Bird-of-a-Feather 2

TRICKS

Bjørn Nachtwey

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Tips & Tricks & Workarounds: what's missing in ISP and how do we cope with?

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Let's start with …
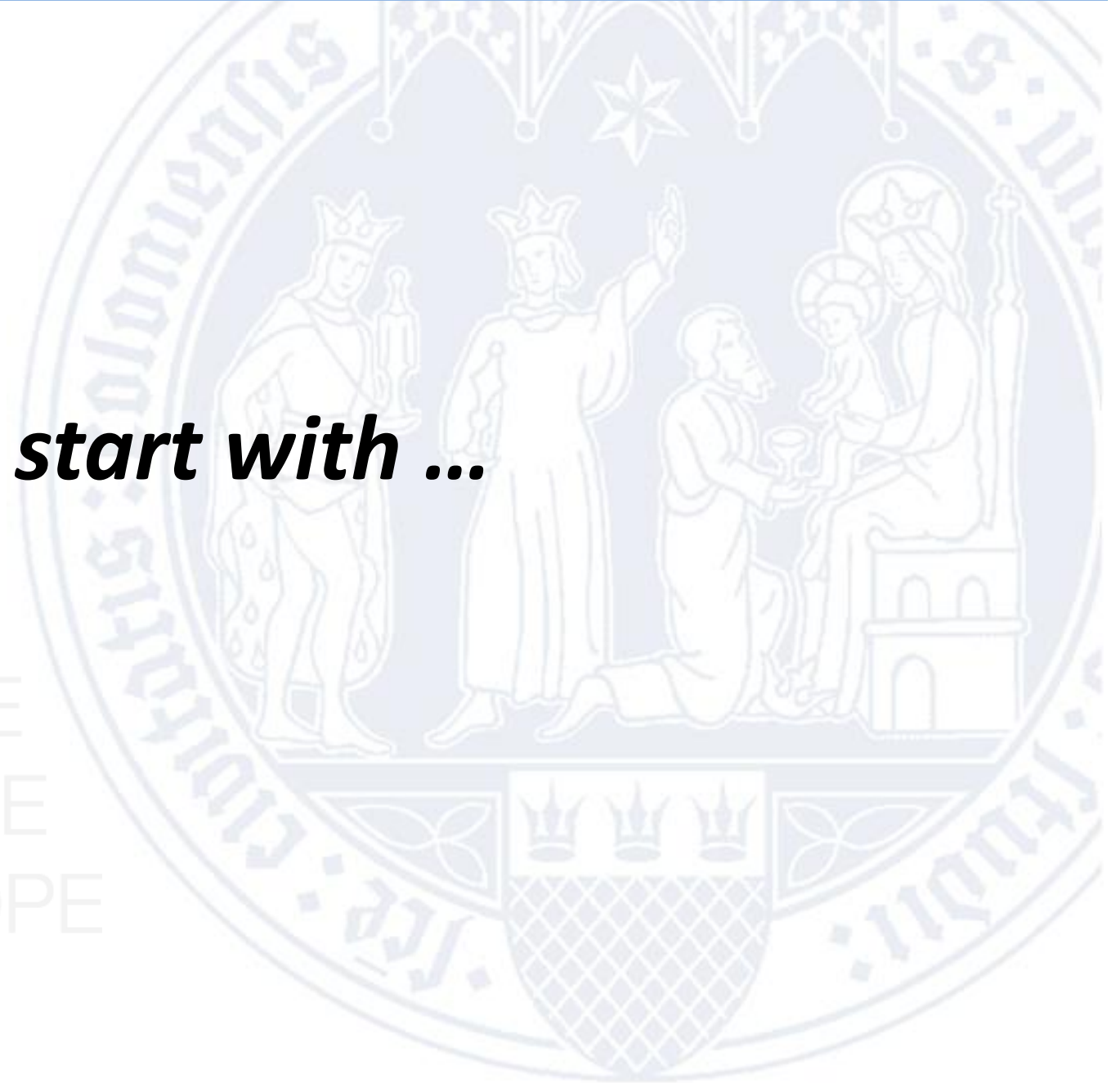
VIRTUALMountpoints for Windows

- a VIRTUALMOUNTPoint option is only available for Linux, Mac and Unices

- The only way to get dedicated folders backed up: Exclude all other folders (e.g. by EXCLUDE.DIR), but

  - a lot of effort (even if RegEx is possible)

  - error prone

  - does not allow to use RESOURCEUTILIZATION for multiple DOMAINs

VIRTUALMountpoints for Windows

Workaround

1. Create a (hidden) share for all folders you want to backup

```
net share sharename=folderpath /grant:username,permissions
```

