



ANNUAL OVERVIEW 2016

DECEMBER 8TH, 2016

HUBZERO TEAM

Agenda

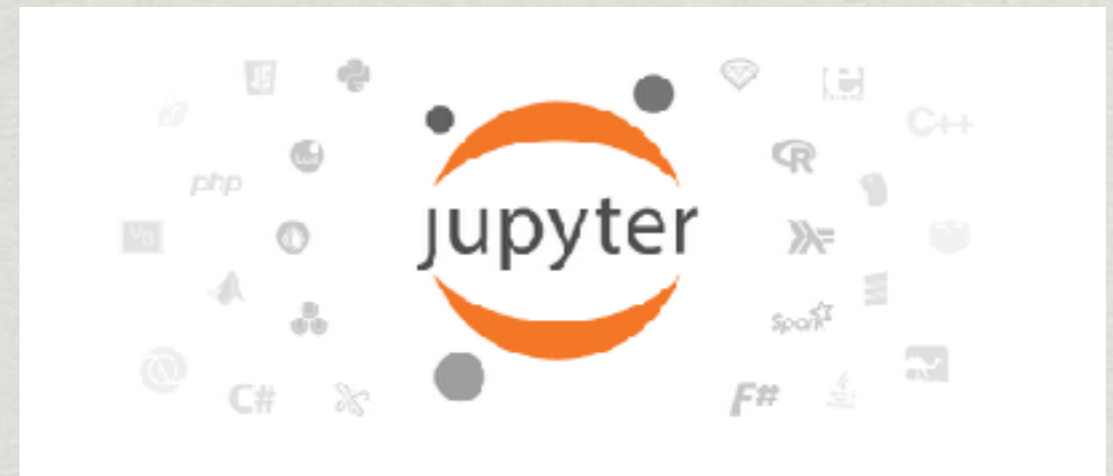
- * 2016 Major Milestones
 - * 2.1 Release
 - * Integrating Jupyter Notebooks on nanoHUB
 - * Integrating Windows Tools on CDMhub
 - * Monthly Support Model
 - * New relationship with Science Gateways
 - * New Foundation Members
- * Conferences
 - * XSEDE 2016
 - * Mozfest 2016
 - * Gateways 2016
 - * Super Computing 2016
- * 2017 High-level Roadmap

2.1 Release

- * Merged Users/Members
- * Built a platform for Project Files to connect to external data stores within Projects
- * Activity logging for users and groups
- * Updated Member Dashboard with two new modules, “Recent Groups” and “My Groups”
- * Hub Administrators can use custom profile/registration fields
- * Complete Release Notes: <https://hubzero.org/documentation/2.1.0/releasenotes/featurechangesadditions>

Jupyter Notebooks on nanoHUB

- * Published on September 29th, 2016
- * A tool that starts the Jupyter notebook server in the user's "notebooks" directory which lives in the user's home directory
- * The server uses a loaded Anaconda module
- * 548 simulations have been run since it was published
- * Currently this tool can only be accessed by members of its access control group on nanoHUB



