

dCache Firewall Issue

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for dCache Team

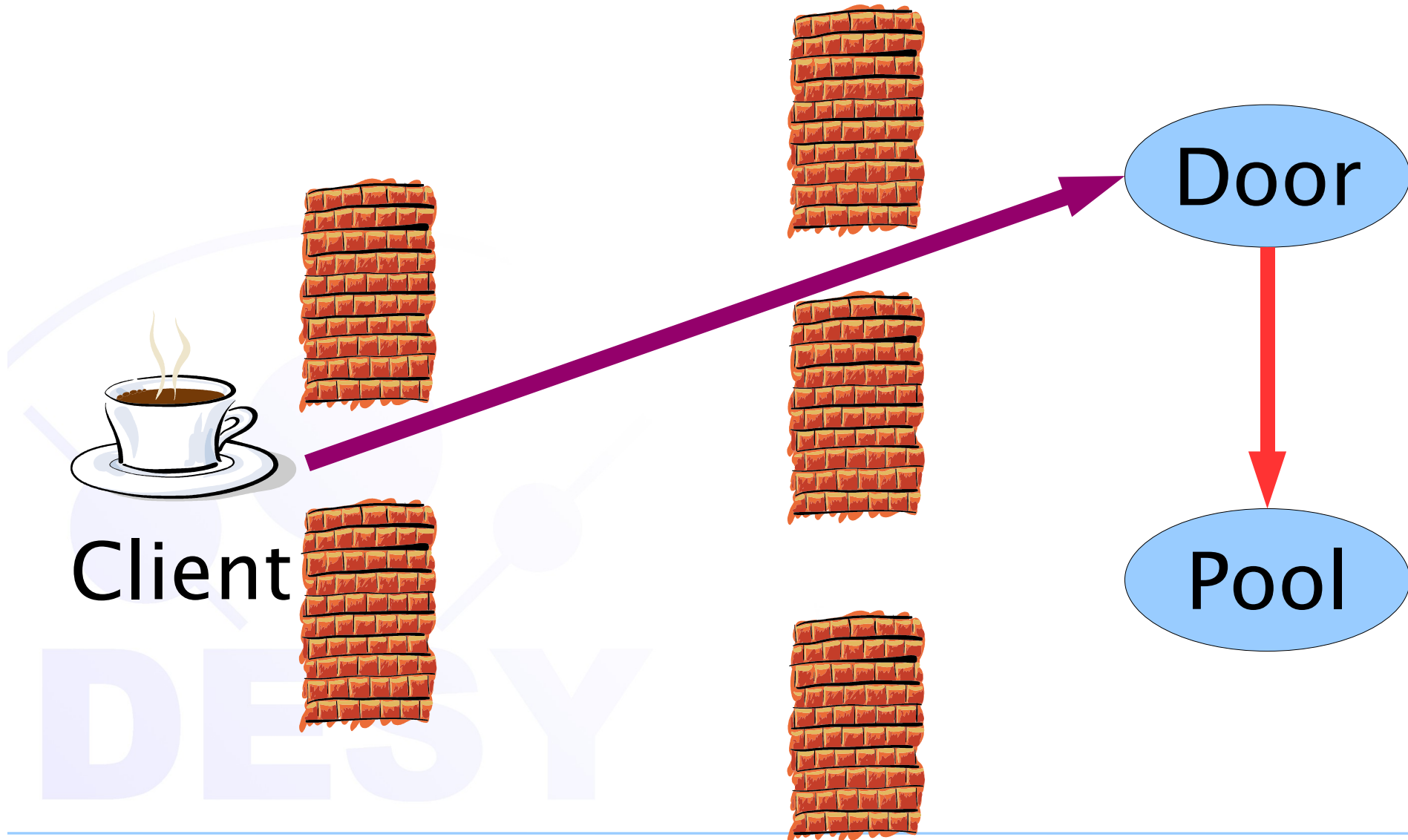
Protocols and Ports

dCache.ORG

20000:25000	=>	gridftp in pools
33115:33145	=>	passive dcap & xrootd
8443	=>	SRM
22223	=>	ssh
22125	=>	dcap
22128	=>	gsidcap
1049	=>	xrootd
2811	=>	gridftp
2288	=>	httpd
11111/udp	=>	lm
xxxxxx	=>	cells interconnect