- sharename: You can assign name to the share you are going to create
- username: Login id of the user whom you want to share the folder with
- permission: Read, Change or Full

VIRTUALMountpoints for Windows

2. Backup the folder(s) using the share names

example lines for „dsm.opt":

```
Domain „\\127.0.0.1\share1$"
Domain „\\127.0.0.1\share2$"
Domain „\\127.0.0.1\share3$"
```

VIRTUALMountpoints for Windows

3. Further Benefits

- you can define differing access rights for the share
  - you can use backup privileges instead of access rights
  - access for local administrators will be sufficient, no domain nor enterprise admin rights needed
- moving the data to different volumes does not change the path for TSM/ISP (e.g. when rebalancing due to performance issues)
  - no new full dumps needed

Something i added to TSM/ISP

Missing automatisms

- Remove admin accounts when forgetting to register node with „`-USERID=NONE`" -- fixed with ISP8 ✓

- Add all nodes of a domain to a collocation group of the same name
  - `https://gitlab.gwdg.de/bnachtw/TSM-Scripts/blob/master/Server-Maintainance/tsm-group-nodes.pl`

- Run a reclamation process on all LibClients of a shared library starting with that volume with the least data taking also filling in scope if they hasn't been accessed for some days – and do so only if there are at least 3 empty drives
  - `https://gitlab.gwdg.de/bnachtw/TSM-Scripts/blob/master/Server-Maintainance/scripted_reclamation_I1.pl`
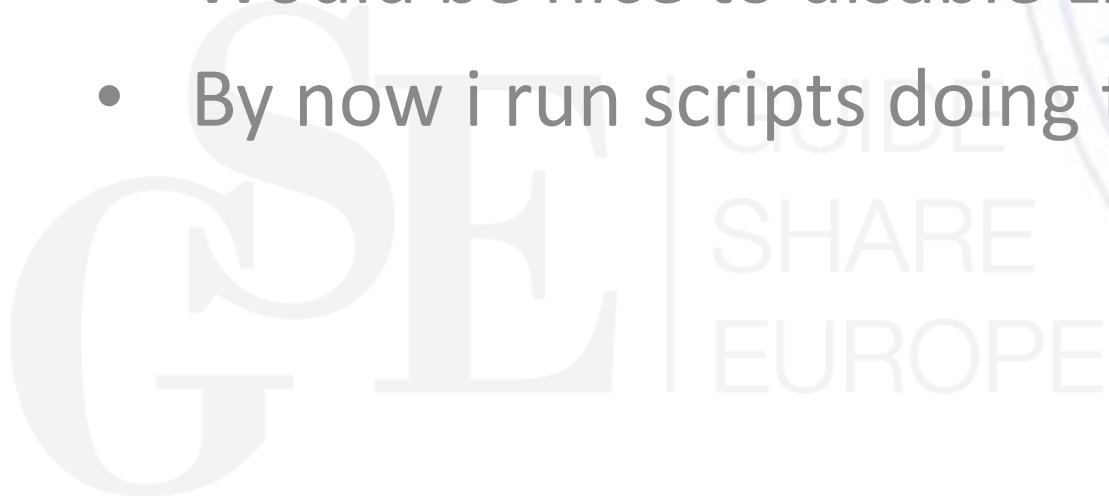
Still missing

PERForm LIBACTion

- Only allows to set drives offline, not paths
- For maintaince issues *I* often run a `audit library` afterwards, therefore i need drives online, but path to LibClients offline ☹
- Would be nice to disable LibClients paths
- By now i run scripts doing this of every path …

UPDate PATH

- Only knows „ONLine" and „OFFLine"
- A maintaince mode is missing:
  - „set path offline as soon as it isn't used"
  - => win rat race against accessing LibClients
- Workaround by
  - setting drives offline using PERF LIBACT
  - set paths offline as soon as no libclient is accessing
  - set LibMan paths online again
  - set drives online again

  https://www.ibm.com/developerworks/rfe/execute?use_case=viewRfe&CR_ID=135610

Anyone else with

tricks

workarounds

questions

requests

?

Requests / Suggestions from the audience

- RFE on setting the TCP... to zero

- Migration should concider the collocation group on the NEXT storagepool to avoid multiple tapes for one group each tapes beeing in the state „filling" but never get full

one way to cope with all this

- Join IBM Developer Network / RFE Community
- Place Requests for Enhancements (RFE)
- Support exiting RFEs to increase impact

https://www.ibm.com/developerworks/rfe/

FAQ on IBM and RFE

https://www.ibm.com/developerworks/rfe/
execute?use_case=changeRequestFAQ

another way to cope with all this

- Join GSE working groups

- E.g. „System Managed Storage (SSMSD)"

- Unfortunately you're attending the wrong BOF ;-)