

# Planning of TA2 activities in 2025 at KIT

## TA2 Workshop - Göttingen

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# LDAP server

## ■ Use LDAP server at SCC to store information about users centrally

### Current situation: login nodes are using a local unix backend

- User is assigned a different uid on each login node and so a different home directory
- Home directory content specific to each login node

### Plan: Centralise information about users in a LDAP server

- User will be assigned a unique uid retrieved from LDAP server
- Unique home directory with same content on each login node

# Authentication to HTCondor

## ■ Authenticate job submission to HTCondor via access tokens

### Current situation when submitting REANA workflow:

Input sandbox - on local host - and Mytoken - on REANA server - uploaded to login node  
condor\_submit executed on login node via SSH connection from local host

### Plan: Use Remote Submission feature of HTCondor

condor\_submit and scheduler can live on different machines

→ Execute condor\_submit inside job container and authenticate to scheduler

→ No transfer to login node needed

→ Authentication to scheduler requires compute scope - missing in AAI

# OIDC flow in REANA

## ■ Integrate OIDC flow in REANA client

### Current situation when submitting REANA workflow:

Before submitting workflow, user has to produce Mytoken and upload it to REANA server

→ Done by running dedicated executable - reana\_producer\_mytoken - before workflow submission

### Plan: Integrate OIDC flow in REANA client

Step described above embedded in job submission

→ Similar to what has been implemented for direct HTCondor job submission

# Online storage

## ■ Provision online storage to PUNCH users

Provide service similar to DESY Sync&Share or CERNBox

- To store and share data
- Accessible via web browser or file explorer
- Synchronisation between different machines
- Can be mounted on login node if needed

Not developing such a service - Only taking care of its integration

# Usage of Indigo IAM

## ■ Evaluate usage of Indigo IAM

### Current situation: lack of policy engine in Helmholtz Unity

- Prevent to request authorization claims or custom scopes
- Prevent developments requiring certain scopes

### Plan: Evaluate usage of Indigo IAM where policy engine embedded by default

- Enable to request authorization claims or custom scopes
- Enable developments requiring certain scopes

# Data management

## ■ Support WP3 in developing:

Data locality aware scheduling in OBS

Hash table-based data placement and replication

## ■ Automate transfer to KIT dcache

LDAP server  
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Authentication to HTCondor  
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OIDC flow in REANA  
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Online storage  
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Indigo IAM  
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Data management  
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