

RosettaHUB

towards a global hub for reproducible and collaborative open data science

Villetaneuse

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What is RosettaHUB?

- The RosettaHUB platform and hub connects the dots between **clouds, containers, research software, real-time collaboration frameworks** and **social portals**.
- It delivers a **virtual environment**, an **API** and a **marketplace** that foster **usability, reproducibility, shareability** and **auditability** at all layers of interactions between scientists and the research tools and infrastructures.

aws educate



Institutions

Provide educators and students with resources for cloud-related learning. Those at member institutions receive twice as many AWS credits, demos and special on-campus programs.

[Apply for AWS Educate for Institutions »](#)

[Already a Member?](#)

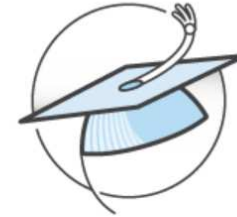


Educators

Professors, teaching assistants, and educators receive access to AWS technology, open source content for their courses, training resources, and a community of cloud evangelists.

[Apply for AWS Educate for Educators »](#)

[Already a Member?](#)



Students

Students receive credits for hands-on experience with AWS technology, training, content, career pathways, and job board.

[Apply for AWS Educate for Students »](#)

[Already a Member? Check your welcome email.](#)

The RosettaHUB/AWS Educate initiative

> **40** higher education institutions and research Labs

> **4000** researchers, educators and students

~ **500 000** USD credits from Amazon, renewable every year

Access to the full spectrum of AWS cloud computing, big data, machine learning and IoT Services

RosettaHUB / AWS Educate

rosettaHUB Federation Console | cpcoc.insat

User Details
 CPOC at INSAT
 Account **enabled**
Resources
 Machines Running: 0 Stopped: 0
 Volumes: 0 GB Snapshots: 8 GB
 Updated on Mar 19, 2017 2:50:53 PM
Budget
 Spent: \$15.35 Remaining: \$184.61
 Updated on Mar 19, 2017 1:45:28 PM
 Budget: \$200

Monthly Spending

Month	Spending
Previous	~15
Current	~15

Share Budget With
 Choose Transfer Recipient

Institution Details
 Institut National des Sciences Appliquées et de Technologie
 Account **enabled** Educators: 29 Students: 288
Resources
 Machines Running: 3 Stopped: 30
 Volumes: 962 GB Snapshots: 54 GB
 Updated on Mar 19, 2017 2:50:53 PM
Budget
 Spent: \$267.85 Remaining: \$28282.15
 Updated on Mar 19, 2017 1:45:28 PM
 Total Budget: \$28500 Overclocking \$0

Monthly Spending

Month	Spending
Previous	~100
Current	~100

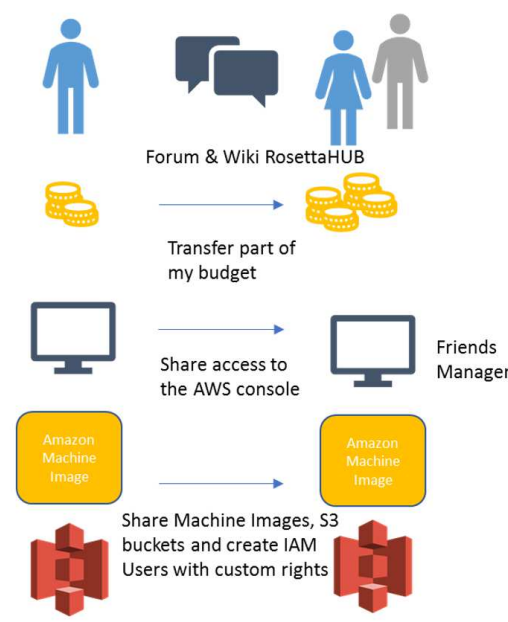
AWS Interactive Access
 Go To Aws Console
 1x New Tab (Please enable popup windows)

