

Task 3.3. Build an European-wide network of Pulsar sites

Description

Each partner in this task will provide and maintain a collection of compute resources, accessible via Pulsar endpoints. Each site will integrate with the shared file system (CVMFS) infrastructure developed as part of EOSC-Life, to access tool containers and reference datasets in the most efficient and reproducible way. The Pulsar endpoints (Figure 3.3) will be connected to the European Galaxy servers (WP4) and thus integrated into our public monitoring service available under stats.galaxyproject.eu. The goal is to raise the maturity of the Pulsar Network and all its partners, including EGI and the EuroHPC partners, to a TRL-9 level at the end of the project (M3.1).

Participants

Name	Institution	Role
	CESNET	Task Leader
	ALU-FR	
	VIB	
	EPFL	
	CESNET	
	BSC	
Anthony Bretaudeau	CNRS	
Marco Tangaro	CNR	developer, Galaxy expert, pulsar network endpoint maintainer
	INFN	
	UiO	
	AGH / AGH-UST	
Jan Astalos, Viet Tran	IISAS	
	TUBITAK	

Activities

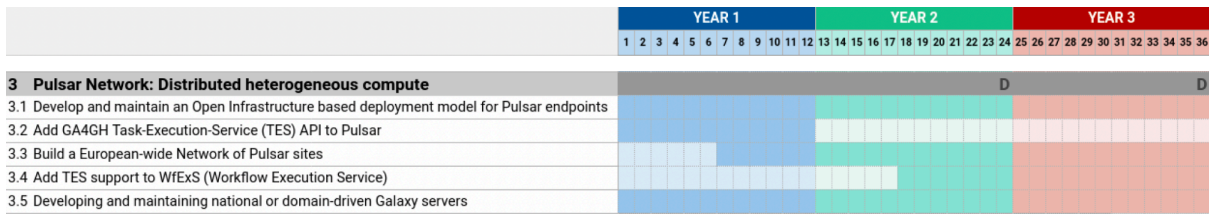
Pulsar endpoints deployment and maintenance

Leader: ?

Goal: ?

Timeline

Start: March 2023 (M7) - End: August 2025 (M36)



Deliverables

D3.1 Operations documentation on the Open Infrastructure deployment

Deadline: **Aug 2024, M24.**

Involvement: T3.1 and T3.5;

Partners: INFN¹, ALU-FR, CESNET, CNR, IISAS, UiO, UB, CNRS

D3.2 Publication on the Pulsar Network, integrated in workflow management systems

Deadline: **Aug 2025, M36.**

Involvement: T3.1, T3.2, T3.3, T3.4 and T3.5;

Partners: CNR² and all WP3 participants

¹ short name of lead participant

² short name of lead participant

Milestones

M3.1 Demonstrated job submission via the WfExS to the Pulsar Network

Deadline: Aug 2024, M24:

Means of verification: Documentation and pulsar network available

Involvement: T3.1 and T3.3

Partners: INFN, ALU-FR, CESNET, INFN, CNR, IISAS, VIB, EPFL, BSC, CBRS, UiO, AGH/AGH-UST, TUBITAK

Reference material

Galaxy

<https://galaxyproject.org>

Pulsar

<https://pulsar.readthedocs.io/>

- Pulsar and containers:

<https://pulsar.readthedocs.io/en/latest/containers.html#co-execution>

<https://pulsar-network.readthedocs.io/en/latest/>

<https://github.com/usegalaxy-eu/pulsar-infrastructure>

TES

<https://github.com/ga4gh/task-execution-schemas>

TESP

<https://github.com/ndopj/tesp-api>

ARC

<https://www.nordugrid.org/arc/arc6/>