Managing Virtual Organizations (VO) at DESY using LDAP

- **Virtual Organizations (VO) – Overview**
- **Grid-vo.desy.de – Overview**
- **DESY LCG account requests analyzer**
- **DESY VO and LCG USERS Administration Tool**

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Virtual Organizations (VO) – Overview

- **A virtual organization is a dynamic collection of individuals, and resources which is defined by certain sharing rules.**
- **Technically, a user is represented by his/her certificate**
- **The collection of authorized users is defined on every machine in /etc/grid-security/grid-mapfile**
- **This file is regularly updated from VO server**
- **The server holds a list of all users belonging to a collection**
- **This collection we call a VO!**
- **A VO is defined in central list, e.g. a LDAP tree**

grid-vo.desy.de – Overview

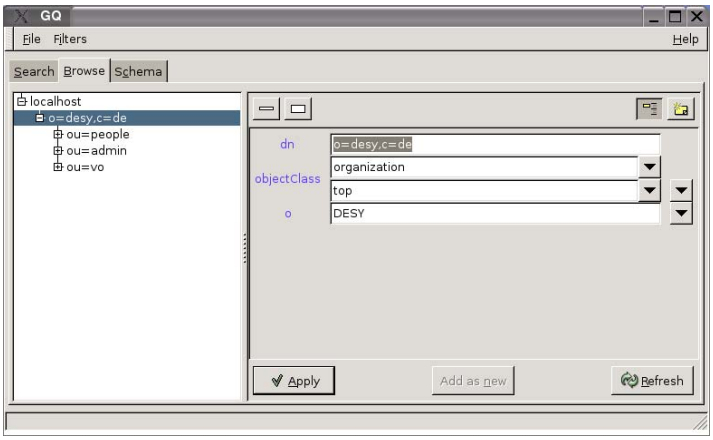


Figure 1: The LDAP server has 3 sub-trees, 'people', 'admin' and 'vo'

grid-vo.desy.de – Overview

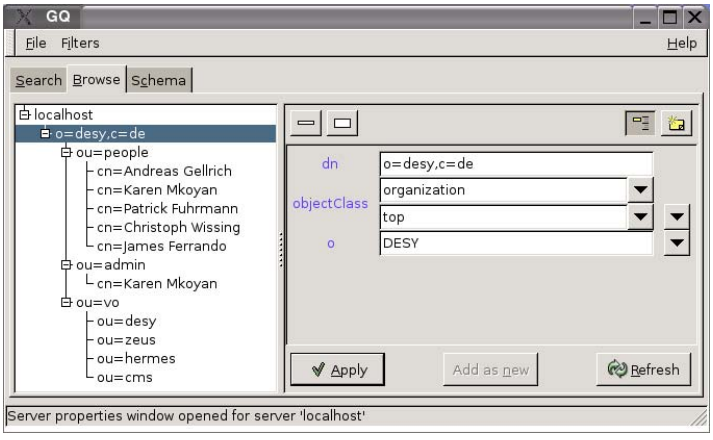


Figure 2: All trees are expanded.

grid-vo.desy.de – Overview

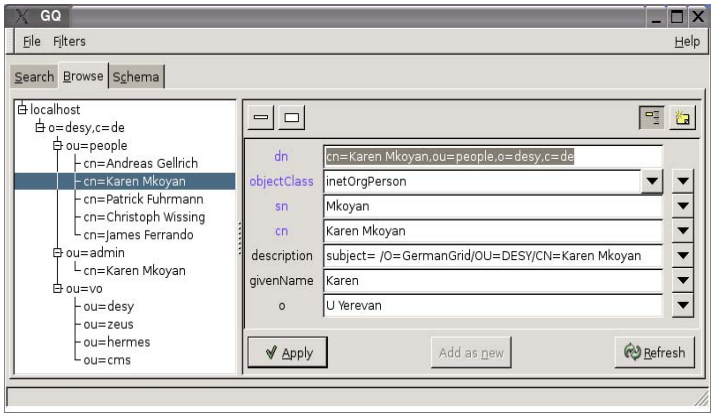


Figure 3: Person 'Karen Mkoyan' expanded, viewing details.

