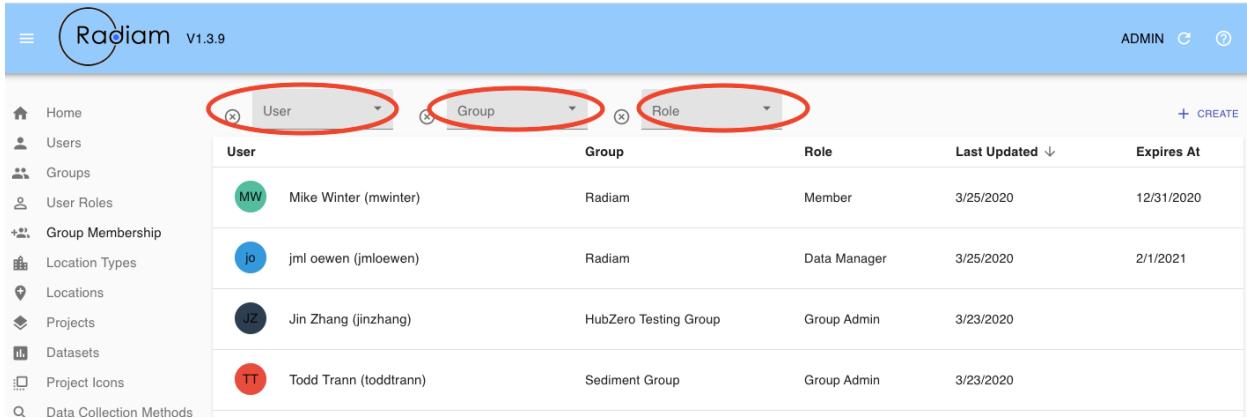
5.5 Group Memberships

- An assignment between a User, A Research Group, and their Role in said group.
- Can be given an expiry date, at which point the User will no longer be associated with said Research Group.



User	Group	Role	Last Updated	Expires At
MW Mike Winter (mwinter)	Radiam	Member	3/25/2020	12/31/2020
jo jml oewen (jmloewen)	Radiam	Data Manager	3/25/2020	2/1/2021
vZ Jin Zhang (jinzhang)	HubZero Testing Group	Group Admin	3/23/2020	
TT Todd Trann (toddtrann)	Sediment Group	Group Admin	3/23/2020	
JP Justin Pointer (newtestuser)	Radiam	Member	3/23/2020	
TU Test User (testuser)	Radiam	Group Admin	3/9/2020	
RP Rama Periasamy (rama)	Radiam	Group Admin	3/9/2020	

- There are three types of search filter available: 1. User 2. Group 3. Role; to undo the selected filter to see the full list, click the “x” beside the filters



User	Group	Role	Last Updated	Expires At
MW Mike Winter (mwinter)	Radiam	Member	3/25/2020	12/31/2020
jo jml oewen (jmloewen)	Radiam	Data Manager	3/25/2020	2/1/2021
vZ Jin Zhang (jinzhang)	HubZero Testing Group	Group Admin	3/23/2020	
TT Todd Trann (toddtrann)	Sediment Group	Group Admin	3/23/2020	

- Groups can be created by System and Group admin; user permissions are assigned while creating groups which group has permission to view the projects of the other groups by selecting “Group” option

Creating User-Group Relation

User

Group

Role

Expires At
yyyy-mm-dd

SAVE **DELETE**

- User roles can be updated under “Group Membership” edit option. Same user can hold Group admin, Data Manager and Member roles depends on the project and permission level they are associated with

Viewing User-Group Relation

User

TU Test User (testuser)

Group

RADIUM

Role

Group Admin

Created At

Monday, March 9, 2020

Last Updated

Monday, March 9, 2020

Expires At

EDIT

Updating User-Group Relation

User

Rama Periasamy (rama)

