

# FZK-LCG2 Site-Status

S. Gabriel<sup>1</sup>

<sup>1</sup>Institut f. Wissenschaftliches Rechnen  
Forschungszentrum Karlsruhe

18. - 19. Sept. 2006 / SC4 Tier2 Workshop LMU, München



# Outline

- 1 Introduction
  - Site-Setup
  
- 2 FZK-LCG2
  - Site Status



# Outline

- 1 Introduction
  - Site-Setup
- 2 FZK-LCG2
  - Site Status



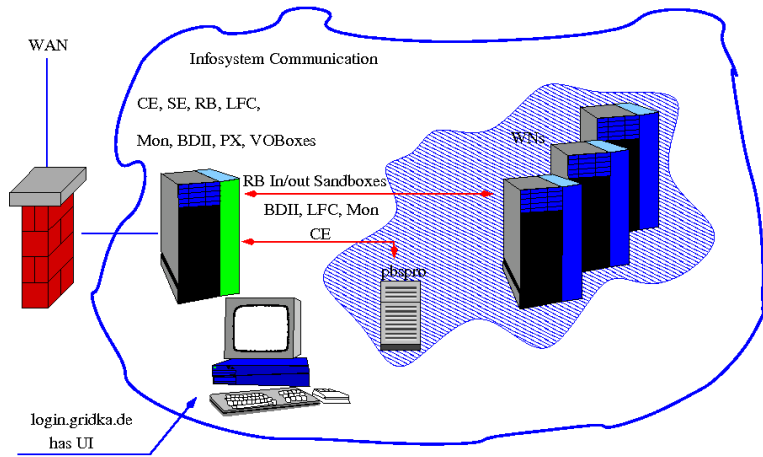
# Outline

- 1 Introduction
  - Site-Setup
- 2 FZK-LCG2
  - Site Status



# Network

## Private/Public Network

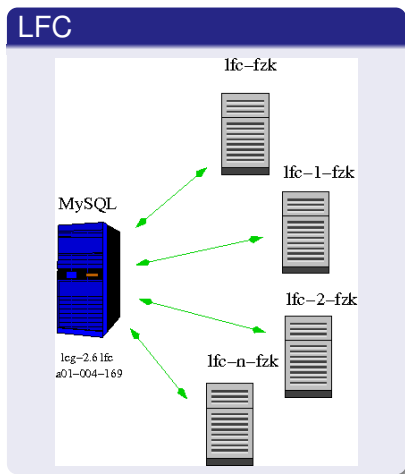


# Middleware

## Support for sec. Network

- Support for **sec.** Network Interface
- Info-System
  - globus-mds: Start as daemon
  - bind slapd to both interfaces
  - bdii: patch to bdii to provide info on both interfaces (bdii-fw/bdii-update)
- CE: jobsubmit: submit-helper script
- Internal/external the same name (hostcertificates)



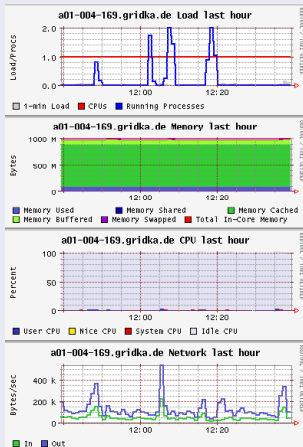
FZK-LCG2  
LFC

## LFC-Setup

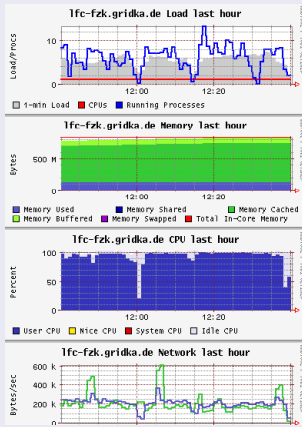
- Main cpu load due to security overhead
- Admin: min. DB maintenance
- connect lfc-nodes to the same db

FZK-LCG2  
LFC-Ganglia

## DB-LFC



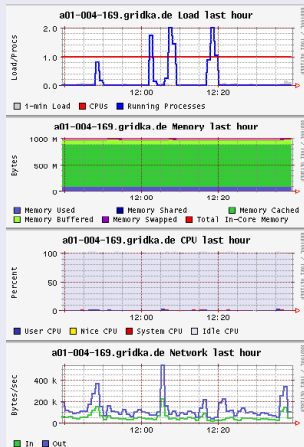
## GSI-LFC



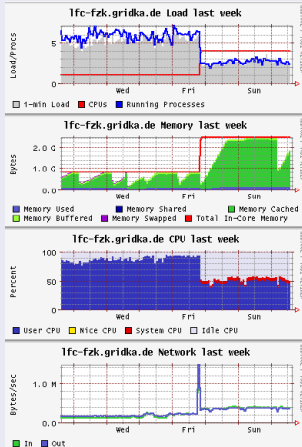


FZK-LCG2  
LFC-Ganglia

## DB-LFC



## GSI-LFC



# FZK-LCG2

- 2 CEs
- Non-nfs (ssh keys, submit-helper)
- connect CEs to pbspro
- Avoid mapping of different users to the same poolaccount (nfs-shared gridmapdir)
- more CEs multiply the problems
- gLite-flavour CE will be set up within the next weeks in pps