AWS 1-Click Access
 Show 1-Click Tokens

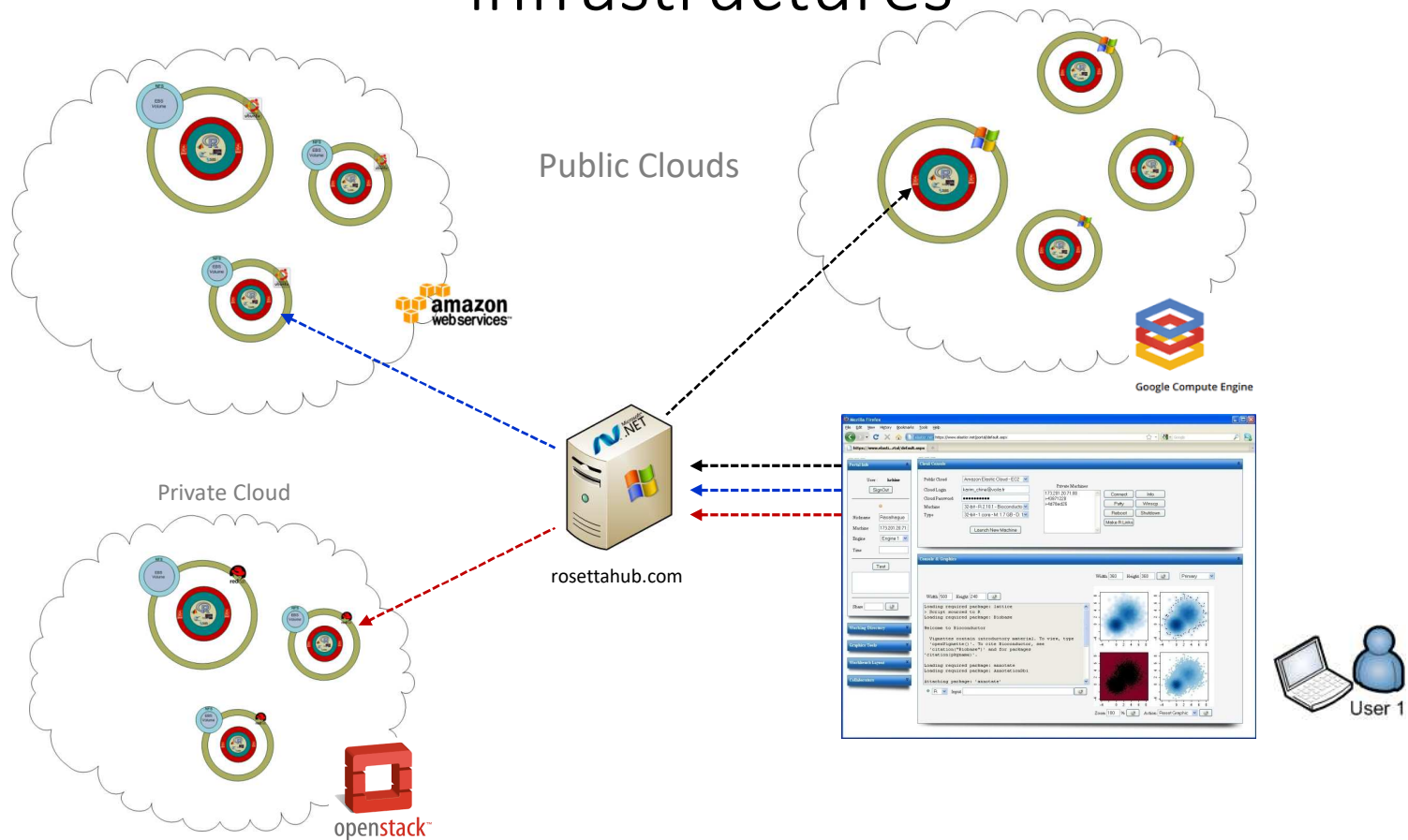
AWS Programmatic Access
 Show AWS Apl Keys

Share Access With
 Group: I1&F Console:
 Session Duration: 3600 sec.

