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Effective and non-intrusive security within NERSC's Open Science HPC environment

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Providing effective and non-intrusive security within NERSC's Open Science HPC environment introduces a number of challenges for both researchers and operational personnel. As what constitutes HPC expands in scope and complexity, the need for timely and accurate decision making about user activity remains unchanged. This growing complexity is balanced against a backdrop of routine user and application attacks, which remain surprisingly effective over time.

This presentation describes current efforts at NERSC to maintain system integrity without getting in the way of the science being done here. These efforts include network monitoring, 2 factor authentication as well as ssh and host based data analysis"

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