Goal of Unit II

- a dCache instance spanning 2 nodes: the HeadNode from Unit I + a new PoolNode
- 2 pools on each node
- two supported VOs: dteam alice
- VO-specific grouping of those pools
    - each VO gets one pool on the HeadNode and another one on the PoolNode

how to achieve that

- Task 1: add the 'alice'-VO via YAIM
- Task 2: install 2 new pools via YAIM on your PoolNode
- Task 3: migrate an entire pool from your HeadNode to your PoolNode
- Task 4: Assign the pools to the VOs
- Task 5 + 6: Testing

Task 1 – add the 'alice'-VO via YAIM

- on your HeadNode: edit your site-info.def

```
VOS="dteam alice"

RESET_DCACHE_CONFIGURATION=yes
RESET_DCACHE_PNFS=no
RESET_DCACHE_RDBMS=no
```

don't wipe PNFS, existing pools and databases

  and rerun YAIM

- current layout of PNFS

/pnfs/desy.de/data/dteam	(write access for dteam only, world-readable)
/pnfs/desy.de/data/alice	(write access for alice only, world-readable)

Task 2 – install new pools

- login to your HeadNode
- add two new pools by editing site-info.def

```
DCACHE_POOLS="<yourHeadNode>.desy.de:7:/pools/1 \
   <yourHeadNode>.desy.de:7:/pools/2 \
   <yourPoolNode>.desy.de:7:/pools/1 \
   <yourPoolNode>.desy.de:7:/pools/2”
```

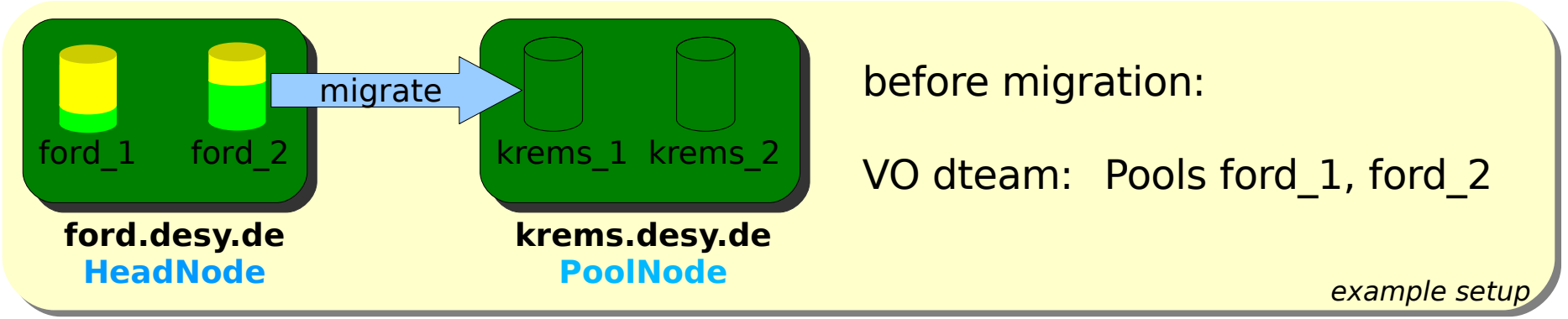
- copy the updated site-info.def to your PoolNode
  (the same site-info.def on all nodes !!)

- on your PoolNode: go ahead to install the new pools according to the site-info.def

Task 3 – Migrate a pool

- as a preparation for supporting 2 VOs:

  migrate a pool (moving it's content) from the HeadNode to the PoolNode



- the migration can be done via the maintenance module

Task 4 - Assign pools to the VOs

- assign a pool per node to each VO

- Advantage: the risk of a poolnode failure is equally distributed across the 2 VOs

(has proven to be a good practice)

Task 5,6 – testing the new setup

- test (GSI-based) read- and write-access to your dCache instance from the UI
  - use both Grid certificates (each one gives you either access to dteam oder alice)
- check what the InfoProvider publishes to the Information-System
  - execute a ldap-query against your HeadNode
  - grep the output for available/used space - per VO