Group

RADIUM

Group Admin

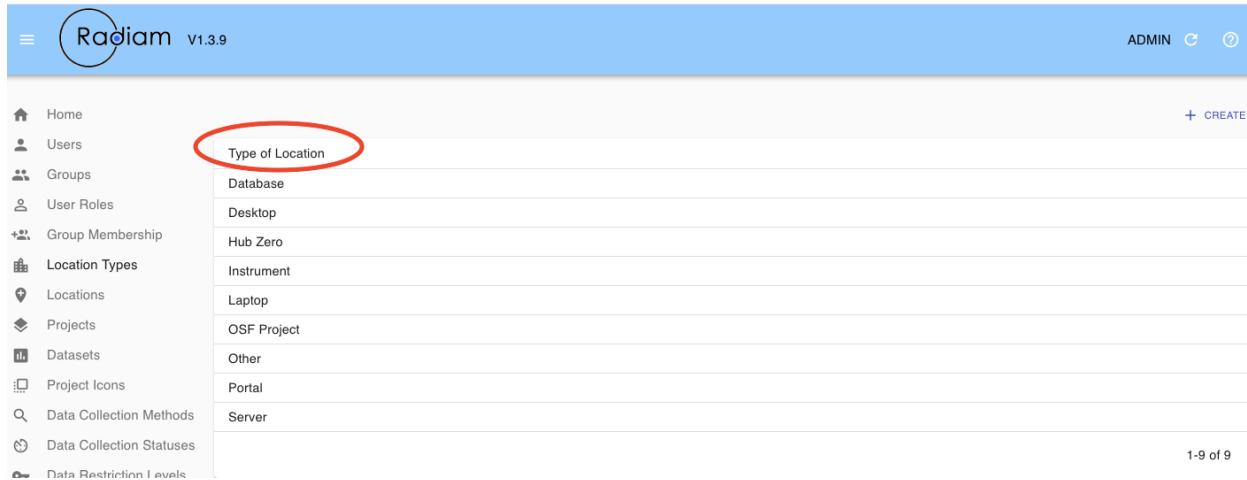
Data Manager

Member

SAVE **DELETE**

5.6 Location Types

- A Typing label for Locations - this is purely aesthetic, except for the OSF Project Label.



The screenshot shows the Radium web application interface. At the top, there is a blue header bar with the Radium logo and version information (V1.3.9). On the right side of the header, there are links for 'ADMIN', a gear icon, and a question mark icon. Below the header is a navigation sidebar on the left containing various menu items: Home, Users, Groups, User Roles, Group Membership, Location Types (which is the active page, indicated by a blue background), Locations, Projects, Datasets, Project Icons, Data Collection Methods, Data Collection Statuses, and Data Restriction Levels. To the right of the sidebar is a main content area titled 'Type of Location'. This area contains a list of location types: Database, Desktop, Hub Zero, Instrument, Laptop, OSF Project, Other, Portal, and Server. The 'OSF Project' item is circled in red. At the bottom right of the content area, it says '1-9 of 9'. There is also a '+ CREATE' button in the top right corner of the content area.

5.7 Locations

- A Location is a record indicating the upload source of an associated Project's Files.
 - It contains a Location Type, a purely visual field with the exception of the OSF Project
 - A Location with Location Type OSF Project must be used to create an Agent capable of crawling OSF data at osf.io. An OSF Location also requires an associated OSF UUID.
 - Each Location also contains a list of Projects that it crawls to - this listing is created to grant Users viewership access on this Location if they manage said Project.
 - For Example, User Marion is a part of Group PM Development. This Group Manages Project M. This Project is crawled to via a Location labeled as Backroom, as well a Location labeled as Frontroom. In the listing of both of these Location items, Project M is listed as an item in the Projects field within item Locations.
- Like the Project and Dataset items, Geolocation and Metadata models are optional.

Radium v1.3.9

ADMIN ⌂ ⓘ

Home Users Groups User Roles Group Membership Location Types Locations Projects Datasets Project Icons Data Collection Methods

Search Location Type + CREATE

Display Name	Host Name	Location Type	Notes	Projects
206-12-92-145.cloud.computeCanada.ca	206-12-92-145.cloud.computeCanada.ca	Hub Zero	reltest2 Sediment Bedload HubZero Test 1	
shoebox	shoebox	Laptop	reltest2	
Todds Mac Mini	admins-Mac-mini.local	Laptop	reltest2 Sediment Bedload	
Jins-MacBook-Pro.local	Jins-MacBook-Pro.local	Server	reltest2 HubZero Test 1	
OSF test	osf.io	OSF Project		
ted.local	ted.local	Laptop		
Rama-PC	Rama-PC	Server		

- Two types of filter search are available: 1. Search 2. Location Type are available for the users to enable search options

Radium v1.3.9

ADMIN ⌂ ⓘ

Home Users Groups User Roles Group Membership Location Types Locations Projects Datasets Project Icons Data Collection Methods

Search + CREATE

Display Name	Host Name	Location Type	Notes	Projects
206-12-92-145.cloud.computeCanada.ca	206-12-92-145.cloud.computeCanada.ca	Hub Zero	reltest2 Sediment Bedload HubZero Test 1	
shoebox	shoebox	Laptop	reltest2	
Todds Mac Mini	admins-Mac-mini.local	Laptop	reltest2 Sediment Bedload	
Jins-MacBook-Pro.local	Jins-MacBook-Pro.local	Server	reltest2 HubZero Test 1	
OSF test	osf.io	OSF Project		
ted.local	ted.local	Laptop		
Rama-PC	Rama-PC	Server		

- Both partial/full search options are available based on the "Display Name"

Radium v1.3.9

ADMIN ⌂ ⓘ

Home Users Groups User Roles Group Membership Location Types

Search + CREATE

OSF test

Display Name	Host Name	Location Type	Notes	Projects
OSF test	osf.io	OSF Project		

1-1 of 1

5.8 Projects

- A Project is a record for storing Research Project data.
 - A Project is associated with some Research Group that manages it. Any user that has a Group Membership association with said group will have visibility on the Project's file metadata.

