EuroHPC Joint Undertaking

Federation Platform

https://my-eurohpc.eu

EFP Features Showcase

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VSB TECHNICAL UNIVERSITY OF OSTRAVA | IT4INNOVATIONS NATIONAL SUPERCOMPUTING CENTER

CSC ICT Solutions for Brilliant Minds

GHENT UNIVERSITY

NORDUnet Nordic Gateway for Research & Education

GÉANT Networks • Services • People

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The EuroHPC Federation Platform (EFP)

"A one-stop-shop for accessing and utilizing EuroHPC systems and services"

A platform and federation framework which provides **a streamlined, single point of onboarding** and via which user can **access all systems and services** available to them in the EuroHPC ecosystem.

Direct access | Interactive interfaces | Programmatic APIs | Unified software stack

EuroHPC Joint Undertaking

Federation Platform

EFP Main Features



Federated identity and Single-Sign-On (SSO)

Users utilize the same login and identity (e.g. granted via their home institution or national identity provider) to authenticate to all services and systems. Process for onboarding Industry.



Resource allocation, management and monitoring across systems

Users can view and manage their allocations and project members across all systems using a single interface.



Interactive web-based usage

with e.g., remote desktop, command line, AI training monitoring and Jupiter notebooks. Ability to launch batch jobs and browse files on the supercomputers.



Federated software catalogue

providing a pre-installed pseudo-uniform software stack on all systems. Advanced discoverability features for available software.



Advanced workflows and data transfer

Workflow execution and data transfers across systems, along with smart scheduling capabilities and high-level graphical interfaces for creating and managing workflows.



Direct access utilizing SSH certificates

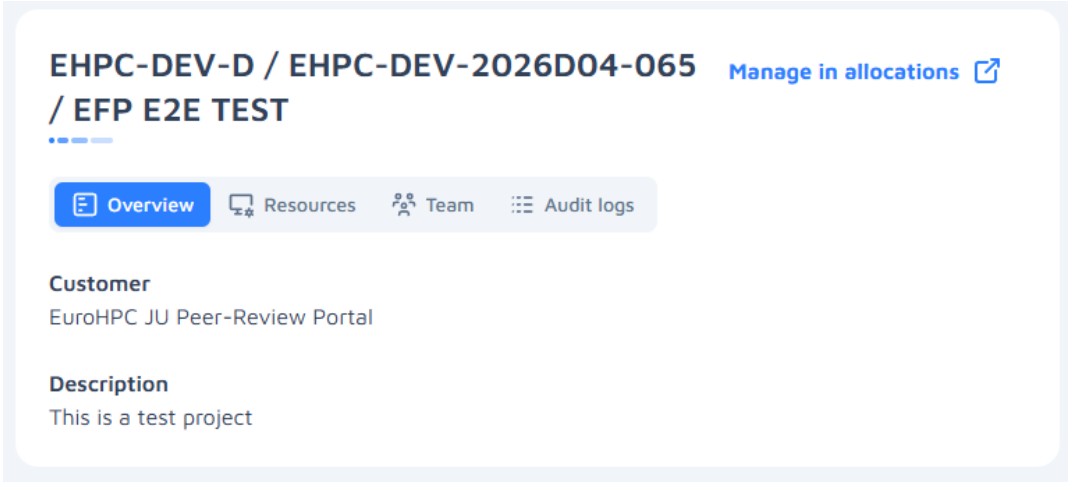
Short lived certificates which are obtained via a login flow with Multi-Factor Authentication (MFA) for increased security.

