

ESA Data Core Services and Features ESA Datalabs 2022 Workshop 24th November 2022

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EDISGFT

DEFENCE & AEROSPACE TECHNOLOGIES

Overview



ESA Datalabs Core Services – former SEPP (Multi-mission Science Exploitation and Preservation Platform) – system capable of supporting the exploitation and preservation of multi-mission scientific data and products, eradicating the need to have custom vertical solutions for each mission.

Team: EDISOFT S.A. and UNINOVA

Supported by: ESAC people and the Early Users Group



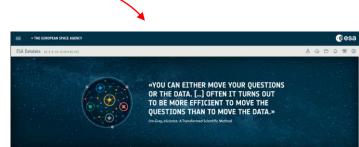
Advantages of using ESA Datalabs



ESA Datalabs (http://datalabs.esa.int) is accessible from every place – only a Web Browser and a Cosmos account are required









































Advantages of using ESA Datalabs



Installation of working tools not needed – most used tools available



Mounting of user data volumes supported (currently only NFS protocol is supported)





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Advantages of using ESA Datalabs



Automatic mounting of user data volumes (expected soon)

Automatic mounting of system data volumes (currently only NFS protocol)

Easy access to legacy data

No need to take care about computational resources – managed by ESA datalabs teams

Collaborative work features supported – team work area implemented



























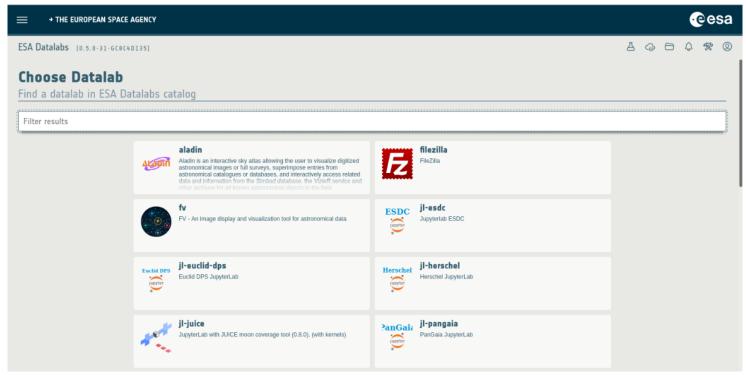


ESA DATALABS FEATURES



ESA Datalabs Features - Datalabs

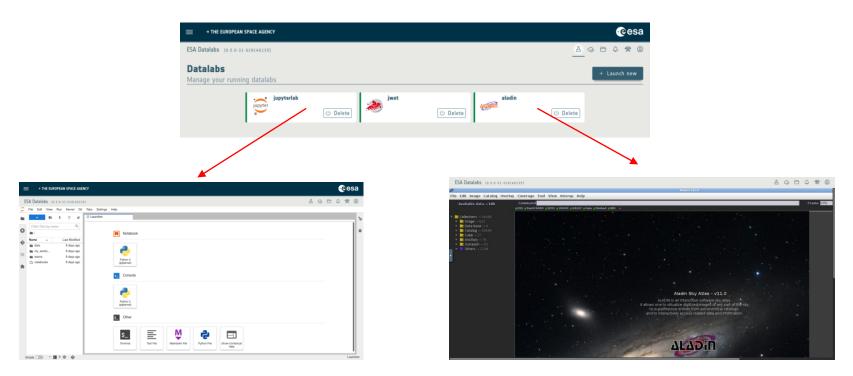






ESA Datalabs Features – Datalabs

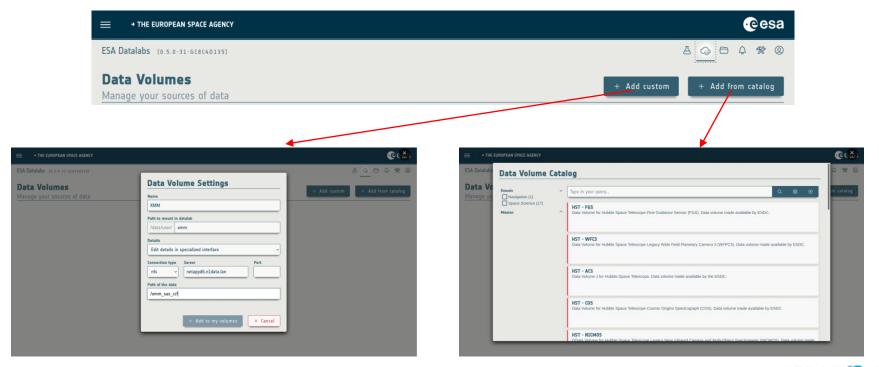






ESA Datalabs Features – Data Volumes



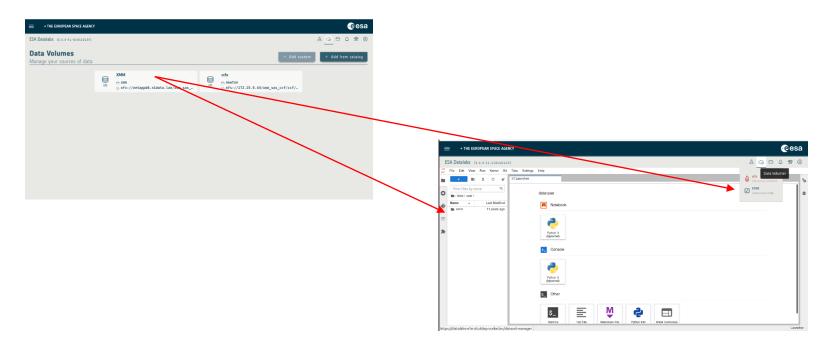


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ESA Datalabs Features – Data Volumes

























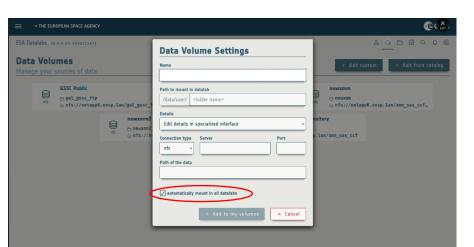




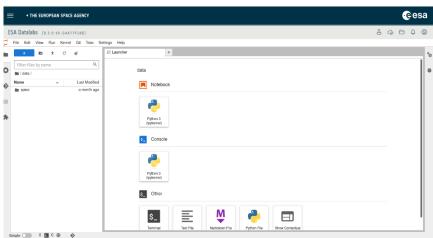
ESA Datalabs Features – Data Volumes



User Volumes Auto-mount

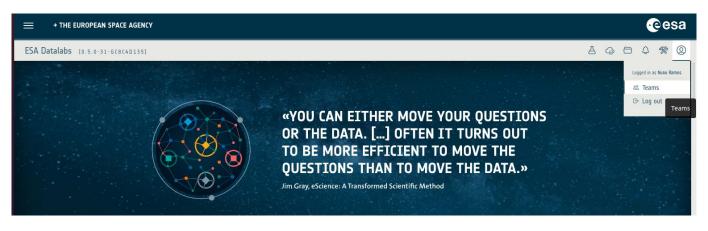


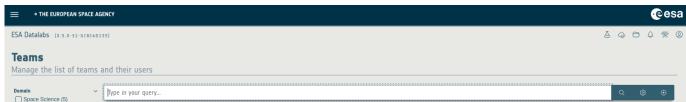
System Volumes Auto-mount







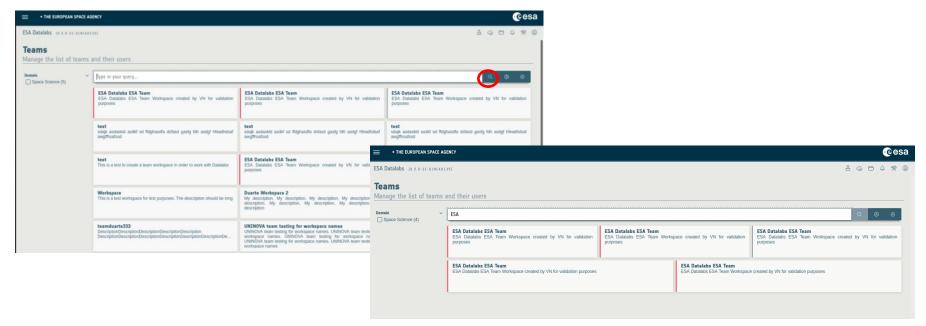








Search for a team (using keyword)