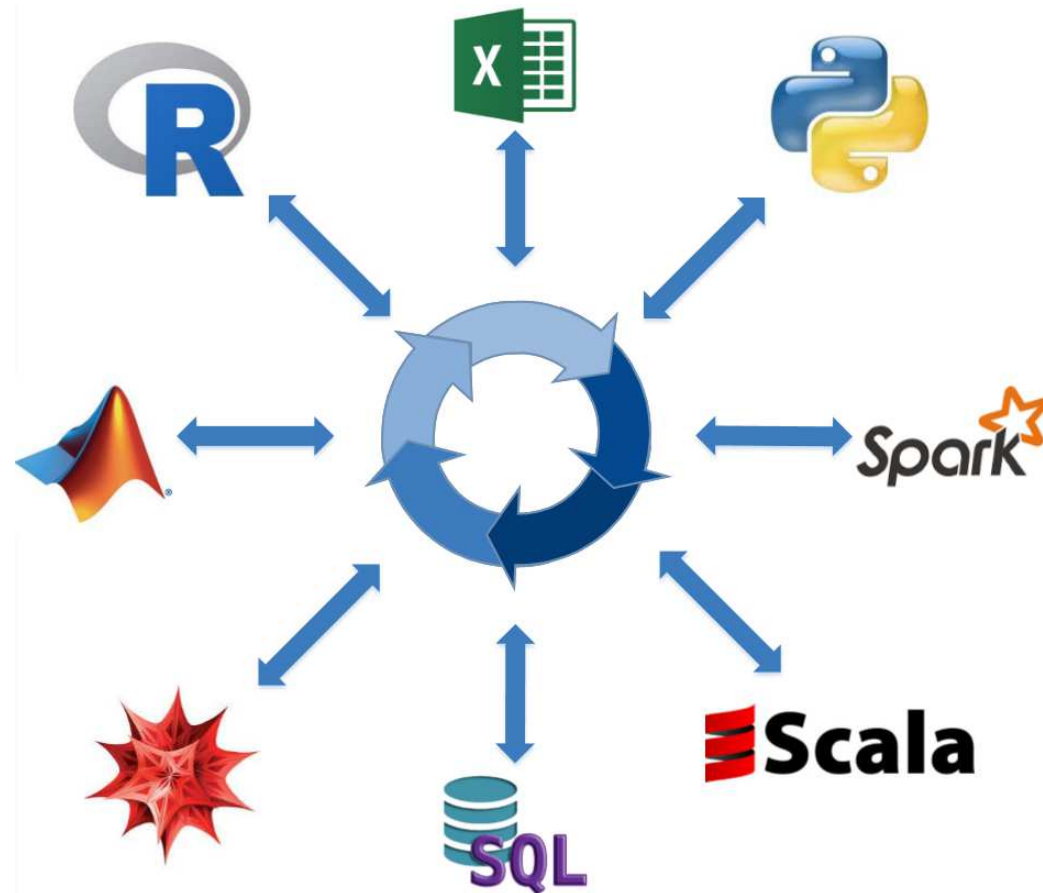
AWS Safeguards
 Autostop Idle Machines:
 Stop After: 170 minutes Without Activity
 Change Autostop Timeout