- A Primary Contact User must be specified for each Project, as the user designated to be contacted for queries about said project. This user is a member of the assigned Group.
- Keywords, an Icon, and a Name may all be specified to individualize a Project.
- Projects may contain File Metadata, accessed in the Files tab.
 - Within said tab, files may be browsed through in a directory tree structure, or searched for using the Full-text Search bar on the right hand side of the table. Project Files are delineated by the Location from which they were crawled from, and if applicable, contain a link to an associated Globus project.

Project Name				Primary Contact User	Group	Keywords
HubZero Test 1	JZ	Jin Zhang (jinzhang)	HubZero Testing Group	hubzero TestLab1		
Sediment Bedload	TT	Todd Trann (toddtrann)	Sediment Group			
reltest2	admin		Radium			

- Click “Create” on the top right corner to create a new project or to update an existing project

Radium v1.3.9

ADMIN ⚙️ ⓘ

[Home](#)

[Users](#)

[Groups](#)

[User Roles](#)

[Group Membership](#)

[Location Types](#)

[Locations](#)

[Projects](#) (highlighted with a red oval)

[Datasets](#)

[Project Icons](#)

[Data Collection Methods](#)

[Data Collection Statuses](#)

[Data Restriction Levels](#)

[Data Sensitivity Levels](#)

[View Grants](#)

[Agents](#)

Updating Project

Project Name *

Project Icon *

Keywords

Group *

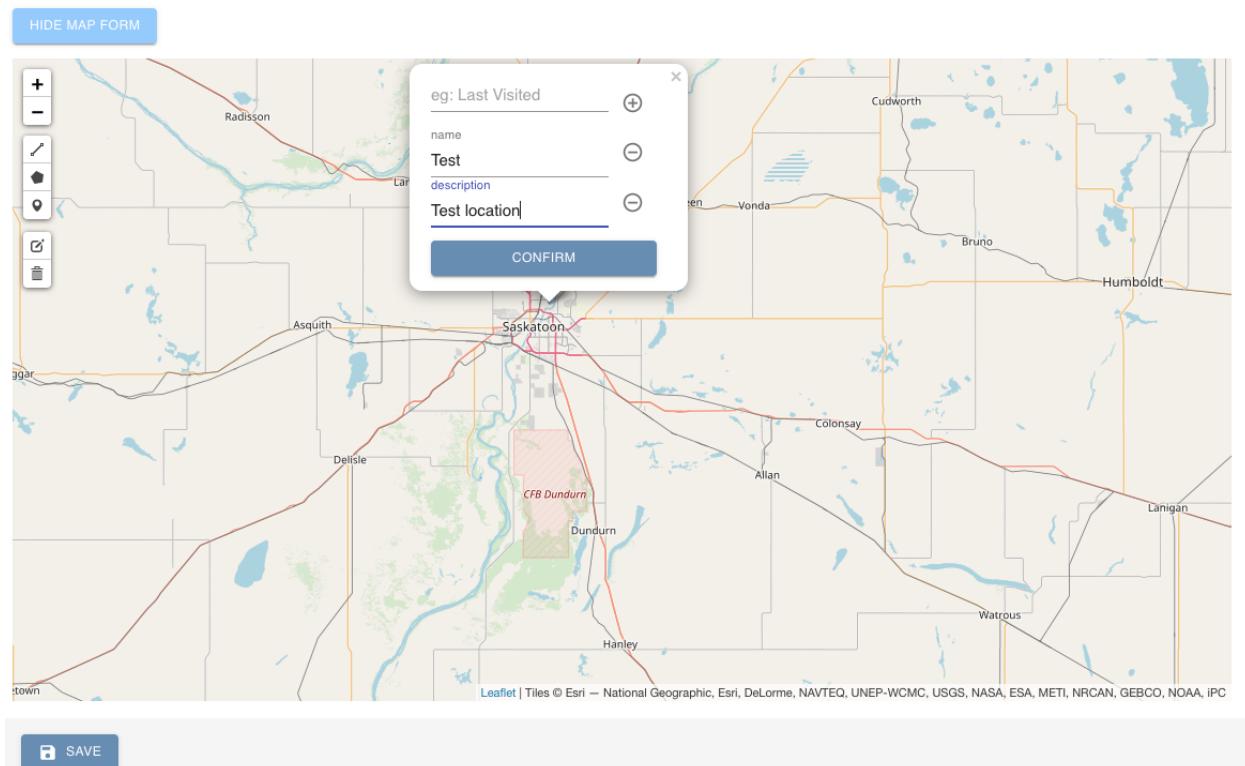
Primary Contact User *

Edit Additional Metadata
Loading additional metadata.

