The government seeks individual input; attendees/participants may provide individual advice only.

Middleware and Grid Interagency Coordination (MAGIC) Meeting Minutes[1]
November 3, 2021, 12-2 pm ET

Virtual

Participants

Arjun Shankar (ORNL)	Katherine Austin (TTU)
Dan Gunter (LBL)	Mallory Hinks (NCO)
David Bernholdt (ORNL)	Michael Corn (UCSD)
David Martin (Northwestern)	Mike Heroux (Sandia)
Hal Finkel (DOE)	Rich Carlson (DOE/SC)

<u>Introductions:</u> This meeting was chaired by Rich Carlson (DOE/SC)

<u>Finalizing Discussion Topics for Upcoming Year:</u>
- Rich said that the goal for the meeting is to get more detail on the list of discussion topics from the previous meeting and develop a plan for the upcoming meetings.
- Rich suggested that we finish up the series on software sustainability, then do a single month on identity management, and then move into another multi-month topic.
- Rich said that for the federated identity management, we are really looking for the current state of the art. He asked if we should ask someone from NIST to come talk about the standards portion.
- David said that would be a great idea.
- Arjun said it might be useful for the NIST people to talk about the IL/AL/FL adoption and what they are hearing from industry as they try to comply with those levels of identity assurance and federation.
- It was determined that we would invite Jim Basney to talk about federated identity management and ask him who else he suggests present.
- Rich asked how to close out the software sustainability topic in the next few months.
- Hal mentioned the DOE RFI. He said the responses are intended to be public. It calls out specific questions in nine different categories. They are looking for a robust response from people with many different perspectives. Responses are due December 13. https://www.energy.gov/science/articles/department-energy-releases-request-information-software-stewardship
- Rich said we could use the December meeting to look at **long-term software sustainability issues for academic and industrial software**. He said we should identify three speakers from the list.
  - Todd Gamblin – Spack – long term

- - Kokkos/RAJA ECP PI is Christian Trott
  - HPE – talk about their vendor software for HPC world – long term sustainability issue
  - Potentially have Jack Wells find someone from NVIDIA if we can't find someone from HPE
- David Martin asked Mike Heroux if it would be a possibility to talk about his LSSW ideas in that area.
- Mike said it would be a good possibility.
- Rich asked Mike if he could take his topic and find a couple other speakers in the same area for February. The topic will be: **Leadership scientific software and LSSW.io**
  - Mike Heroux – libraries and tools being developed for the community
  - Salman Habib – ANL – applications community – part of community with large scale software portfolio activity and consumers of HPC library and tools – representing community
  - Ryan Adamson – ORNL - computing facilities and challenges in sustaining that environment through OS changes etc. – representing community
- Rich said the focus would be on the sustainability of the libraries and tools that are being developed for the community
- Rich said that March could be focused on **maintenance challenges for software (include security)**
  - Von Welch
  - Audris Mockus - https://mockus.org/
- Rich said that April could focus on Federated Identity Management (current status – individuals or projects)
  - Jim Basney NCSa – have Jim pick who else should present at this meeting – someone from NIST?
- Rich said we could run a multi-month series on the emerging workloads and the changing HPC environment, which would get us 3 to 5 months worth of content.
- May, June, July, August, September: **Emerging workloads – real-time/near-real-time instrument data analysis**
  - AI/ML to advance GRID and Cloud computing
  - Streaming and real time applications
  - Hardware – what's being deployed where, how is it being integrated?
  - Operating system and runtime environment to run this

Round Table
- Hal already mentioned his RFI above.
- Mike Heroux mentions that on November 18, they will have the third LSSW town hall meeting. He said the topic would be on other agency use of DOE developed software tools and libraries. They are inviting a group of 5 panelists from DoD, NSF, NASA, NOAA to give opening remarks.

Next Meeting
December 1 (12 pm ET)