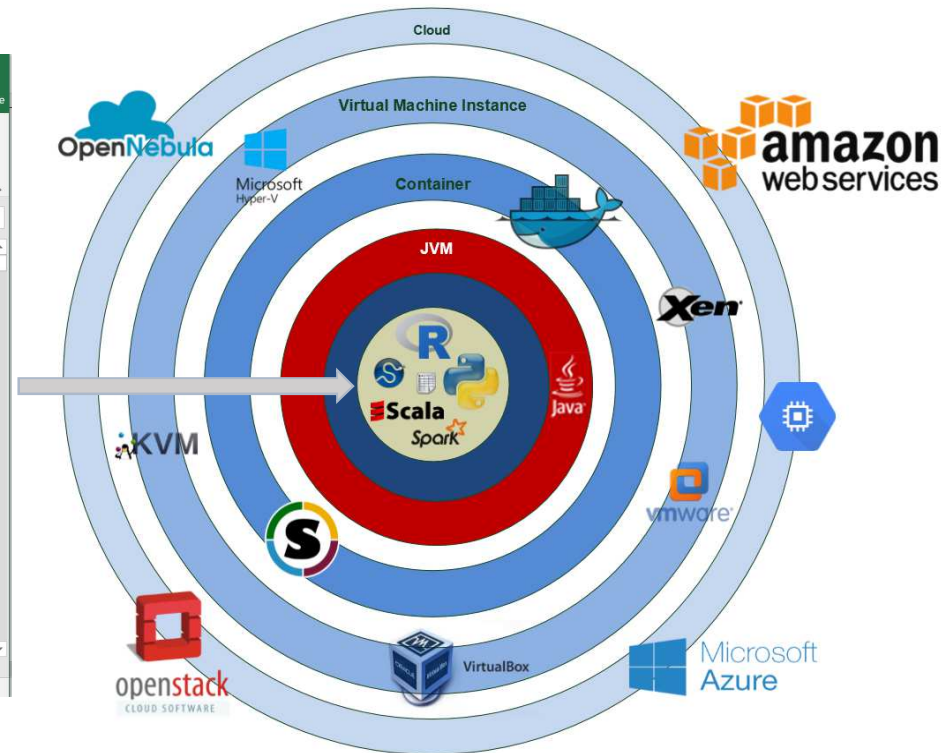
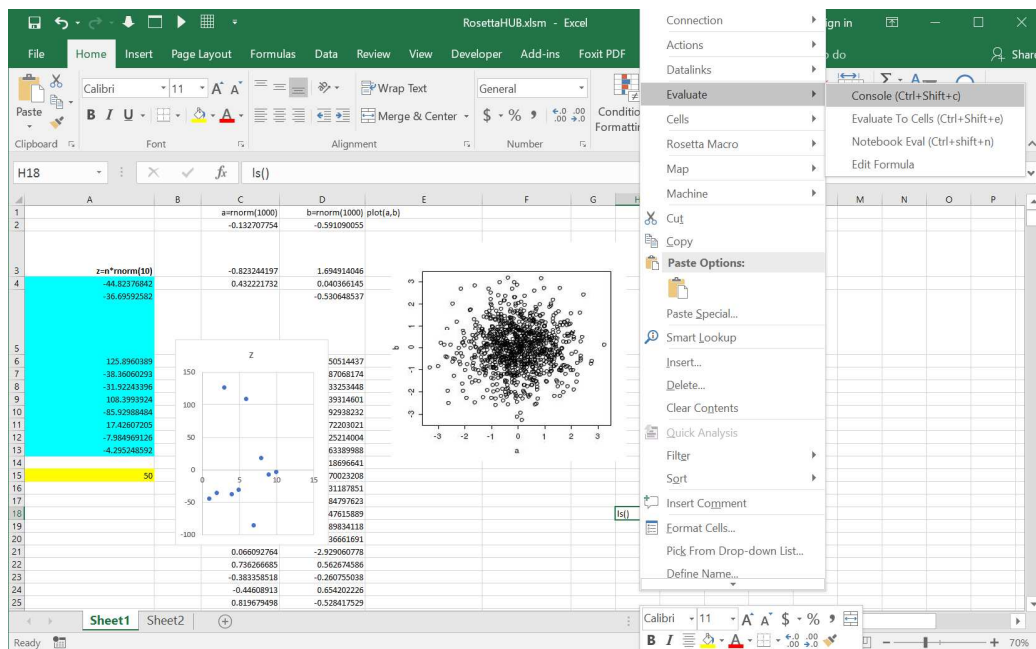
Usability: meta cloud and converged infrastructures



