Sharing Expertise and Artifacts for Reuse through Cybersecurity Community Hub (SEARCCH)

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Challenge:

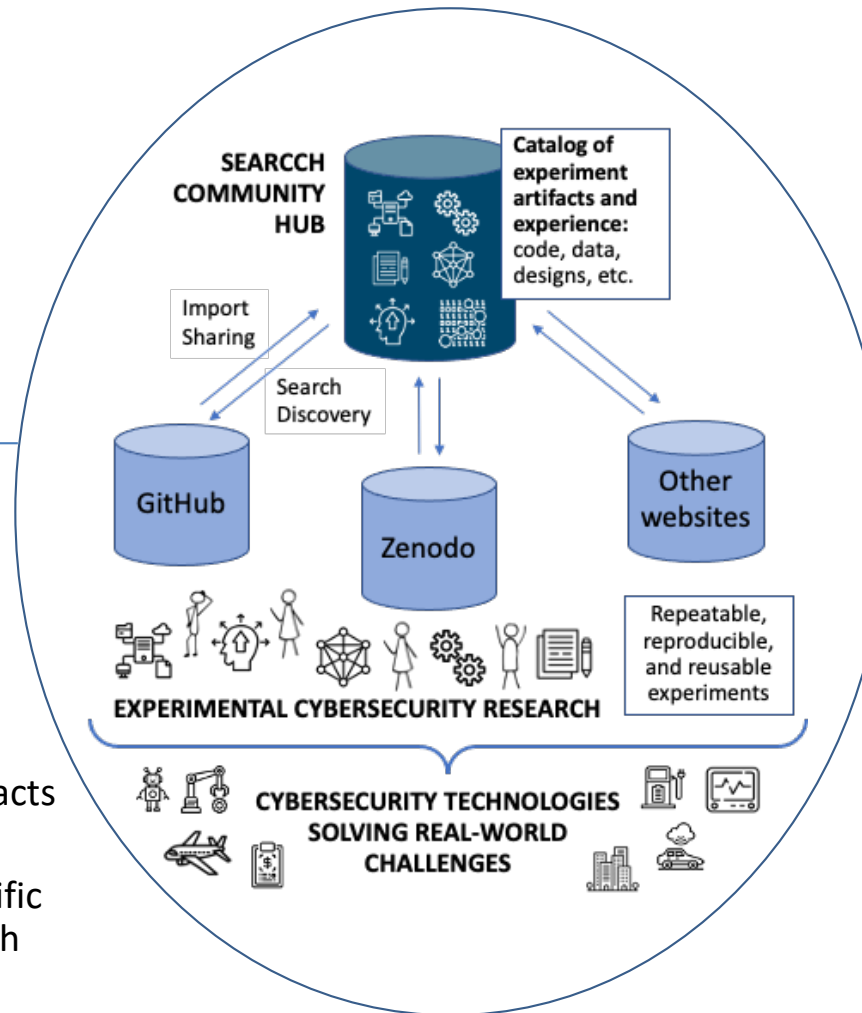Ad hoc cybersecurity experimentation retards scientific progress

Lack of repeatable, reproducible, and reusable experiment artifacts

Solution:

Community-driven platform lowers barrier to sharing and reusing research artifacts

Rich metadata representation enables researchers to better describe and find relevant artifacts

Import, curation, and search functions enable greater scientific quality of cybersecurity research

Scientific Impact:

Enable community to build upon work of others or compare solutions

Advance the knowledge, understanding, rigor, and practice of experimental cybersecurity research across CISE disciplines

Broader Impact and Broader Participation:

Currently populated with 400+ artifacts from repositories, conferences, and libraries

Engaging community to contribute and use artifacts

Enables new cybersecurity research and innovation

Lowers the barrier to access for underrepresented communities