SAGA-Python

A Light-Weight Python Access Layer for
Distributed Computing Infrastructure
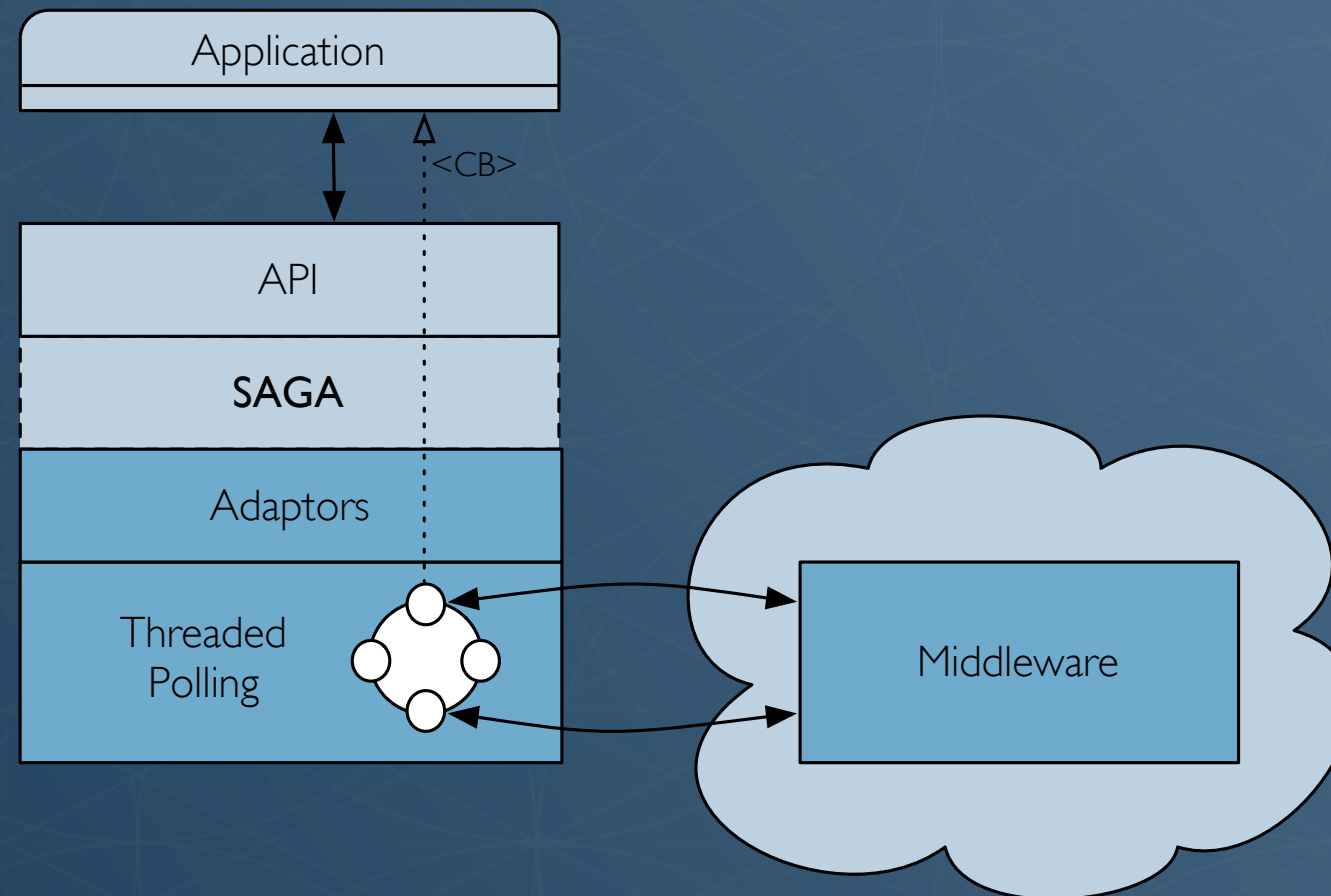
http://saga-project.github.io/saga-python