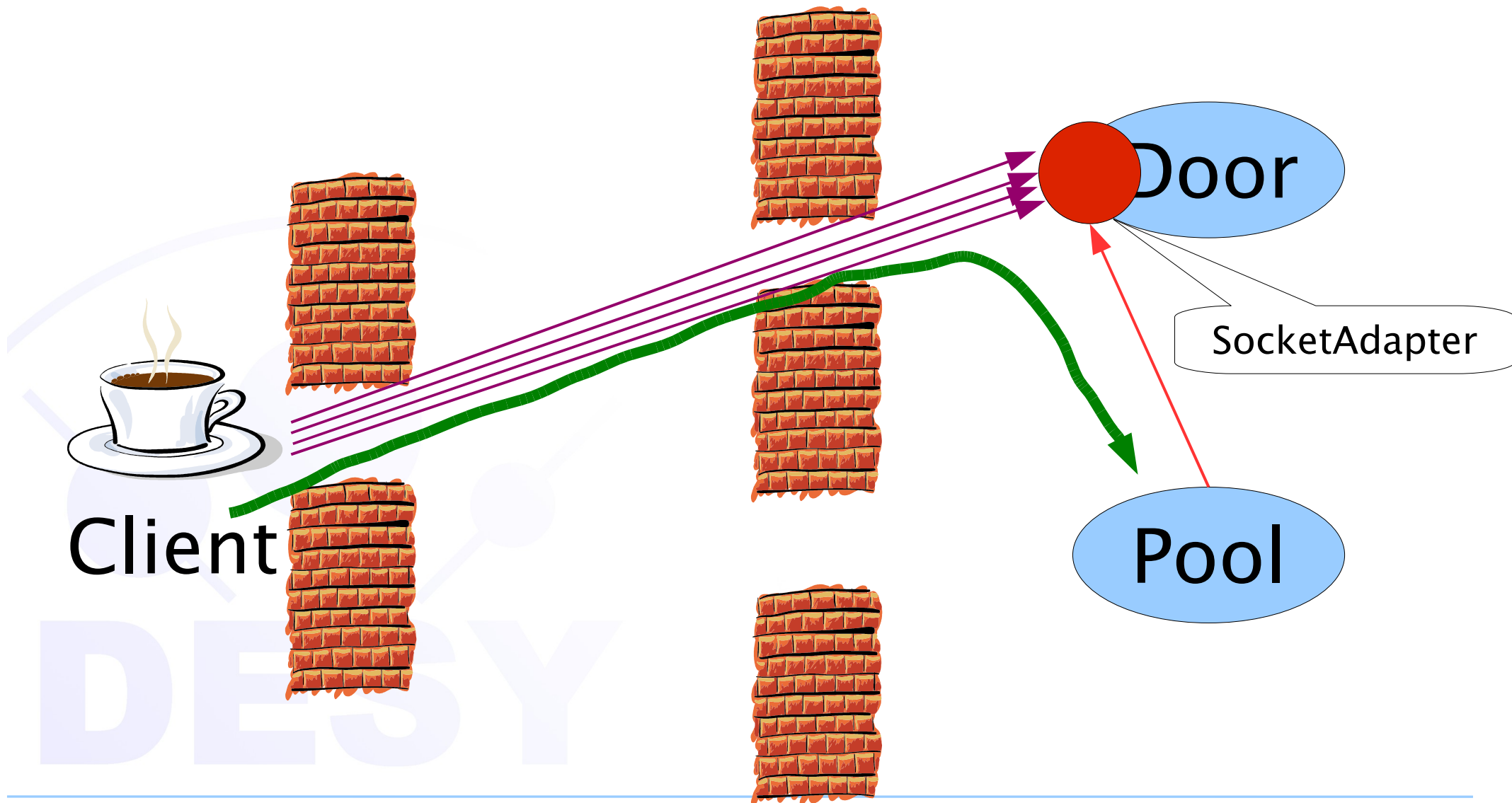
FTP write

dCache.ORG



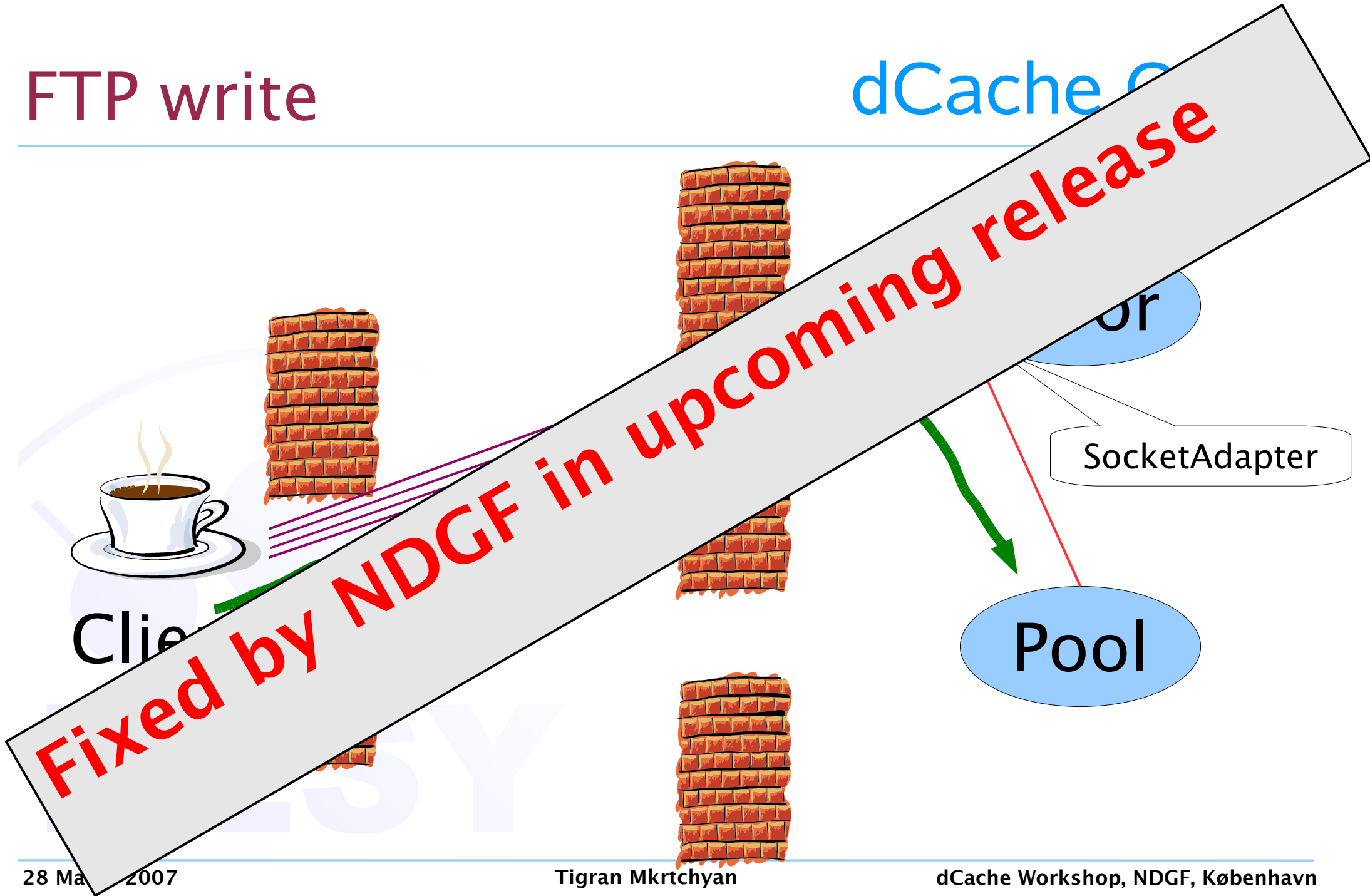