grid-vo.desy.de – Overview

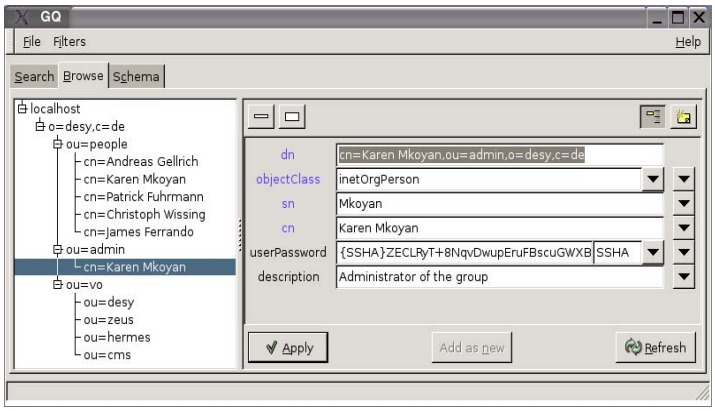


Figure 4: Group Administrator 'Karen Mkoyan' expanded, viewing details.

grid-vo.desy.de – Overview

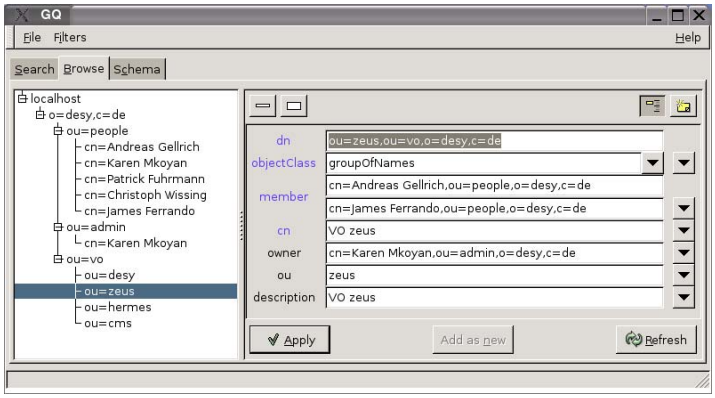


Figure 5: Group Administrator 'Karen Mkoyan' is the owner of VO 'zeus'.

grid-vo.desy.de – Overview

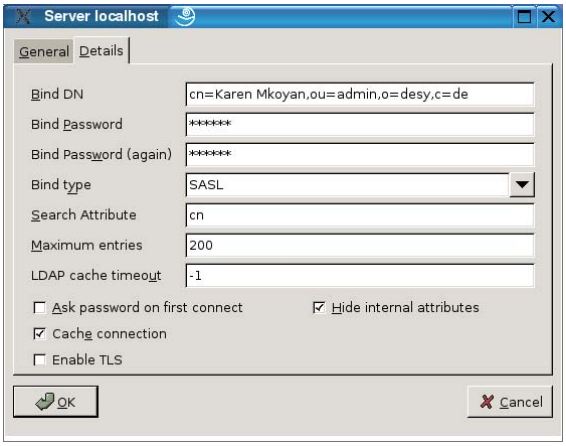


Figure 6: The DN to bind with to the LDAP server.

