

# Monitoring, Accounting & Site CESGA

Reunión interna panel infraestructuras grid  
Madrid, 11 Marzo 2009

# Monitoring – Regional Nagios

- Regional Nagios:
  - Operativo el servicio en: <https://rnagios.ngi.cesga.es/nagios/>
  - Instrucciones de configuración en wiki: <http://www.e-ciencia.es/wiki/index.php/Monitorizacion>
  - Acceso restringido por certificado, el admin debe pertenecer a la VO: [vo.operaciones.es-ngi.eu](mailto:vo.operaciones.es-ngi.eu)
  - Para añadir un sitio se debe enviar un e-mail a: [egee-admin@cesga.es](mailto:egee-admin@cesga.es)

# Monitoring – Regional Nagios

- Regional Nagios:



**General**

- Home
- Documentation

**Monitoring**

- Tactical Overview
- Service Detail
- Host Detail
- Hostgroup Overview
- Hostgroup Summary
- Hostgroup Grid
- Servicegroup Overview
- Servicegroup Summary
- Servicegroup Grid
- Status Map
- 3-D Status Map

**Service Problems**

- Unhandled

**Host Problems**

- Unhandled

**Network Outages**

Show Host:

**Comments**

- Downtime

**Process Info**

- Performance Info
- Scheduling Queue

**Reporting**

- Trends
- Availability
- Alert Histogram
- Alert History
- Alert Summary
- Notifications
- Event Log

**Configuration**

- View Config

**Current Network Status**  
 Last Updated: Mon Mar 9 16:13:34 CET 2009  
 Updated every 90 seconds  
 Nagios® 3.0.6 - [www.nagios.org](http://www.nagios.org)  
 Logged in as /DC=es/DC=irisgrid/O=cesga/CN=alvarosimon

[View History For all hosts](#)  
[View Notifications For All Hosts](#)  
[View Host Status Detail For All Hosts](#)