FTP write

dCache.ORG



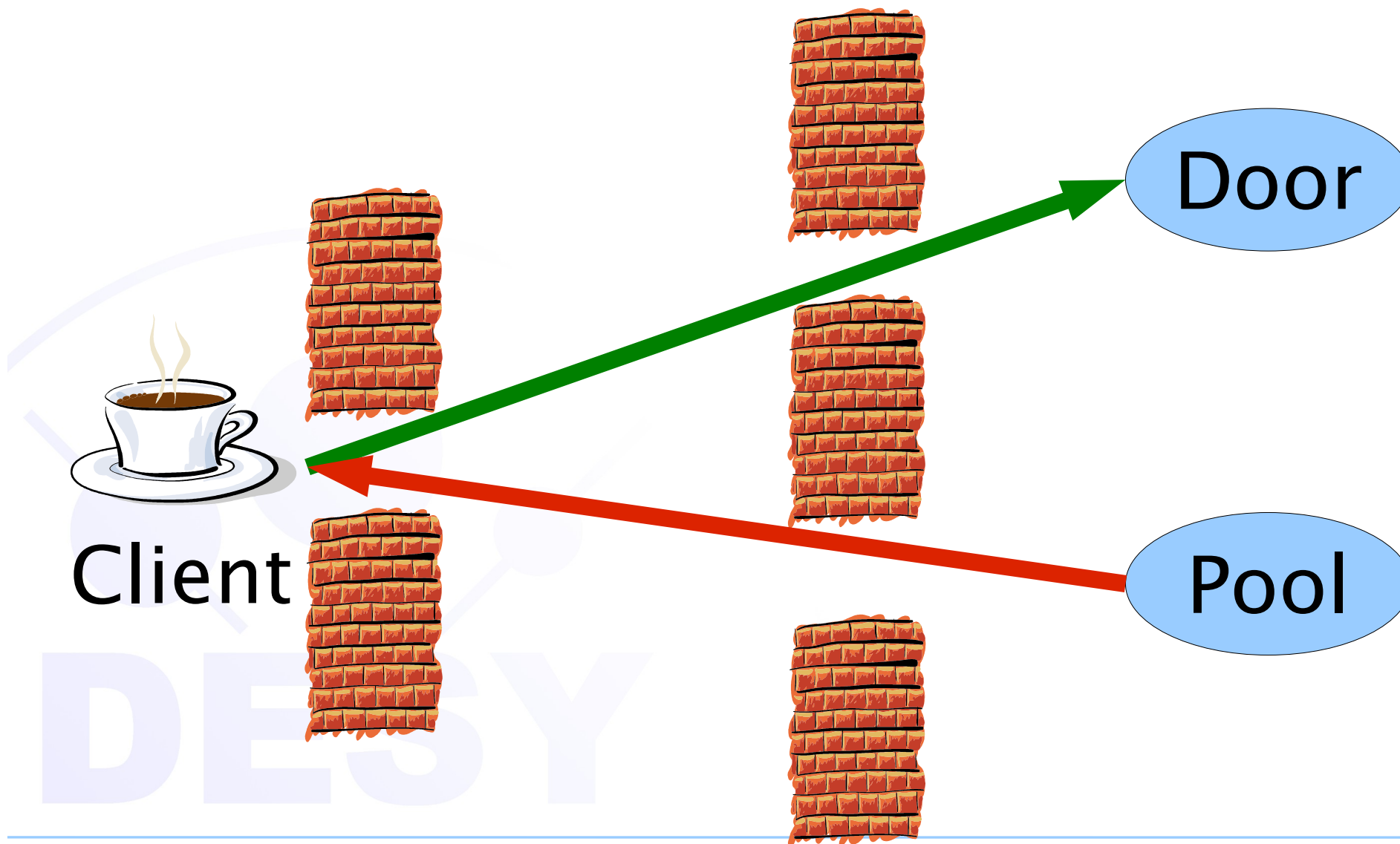
FTP write

dCache



FTP read

