



protogeni

# Developer Topics

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# Major New Features

- Console access
- `geni-get`
- Making disk images
- Importing disk images

# Console Access

- Good for debugging booting/image problems

```
python src/omni.py -a utah3-pg -V3  
-u urn:publicid:IDN+emulab.net+sliver+192382  
poa myslice geni_console_url
```

- Gives a URL like:

```
https://www.emulab.net/nodetipacl.php3?  
node_id=pcvm480-2&key=12345678901234567890
```

- Works for all Xen VMs
- Works for physical nodes in Emulab

# geni-get

- Available in many images (tarball for the others)
- Documented at: <http://groups.geni.net/geni/wiki/GeniGet>
- `client_id`
- `control_mac`
- `manifest`
- `status`

# Making Images

- POA or custom PGENI CM call
- You get back a URN and URL
- <http://www.protogeni.net/wiki/ImageHowTo>
- <http://groups.geni.net/geni/wiki/HowTo/ManageCustomImagesInstaGENI>

# Importing Images

- Import from EC2 or ExoGENI
- For now, done through Emulab web interface
- You put an ssh key in your account
  - We ssh in and take care of the rest
- Metadata server or tmcd
- <http://groups.geni.net/geni/wiki/sol4/IDMS/CreateImages>