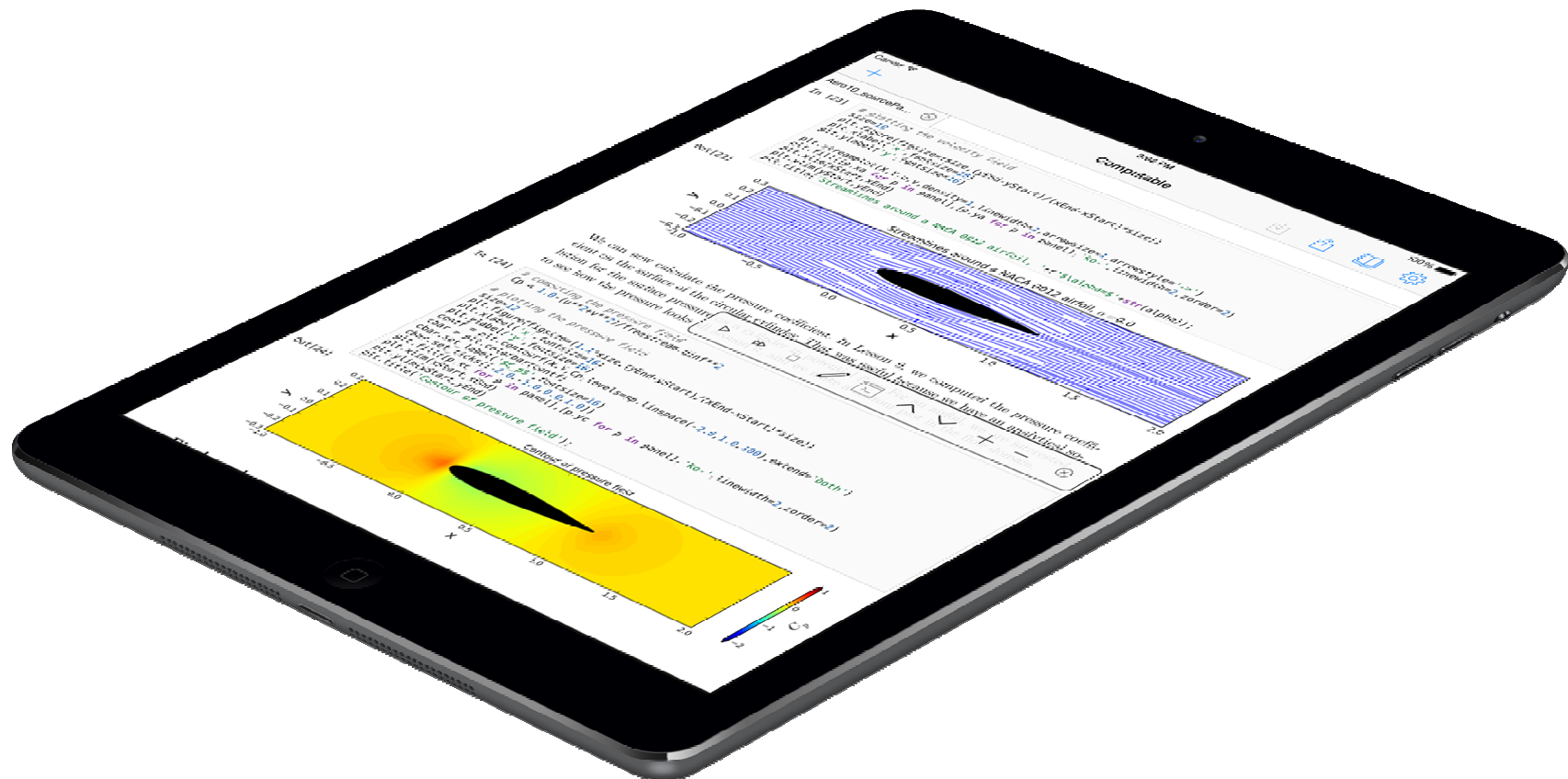
Usability: meta kernels and converged computing environments