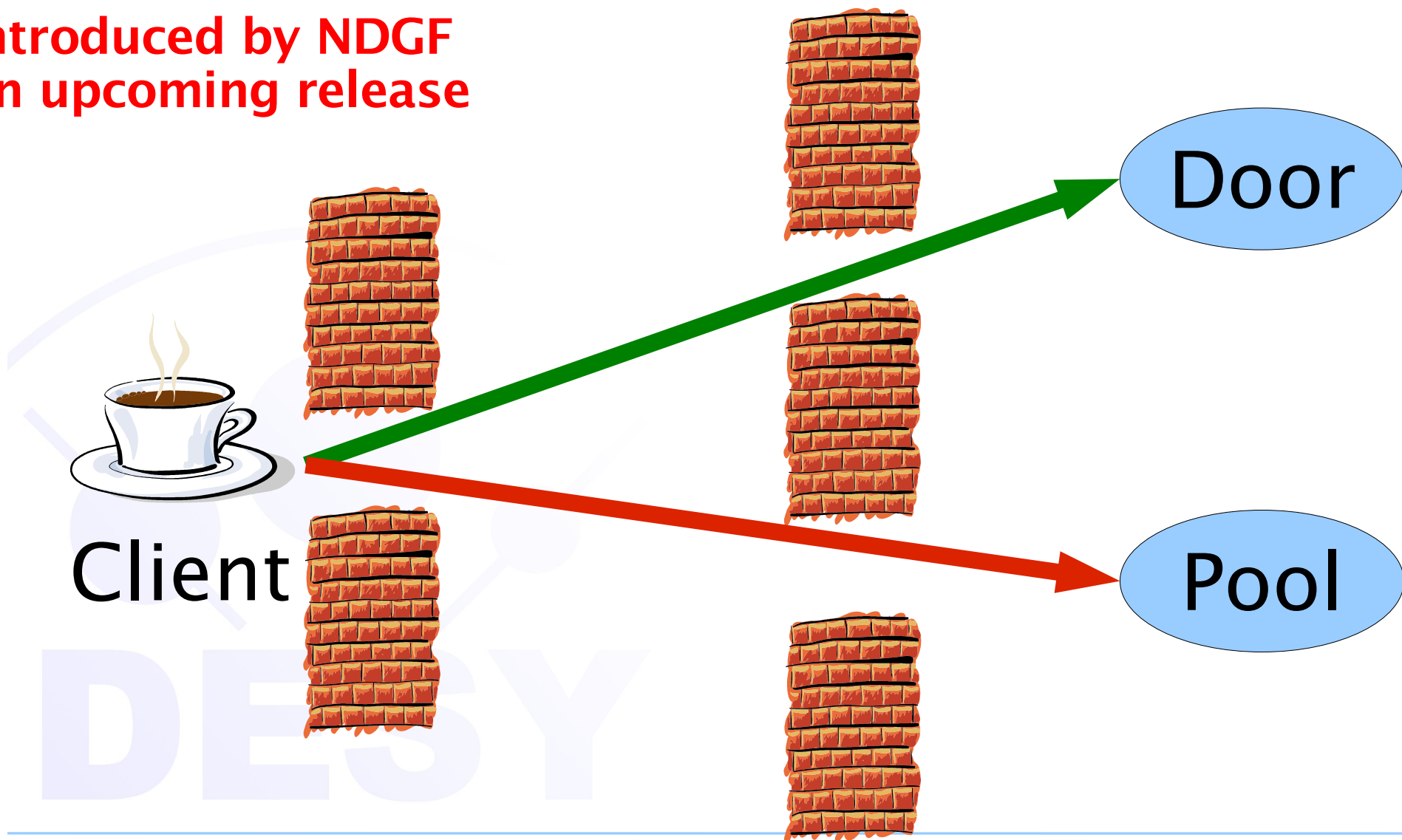
dCache.ORG



FTP read

dCache.ORG

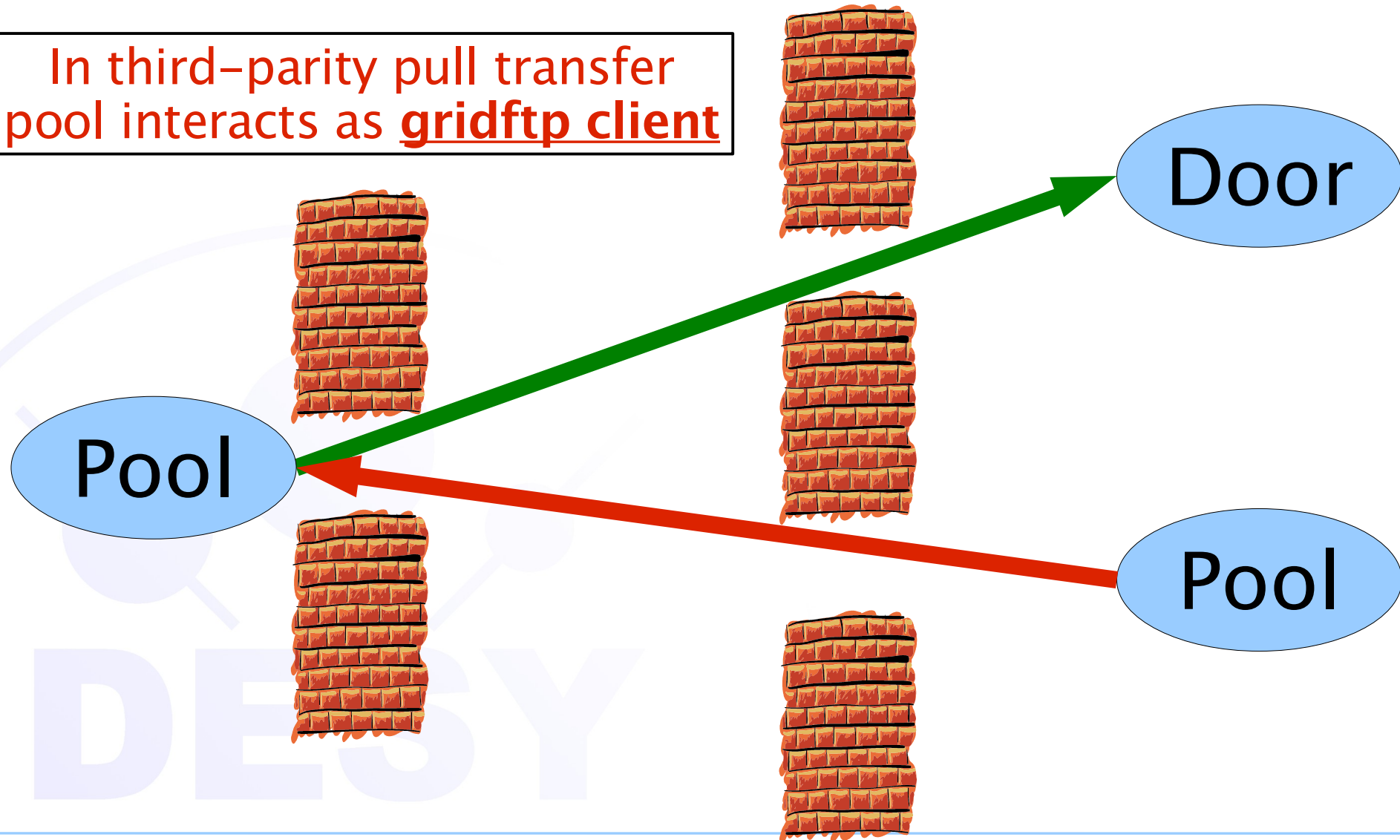
