

2. D-Grid Accounting/Billing Workshop 07.08.2008

Zugriff auf Accounting-Daten HLRmon

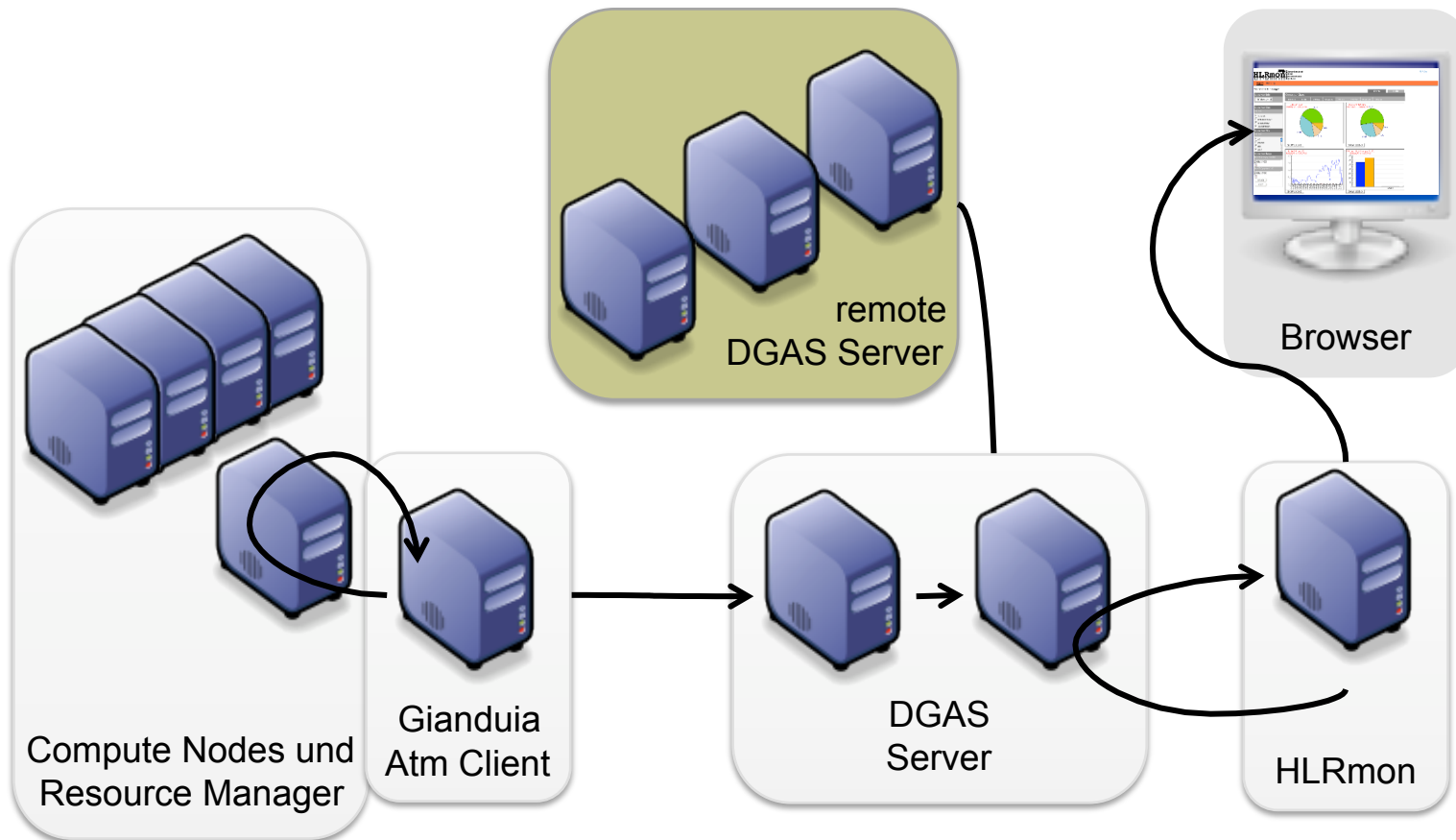
RRZN

Leibniz Universität Hannover

GEFÖRDERT VOM



Bundesministerium
für Bildung
und Forschung



Compute Nodes

- bearbeiten Teiljobs

Local Resource Management System

- verwaltet Compute Nodes
- regelt die Lastverteilung
- generiert Accounting-Daten

Gianduia

- greift auf Accounting-Daten des LRMS zu
- interpretiert Datensatzgruppen (Queue-Start-End/Error)
- transformiert LRMS-Daten ins DGAS-Datenmodell
- nutzt externen Client zur Übertragung der Daten

Atm-Client

- überträgt Accounting-Daten über eine gesicherte SSL-Verbindung
- Authentifizierung und Verschlüsselung über Grid-Zertifikate

DGAS Server (HLR)

- Netzwerk-Endpunkt zur gesicherten (verschlüsselten, authentifizierten) Annahme von Accounting-Daten (Grid-Zertifikate)

