

Pool Management and Pool Selection



amespace vs File Location

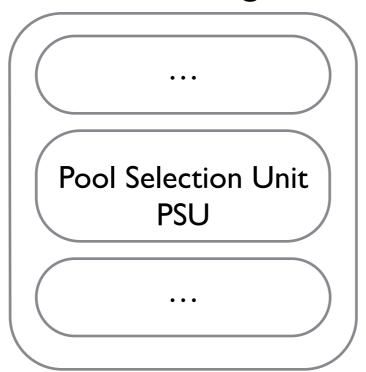
NameSpace

/data

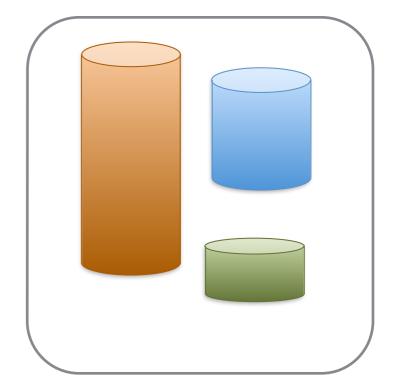
- |- certBased
- |- kpwd
- |- noAccess
- world-writable

- ..

Pool Manager



dCache Pools



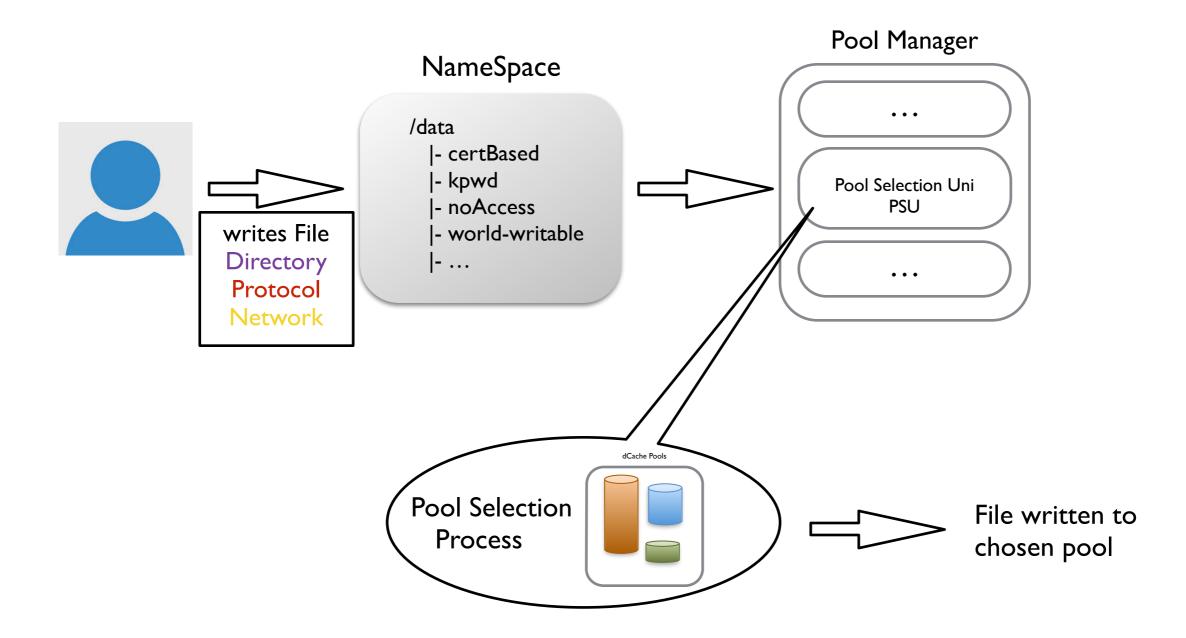
no idea where the file is stored

selects the pool where the physical file gets stored

has physical files stored, is otherwise dumm



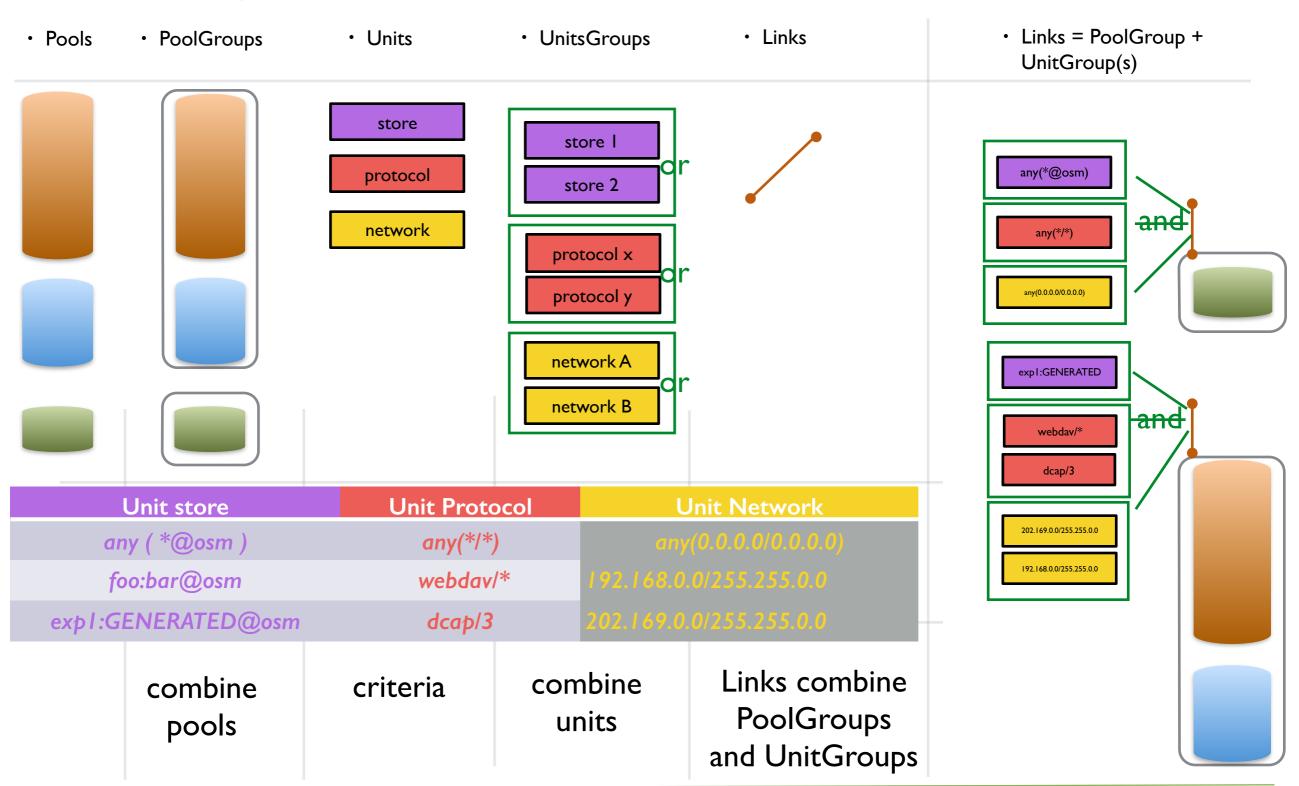
Pool Selection Unit





Pool Selection Process

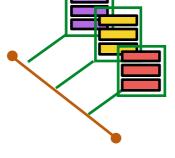
some terminology



Pool Selection

some rules

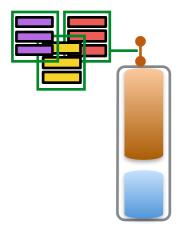
• Links are chosen when all their UnitGroups are matched



 The unit group is matched if at least one of the units is matched



