Research Spotlight Forum

8.6.19 Cybersecurity

Advanced Cyberinfrastructure for Modern Cybersecurity Research

PRESENTED BY:

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SAND2019-9382 PE

Large-scale Cybersecurity Research

Challenge: modern large-scale cybersecurity research required large-scale compute and communication resources

UNM Computer Science and CARC leading research on techniques and systems for addressing Internet-scale cybersecurity challenges.

How do we architect computer systems to support research like this?

- Each of these problems pushes the limits of what open systems can do today
- Huge data rates, complex analyses, vast caches of data, significant long-term storage needs for open data sets, etc.
- Integration with regional and national computational and cybersecurity resources (XSEDE, GENI, etc.)
- And they have to be maintainable by academic staff, useable by diverse researchers, an customizable for researcher needs.

An open question that we're just beginning to examine

- First steps: assessing requirements, looking for more similar problems, identifying potential partners
- Interested? Prof. Patrick Bridges – patrickb@unm.edu