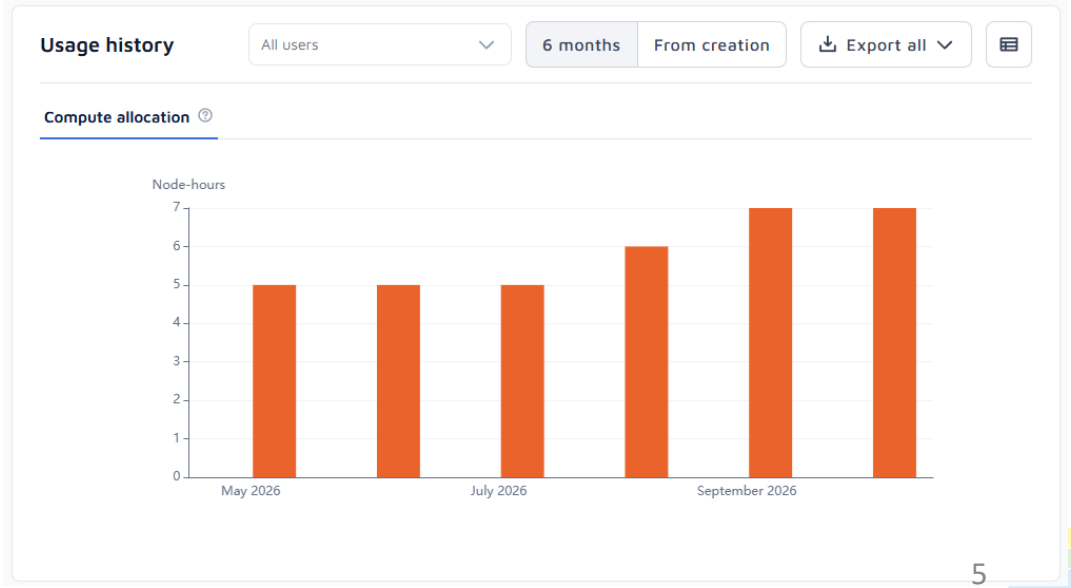
Live demo

https://my-eurohpc.eu/

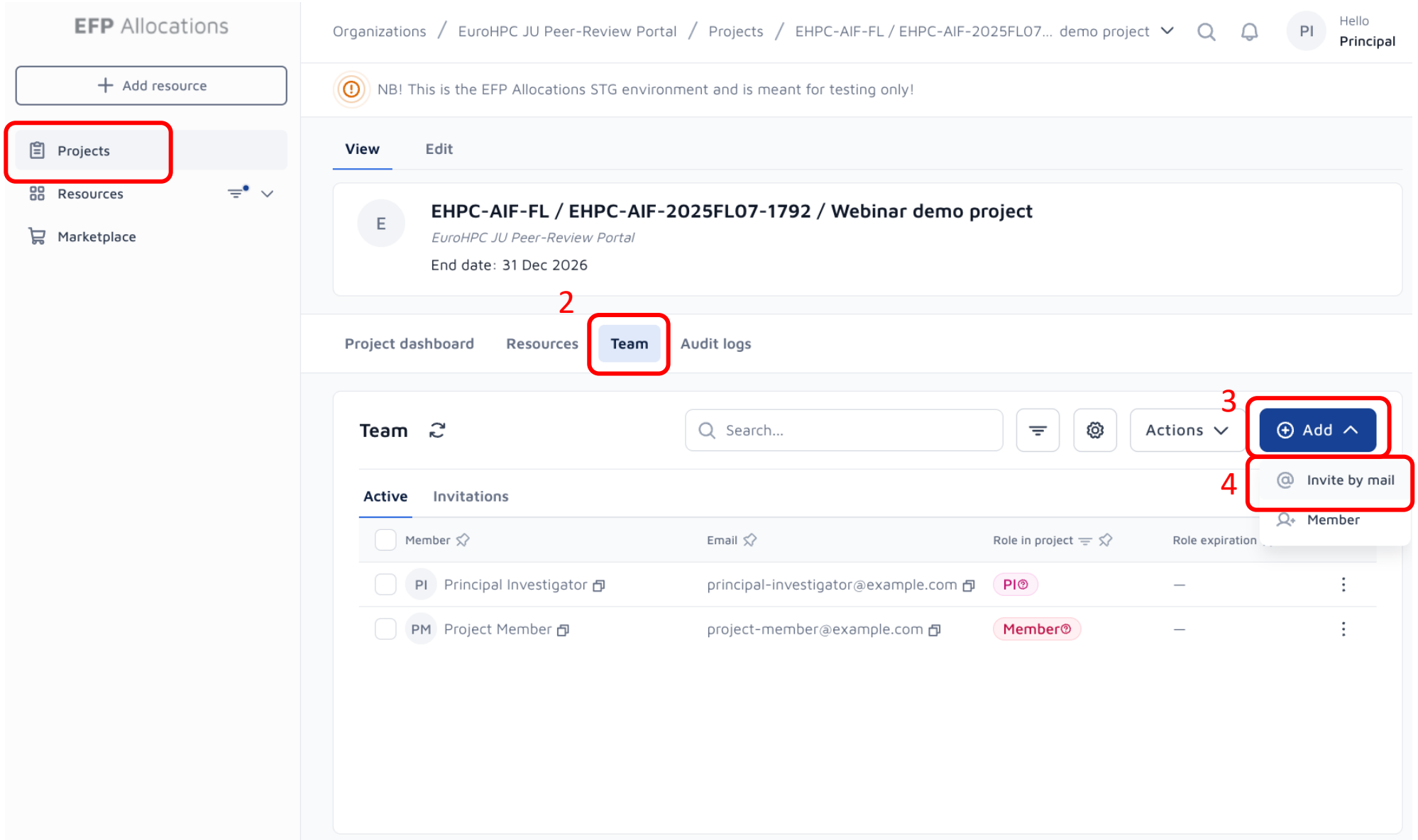
Projects

- Basic overview under MyEuroHPC
- Usage, membership management, etc., available in Allocations app
- https://my-eurohpc.eu/projects
  - https://allocations.my-eurohpc.eu/projects/



