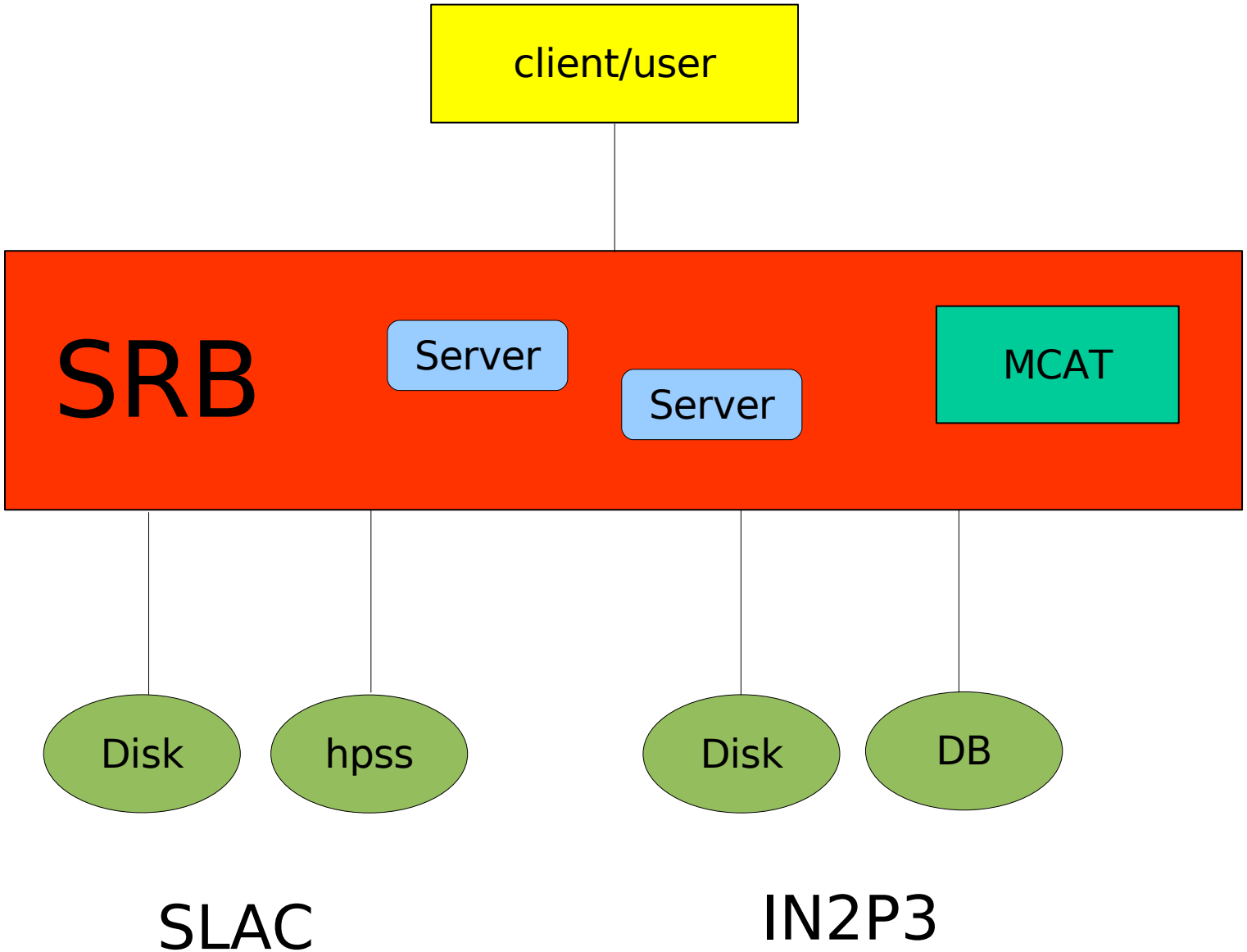
Storage Resource Broker
SRB

Transparent access to heterogeneous resources across a network

Don't need to know where file is or what type of storage/OS is used

SRB: client server middleware

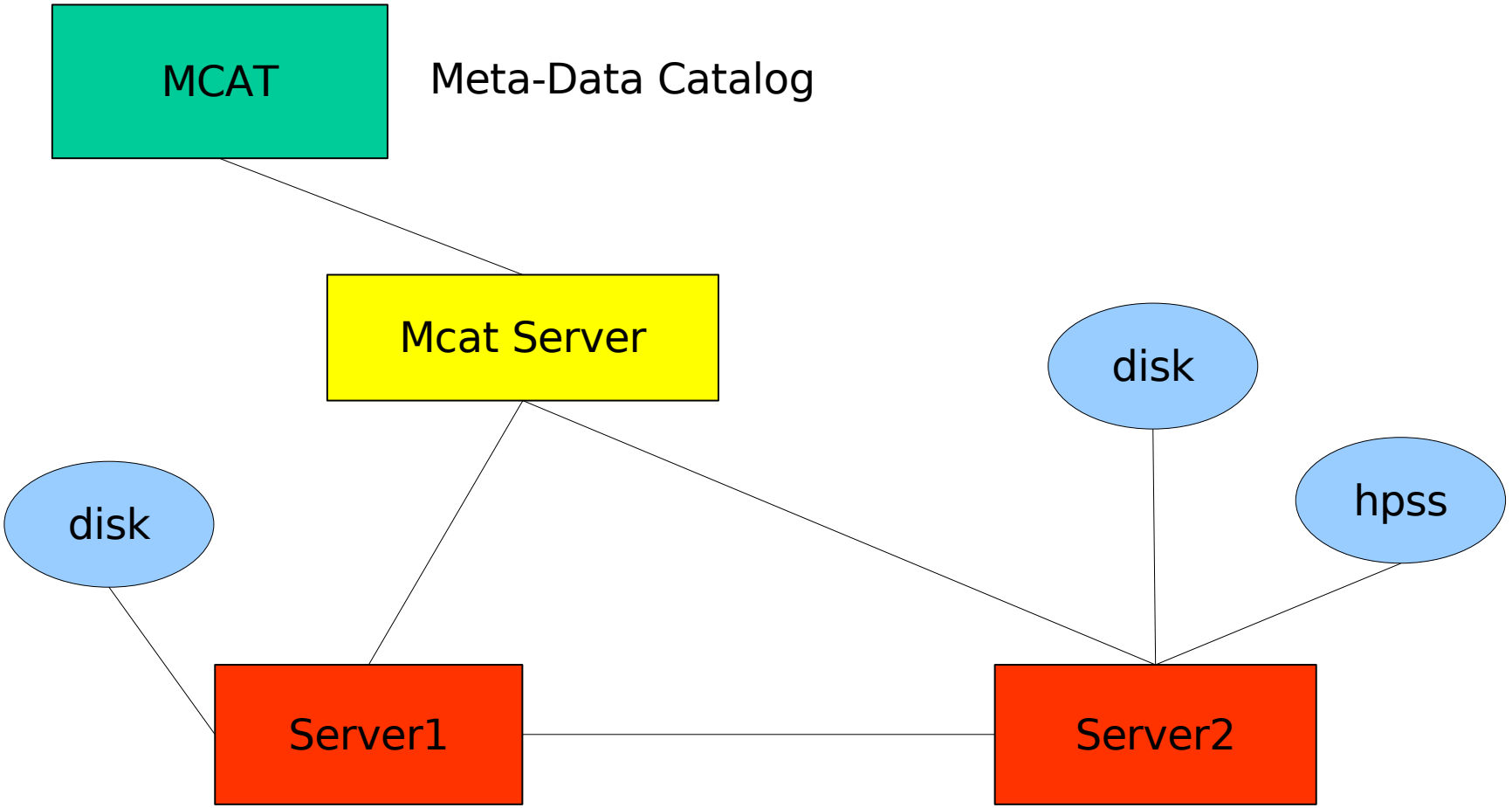


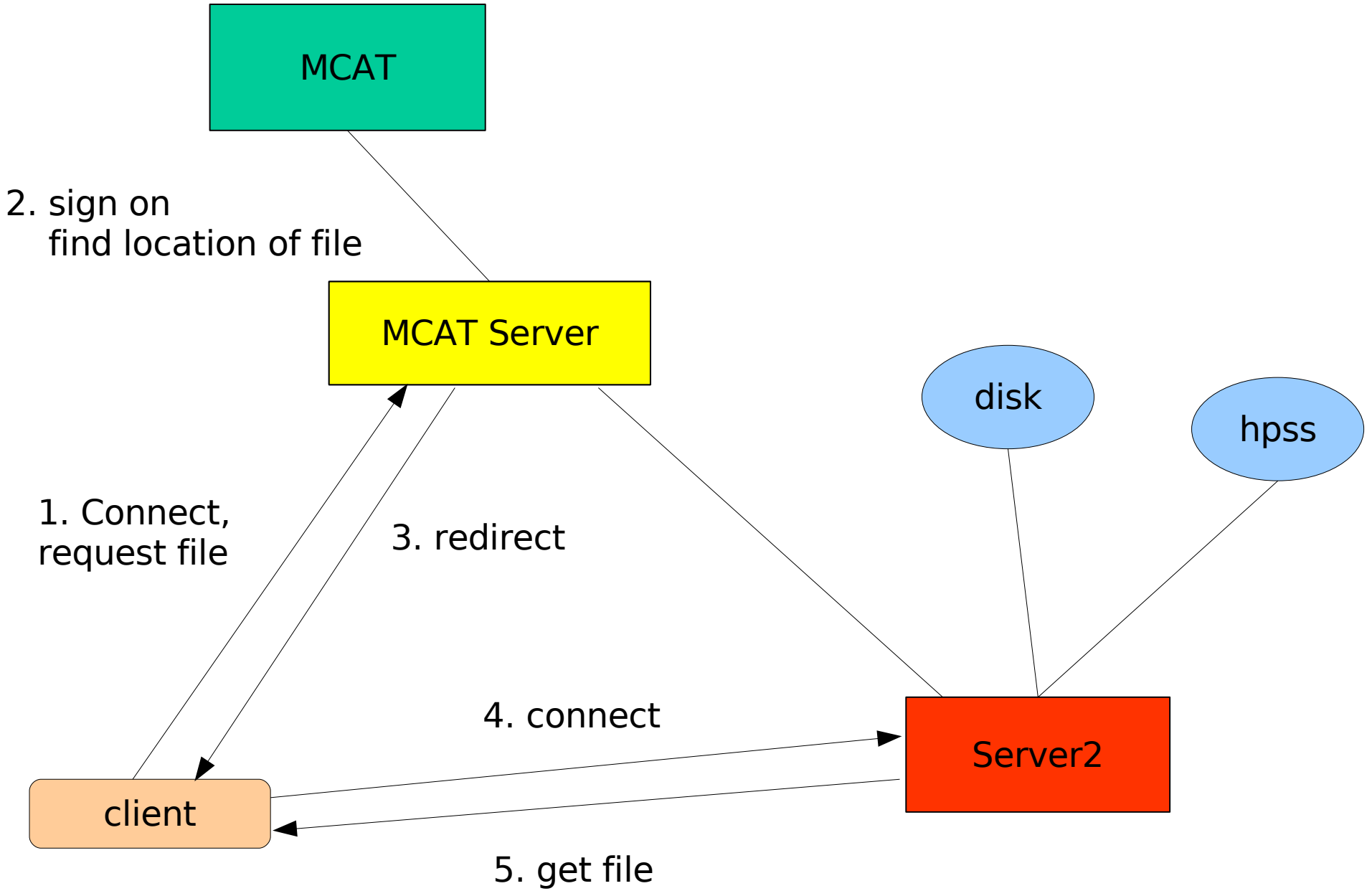
- Global logical name space
- Unix like directory structure
- Mapping of logical name to physical properties:

  host, physical path
- Single sign on
- Access control

Meta Data Catalog (MCAT) keeps all the information

SRB Zone


MCAT
Meta-Data Catalog
Mcat Server
disk
hpss
disk
Server1
Server2


MCAT
2. sign on
find location of file
MCAT Server
disk
hpss
1. Connect,
request file
3. redirect
4. connect
Server2
client
5. get file

- Files are stored in Resources
- Physical Resources can be grouped into logical Resources
- Replication of files between resources

- Parallel stream file transfer
- Bulk operations

- Different ways to connect to SRB:
  - C-api
  - Python/Perl wrappings for C-api
  - Java
  - Web (based on cgi,java)
  - Command line (S-commands)