SHOW MAP FORM

SAVE

- Project location is also available in map form and can be added in the map



- Click a Project, to view the project summary details and file information

The screenshot shows the Radium interface with a blue header bar. On the left is a sidebar with icons for Home, Users, Groups, User Roles, Group Membership, Location Types, Locations, Projects, Datasets, Project Icons, and Data Collection Methods. The main area has tabs for SUMMARY and FILES, with the SUMMARY tab selected. Under the SUMMARY tab, it shows the Project Name as 'HubZero Test 1', which is also displayed as a thumbnail icon. Below the project name are two buttons: 'hubzero' and 'TestLab1'. It also lists the Primary Contact User as 'Jin Zhang (jinzhang)' and the Group as 'HubZero Testing Group'. A note at the bottom states 'No Additional Metadata'.

- Click on “edit” on the project page to update project information

The screenshot shows the 'Updating Project' edit form. At the top right are buttons for CANCEL, ADD / REMOVE FIELDS, and EDIT. The form fields include:

- Project Name *: A text input field containing 'reltest2'.
- Project Icon *: A dropdown menu showing a preview of an orange network icon.
- Keywords: A dropdown menu showing 'Radium'.
- Primary Contact User *: A dropdown menu showing 'admin'.

Below these fields is a section titled 'Edit Additional Metadata' with the sub-instruction 'Loading additional metadata.' At the bottom are two buttons: 'SHOW MAP FORM' and 'SAVE'.

- Click the “files” tab to view the list of files under a project folder

The screenshot shows the Radium software interface. At the top, there's a navigation bar with icons for Home, Users, Groups, User Roles, Group Membership, Location Types, Locations, Projects, Datasets, Project Icons, Data Collection Methods, Data Collection Statuses, Data Restriction Levels, Data Sensitivity Levels, View Grants, and Agents. The version number v1.3.9 is also present. On the right side of the header, there are ADMIN, C, and a help icon.

The main area is divided into two tabs: SUMMARY and FILES. The FILES tab is active, displaying four project locations:

- Sediment Bedload**: Globus Endpoint: c99fd40c-5545-11e7-beb6-22000b9a448b. Contains a single folder named "Folder1" which is 1 file (1) and was last modified 127 days ago. A "+ icon" is visible on the right.
- shoebox**: Globus Endpoint: 206-12-92-145.cloud.computeCanada.ca. Contains a folder named "Folder1" which is 1 file (1) and was last modified 127 days ago. A "+ icon" is visible on the right.
- Jins-MacBook-Pro.local**: Contains a single file named "Data" which is 1 file (1) and was last modified 52 days ago. A "+ icon" is visible on the right.
- Todds Mac Mini**: Portal Site: https://www.google.ca/. Contains a single file named "Data" which is 1 file (1) and was last modified 52 days ago. A "+ icon" is visible on the right.

Each location entry includes a search bar labeled "Search Files" and a magnifying glass icon.

- Click on a particular file to get detailed files folder hierarchy.

This screenshot shows a detailed view of the "Data" file under the "Todds Mac Mini" project. The table has columns for File Name, File Size, File Path, Last Modified, and a Search Files bar.

File Name	File Size	File Path	Last Modified	Search Files
←	Data	...Data	52 days ago	
DEM of Difference	7 1	Data/DEM of Difference	52 days ago	+ (highlighted)
Tracer_Data_Wilket.xlsx	126.305 KB	Data/Tracer_Data_Wilket.xlsx	52 days ago	
Tracer_Data_Morningside.xlsx	166.91 KB	Data/Tracer_Data_Morningside.x...	52 days ago	
Tracer_Data_Ganatsekaigon.xlsx	88.135 KB	Data/Tracer_Data_Ganatsekaigon...	52 days ago	
Recovery_Dates.xlsx	26.912 KB	Data/Recovery_Dates.xlsx	52 days ago	
Readme.txt	12.286 KB	Data/Readme.txt	52 days ago	
Grain_Size_Distributions.xlsx	37.006 KB	Data/Grain_Size_Distributions....	52 days ago	
Excess_Shear_Stress.xlsx	178.248 KB	Data/Excess_Shear_Stress.xlsx	52 days ago	
Event_Information.xlsx	46.298 KB	Data/Event_Information.xlsx	52 days ago	