Integrating Windows Tools on CDMhub

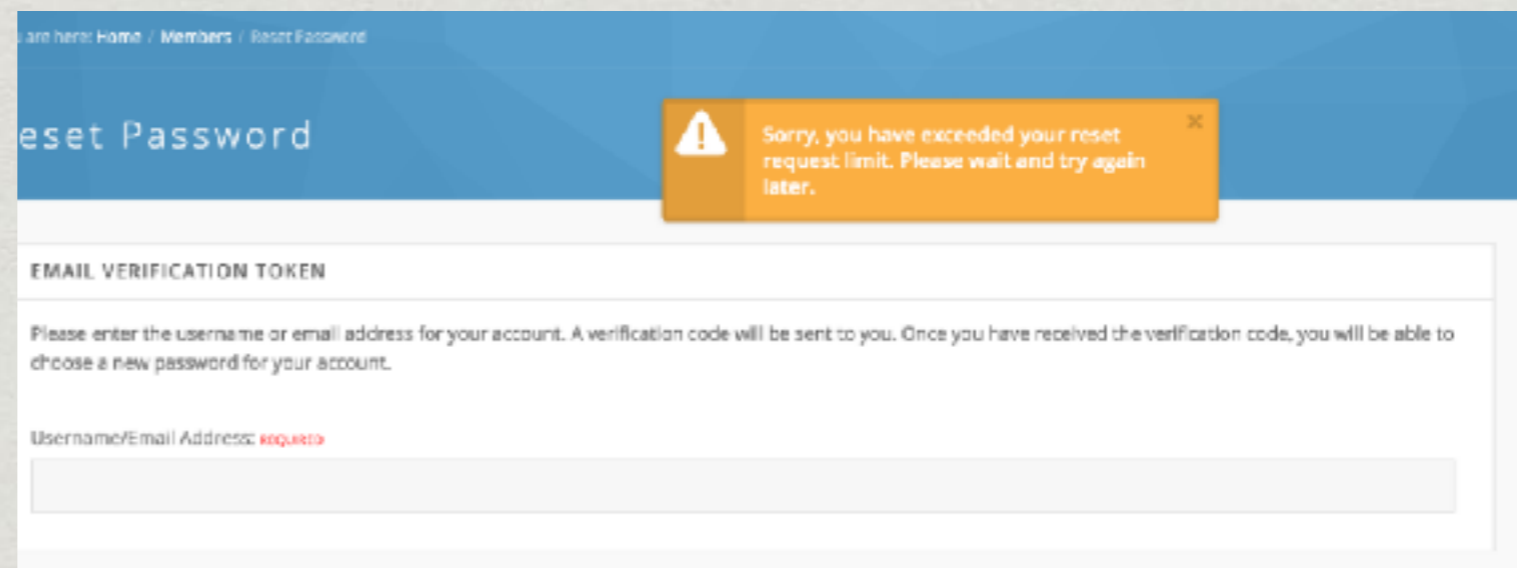
- * Windows-based tools on CDMhub
 - * SwiftComp
 - * Write Application
 - * Compro/Raven
 - * DEA Fabric Mechanics Analyzer
- * Built an application called Hubzero Windows Application Client

Monthly Support Model

- * Stable and secure monthly update system
 - * Allows for a longer testing periods
 - * Allows for QA machines to be set-up for sites to test code changes with an exact replica of the Hub
 - * Allows Hubzero developers to prioritize the development roadmap to coordinate with monthly updates
- * New External Contribution Process in the works