- verwaltet HLR (Home Location Register) Datenbank
 - DGAS-Rollen
 - Ressourcen
 - Accounting-Informationen

- Bietet eine mehrstufige, hierarchisch verteilte Datenhaltung

HLRmon

- separate HLRmon-Datenbank
- Abgleich mit HLR in Intervallen
- enthält kumulierte Informationen
- eigenes Benutzermodell
- gesicherter Zugang über Grid-Zertifikate
- Benutzer- und Rollenmodell
 - VO User
 - VO Manager
 - Site Manager
 - ROC Manager

HLRmon

- Gesicherter Web-Zugang über Grid-Zertifikate
- Zugriff anhand des Rollenmodells von HLRmon

HLR

- Administrator-Zugang über SSH
- Diverse Kommandos zur Datenabfrage

```
[root@ref-dgas ~]# glite-dgas-hlr-localquery -Q "resourceAggregate" -r  
"torqued1.d-grid.uni-hannover.de:dgiseq"
```

```
MIN(date)          |MAX(date)          |COUNT(dgJobId)|SUM(cpuTime)/60|SUM(wallTime)/60|SUM(pmem)/1024|SUM(vmem)/1024|SUM(AMOUNT)/1000|  
2007-05-02 11:33:29|2008-07-26 17:09:09|155501|50246537.48|114764213.97|4964658.76|31339256.91|0.00|
```



Find out how allocated resources have been used
Role-based Grid Accounting Reporting Tool

Role-based Report

Are you a Grid manager or a site manager? Do you want to know how your VO users are using the Grid resources? Tell us your Grid role, we will provide charts and table data you've been looking for so far.



Role-based Ranking

Spot out which are the top ten users, sites or VOs that have been using the available resources. Once selected your role the Ranking section will give you the possibility to think how the Grid is used by.



[Register your Grid role into HLRmon](#)

Registrierung: User

Please complete the form below. Mandatory fields marked *

Personal info

Certificate DN: /C=DE/O=GridGermany/OU=Leibniz Universitaet Hannover/OU=rvs/CN=Michael Brenner

Full Name: Michael Brenner

Email Address *

Your roles *

ROC Manager

Site Manager (Select at least a Site *)

FZ-Juelich

RRZN-UniHannover

TU-DORTMUND

UNI-DORTMUND

VO Manager (Select at least a VO *)

atlas0

dgtest

dteam0

education

VO User (Select at least a VO *)

atlas0

dgtest

dteam0

education

REGISTER



Find out how allocated resources have been used
Role-based Grid Accounting Reporting Tool

Dear Michael Brenner

Thank you for registering into HLRmon!

An email has been sent to the HLRmon administrators.
You will be notified as soon as the registration process is completed.
We hope that HLRmon will become useful for your investigation on Grid accounting.
Thanks,

HLRmon Staff

Registrierung: User



[My Roles](#)

HLRmon User Administration

enter your search criteria

id	<input type="text"/>
dn	<input type="text"/>
u_role	<input type="text"/>
u_where	<input type="text"/>
validity	<input type="text"/>
user_confirm	<input type="text"/>
adminConfirm	<input type="text"/>
enabled	<input type="text" value="0"/>
email	<input type="text"/>



[My Roles](#)

HLRmon User Administration

DN matching your search

<input type="button" value="Edit"/>	/O=GermanGrid/OU=UniHannover/CN=Jan Wiebelitz
<input type="button" value="Edit"/>	/C=DE/O=GridGermany/OU=Leibniz Universitaet Hannover/OU=rvs/CN=Michael Brenner

Registrierung: User

R | R | Z | N |



[My Roles](#)

HLRmon User Administration

Record 1 / 4

id	157
dn	/C=DE/O=GridGermany/OU=Leibniz Universitaet Hannover/OU=
u_role	vo_man
u_where	dgtest
validity	null
user_confirm	null
adminConfirm	null
enabled	0
email	brenner@rvs.uni-hannover.de
<input type="button" value="Undo"/> <input type="button" value="Save"/> <input type="button" value="Cancel all"/>	

Record 2 / 4

id	158
dn	/C=DE/O=GridGermany/OU=Leibniz Universitaet Hannover/OU=
u_role	vo_man
u_where	education
validity	null
user_confirm	null
adminConfirm	null
enabled	0
email	brenner@rvs.uni-hannover.de
<input type="button" value="Undo"/> <input type="button" value="Save"/> <input type="button" value="Cancel all"/>	

Record 3 / 4

id	159
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Erforderliche Informationen

- DN der Ressource
/C=DE/O=GermanGrid/OU=UniHannover/CN=ref-lcgce.d-grid.uni-hannover.de
- Ressource-ID (CE-ID)
torqued1.d-grid.uni-hannover.de:dgiseq
- VO

Optionale Angaben

- Betreiber-Email
- Beschreibung

Vielen Dank

R | R | Z | N |

**Zugriff auf Accounting-Daten
HLRmon**