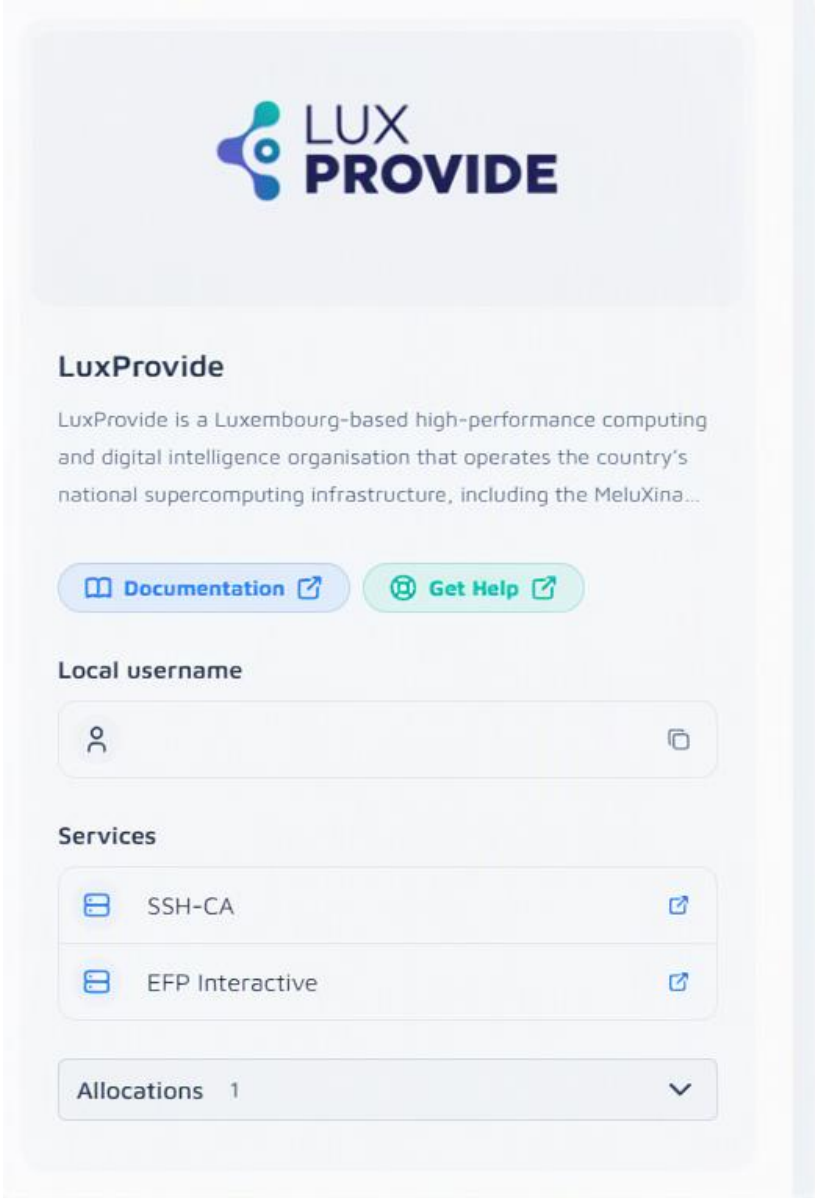


Membership management



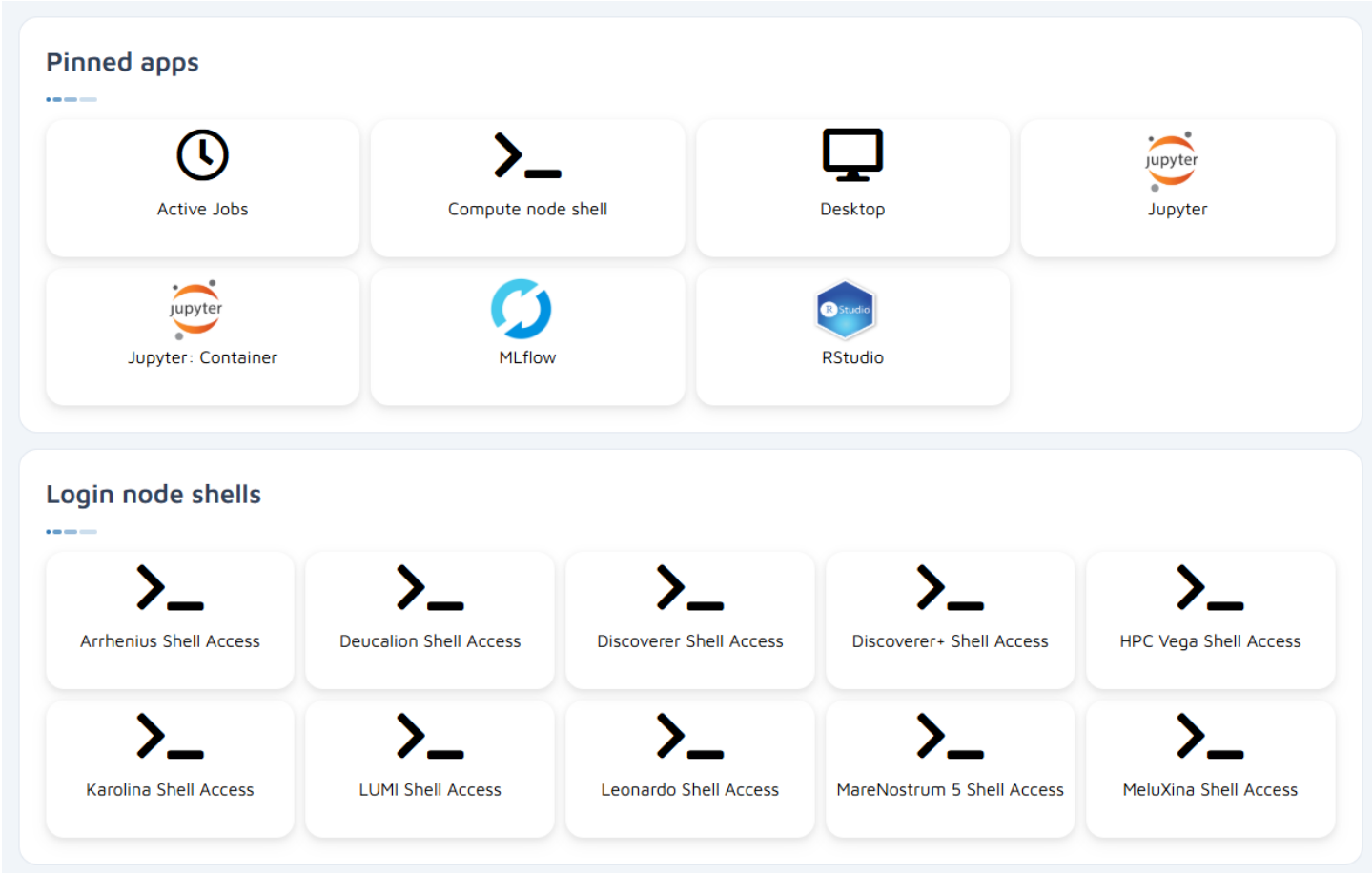
Direct Access

- Contains cards for the resources you have access to
- Direct links to in-browser login node
- Link to SSH-CA facilitating SSH access
- https://my-eurohpc.eu/direct-access
  - https://sshca.my-eurohpc.eu/ (more on this later!)