Nuno Ramos | 24/11/2022 | Slide 13

























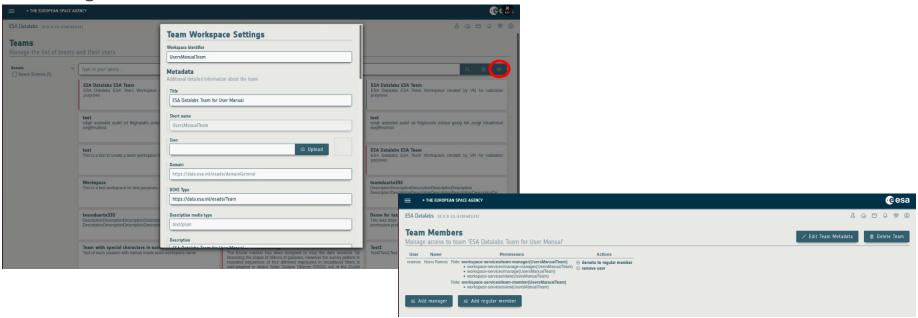








Creating a new team





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rpedro01. Ricardo Pedrosa. Role: workspace-services/team-member(UsersManualTeam) & promote to manager

• workspace-services/view(UsersManualTeam) (i) remnate maser

& Add manager & Add regular memb



Adding a team member esa A @ D Q % @ ESA Datalabs (0.5.0-31-608040135) Team Members f Delete Team Manage access to team 'ESA Datalabs Team for User Manual' nramos Nuno Ramos Role: workspace-services/team-manager(UsersManualTeam)
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 workspace-services/manager(UsersManualTeam) remove user workspace-services/view(UsersManualTeam) Role: workspace-services/team-member(UsersManualTeam) Users Users Ricardo User Full Name Ricardo Pedrosa pedro01 Full Name Ricardo Valles (Z) : dquintel Duarte Quintela Cesa * THE EUROPEAN SPACE AGENCY ESA Datalabs (0.5.6-31-000040135) 8 9 0 0 9 0 × Cancel × Cancel Team Members / Edit Team Metadata @ Delete Team Manage access to team 'ESA Datalabs Team for User Manual' dquistell Duaris Quintell Ride: workspace-services/baam-manaper(Deer/Shana/Feam) © demote to regular member
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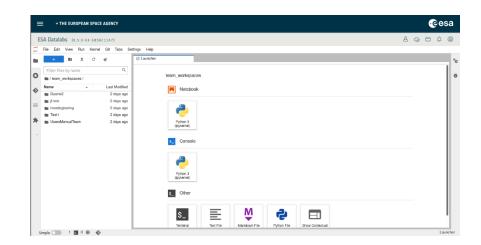
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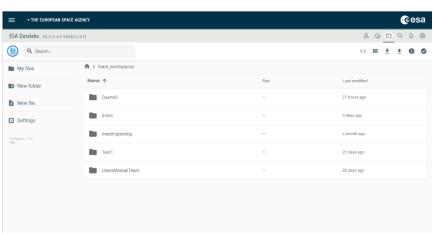
ESA Datalabs Features – Workspaces



JupyterLab









































WHY CORE SERVICES





















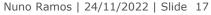












ESA Datalabs: Why Core Services?



Provides common infrastructure for other services or applications like

- Data Discovery Portal (ESA's data holdings assets discovery and access)
- PIPEMAN (ESA Datalabs pipelines management system)
- SCI-APPS (Science App Store)















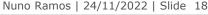














9:30 - 10:15
ESA Datalabs - Core Services: Hands-On Session

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