



An Autonomic Computing Engine for Computational Science and Engineering Applications in Cloud Computing and Grid Environments

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Hands-on Session



GROUPS

Preparation for hands-on session

- ✓ Tutorial website
 - ✓ <http://tutorial.cometcloud.org>
 - ✓ <https://www.dropbox.com/sh/nmw6azm9oj46yz9/pvrXNiqHWu>
- ✓ Prerequisite
 - ✓ Netbeans or Eclipse with Java JDK 1.6 or above
 - ✓ SVN
 - ✓ Terminal (Linux, OSX), Cygwin (Windows)
- ✓ CometCloud-lite download
 - ✓ `svn checkout --username cometcloud-guest svn://cac.rutgers.edu/CometCloud-lite`
 - ✓ Password: [cometcloud](#)
 - ✓ Documents
 - ✓ Includes tutorial slides, developer guide, and deployment guide
 - ✓ Source code and simple examples

CometCloud on FutureGrid

- ❑ Public image (CometCloud_tutorial.gz)
- ❑ Login to Hotel or Sierra
- ❑ To run a single instance of the VM
 - `Cloud-client.sh --run --name CometCloud_tutorial.gz --hours 2`
 - Save the handle name and ip address of the machine
- ❑ To run a cluster of instances
 - `cloud-client.sh --run --hours 2 --cluster ~/comet.xml`
 - Download comet.xml from <https://www.dropbox.com/sh/nmw6azm9oj46yz9/qv7jQopglG/comet.xml>
 - Save the handle name and ip addresses of all machines
- ❑ To terminate
 - `cloud-client.sh --terminate --handle ***`

Directory structure

□ CometCloud-lite

- `comet_lite_src`: source code
 - `application`: master/worker framework and sample
 - `comet`: the coordinated shared space and primitives
 - `common`: Squid content based routing, Chord overlay
- `lib`: 3rd party jar files and CometCloud-lite executables
- Matrix Multiplication property files and run scripts
 - `cloudburst_run`: run scripts for running cloud-bursting
 - `simple_run`: run scripts for running a simple master/worker
- Matrix Multiplication Development project folders
 - `eclipse`: eclipse project folder
 - `netbeans`: netbeans project folder
- `tutorial`: cometcloud slides, deployment and development guides

Questions?

For more info please visit

<http://cometcloud.org>