Fail2Ban

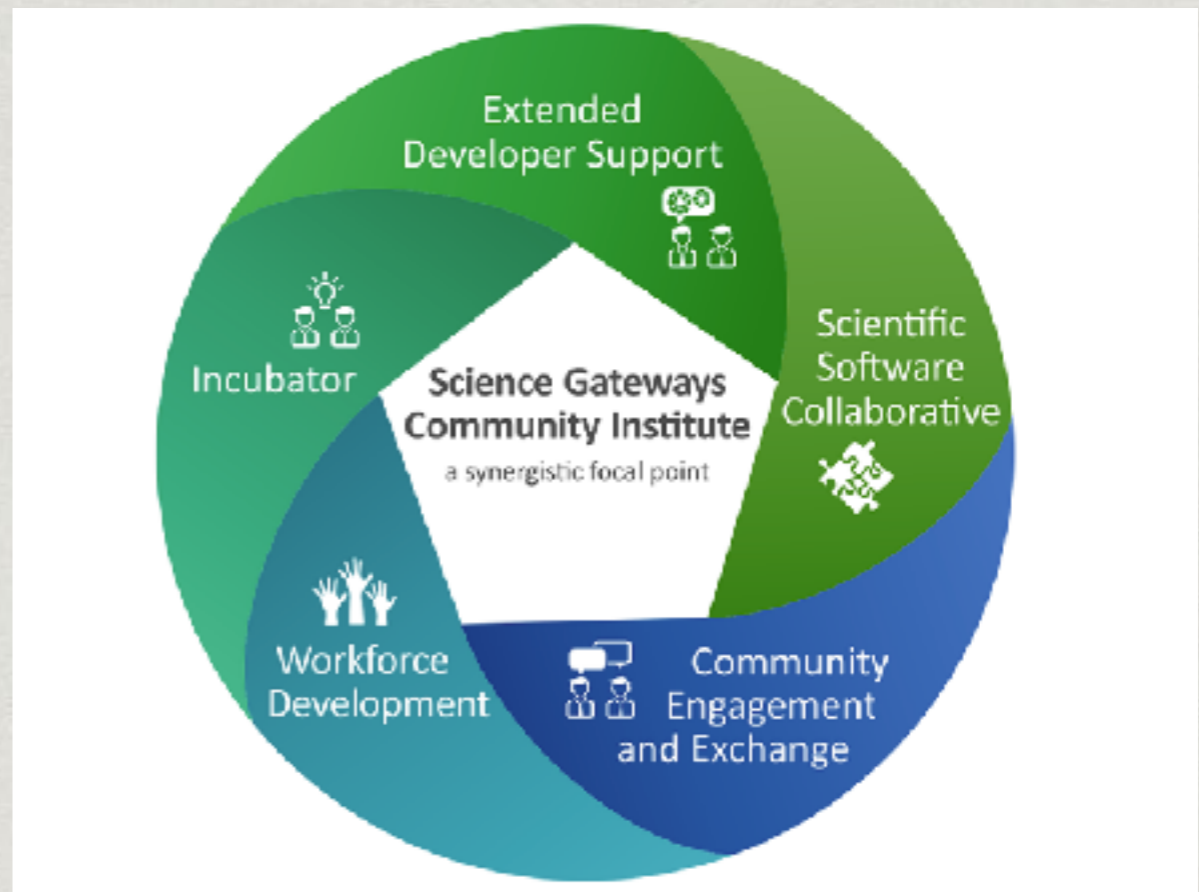
- * The CMS handles user login banning in an attempt to deter brute force attacks
- * The number of password resets per time period is limited
- * Blocks user for 30 minutes if they do spark Fail2Ban



The screenshot shows a web interface for a password reset. At the top, there is a blue header with the text 'Reset Password'. Below the header, there is a white box containing the text 'EMAIL VERIFICATION TOKEN'. Underneath, there is a paragraph of instructions: 'Please enter the username or email address for your account. A verification code will be sent to you. Once you have received the verification code, you will be able to choose a new password for your account.' Below this text is a text input field with the label 'Username/Email Address: required'. An orange error message box is overlaid on the right side of the page, containing a warning icon and the text: 'Sorry, you have exceeded your reset request limit. Please wait and try again later.'

Science Gateways

- * “The National Science Foundation (NSF) has awarded a collaborative team led by researchers at six different institutions a \$15 million, five-year grant to establish a Science Gateways Community Institute (SGCI) to accelerate the development and application of highly functional, sustainable science gateways that address the needs of researchers across the full spectrum of NSF directorates,” (Singer-Villalobos, 2016).
- * An Incubator, to provide shared expertise in business and sustainability planning, cybersecurity, user interface design, and software engineering practices
 - * Led by Michael Zentner, Hubzero Director
- * Read more: <https://www.tacc.utexas.edu/-/nsf-awards-15-million-to-create-science-gateways-community-institute>



RCAC @ Purdue @PurdueRCAC - Aug 1

NSF Awards \$15M to Science Gateways Community Institute, including members of our @hubzeroplatform @PurdueIT team!
[tacc.utexas.edu/-/nsf-awards-1](https://www.tacc.utexas.edu/-/nsf-awards-1) ...