- Click on the + icon on the right side to add datasets to the file

📍 Todds Mac Mini Portal Site: <https://www.google.ca/>

File Name ↓	File Size	File Path	Last Modified	Search Files
←	Data	...Data	52 days ago	
DEM of Difference	7 ⚒	Data/DEM of Difference	52 days ago	
Tracer_Data_Wilket.xlsx	126.305 KB	Data/Tracer_Data_Wilket.xlsx	52 days ago	
Tracer_Data_Morningside.xlsx	166.91 KB	Data/Tracer_Data_Morningside.x...	52 days ago	
Tracer_Data_Ganatsekiagon.xlsx	88.135 KB	Data/Tracer_Data_Ganatsekiagon...	52 days ago	
Recovery_Dates.xlsx	26.912 KB	Data/Recovery_Dates.xlsx	52 days ago	

- Files can be searched with their “File Name”

📍 Todds Mac Mini Portal Site: <https://www.google.ca/>

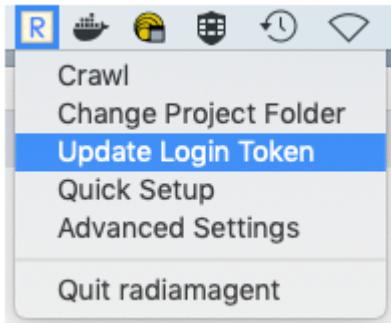
File Name ↓	File Size	File Path	Last Modified	Search Files
←	Data	...Data	52 days ago	
Wilket_DOD.tif.aux.xml	2.857 KB	Data/DEM of Difference/Wilket_...	52 days ago	
Wilket_DOD.tif	353.156 KB	Data/DEM of Difference/Wilket_...	52 days ago	
Morningside_DOD.tif.aux.xml	2.774 KB	Data/DEM of Difference/Morning...	52 days ago	
Morningside_DOD.tif	353.156 KB	Data/DEM of Difference/Morning...	52 days ago	
Ganatsekiagon_DOD.tif.aux.xml	2.848 KB	Data/DEM of Difference/Ganatse...	52 days ago	
Ganatsekiagon_DOD.tif	353.156 KB	Data/DEM of Difference/Ganatse...	52 days ago	

- Click on the file to see its metadata information. Rich Metadata information can be enabled through “advanced settings” text file while configuring Agent

Wilket_DOD.tif.aux.xml

id	extension
e6-BCXEBGl6-cEgXxde	xml
path_parent	path
Data/DEM of Difference	Data/DEM of Difference/Wilket_DOD.tif.aux.xml
filesize	owner
2.86 KB	todd
group	last_modified
staff	2020-02-03T05:17:13
last_access	last_change
2020-02-04T01:21:51	2020-02-03T05:17:13
indexed_by	indexing_date
todd	2020-03-23T22:26:44.713597
type	location
file	Todds Mac Mini
agent	indexed_date
a11cf4ef-46c9-41be-aa43-7195f661f0dc	2020-03-23T22:26:45.724928
path_parent_keyword	path_keyword
Data/DEM of Difference	Data/DEM of Difference/Wilket_DOD.tif.aux.xml
path_agnostic	path_agnostic_keyword
Data/DEM of Difference/Wilket_DOD.tif.aux.xml	Data/DEM of Difference/Wilket_DOD.tif.aux.xml
entity	
cb4b091b-a2f4-4dda-a05e-ca1d7c6b10f4	

- File “Rich Metadata” information can be enabled through “Advanced Settings” option on the agent menu. Clicking “Advanced Settings” will take you to the text file, look for “richmetadata” to change option to “enable”



- Project Dataset information can be seen at the top of files summary

A screenshot of the RADIAM application's interface. On the left is a sidebar with navigation links: Home, Users, Groups, User Roles, Group Membership, Location Types, Locations, Projects, Datasets, and Project Icons. The main area has two tabs: SUMMARY and FILES. Under SUMMARY, there is a Project Name section with a logo and the text 'reltest2'. Under FILES, there is a list of datasets: 'reltest2_subdir1 test', 'reltest2_meetings_22', 'reltest2_meetings\vara', 'reltest2_Xenia', and 'ds_meetings\or2018'. A red arrow points to the dataset 'ds_meetings\or2018'.