**Host Status Totals**

Up	Down	Unreachable	Pending
30	0	0	0

**All Problems** 0    **All Types** 30

**Service Status Totals**

Ok	Warning	Unknown	Critical	Pending
84	2	5	3	21

**All Problems** 10    **All Types** 115

**Service Status Details For All Hosts**

Host ↑↓	Service ↑↓	Status ↑↓	Last Check ↑↓	Duration ↑↓	Attempt ↑↓	Status Information
castorsrm.ific.uv.es	<a href="#">hr_srce.SRM1-CertLifetime</a>	OK	03-08-2009 17:27:31	27d 22h 46m 3s	1/4	Certificate will expire in 19480 days (Sep 19 11:34 48 2009 GMT).
ce-eela.ciemat.es	<a href="#">hr_srce.CAdist-Version</a>	OK	03-08-2009 17:37:31	27d 22h 36m 3s	1/4	Official IGTF version is 127. Valid distribution version found.
	<a href="#">hr_srce.GRAM-Auth</a>	OK	03-09-2009 16:02:33	28d 6h 41m 3s	1/4	GRAM Authentication test successful
	<a href="#">hr_srce.GRAM-CertLifetime</a>	OK	03-09-2009 04:12:41	27d 12h 0m 53s	1/4	Certificate will expire in 260.22 days (Nov 24 08:22:30 2009 GMT).
	<a href="#">hr_srce.GRAM-Command</a>	OK	03-09-2009 15:33:31	28d 5h 50m 42s	1/4	GRAM OK Command successfully executed. Output is: "1236609211 ". Result matches the expected result.
	<a href="#">hr_srce.GridFTP-Transfer</a>	OK	03-09-2009 15:32:52	28d 6h 40m 42s	1/4	Upload to remote computer succeeded. Download from remote computer succeeded. File successfully removed from remote computer. Received file is valid.
ce-ieq.bifi.unizar.es	<a href="#">hr_srce.CAdist-Version</a>	OK	03-08-2009 18:43:24	6d 21h 30m 10s	1/4	Official IGTF version is 127. Valid distribution version found.
	<a href="#">hr_srce.GRAM-Auth</a>	OK	03-09-2009 16:06:09	6d 4h 22m 25s	1/4	GRAM Authentication test successful
	<a href="#">hr_srce.GRAM-CertLifetime</a>	OK	03-09-2009 12:18:10	6d 3h 55m 24s	1/4	Certificate will expire in 200.08 days (Sep 25 13:13:18 2009 GMT).
	<a href="#">hr_srce.GRAM-Command</a>	OK	03-09-2009 15:51:38	6d 5h 21m 56s	1/4	GRAM OK Command successfully executed. Output is: "1236610298 ". Result matches the expected result.
	<a href="#">hr_srce.GridFTP-Transfer</a>	OK	03-09-2009 15:13:43	5d 23h 59m 51s	1/4	Upload to remote computer succeeded. Download from remote computer succeeded. File successfully removed from remote computer. Received file is valid.
ce01.ific.uv.es	<a href="#">hr_srce.GRAM-CertLifetime</a>	OK	03-09-2009 04:13:21	27d 12h 0m 13s	1/4	Certificate will expire in 19435 days (Sep 19 11:35 42 2009 GMT).
ce05.pic.es	<a href="#">hr_srce.CAdist-Version</a>	OK	03-08-2009 18:51:28	6d 21h 22m 6s	1/4	Official IGTF version is 127. Valid distribution version found.
	<a href="#">hr_srce.GRAM-Auth</a>	OK	03-09-2009 15:59:12	6d 21h 14m 22s	1/4	GRAM Authentication test successful
	<a href="#">hr_srce.GRAM-CertLifetime</a>	OK	03-09-2009 04:04:01	27d 12h 9m 33s	1/4	Certificate will expire in 29.21 days (Apr 07 08:12:07 2009 GMT).
	<a href="#">hr_srce.GRAM-Command</a>	OK	03-09-2009 16:06:57	6d 21h 6m 37s	1/4	GRAM OK Command successfully executed. Output is: "1236611217 ". Result matches the expected result.
	<a href="#">hr_srce.GridFTP-Transfer</a>	OK	03-09-2009 15:44:03	6d 21h 29m 31s	1/4	Upload to remote computer succeeded. Download from remote computer succeeded. File successfully removed from remote computer. Received file is valid.
ce06.pic.es	<a href="#">hr_srce.CAdist-Version</a>	OK	03-08-2009 18:51:47	6d 21h 21m 47s	1/4	Official IGTF version is 127. Valid distribution version found.
	<a href="#">hr_srce.GRAM-Auth</a>	OK	03-09-2009 15:59:33	6d 21h 14m 22s	1/4	GRAM Authentication test successful

# Monitoring – Regional Nagios

## – Monitorizados:

- BIFI
- CESGA
- CIEMAT
- IFCA
- IFIC
- PIC
- UPV

## – No monitorizados:

- UNICAN
- CICA
- UOC
- QCyCAR
- I2BASK
- GRID – CSIC
- EHU
- UAB
- CESCO
- ESAC
- eCA

# Accounting

- Como configurarlo
  - Si ya pertenece a EGEE:
    - gLite → configurar VO en su CE y MON de EGEE (no es necesario un nuevo CE/MON)
      - Si tiene CE y MON propio para NGI puede apuntar al rgma de EGEE o al de NGI
    - globus → Analizando cómo hacerlo (presentaremos solución en IBERGRID09)
  - Si no pertenece a EGEE:
    - gLite → configurar el MON para que apunte al rgma.ngi.cesga.es
    - globus → Analizando cómo hacerlo (presentaremos solución en IBERGRID09)
- Status
  - Sitios reportando:
    - CESGA, e-ca-iaa, IFCA-CSIC, IFIC-LCG2, pic, UNICAN, UPV-GRyCAP
  - Sitios no reportando:
    - CICA, UOC, QCyCAR, CIEMAT-Madrid, CIEMAT-CETA, I2BASK, GRID-CSIC, BIFI, EHU, UAB, UAB-Campus, ESAC
- Trabajo pendiente...
  - Accounting globus
  - Integración con HGSM

# Accounting

NGI Accounting Portal - Mozilla Firefox

Archivo Editar Ver Historial Marcadores Herramientas Ayuda

http://www.ngi.cesga.es/gridsite/accounting/CESGA/ngi\_view.php

NGI ACCOUNTING PORTAL 

GLOBAL View VO MANAGER View VO MEMBER View SITE ADMIN View USER View REPORTS LINKS

## Hierarchical Tree

- IBERGRID
  - NGI-ES
    - CESGA
    - e-ca-iaa
    - IFCA-I2G
    - IFCA-CSIC
    - IFIC-LCG2
    - pic
    - UNICAN
    - UPV-GRyCAP
    - NGI-PT

