

Empowering Secure Data-Driven Research:

A Workshop on Science DMZ, Globus, and InCommon Federation

January 8, 2025 • 12:30-4:00 ET

Princeton University Campus • Jadwin Hall Room A7

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SCHEDULE

12:30-1:00 Registration and Light Refreshments

1:00 - 2:00 Understanding the Power of Federations InCommon and eduroam

The InCommon and eduroam federations provide opportunities for faculty, researchers, staff, and students to collaborate in a secure and consistent manner. This session will provide an overview of InCommon and how the federations operated by InCommon can decrease the friction and increase the opportunity for sharing and across institutional boundaries. Various learning and engagement pathways offered by InCommon will also be highlighted that support institutions on their identity and access management (IAM) and federation journeys.

Speakers:

Romy Bolton – Director, Project Management | Internet2

Jean Chorazyczewski – Director, InCommon Academy | Internet2

2:00 - 3:00 Science DMZ Overview: Practical Designs and Use Cases

The Science DMZ is a portion of the network, built at or near a local network perimeter, that is designed such that the equipment, configuration, and security policies are optimized for high-performance scientific applications rather than for general-purpose business systems or “enterprise” computing. This paradigm has been successfully used in University and Laboratory environments for over 15 years, and continues to offer a straightforward approach to securing and supporting scientific workflows. This talk will go over the basis of the design, ways it can be successfully implemented and operated, and potential use cases it can assist.

Speaker:

Jason Zurawski – Science Engagement Engineer, Energy Sciences Network (ESnet), Scientific Networking Division, Lawrence Berkeley National Laboratory

3:00 - 4:00 Globus: platform for data driven research

In the era of data-driven discovery, researchers face the challenge of efficiently managing and sharing data. Globus, a secure and scalable data management platform offered by the University of Chicago, addresses these needs by simplifying file transfers, enabling seamless collaboration and automation, and ensuring robust data security. This presentation introduces the core features of Globus, including managed transfers, fine-grained data sharing, task automation, and integration with diverse computing environments. Attendees will gain an understanding of how Globus streamlines workflows in data-intensive research, empowering scientists to focus on insights rather than infrastructure.

Speaker:

Rachana Ananthkrishnan – Executive Director, Globus, University of Chicago



Please contact [Forough Ghahramani](#) for additional information.

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SPEAKER BIOGRAPHIES



Rachana Ananthkrishnan is Executive Director & Head of Products at the University of Chicago, and has a Joint Staff Appointment at Argonne National Laboratory. In her role at the university, she leads the Globus (www.globus.org) department, which delivers a research data management platform to national and international research institutions. She also serves on the WestGrid Board of Directors, and is a member of the InCommon Community Assurance and Trust Board. Her work is focused on the research and education field, and she has worked on security and data management solutions on various projects including Earth System Grid (ESG), Biomedical Informatics Research Network (BIRN) and Extreme Science and Engineering Discovery Environment (XSEDE). Prior to that she worked on the Globus Toolkit engineering and customer engagement teams, leading the efforts in web services and security technologies. Rachana received her MS in Computer Science at Indiana University, Bloomington.



Romy Bolton is Director of Project Management at Internet2 in Trust and Identity.



Jean Chorazyczewski is the InCommon Academy Director where she offers a regular cadence of workshops and training programs to meet community needs. She oversees the Collaboration Success Program that fosters learning, collaboration, and access to experts for current and new participants. She also leads the annual BaseCAMP conference, which is geared to participants new to Identity and Access Management as well as CAMP Week for practitioners and IAM experts.



Jason Zurawski is a Science Engagement Engineer at the Energy Sciences Network (ESnet) in the Scientific Networking Division of the Computing Sciences Directorate of the Lawrence Berkeley National Laboratory. He is a founding member of several open source software developments, including perfSONAR OWAMP, OSCARS, and others. He is also the coauthor of multiple research papers related to high performance computing, including the original Science DMZ paper of 2013. The latter has enabled the development and deployment of Science DMZs worldwide. Before joining ESnet he worked for the University of Delaware and Internet2.

[SCHEDULE ON NEXT PAGE »](#)



Please contact [Forough Ghahramani](#) for additional information.

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