Introduced by NDGF
in upcoming release



SRM-COPY, PULL

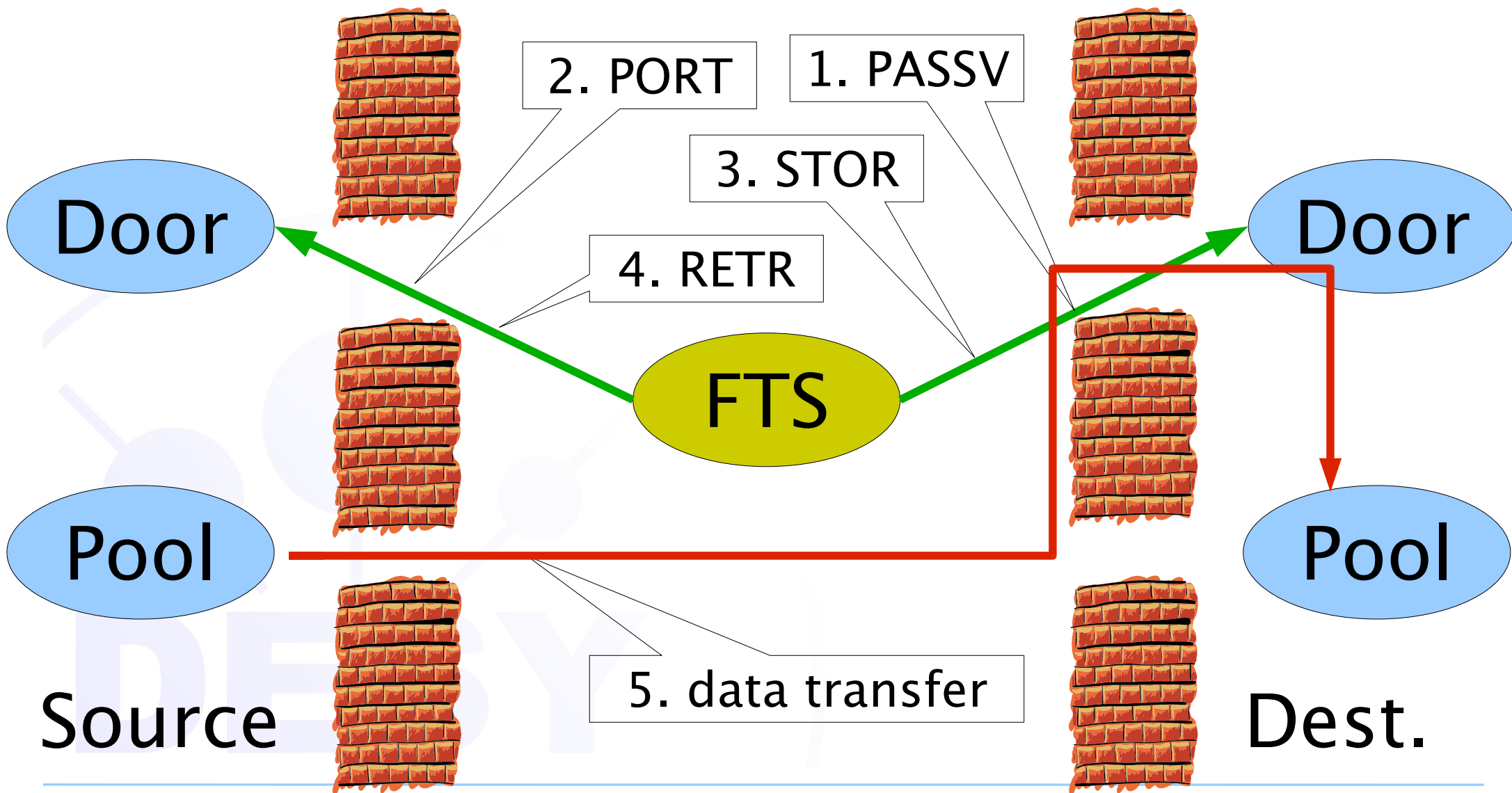