grid-vo.desy.de – Overview

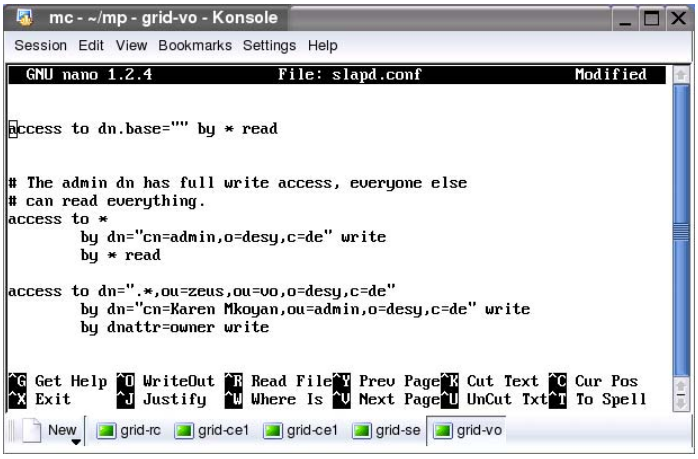
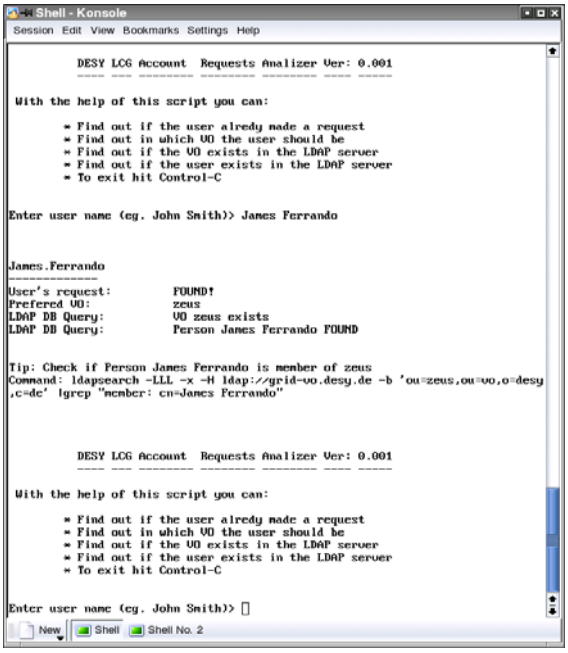
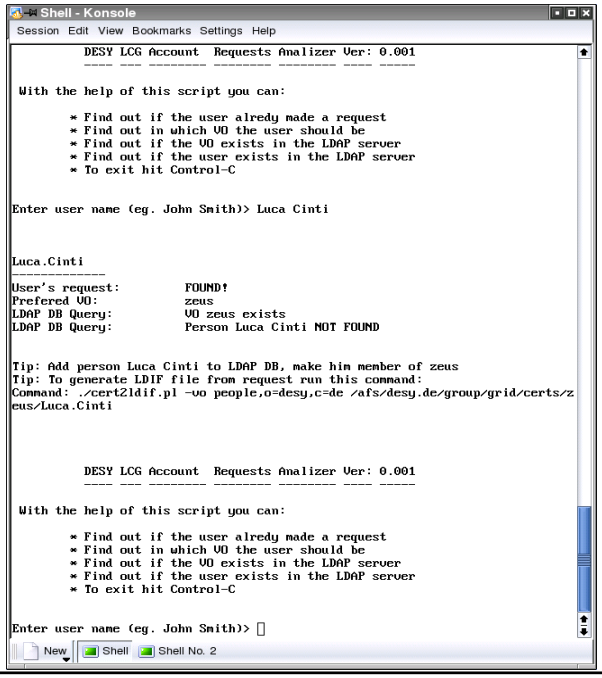


Figure 7: A part of the LDAP server configuration file, 'Karen Mkoyan' is VO 'zeus' admin.