# FZK-LCG2

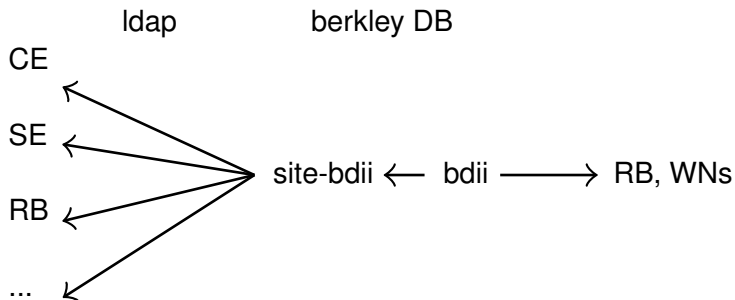
## VO-Boxes

- 1st Version of vboxes on experiment login nodes
- Setup in virtual servers for learning purposes
- Hardware replaced
- Problems with experiment specific services



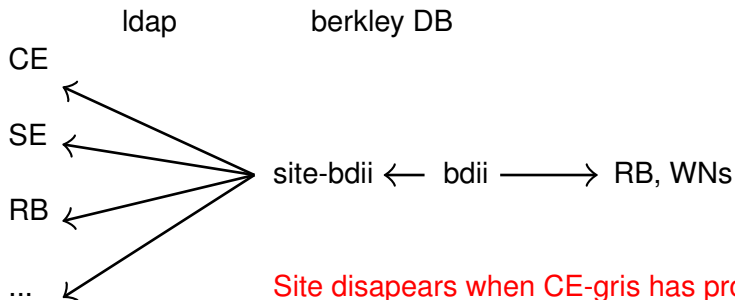
# FZK-LCG2

Infosystem



# FZK-LCG2

Infosystem



Site disappears when CE-gris has problems !

But! CE worked besides this correctly



# Problems

Infosystem-CE GRIS

## Problem

- under load CE-Vanishes from bdi
- Still unstable, many lcg-info-generic processes
- Idif file (presentet to giis) sometimes empty
- Idif still empty from time to time

## Actions taken

- changed Hardware
- patch for lcg-info-generic installed (speedup x50)
- Idif file is created by 3 different processes, users (rgma, edginfo), script runs correctly.
- globus-mds: runs lcg-info-generic if Idif > 60 sec



# Problems

Infosystem-CE GRIS

## Problem

- under load CE-Vanishes from bdi
- Still unstable, many lcg-info-generic processes
- Idif file (presentet to giis) sometimes empty
- Idif still empty from time to time

## Actions taken

- changed Hardware
- patch for lcg-info-generic installed (speedup x50)
- Idif file is created by 3 different processes, users (rgma, edginfo), script runs correctly.
- globus-mds: runs lcg-info-generic if Idif > 60 sec



# Problems

Infosystem-CE GRIS

## Problem

- under load CE-Vanishes from bdi
- Still unstable, many lcg-info-generic processes
- Idif file (presentet to giis) sometimes empty
- Idif still empty from time to time

## Actions taken

- changed Hardware
- patch for lcg-info-generic installed (speedup x50)
- Idif file is created by 3 different processes, users (rgma, edginfo), script runs correctly.
- globus-mds: runs lcg-info-generic if Idif > 60 sec





# Problems

Infosystem-CE GRIS

## Problem

- under load CE-Vanishes from bdi
- Still unstable, many lcg-info-generic processes
- Idif file (presentet to giis) sometimes empty
- Idif still empty from time to time

## Actions taken

- changed Hardware
- patch for lcg-info-generic installed (speedup x50)
- Idif file is created by 3 different processes, users (rgma, edginfo), script runs correctly.
- globus-mds: runs lcg-info-generic if Idif > 60 sec



# Problems

Infosystem-CE globus-mds

- globus-mds: runs lcg-info-generic if ldif > 60 sec
- globus-mds daemon runs as user edginfo, but the env is set different -no qstat in path
- lcg-info-generic calls a bunch of other scripts, no return value checked.
- lcg-info-dynamic-scheduler (phyton) fails due to missing qstat command (added in the script)
- python module had a bug found in may corrected some days later, did not make it in the upstream, autoupdate caused the same problems again.