dCache.ORG

In third-parity pull transfer
pool interacts as gridftp client



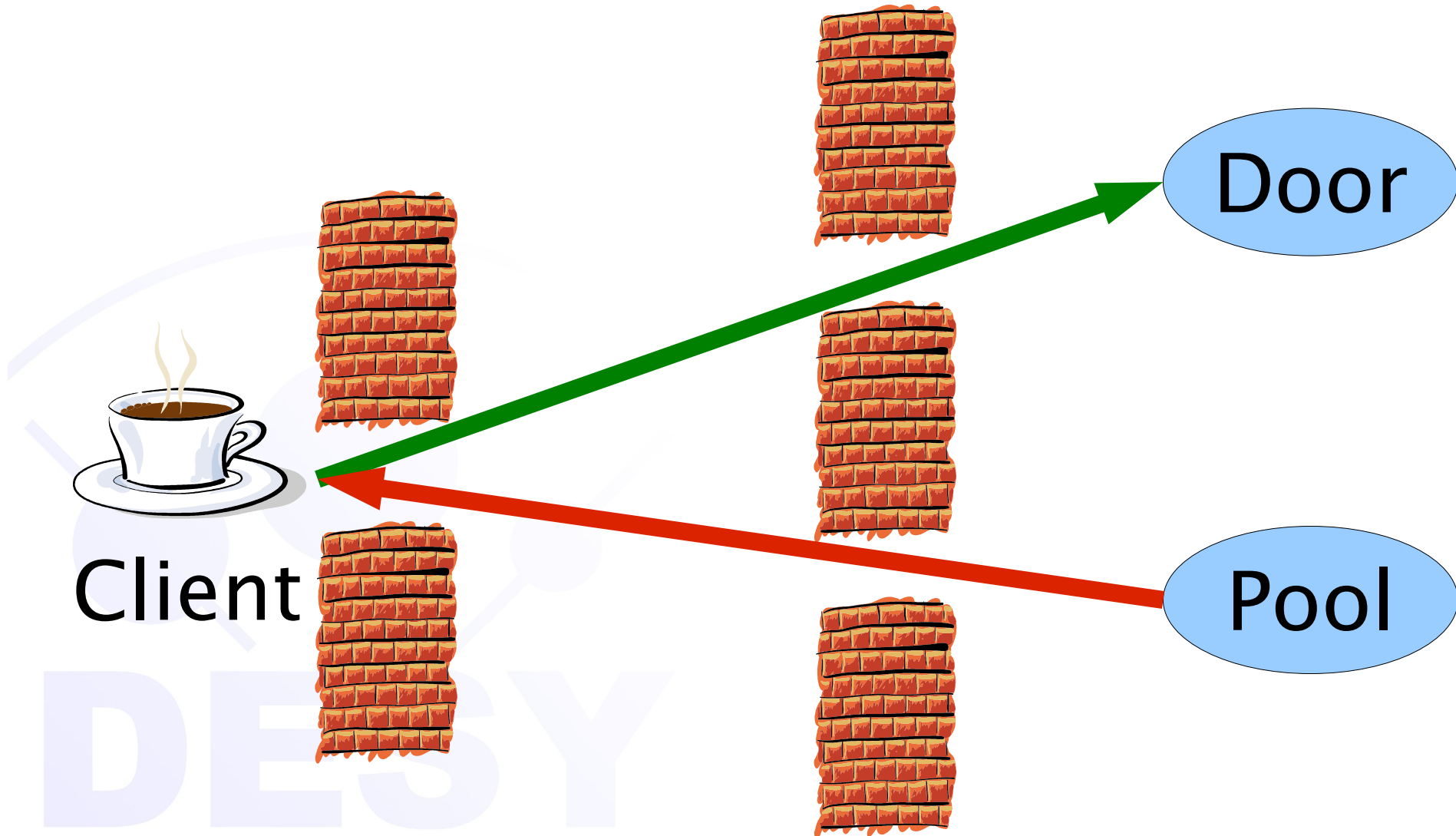