 All pools in the linked PoolGroup are chosen as a possible location to write





- Links have assigned preference values
 - readpref
 - writepref
 - cachepref
 - p2ppref
- · Value 0 means NO
- Value > 0 means YES
- For different values >0 a set of lists of pools is created
- Pools with higher preference value are chosen first

Example: Pool Selection



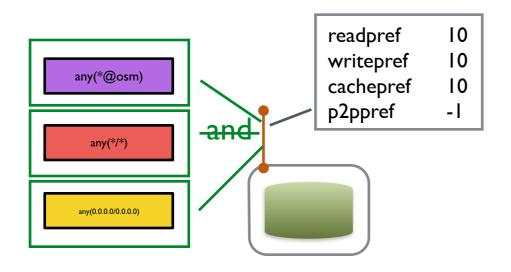
\$ cp /home/localFile /data/exp2/exp2_f5.tst

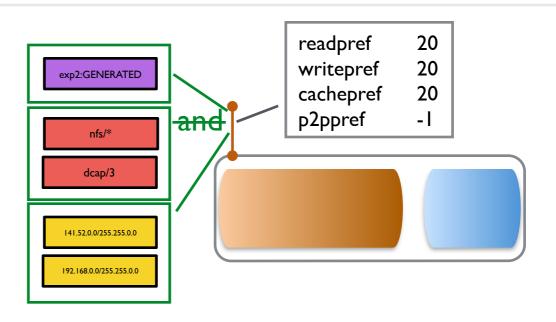
(write)
Transfer with

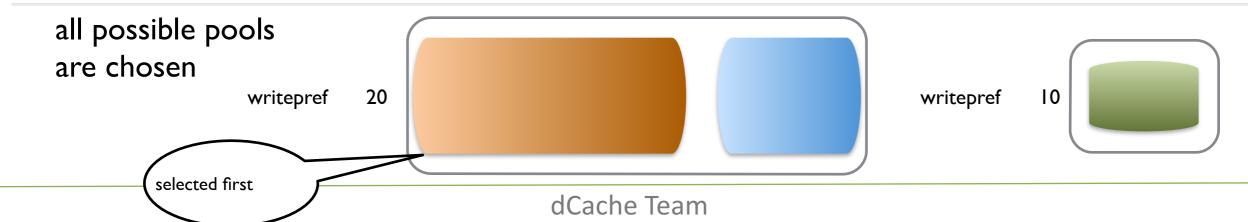
store	exp 2:GENERATED@osm
protocol	nfs
network	141.52.174.112

Looks at links

Pool Selection Uni PSU







Hands-on Content



What you will do in this part of the hands-on:

- reserve pools for storage
- assigning pools to a directory
- configure write and read pools