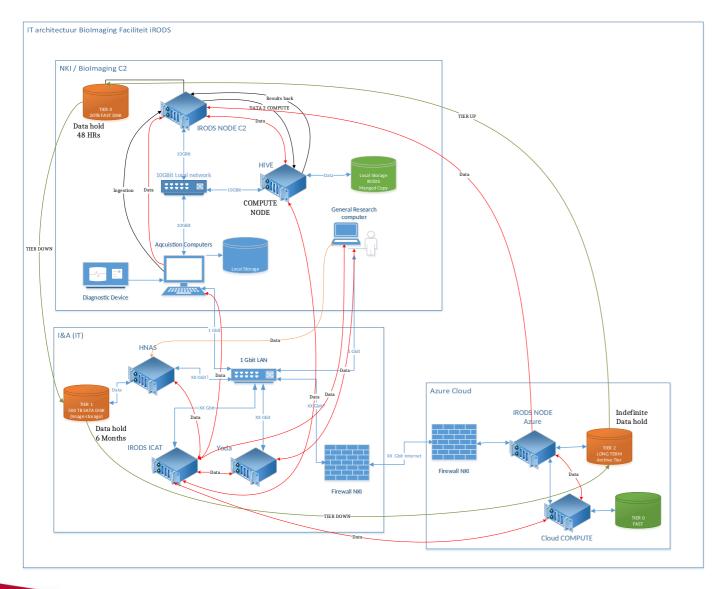
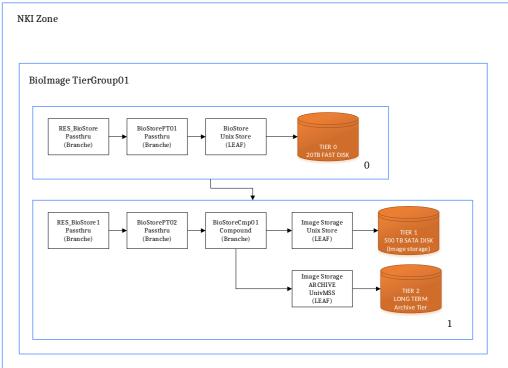
## RODS







## RODS

```
# set the default resource to eudat
     acSetRescSchemeForCreate {
             on ($objPath like "*/irods/archive/*") {
9
                 msiSetDefaultResc("rootImgResc", "preferred");
10
11
12
     acSetRescSchemeForRepl {
13
             on ($objPath like "*/irods/archive/*") {
14
15
                 msiSetDefaultResc("rootImgResc", "preferred");
16
17
18
19
     acSetRescSchemeForCreate {msiSetDefaultResc("rootImgResc","pre
20
     acSetRescSchemeForRepl {msiSetDefaultResc("rootImgResc", "prefe
21
22
     # on put action
23
     # if the name of the resource group is "rootImgResc" replicate
24
     # include destination filepath "imgStoreResc" only. A replicated tageToCache ()
25
     # imgStoreResc is local disk cache
26
     # imgArchiveResc is Azure archive
27
     acPostProcForPut {
28
             #ON($rescName like "eudat" && $filePath like "/mnt/img
29
             ON($filePath like "/mnt/img_storage/*" ) {
30
                     # writeLine("serverLog", "Execute command to re
31
                     delay("<PLUSET>1m</PLUSET><EF>1h DOUBLE UNTIL
                              #writeLine("serverLog","filePath: $fil
32
33
                              *CompoundRescName="rootImgResc"
34
                              *CacheRescName = "*CompoundRescName;
                              *ArchiveRescName = "*CompoundRescName:
35
36
                              writeLine("serverLog", "Execute command
     put");
37
                              msisync to archive("*CacheRescName", $
38
39
40
```

```
IRODS_FILE=$(echo "/mnt/img_storage/home/adm_ja.d.graaf/test24" | perl -pe 's/mnt[\]img_storage/nki/')
 #echo " $(date +"%Y%m%d-%T") COMMAND: " /usr/bln/azcopy copy $1 https://nkicfmpbwestp01st.blob.core.windows.net/irods$2 --metadata=$IRODS_META >> /tmp/output2
 #/usr/bin/azcopy copy $1 https://dopathologydatat01st.blob.core.windows.net/irods$2 --metadata=$IRODS META --put-md5 --block-blob-tier='Archive' >> /tmp/output2
 /usr/bin/azcopy copy $1 https://dopathologydatat01st.blob.core.windows.net/irods$2 --metadata=$IRODS META --put-md5 --block-blob-tier='Cool' >> /tmp/output2
 echo " $(date +"%Y%m%d-%T") STOP AZCopy" >> /tmp/output2
function for staging a file $1 from the MSS to file $2 on disk
 # <your command to stage from MSS to cache> $1 $2
 # e.g: /usr/local/bin/rfcp rfioServerFoo:$1 $2
 echo " $(date +"%Y%m%d-%T") START AZCopy (dearchive) " $2 $1 > /tmp/output2
 export AZCOPY AUTO LOGIN TYPE=SPN
 export AZCOPY SPA CLIENT SECRET=
 export AZCOPY SPA APPLICATION II
 export AZCOPY TENANT ID=
 # Set data to HOT tier
 echo " $(date +"%Y%m%d-%T") Dearchive to HOT tier " $2 >> /tmp/output2
 #/usr/bin/azcopy set-properties https://dopathologydatat01st.blob.core.windows.net/irods$2 --block-blob-tier=hot >> /tmp/output2
 AZ_TIER=$ (/usr/bin/azcopy list https://dopathologydatat01st.blob.core.windows.net/irods$2 --machine-readable --properties BlobAccessTier | grep -E "BlobAccessTier" | Properties BlobAccessTier | Grep -E "BlobAccessTier" | Grep -E "Bl
 echo " $(date + "%Y%m%d-%T") CURRENT TIER: "$AZ TIER" : " $2 >> /tmp/output2
 # wait until tier is ho
 while [ "$AZ TIER" != "Hot" ]
    AZ TIER=$ (/usr/bin/azcopy list https://dopathologydatat01st.blob.core.windows.net/irods/$2 --machine-readable --properties BlobAccessTier | grep -E "BlobAccessTier"
    echo " $(date +"%Y%m%d-%T") CURRENT TIER: "$AZ TIER" : " $2 >> /tmp/output2
    #Wait
    #random between 1-10second
    #sleep $[ ( $RANDOM % 10 ) + 1 ]s
    echo " $(date +"%Y%m%d-%T") waiting..." >> /tmp/output2
    # wait 30 seconds
    sleep 30s
 AZ TIER=$ (/usr/bin/azcopy list https://dopathologydatat01st.blob.core.windows.net/irods/mnt/imgArch storage/home/adm ja.d.graaf/test27 --machine-readable --properties
 echo " $(date + "%Y%m%d-%T") CURRENT TIER: "$AZ_TIER" : " $2 >> /tmp/output2
 echo "$(date +"%\%m\%d-%\T") copy to local" >> /tmp/output2
/usr/bin/azcopy copy https://dopathologydatat01st.blob.core.windows.net/irods\2 \$1 >> /tmp/output2
  echo " $(date +"%Y%m%d-%T") DONE AZCopy (dearchive) " $2 $1 >> /tmp/output2
```



## What do we need?



- Microsoft Azure Blob storage Plugin (like S3)
  - Leveraging parallel file transfers
  - Resumable file transfers
  - Add meta data
  - Leveraging storage tiering