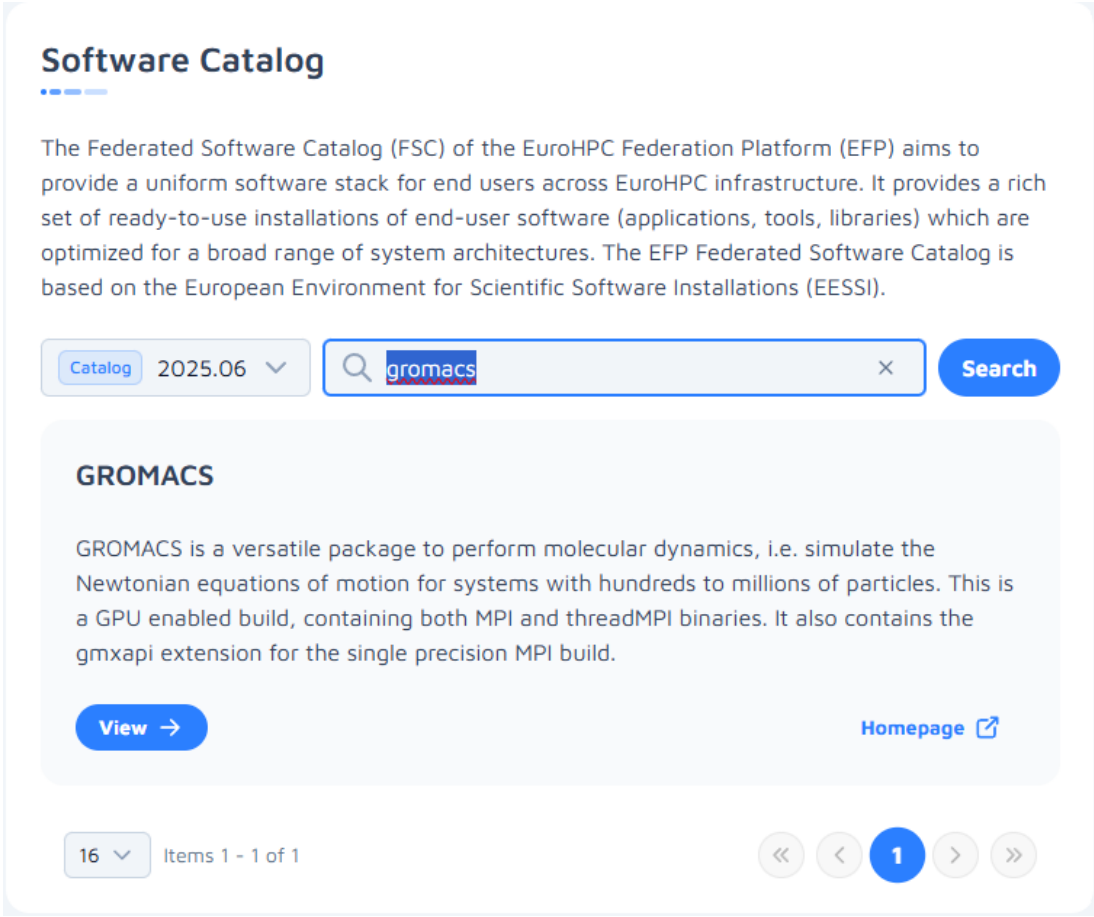
Interactive

- Login node shells
- Compute node shells
- Apps (including Desktop)
- https://my-eurohpc.eu/interactive
  - https://interactive.my-eurohpc.eu/