FTS(FTP) COPY

dCache.ORG

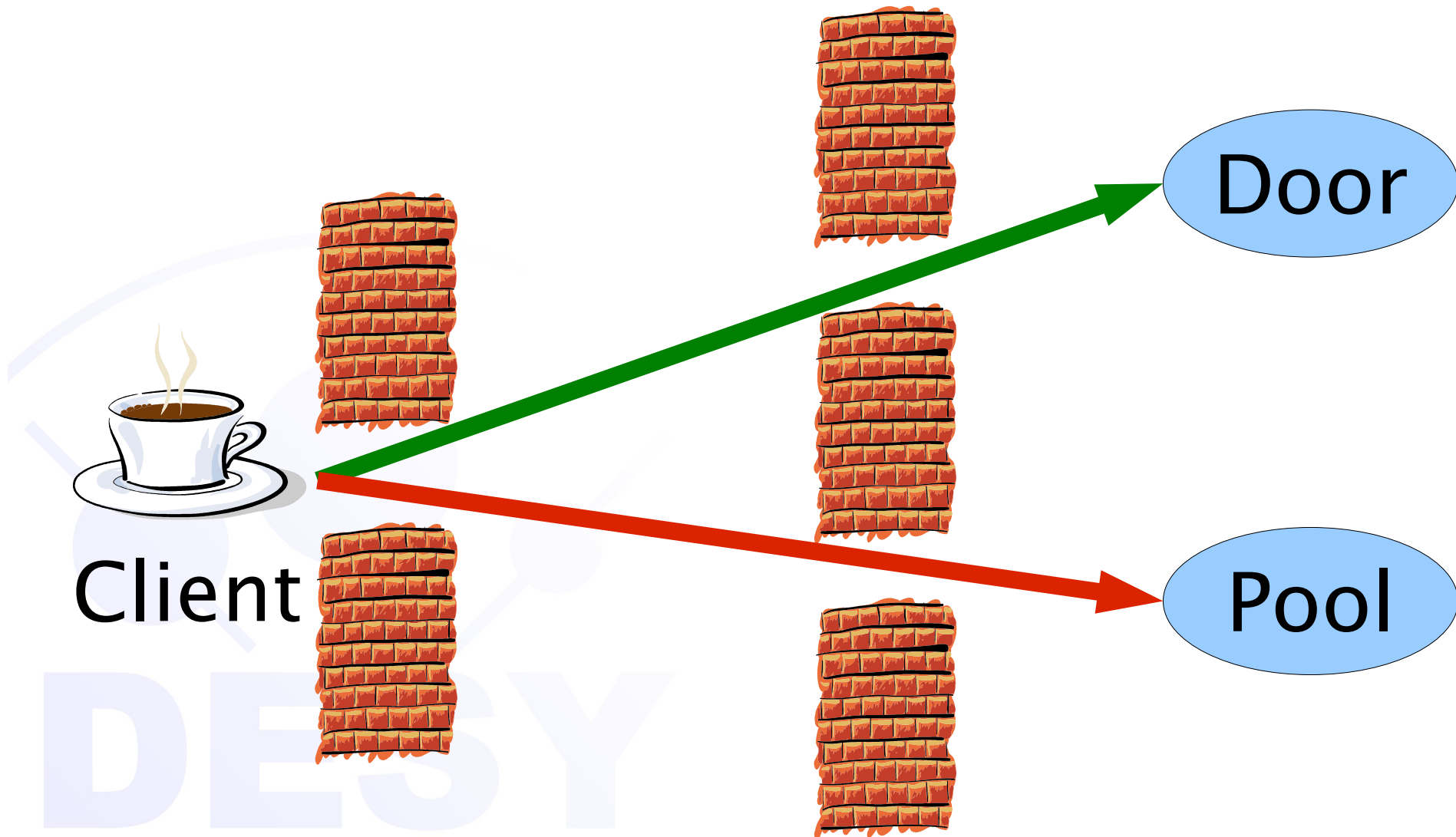


DCAP (read, write)

