



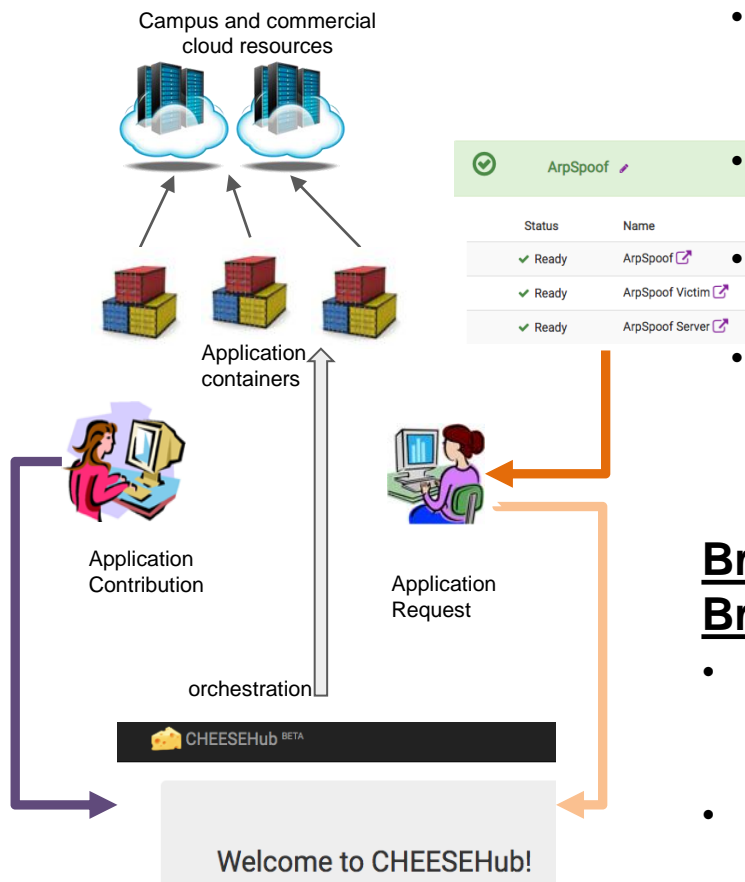
# CHEESE: Cyber Human Ecosystem of Engaged Security Education

## Challenges:

- Cybersecurity Education is complex and multidisciplinary
- Attacks and defenses are in flux and hard to reproduce
- Hands-on labs are in short supply
- Resources can be demanding

## Solution:

- Open-source Platform & publicly accessible
- Open-source Curriculum accompany the cybersecurity demonstrations.
- Community building & Outreach to educators and students



## Scientific Impact:

- Engaged learners with hands-on cybersecurity labs that are accessible for free.
- Leveraged existing NDS Labs workbench platform
- Provided a reproducible learn-by-doing platform.
- Developed novel real-world examples of cybersecurity flaws in action

## Broader Impact and Broader Participation:

- Offer Instructors supplement classroom instructional materials.
- Provide students hands-on learning opportunities.
- Disseminate information to security professionals.
- Promote awareness for developers and general public