Developed by  CESGA

## NGI View -> Production

 Print Page

Data to graph:	Number of jobs	Total number of jobs run
Period:	Start year: 2008	Start month: 4
	End year: 2009	End month: 3
Groupings:	Show data for: SITE	as a function of: DATE
VO Groups:	<input type="radio"/> TOP 10 <input checked="" type="radio"/> ALL <input type="radio"/> Custom <input type="checkbox"/> Group the rest of VOs in a new category	
VOs:	<input type="checkbox"/> euforia <input type="checkbox"/> ngi <input type="checkbox"/> ngi-es <input type="checkbox"/> vo.blast.es-ngi.eu <input checked="" type="checkbox"/> vo.formacion.es-ngi.eu <input type="checkbox"/> vo.general.csic.es <input type="checkbox"/> vo.grid4build.es-ngi.eu <input checked="" type="checkbox"/> vo.operaciones.es-ngi.eu <input type="checkbox"/> vo.ops.csic.es	
Chart:	Type: ACCUM BAR	Scale: LINEAR

Refresh

## Production Total number of jobs by SITE and DATE.

ALL VOs. April 2008 - March 2009.

The following table shows the distribution of Total number of jobs grouped by SITE and DATE.

Total number of jobs run by SITE and DATE														
SITE	Apr 08	May 08	Jun 08	Jul 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08	Jan 09	Feb 09	Mar 09	Total	%
CESGA	0	0	0	0	3	0	303	0	0	1	12	3	322	2.36%
e-ca-iaa	0	0	0	0	0	0	0	2	3	0	0	0	5	0.04%
IFCA-CSIC	0	0	0	0	0	0	0	0	0	0	16	0	16	0.12%
IFCA-I2G	0	2	9	1	0	0	4,570	4,502	16	0	0	0	9,100	66.67%
IFIC-LCG2	0	0	0	0	0	0	181	52	217	481	99	1	1,031	7.55%
pic	0	0	0	0	0	0	646	472	657	1,089	304	0	3,168	23.21%
UNICAN	0	0	0	0	0	0	0	2	2	0	0	1	5	0.04%
UPV-GRyCAP	0	0	0	0	0	0	2	0	0	0	0	0	2	0.01%
<b>Total</b>	<b>0</b>	<b>2</b>	<b>9</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>5,702</b>	<b>5,030</b>	<b>895</b>	<b>1,571</b>	<b>431</b>	<b>5</b>	<b>13,649</b>	

# HGSM

- Capacidades:
  - Sustituye al GOCDDB de EGEE.
  - Permite registrar todos los recursos ofrecidos por los sitios.
  - Se pueden programar scheduled downtimes para avisar a los administradores.
  - Integrado con Regional Nagios.

# HGSM

- Status:

- Servidor HGSM disponible en: <https://rnagios.ngi.cesga.es/hgsm/>
- Para añadir un sitio se debe enviar un e-mail con el DN del administrador a: egee- [admin@cesga.es](mailto:admin@cesga.es). Después cada administrador debe rellenar la información de su sitio en la página:

**Grid Operation Center Database**

Site: ES --> **CESGA (CESGA / SPAIN)**

Info | Contacts | Nodes | Downtimes | [Edit](#)

General Info and Contacts:		Resources:	
Name:	CESGA	Operating System:	SL4
Homepage:	<a href="http://www.cesga.es">www.cesga.es</a>	Middleware Software:	gLite3.1
GIIS URL:	<a href="ldap://test03.egee.cesga.es:2170">ldap://test03.egee.cesga.es:2170</a>	Batch System:	SGE 6.1
Monitoring:	yes	VO-s Supported:	vo.operaciones.es-ngi.eu, vo.general.es-ngi.eu, vo.formacion.es-ngi.eu
Status:	certified	Installed Applications:	NULL
Type:	production	Number of WorkNodes:	13
Hours Available:	NULL	Storage Type:	DPM
Timezone:	NULL	Storage Size:	143
Email:	<a href="mailto:egee-admin@cesga.es">egee-admin@cesga.es</a>	LAN Connection:	NULL
Phone:	+34 981 569810	WAN Connection:	NULL
Emergency Phone:	NULL	Comments:	{comments}
CSIRT Email:	NULL		
CSIRT Phone:	NULL		

Last modified on: 02/02/2009

Best viewed with Firefox | This application is free software (GNU GPL). | Copyright (C) 2005, 2006 Dashamir Hoxha

Powered by [phpWebApp](#)

# HGSM

- Sitios añadidos:
  - CESGA (Spain)
  - IFCA (Spain)
  - LIP (Portugal)
- Trabajo Pendiente:
  - Configurar el Regional Nagios para que se sincronice con el servidor HGSM.
  - Añadir todos los sitios a la base de datos.