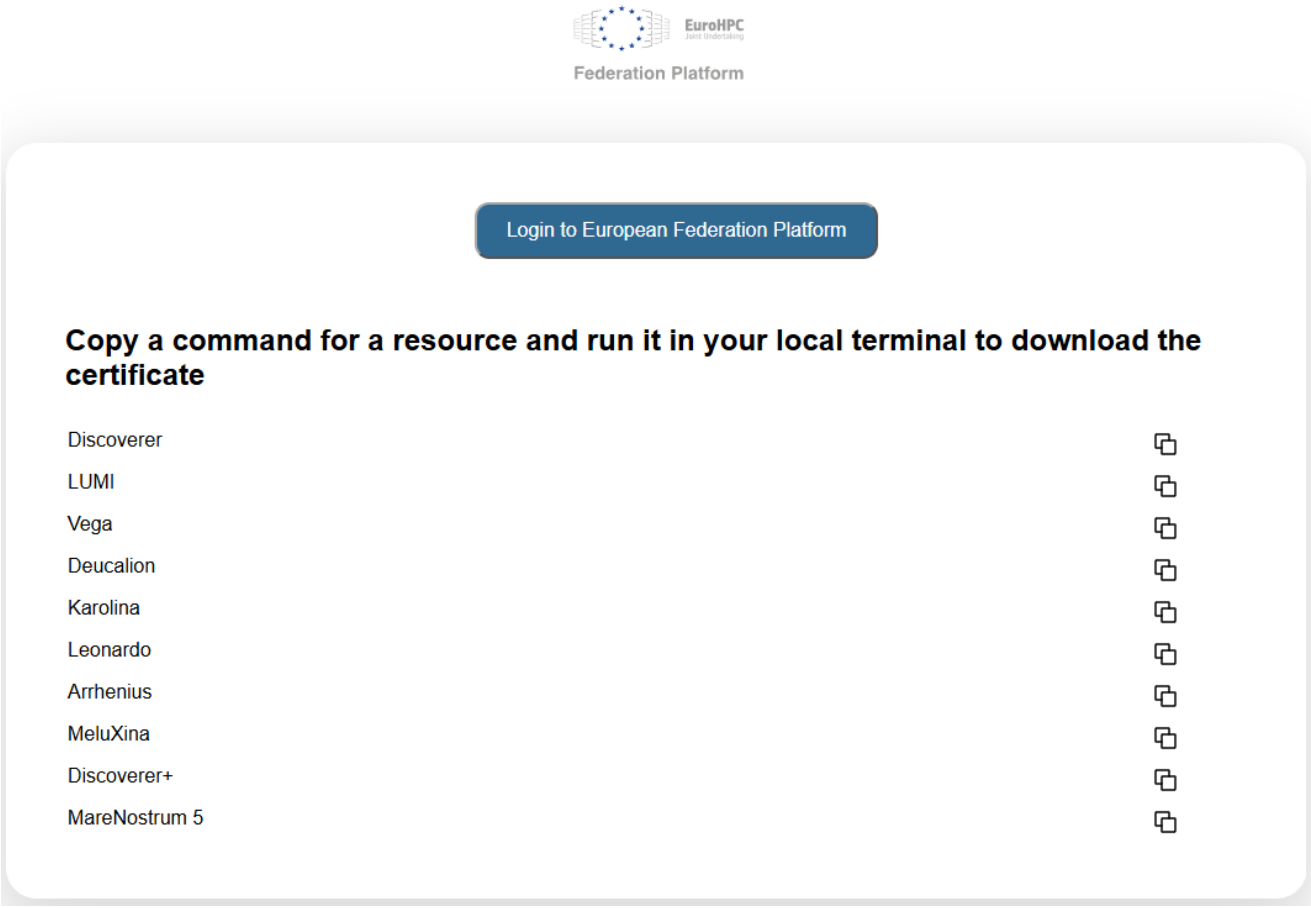
Software Catalog

- Curated software catalog powered by EESSI **available on all EuroHPC systems**
- Aim is to never compromise performance for portability
- Powers apps of Interactive
- Access mechanism can vary by site, see documentation
- https://my-eurohpc.eu/software-catalog