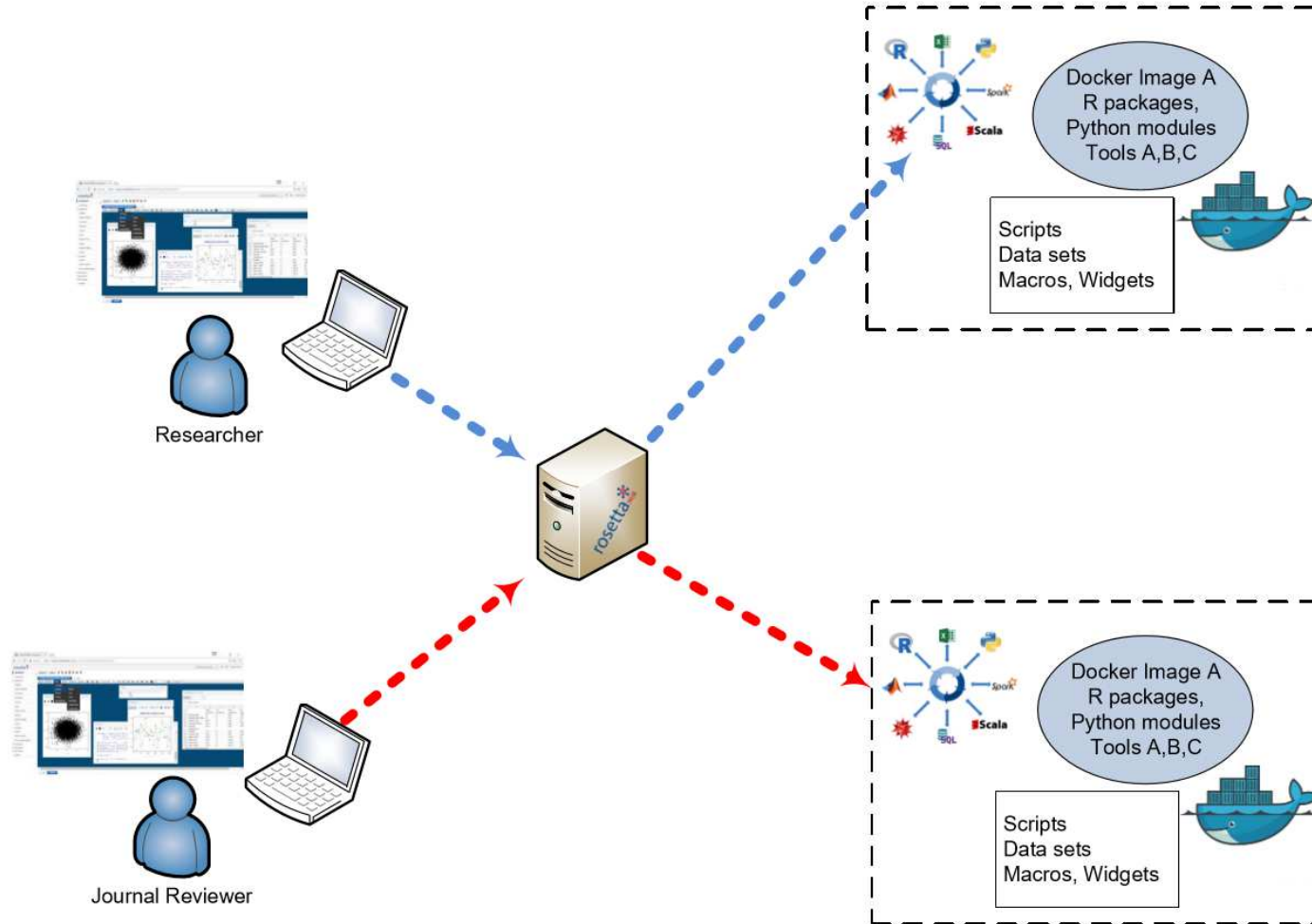
Usability: Take the compute to the data, remote control from the desktop tools



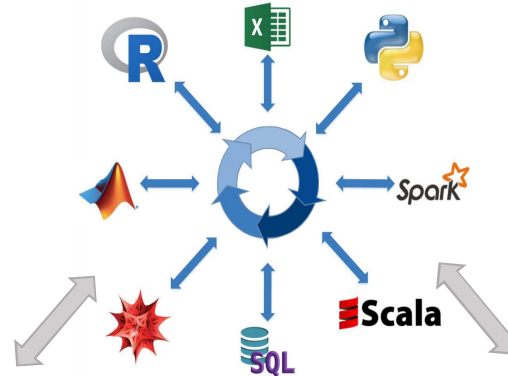
Usability: Mobile-centric architectures and interaction design, Data Science on the iPad



Reproducibility, Docker, Singularity & converged CloudFormation



Shareability, Everything-as-a-URL & ubiquitous real-time-collaboration

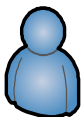


Screenshot of the RosettaHub management console showing a workbench with a scatter plot, a line chart, and a data table.

F1	A	B	C	D	hp
1	mpg (numeric)	cyl (numeric)	disp (numeric)	hp (num)	
2	Mazda RX4	21	6	160	110
3	Mazda RX4 Wag	21	6	160	110
4	Datsun 710	22.8	4	108	93
5	Hornet 4 Drive	21.4	6	258	110
6	Hornet Sportabout	18.7	8	300	175
7	Valiant	18.1	6	225	105
8	Duster 300	14.3	8	360	245
9	Merc 240D	24.4	4	149.7	92
10	Merc 230	22.8	4	140.8	95
11	Merc 280	19.2	6	167.6	123
12	Merc 280C	17.8	6	167.6	123