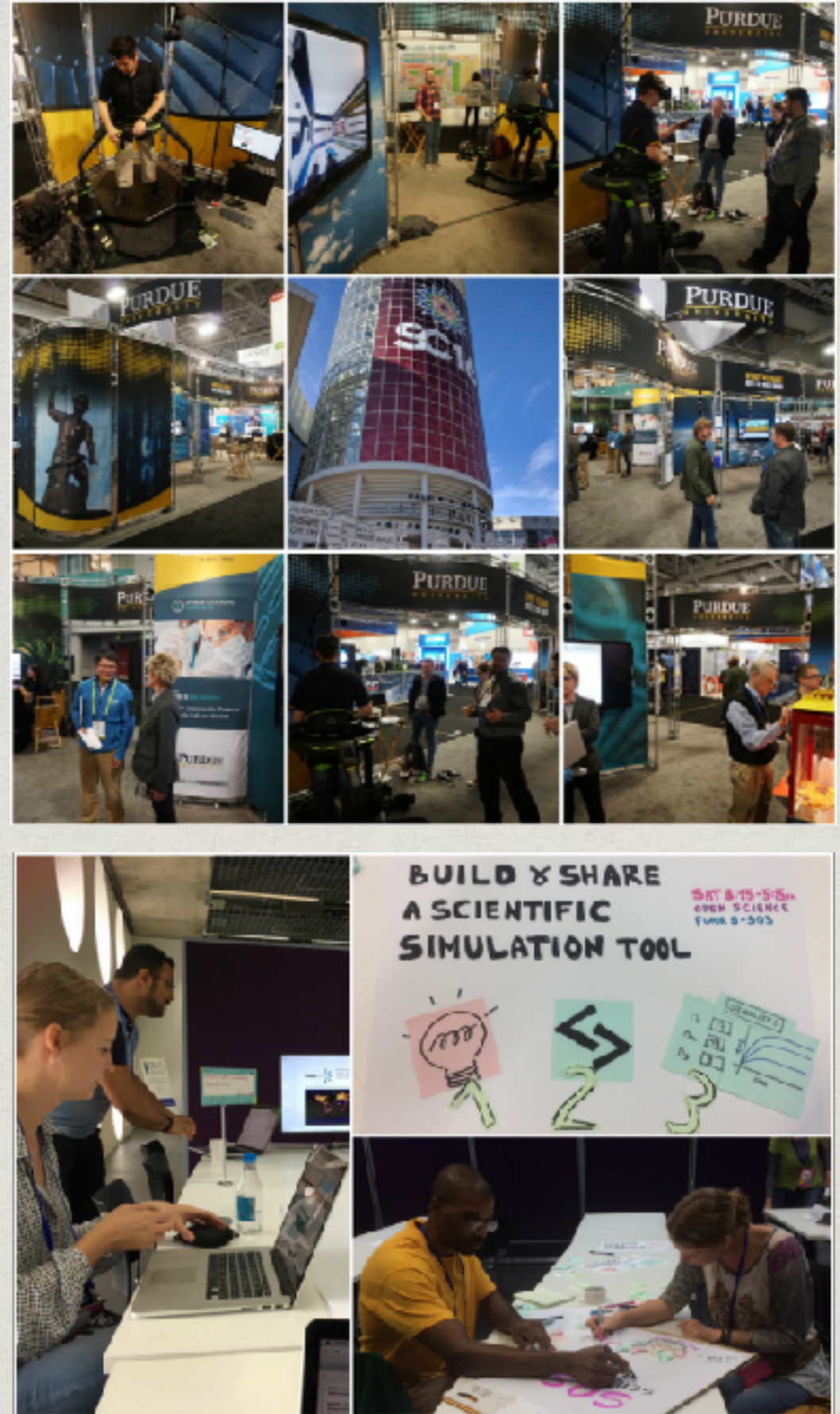
New Foundation Members

- * Botanical Society of America
- * Georgia Institute of Technology
- * Pacific Northwest National Laboratories
- * Geotechnical and Applied Science CEGAS and Marshall University
- * Illinois Rocstar LLC



Conferences

- * XSEDE 2016
- * Mozfest 2016
- * Gateways 2016
- * Super Computing 2016



2017 High-level Roadmap

- * Increased activity logging and more features for filtering/subscribing to activity
- * Decrease in redundant functionality (we have several extensions with very similar functionality--we will deprecate, merge, etc)
- * UI/UX overhauls to improve the user experience
- * Significantly extended / more robust API
- * Final removal of remaining Joomla bits
- * Expansions to Hubzero documentation to include more guides and tutorials





FROM EVERYONE AT HUBZERO