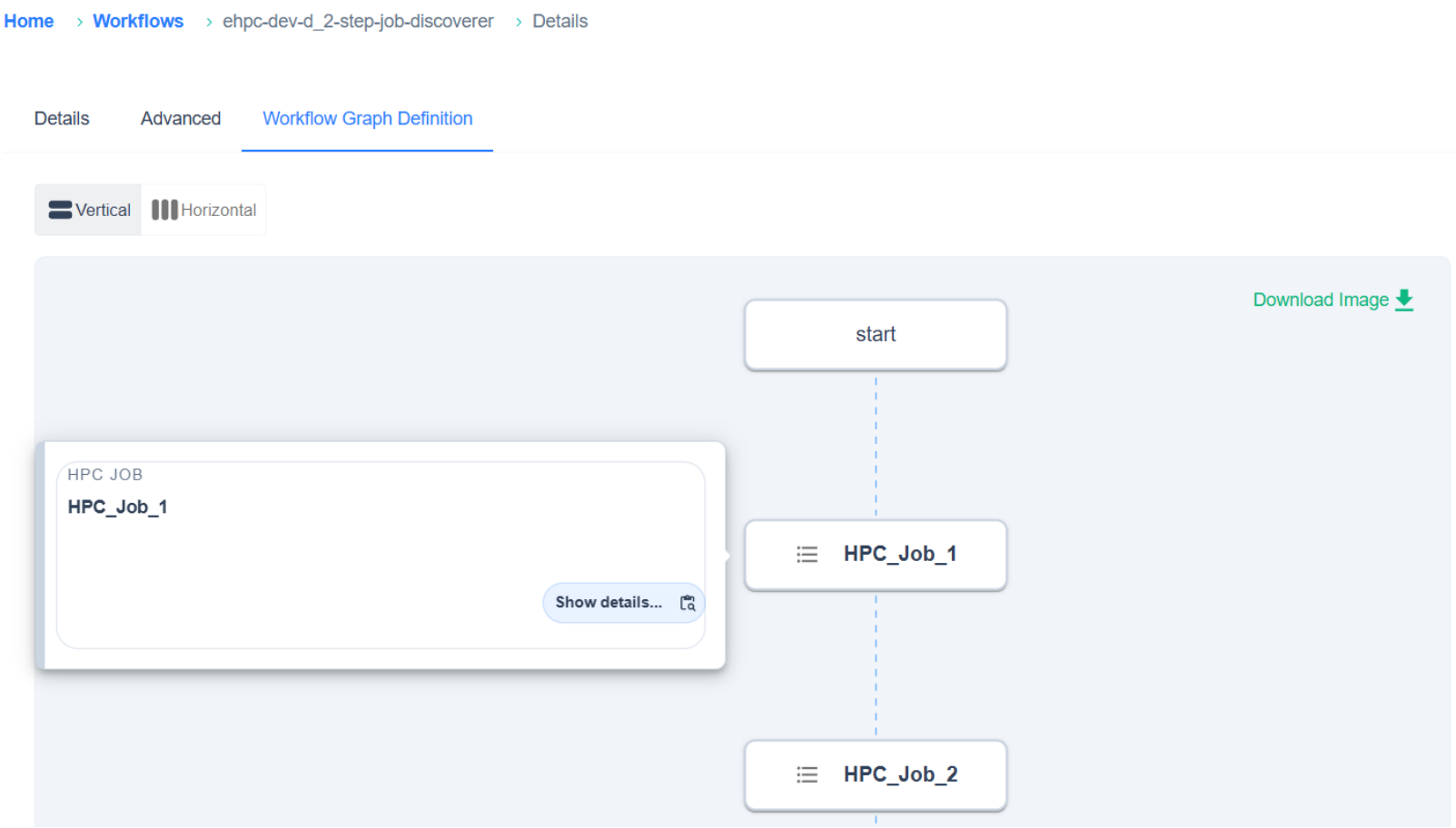
Direct SSH

- Provides a token and command to allow you to get a valid ssh certificate
- Cert can then be used to ssh to target resource
- Certificate has 10 hour validity
- Same mechanism for all resources
- https://sshca.my-eurohpc.eu/



Workflows

- Run your job scripts, containers or use a local workflow (e.g. CWL, HyperQueue) from a web interface
- Use your EuroHPC allocations across multiple systems from a single place
- Automated **data staging** to job's execution directory and straightforward dataset management
- Define and run custom workflows across multiple systems using visual workflow builder and YAML syntax
- Python CLI and API access included
- https://my-eurohpc.eu/workflows
  - https://workflows.my-eurohpc.eu/



EFP webinars

Initial series of 5 webinars introduction the EuroHPC Federation Platform (Feb-June 2026) - **Recordings are available: https://docs.my-eurohpc.eu/training**

New series of webinars scheduled for October 2026:

Mon 5 Oct 2026, 14:00 CEST — **Introduction to the EuroHPC Federation Platform (EFP)**
*speaker: Alberto Lanzanova (CSC - IT Center for Science) – **RECORDING AVAILABLE***

Mon 12 Oct 2026, 14:00 CEST — **Getting Started with EFP: Registration and On-Boarding**
*speakers: Josh Howlett (GÉANT), Ahti Saar (University of Tartu) – **RECORDING AVAILABLE***

Mon 19 Oct 2026, 14:00 CEST — **EFP Features Showcase: Managing projects, direct SSH, federated software catalog, interactive web interface**
speaker: Alan O'Cais (Ghent University)

Mon 25 October 2026, 14:00 CET — **EFP Workflows: use cases**
speaker: Martin Golasowski (IT4Innovations)

Scan for more information on the EFP webinars!