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Shareability,

A democratic marketplace for data science apps

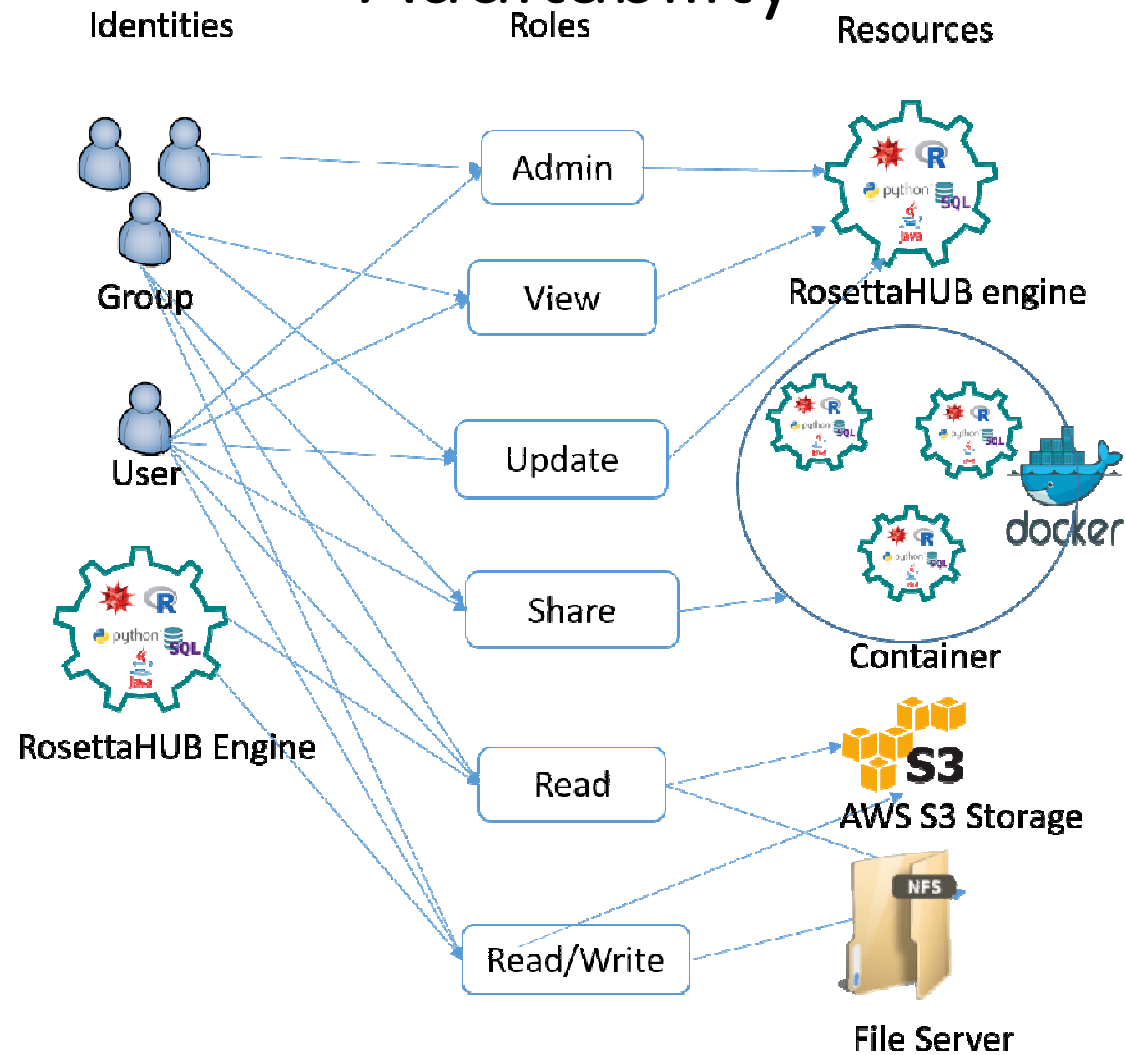
Towards an “ebay of scientific apps and analytics”

Shareability,

A democratic marketplace for self-run containers-centric clouds

Towards an “airbnb of containers”

Auditability



<http://www.rosettahub.com>

Join as a student/educator

<http://edu.rosettahub.com>

Join as an institution

<http://bit.ly/rh-join>