

SAGA

Introduction and Tutorial

<http://faust.cct.lsu.edu/trac/saga/wiki/ADSSS2009>

- Installation
- Tutorial Infrastructure
- Command Line Utilities
- Code Examples (C++)
 - Hello (Distributed) World
 - Chaining Jobs
 - Depending Jobs
- Python Language Bindings
- Exercise

- In order to build & install SAGA you need at least:
 - A UNIX operating system (Linux, MacOS, etc.)
 - A C++ Compiler (preferably gcc \geq 3.4)
 - The Boost C++ Libraries (\geq 1.33.1) from <http://boost.org>
 - Python (if you want to build the Python language bindings)
- Adaptors may have additional requirements
 - PostgreSQL / SQLite client libraries
 - Globus / Condor / LSF installations
 - etc ...

- Download: <http://saga.cct.lsu.edu/cpp/download>
- Subversion: `svn co https://svn.cct.lsu.edu/repos/saga/trunk`
- SAGA C++ Core Libraries and Header files
- Makefile templates for easy build system integration
- Python language bindings (95% complete)
- Installation Manual, Programming Guide, API Documentation
- Command line utilities for each functional package
- The SAGA shell

- Job Adaptors
 - Fork (localhost), SSH, Condor, Globus GRAM2, OMII GridSAM, Amazon EC2, Platform LSF
- File Adaptors
 - Local FS, Globus GridFTP, SSH, Hadoop Distributed Filesystem (HDFS), CloudStore KFS, OpenCloud Sector-Sphere
- Replica Adaptors
 - PostgreSQL/SQLite3, Globus RLS
- Advert Adaptors
 - PostgreSQL/SQLite3, Hadoop H-Base, Hypertable

- Other Adaptors
 - Default RPC / Stream / SD
- Planned Adaptors
 - CURL file adaptor, gLite job adaptor

- Configure/make - based build system
- Top-level configure/make recursively calls configures/makes for each adaptor, language bindings, etc...
- Fault tolerant: if one of the sub-level packages can't be configured (missing prerequisites, etc...) it is simply skipped
- Sub-level packages can be built outside the source tree
- Remember: ./configure --help is your friend !
- We also provide XCode and VisualStudio project files

SAGA

A Simple API for Grid Applications [<http://saga.cct.lsu.edu>]

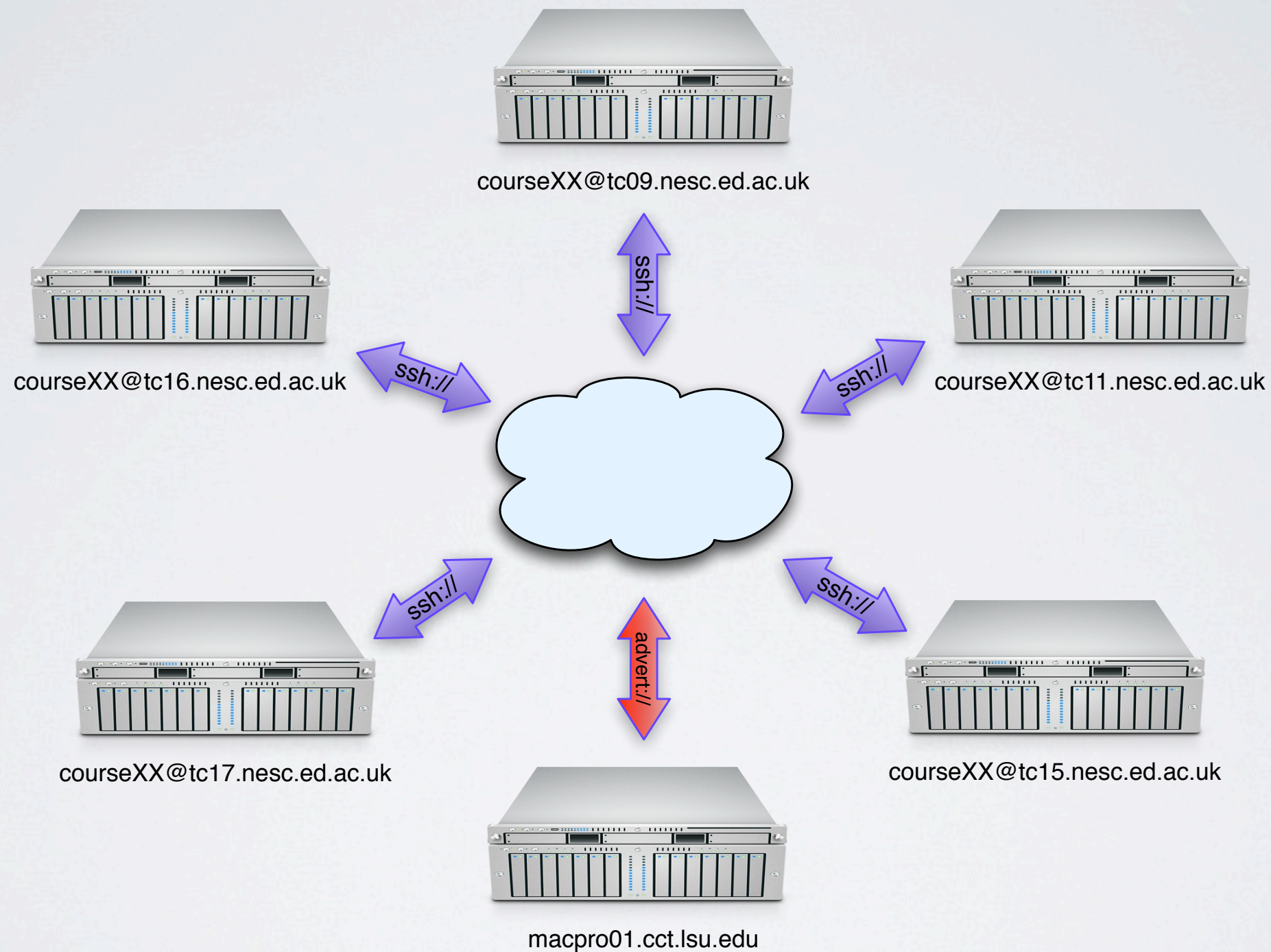
DEPLOYMENT PLANS 2009/2010



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INFRASTRUCTURE



- Login (ssh) to one of the following machines:
 - tc09.nesc.ed.ac.uk
 - tc11.nesc.ed.ac.uk
 - tc15.nesc.ed.ac.uk
 - tc16.nesc.ed.ac.uk
 - tc17.nesc.ed.ac.uk
- Usernames:
 - course01, course02, course03, ..., course24
- Password: to be announced

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THANKS

Questions / Comments ?