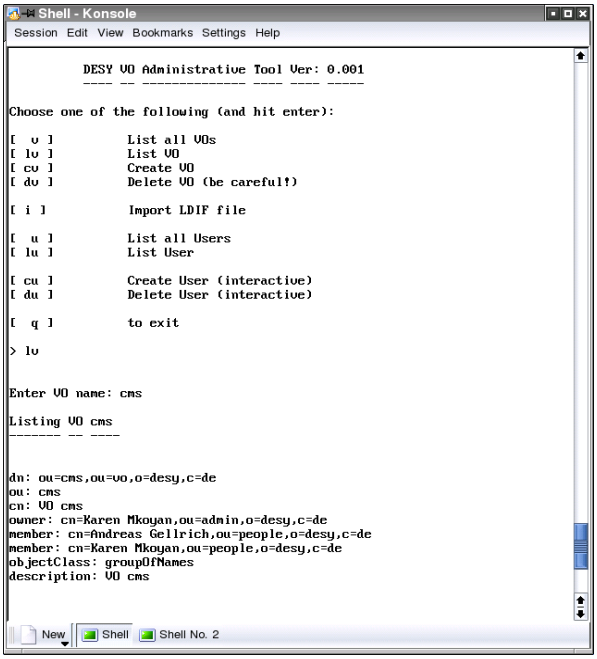
DESY LCG account requests analyzer



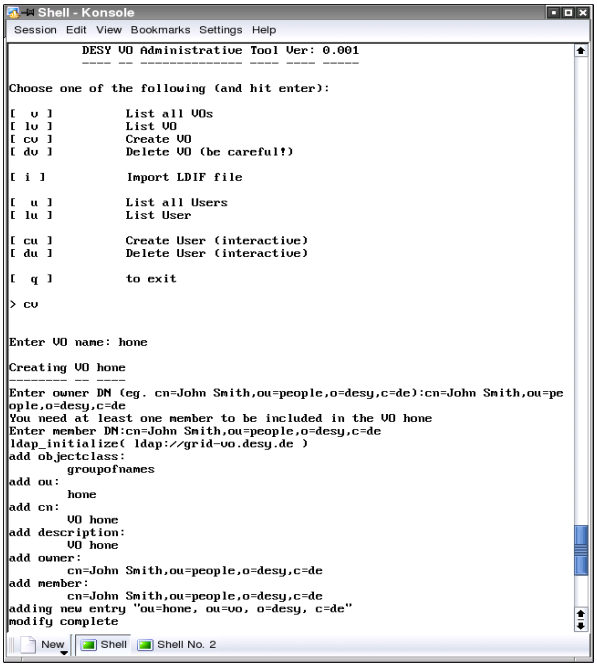
DESY LCG account requests analyzer



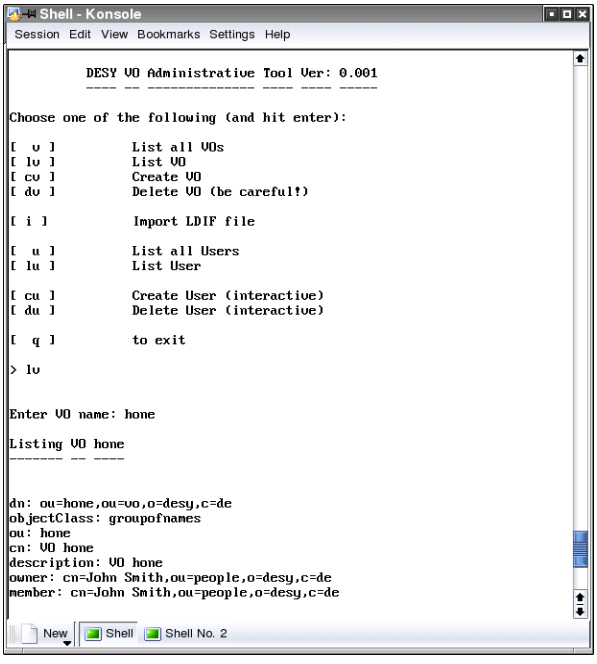
DESY VO and LCG USERS Administration Tool



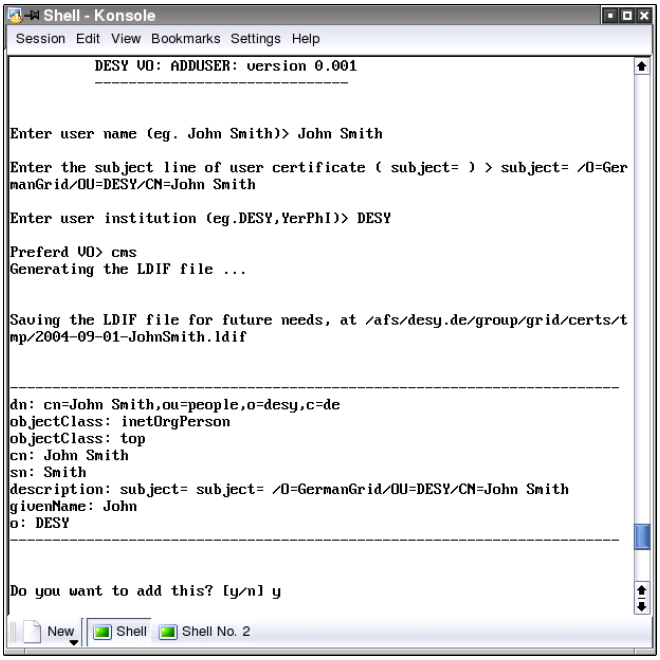
DESY VO and LCG USERS Administration Tool



DESY VO and LCG USERS Administration Tool



DESY VO and LCG USERS Administration Tool



Full Report is available at

http://grid.desy.de/talks/

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