

Modules on OASIS Update

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Environment Modules on OASIS - Updates

- Lmod and python installed on OASIS
 - Python 2.7.7 with Numpy, SciPy, NLTK, matplotlib, scikit-learn, and pandas
 - Python 3.4.1 with Numpy, SciPy, matplotlib, and pandas
 - Working on getting R and Octave installed
 - Converted a friendly user to using Lmod and Python from OASIS
 - User was able to run production workflows successfully

Python module functionality on OASIS

- Tested Python functionality when run using modules on various sites that OSG Connect

Site	Python 2.7.7	Python 3.4.1
AGLT2	✓	✓
BNL	✓	✓
Crane	✓	✓
Cinvestav	✓	✓
MWT2	✓	✓
Nebraska	✓	✓
UConn	✓	✓
UCSD	✓	✓
UTA_SWT2	✓	✓

Python module functionality (Continued)

- Also tested python libraries (checkmarks indicate successfully being able to use module):

Site	NumPy	SciPy	NLTK	Matplotlib	Pandas
AGLT2	✓	✓	✓	✓	✓
BNL	✓	✓	✓	✓	✓
Crane	✓	✓	✓	✓	✓
Cinvestav	✓	✓	✓	✓	✓
MWT2	✓	✓	✓	✓	✓
Nebraska	✓	✓	✓	✓	✓
UConn	✓	✓	✓	✓	✓
UCSD	✓	✓	✓	✓	✓
UTA_SWT2	✓	✓	✓	✓	✓

Module Tracking

- Based on work done at Harvard by John Brunelle and James Cuff
- Added a hook to modules code that contacts webserver whenever a module is loaded
- Web script that receives contact and records site, hostname, user, and module into database
- Proof of concept working, adding to OASIS install