

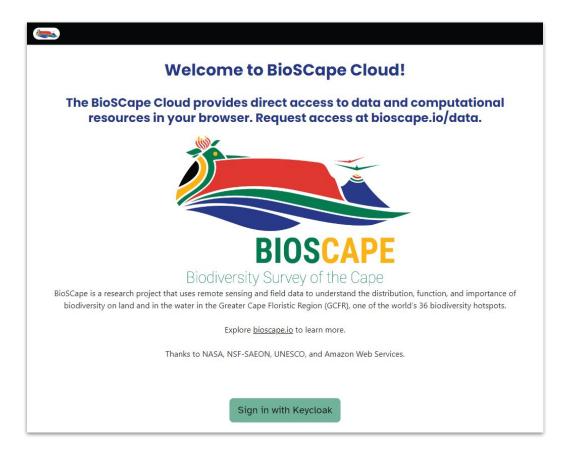
The BioSCape Cloud Michele Thornton



BioSCape Cloud

Topics

- What is the SMCE
- What is JupyterHub
- What is GitHub
- Questions



NASA SMCE - Science Managed Cloud Environment

- NASA program that provides cloud computing access to speed up scientific research
- Great for Collaboration !!
 - Encourages collaboration by making it easy for projects to share data and resources
- Lowers barriers
- Available in Amazon's AWS or Microsoft's Azure Public Cloud offerings
- Organized by projects like BioSCape!!

NASA SMCE - Science Managed Cloud Environment











- Data are free and available
 - Can access openly with NASA data services and tools (direct download, subsetting, transformation services)
- For Compute and Code next to the data
- Create AWS account
- Manage set-up and cost
- Required login and credentials to data access/storage

What is JupyterHub

- A web-based application
- Enables remote access to Jupyter Notebooks
- Allows multiple users to access Jupyter Notebook or Jupyter Lab environments and resources
- Manages a separate Jupyter environment for each user



What is GitHub

Git - an open-source version control system for programmers

GitHub - a cloud-based platform that allows developers to store, share, and collaborate on code

BioSCape Workshop -

We'll clone python Notebooks from a GitHub repository



BioSCape Cloud - Solution for Access





















RStudio [/]