dCache.ORG

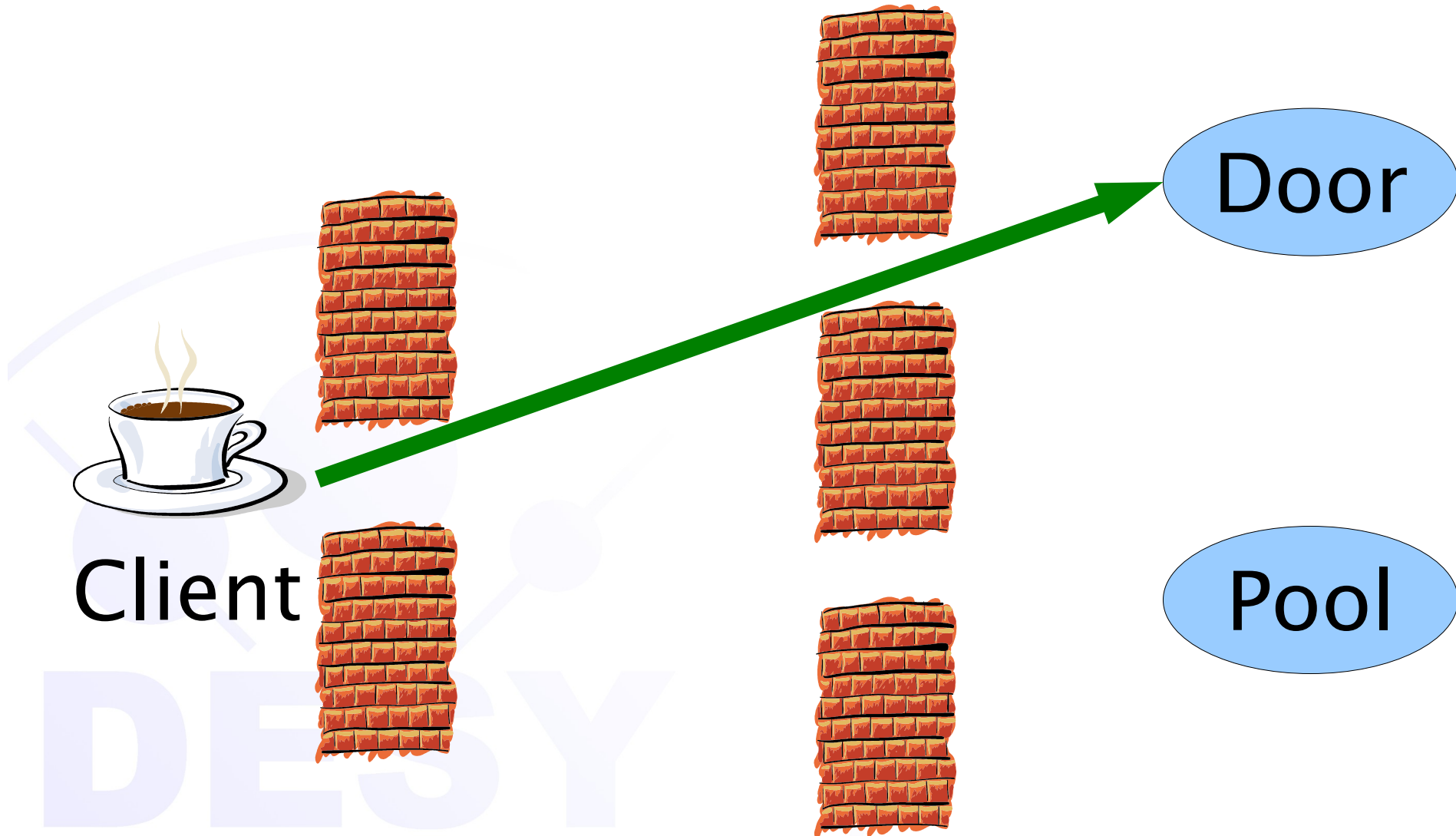


PASV. DCAP (read, write) dCache.ORG



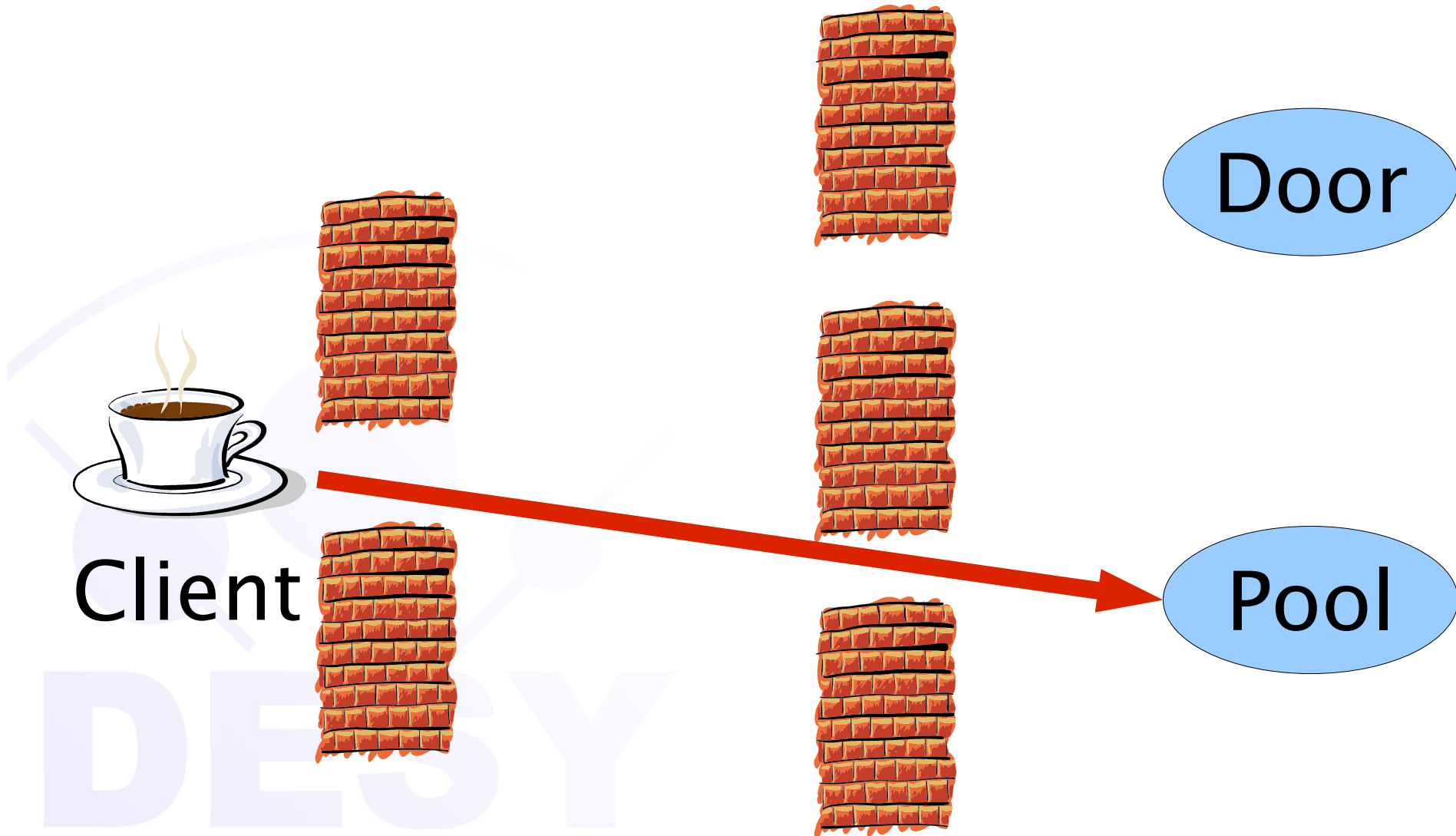
xROOTD (read, write)

dCache.ORG



xROOTD (read, write)

dCache.ORG



FTP data connections:

dCacheSetup file:

clientDataPortRange=20000:25000

java_options (dCacheSetup):

-Dorg.globus.tcp.port.range=20000,25000

DCAP and xROOTD:

java_options (dCacheSetup):

-Dorg.dcache.net.tcp.portrange=33115:33145

Tweaking (Im.config)

dCache.ORG

```
# Im.config  
#  
define dCacheDomain  
listen dCacheDomain -port=<port>  
#  
#  
define *  
defaultroute * dCacheDomain  
connect * dCacheDomain  
define ImDomain  
#
```

-listen *<IP>* option in the batch file allows to bind a door to an interface.

gsiftpAdapterInternalInterface parameter in dCacheSetup files defines the interface for pool \leftrightarrow adapter communication.

There is no special support for multihomed pools.

This means, that there is no special effort to propagate network/firewall setup into dCache.

As a solution for complex setups, please use PoolManager's *network units* and *links*.