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## Because It Ought To Take Longer To Write Your Experiment Than It Takes To Deploy It

- · Five-Minute Rule: A User Should Be Able to Compile/ Deploy/Run "Hello, World" in Five Minutes On Any IDE/Infrastructure/Cloud/Whatever
- GEE: Help GENI Pass the Five-Minute Test.

## Running an Experiment

GENI	GEE
Obtain InCommon (etc) certs	Go to GEE Portal and ask for Slicelet
Go to GENI Portal and create Slice	Unpack downloaded zip file and add commands to fabfile.py
Use Omni/Flack/whatever to design experimental network	fabric run_experiment()
Wait for protoGENI/ORCA/whoever to allocate node/network	"Helio, World"
Yum/apt-get/etc to install software	
"Hello, World"	

### No Magic

- GENI is complex because GENI is flexible
  - Designed to accommodate any experiment
- GEE is simple because GEE has fewer options
  - Run any experiment, as long as....
    - Uses VM's only
    - Uses standard FC distro...
    - No control of network...
- Don't like these restrictions? Use Full GENI....

#### New Since GEC-19

- Message Service integrated (production)
  - Beanstalk message service
- Integration with Virtual Topology Service (late Beta)
- Reverse Proxy Service (Beta)
  - If succesful, give slivers outbound port-80 http access
- Wide-area file system (demo)

# Simple Experiments Should Be Simple To Run JUCK INTERNET



