- Click on each Dataset to see the detail view

Viewing reltest2_subdir1 test

Dataset Title
reltest2_subdir1 test

Project
 reltest2

Data Abstract
within subdir1

Study Site

Search Model Query

```
{"bool":{"must":[{"wildcard":{"path_parent.keyword":"subdir1*"}}, {"filter":{"term":{"location.keyword":"57ecceb3-95b9-4453-849f-691496d0b839"}}]}}
```

Data Collection Status
In Progress

Data Collection Methods

Other

Distribution Restrictions

Requires Governmental Permission

Sensitivity Levels of Data

Human Subjects

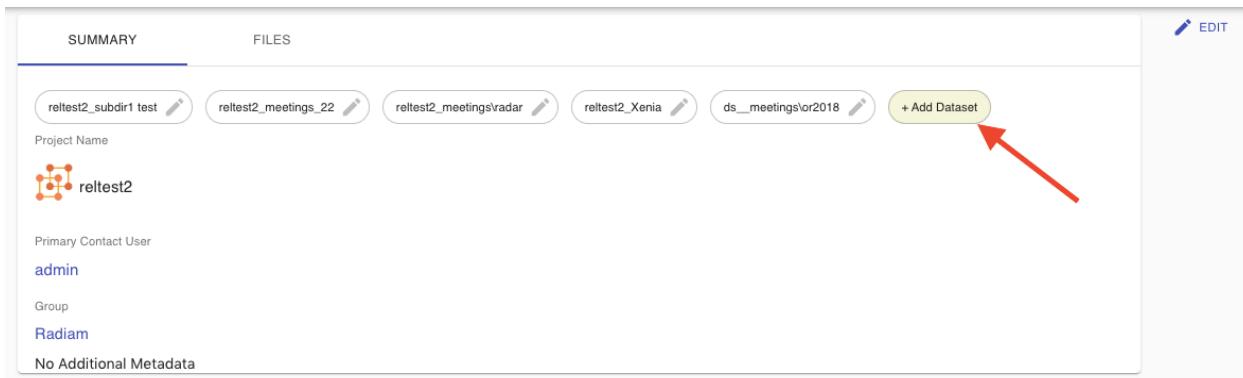
No Additional Metadata

5.9 Datasets

- A Dataset is a portion of a specified Project's Files, usually a single folder of a Project.
 - Data Collection Method, Data Collection Status, Distribution Restriction and Sensitivity Level are foreign keys to those respective tables and exist as filterable fields but serve no other purpose.
 - Like Projects and Locations, Geolocation and Metadata models are optional
- Dataset page displays list of available datasets

Dataset Title ↓	Project	Study Site
reltest2_subdir1 test	 reltest2	
reltest2_meetings_22	 reltest2	
reltest2_meetings\radar	 reltest2	
reltest2_Xenia	 reltest2	
ds_meetings\or2018	 reltest2	

- Dataset can be added by selecting a “Project” through project page as well



The screenshot shows the 'SUMMARY' tab of a project page. At the top, there are five dataset cards: 'reltest2_subdir1 test', 'reltest2_meetings_22', 'reltest2_meetings\radar', 'reltest2_Xenia', and 'ds_meetings\or2018'. To the right of these cards is a yellow button labeled '+ Add Dataset' with a pencil icon. A red arrow points from the bottom right towards this button. Below the cards, the project details are listed: 'Project Name' (reltest2), 'Primary Contact User' (admin), 'Group' (Radium), and 'No Additional Metadata'.

- Click on each Dataset to see the detail view and can be exported to download locally

SUMMARY FILES

Viewing reltest2_subdir1 test

Dataset Title
reltest2_subdir1 test

Project
 reltest2

Data Abstract
within subdir1

Study Site

Search Model Query
{ "bool": { "must": { "wildcard": { "path_parent.keyword": "subdir1*" } }, "filter": { "term": { "location.keyword": "57ecceb3-95b9-4453-849f-691496d0b839" } } }}

Data Collection Status
In Progress

Data Collection Methods
Other

Distribution Restrictions

Requires Governmental Permission

Sensitivity Levels of Data
Human Subjects

No Additional Metadata

EXPORT EDIT

- Click on “Edit” on the top right corner to edit Dataset information

Home
Users
Groups
Group Membership
Locations
Projects
Datasets

SUMMARY FILES

Viewing reltest2_subdir1 test

Dataset Title
reltest2_subdir1 test

Project
 reltest2

Data Abstract

EXPORT EDIT

- Click on “files” will display the files associated with the Dataset

SUMMARY FILES

shoebox Globus Endpoint: c99fd40c-5545-11e7-beb6-22000b9a448b

File Name	File Size	File Path	Last Modified
xenia.config.toml	12.468 KB	Xenia/xenia.config.toml	59 days ago

Search Files

EXPORT EDIT

5.10 View Grants

- A View Grant is a method of giving View Access to a Dataset to a Research Group that does not own the Project.
 - Individual Fields can be specified to give view access on only said fields, in a comma separated format. By default, all fields will be viewable unless certain fields are specified as granted.
 - Expiry Start / End times may also be specified.
 -
- Click on “View Grants” to view the available grants