# CESGA Site

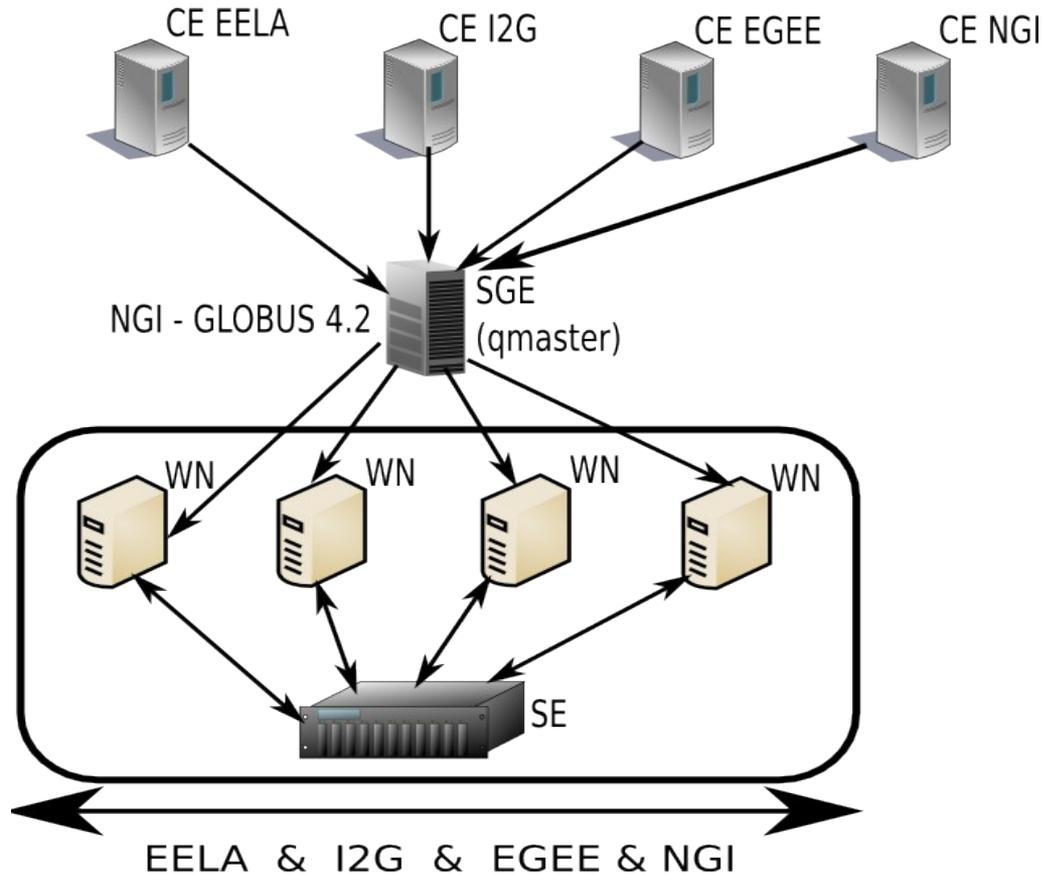
- Recursos disponibles para NGI
  - 118 CPUs Intel(R) Xeon(R) CPU E5310  
1.60GHz
  - 1Gb Memoria por CPU.
  - 50Gb de disco por trabajo.
  - 1Tb Almacenamiento para las Vos.

