

Project 5: National Integration Portal

Workshop 3 - Review of Work Packages and Project Roadmap

Participants from HPC centers

Affiliation	Name	Position	Affiliation	Name	Position
SDU	Claudio Pica	Professor, Director of the SDU eScience Center	DTU	Michael Rasmussen	Section leader (FIT), IT-services
SDU	Dan Sebastian Thrane	Team leader Cloud services, SDU eScience Center	DTU	Martin Haubjerg Rosgaard	IT-Service
SDU	Emiliano Molinaro	Team leader Research Support, SDU eScience	DTU	Nikola Vasiljevic	Special Consultant for Digitalization
SDU	Johanne Lyhne Hansen	Secretary, SDU eScience Center	DTU	Ole Holm Nielsen	Senior HPC Officer
SDU	Martin Rasmus Lundquist Hansen	Software Developer, SDU eScience	DTU/DeiC	Eske Hjalmer Bergishagen Christiansen	IT-service
AU	Kristoffer Nielbo	Associate professor	DTU	René Løwe Jacobsen	HPC technician
AU	Jakob Styrup Bang	IT-Arkitektur	DTU	Erland Hockheim	AIT-Computerome
AU	Dan Ariel Søndergaard	System Administrator	DTU	Dario Ruben Carballido	System Administrator
AU	Samuele Soraggi	Department of Chemistry	AAU	Bo Bai	Senior Consultant
AU	Niels Carl Hansen	System Administrator	AAU	Frederik Højlund	Web Developer
AU - Royal Library	Per Møldrup-Dalum	Specialist consultant	AAU	Anton Drastrup-Fjorbak	System Administrator,
AU	Samuele Soraggi	Administrative Staff	AAU	Rasmus D. Jensen	Team Lead Research IT
KU	Jonas Rank Møller	Group leader, KU-IT			
KU	Hans Henrik Happe	System Administrator			

Agenda

09:00 - 09:20 Presentation of WP, roadmap and milestones

09:20 - 09:50 Discussions

09:50 - 10:00 Short break

10:00 - 10:15 Involvement of HPC centers and LUMI/Puhuri

10:15 - 10:45 Discussions

10:45 - 11:00 Conclusions and next steps

WP, Roadmap and milestones

[illegible]

WP, Roadmap and milestones

Milestone	Deliverable	Deadline
M1	new GUI for project management	01/09/2021
M2	new GUI for resource management	01/09/2021
M3	new GUI for HPC centers reporting and overview	01/04/2022
M4	new application section	01/06/2022
M5	First version of UCloud integration module	01/11/2021
M6	Second version of UCloud integration module	01/03/2022
M7	Integration of DeiC National HPC systems	31/12/2022
M8	Integration with Puhuri/LUMI	01/07/2022
M9	Integration of data transfer system among HPC centers	31/12/2022
Status Reports	Description	Deadline
R1	Mid-term report on M1, M2 and M5	01/07/2021
R2	Mid-term report on M3, M4 and M6	01/01/2022
R3	Mid-term report on M7, M8 and M9	01/07/2022

Round table discussions

- DeiC HPC Type1: AAU/Claudia ; Royal Library
- DeiC HPC Type2: AU/GenomeDK ; DTU/Computerome2
- DeiC HPC Type3: SDU
- DeiC HPC Type4: KU
- DeiC HPC Type5: LUMI / Puhuri - DeiC

- HPC TekRef

Involvement of DeiC HPC centers

- Early involvement in in WP2/ design phase (January 2021)
- Co-design of 'integration module'
- Testing/deployment of integration module in 2 phases:
 - Consortium members: Type 1, Type 2 Sophia, Type 3
 - All DeiC HPC centers: Type 2 Computerome2 & GenomeDK, Type 4
- Local integration and configuration: ~3PM ?

Involvement of DeiC HPC centers

- Integration Module plug-ins:

Storage: Posix FS, block-storage, (later object storage)

Jobs: Slurm, Moab, OpenStack

User: NIS, LDAP, AD, PAM

DeiC HPC	Provider	user management	storage systems	job management	project management	Responsible person
Type 1	AAU	AD	CEPH	OpenStack	OpenStack	R. D. Jensen
	SDU	UCloud	CephFS/GPFS	UCloud	UCloud	C. Pica
Type 2	Genome DK	NIS/local unix users	BeeGFS	slurm	slurm + custom scripts	D. A. Søndergaard
	Computerome 2	local users / LDAP / 2FA	OneFS	Moab	Moab accounting manager	E. Hochheim (?)
	Sophia	AD	BeeGFS/CEPH	slurm	slurm + custom scripts	M. Rasmussen
Type 3	SDU	IPA	GPFS	slurm	slurm + custom scripts	C. Pica
Type 4	KU	TBD	TBD	TBD	TBD	H. H. Happe
Notes:						
Other relevant storage:		S3 object storage				

Involvement of LUMI/Puhuri

- Early involvement in in WP2/ design phase (January 2021)
- Co-design of 'integration module' with DeiC staff involved and Puhuri core team
- Puhuri interaction via the Puhuri API (currently under development, based on Waldur mastermind)
- Coordination with LUMI for national resource allocation (allocation cycles and policies)

Round table discussions

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Summary and Conclusions

End of Workshop