OVERVIEW
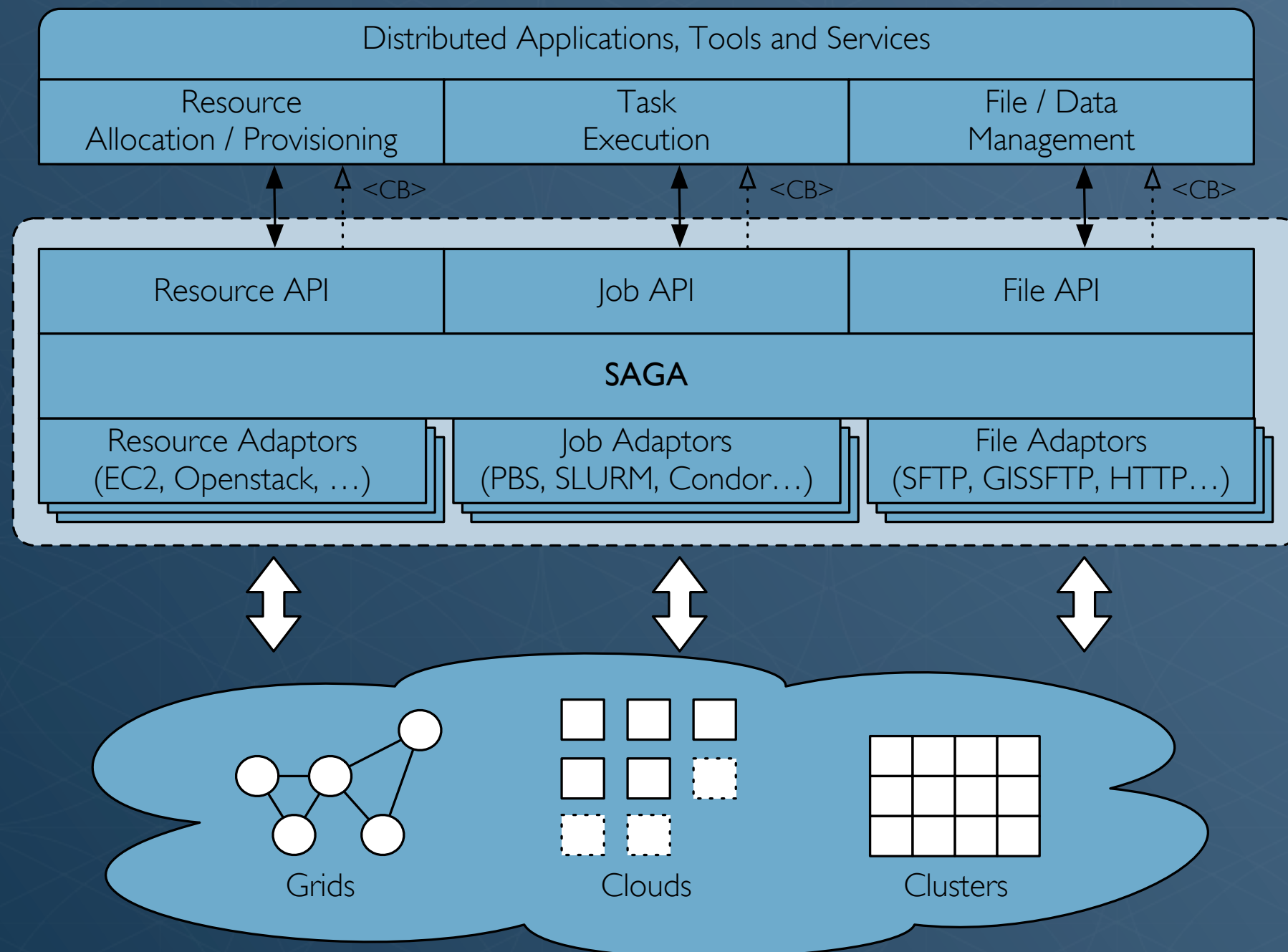
TRANSPARENT REMOTE OPERATIONS
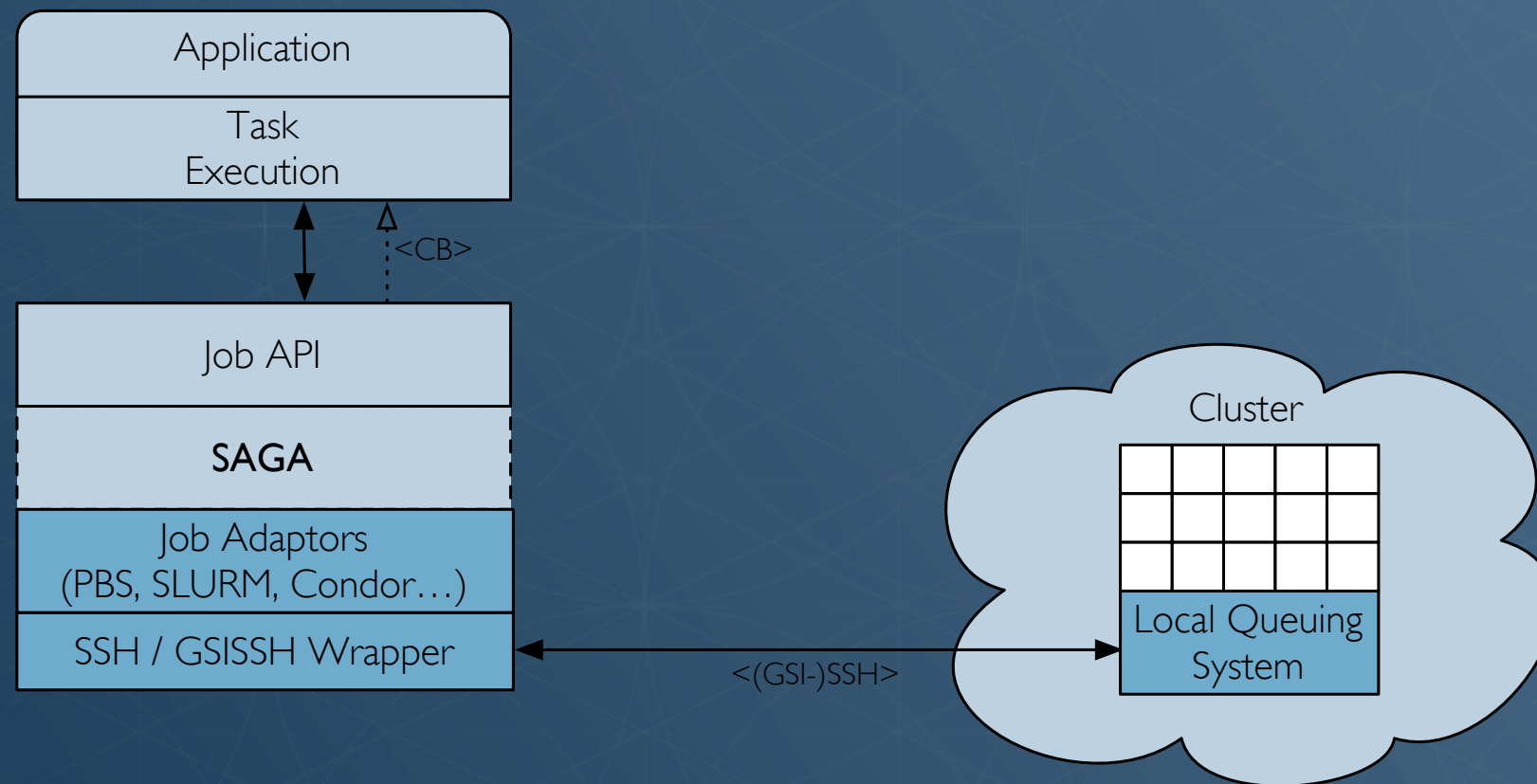
- Fast and optimized (GSI-)SSH command transport wrapper can be used by adaptors to access otherwise 'local-only' services, like many queuing systems

TRANSPARENT CALLBACKS

- Callbacks and asynchronous operations are important concepts in distributed applications but are not supported by all middlware systems

- SAGA-Python moves application-level polling into the adaptor layer and exposes a clean callback interface through the API

AVAILABLE ADAPTORS

- Job Submission Systems

  - SSH, GSISSH, Condor, Condor-G, PBS(-Pro), TORQUE, SGE, SLURM. Under development: LSF

- File / Data Management

  - SFTP, GSIFTP, HTTP, HTTPS. Under development: iRODS, Globus Online

- Resource Management / Clouds

  - Amazon EC2, Openstack ('libcloud'-based)