# CESGA site

- Configuración gLite:
  - VOs soportadas:
    - vo.operaciones.es-ngi.eu
    - vo.general.es-ngi.eu
    - vo.formacion.es-ngi.eu
  - CE: test03.egee.cesga.es
  - SE: se2.egee.cesga.es
  - MON: mon.ngi.cesga.es
  - RGMA server: rgma.ngi.cesga.es

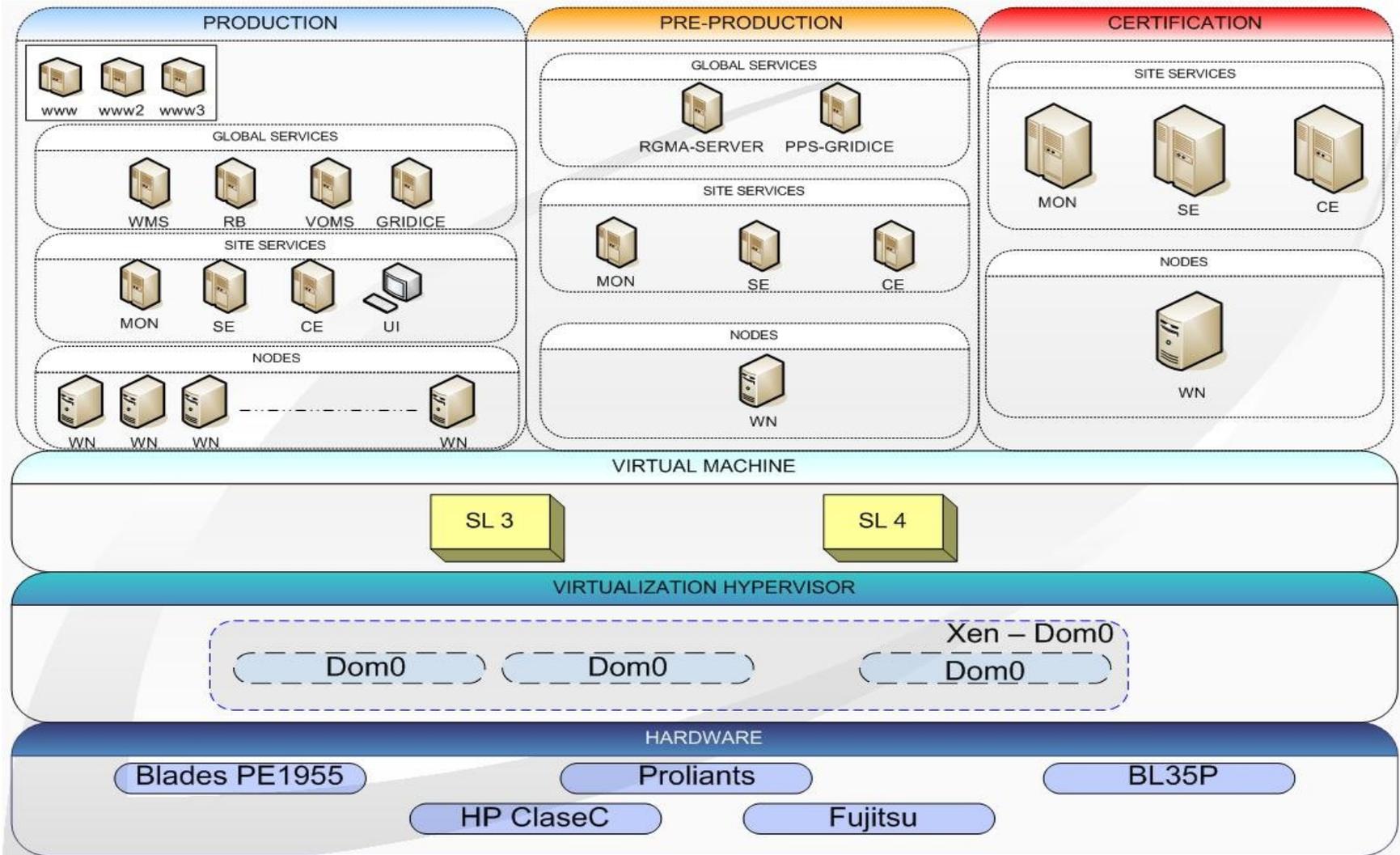
# CESGA site

- Estructura grid CESGA



# CESGA site

- Estructura máquinas virtuales



# CESGA site

- Configuración Globus:
  - Servidor: test01.egee.cesga.es
  - Version: Globus 4.2.1
  - Cluster: GE 6.1 (118 CPUs)
  - (Ahora mismo funciona bien globus pero con gridway esta teniendo problemas Jose Luis (UCM) para mandar trabajos. Estamos pendientes de arreglarlo)