Group	Dataset	Fields Granted Access	Access Starts At	Expires At
Sediment Group	ds__meetings\or2018		3/25/2020	
Radium	ds__meetings\or2018		3/25/2020	3/31/2020

1-2 of 2

- Click on “Edit” button to edit Grant information

Showing View Grant

Group: Radium

Dataset: ds__meetings\or2018

Access Starts At: 3/25/2020

Expires At: 3/31/2020

Updating View Grant

Group: Radium

Dataset: ds__meetings\or2018

Fields Granted Access

Access Starts At: 2020-03-25

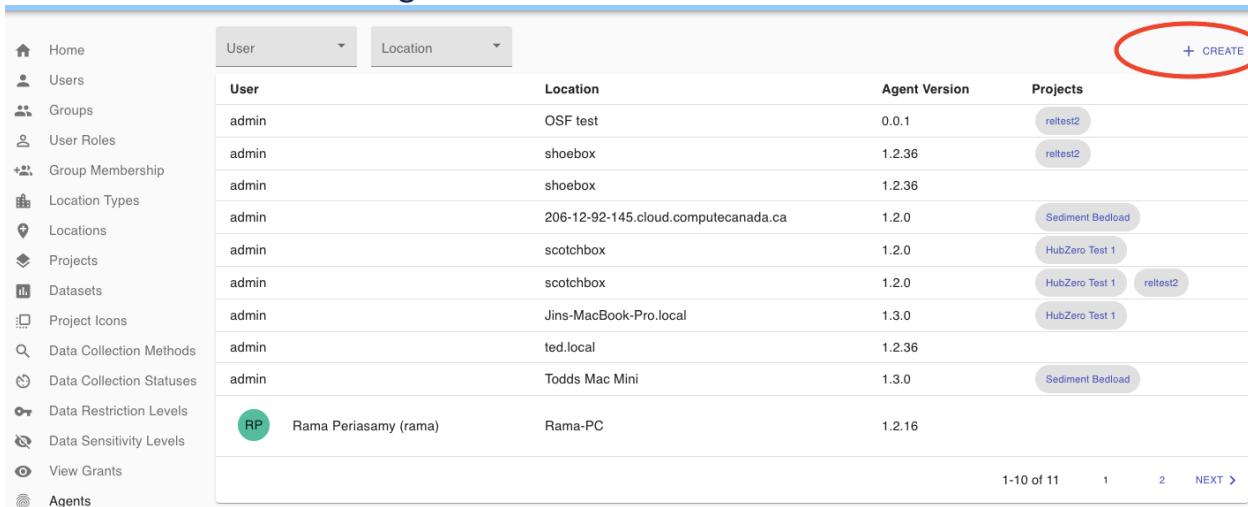
Expires At: 2020-03-31

SAVE DELETE

5.11 Agents

- An Agent is the API's record of a File Crawler. There are two types:
 - An OSF Agent or Web Agent is an Agent created and modified via the Web GUI.
 - This Agent type exists in order to manage data from some online source, in this case, OSF. Currently, the Location of this type of Agent must be set to a Location using the Location Type OSF Project.
 - A new Web Agent will require a Username and Token for the connecting remote platform
 - A Radium Agent or Non-OSF Agent is any Agent type that is not an OSF Agent. These Agents should not be modified via the GUI, and appear there only for information display purposes. The API record for said Agents come directly from the Configuration file of the Radium Agent on its host system

- Click “create” OSF agent



User	Location	Agent Version	Projects
admin	OSF test	0.0.1	reltest2
admin	shoebox	1.2.36	reltest2
admin	shoebox	1.2.36	
admin	206-12-92-145.cloud.computeCanada.ca	1.2.0	Sediment Bedload
admin	scotchbox	1.2.0	HubZero Test 1
admin	scotchbox	1.2.0	HubZero Test 1 reltest2
admin	Jins-MacBook-Pro.local	1.3.0	HubZero Test 1
admin	ted.local	1.2.36	
admin	Todds Mac Mini	1.3.0	Sediment Bedload
RP Rama Periasamy (rama)	Rama-PC	1.2.16	

- Creating OSF agent and, configuration in detail can be found at the below link:
<https://radiam.readthedocs.io/en/latest/>

The screenshot shows the Radium User Interface. On the left, there is a sidebar with the following menu items:

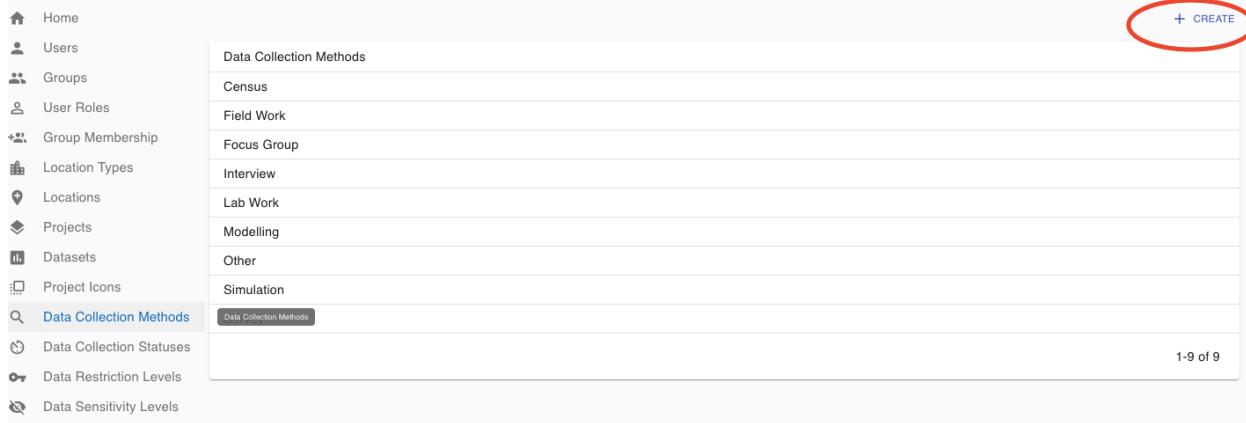
- Home
- Users
- Groups
- User Roles
- Group Membership
- Location Types
- Locations
- Projects
- Datasets
- Project Icons
- Data Collection Methods
- Data Collection Statuses
- Data Restriction Levels
- Data Sensitivity Levels
- View Grants
- Agents

The main content area is titled "Creating Agent". It contains the following fields:

- A dropdown menu set to "User" with a "▼" icon.
- A dropdown menu set to "Location" with a "▼" icon.
- A "Project config list" section with a "+ ADD" button.
- A field labeled "Remote Username *".
- A field labeled "Remote Token *".
- A field labeled "Agent Version" with the value "0.0.1".
- An "Active?" toggle switch, which is currently active (blue).
- A blue "SAVE" button with a disk icon.

5.12 Data Collection Methods

- This field exists only to Label and Filter Datasets.
- New Data collection methods can be created only by System admin

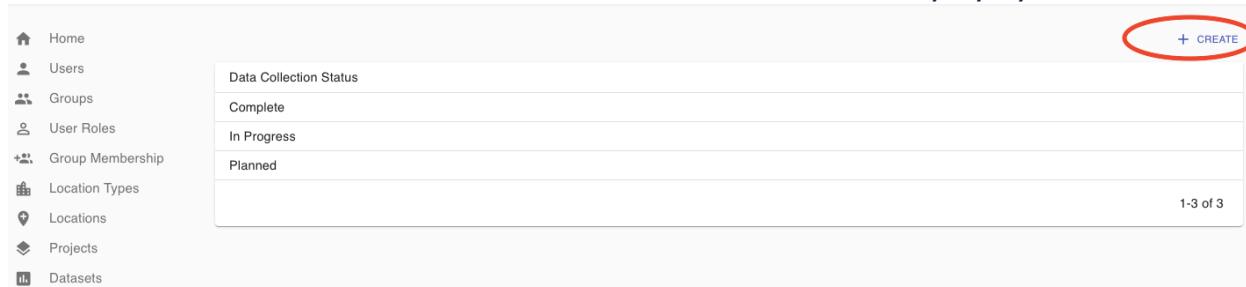


Home
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Group Membership
Location Types
Locations
Projects
Datasets
Project Icons
Data Collection Methods
Data Collection Statuses
Data Restriction Levels
Data Sensitivity Levels

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5.13 Data Collection Statuses

- This field exists only to Label and Filter Datasets.
- New Data Collection Statuses can be created only by System admin



Home
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User Roles
Group Membership
Location Types
Locations
Projects
Datasets
Data Collection Status

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5.14 Distribution Restriction Levels

- This field exists only to Label and Filter Datasets.
- New Distribution Restriction Levels can be created only by System admin



Home
Users
Groups
User Roles
Group Membership
Location Types
Locations
Projects
Datasets
Project Icons
Distribution Restriction

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5.15 Sensitivity Levels

- This field exists only to Label and Filter Datasets.
- New Sensitivity Levels can only be created by System admin

Home	
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Group Membership	
Location Types	
Locations	
Projects	
Datasets	
Project Icons	
Data Collection Methods	

[+ CREATE](#)

Sensitivity Levels
Government Partnership
Harm to Public
Human Subjects
Industry Partnership
Intellectual Property
None
Pre-Existing

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