

PerfSONAR-Lite TSS *(Troubleshooting)*

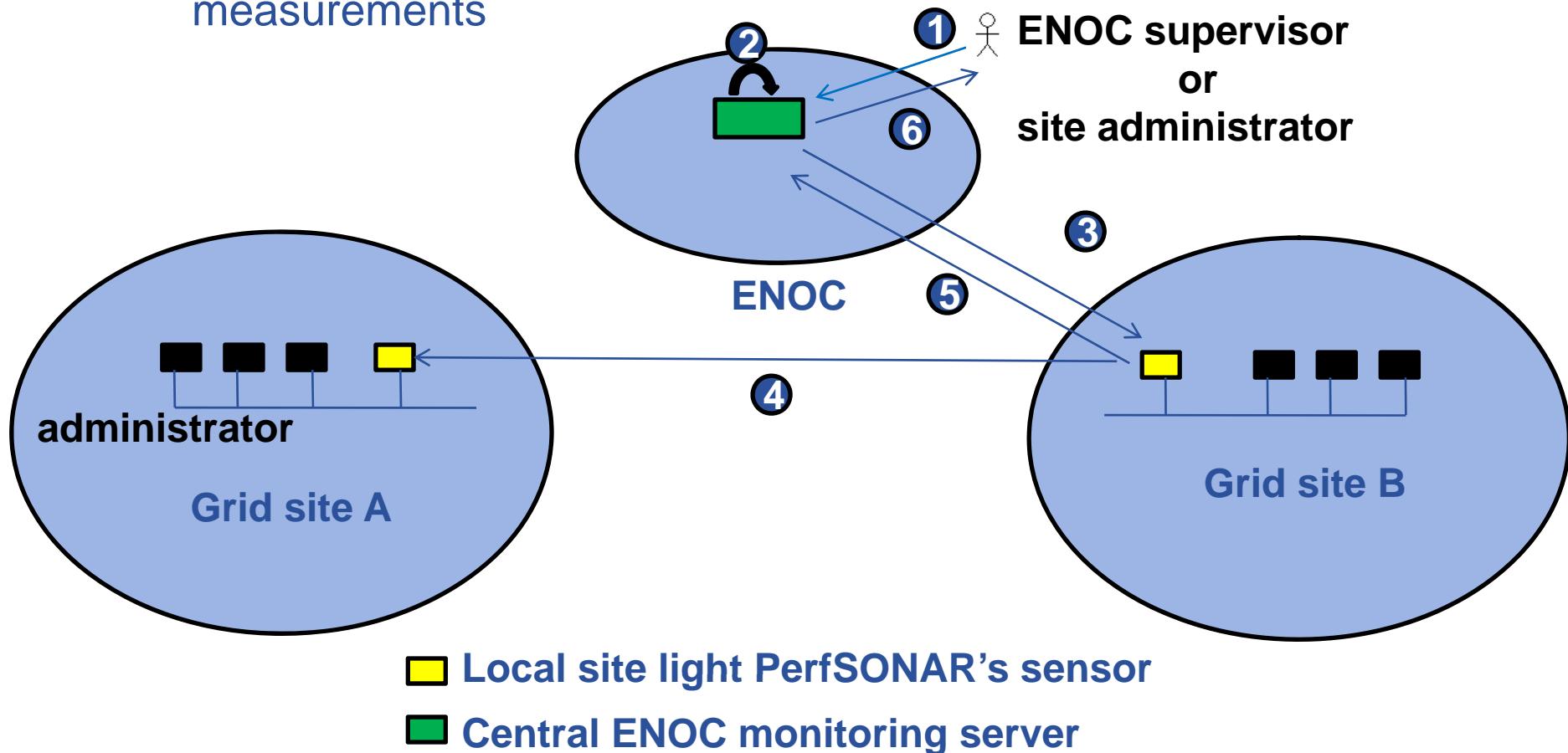
Xavier Jeannin (CNRS/UREC Paris, FR)
24 February 2009

www.eu-egee.org



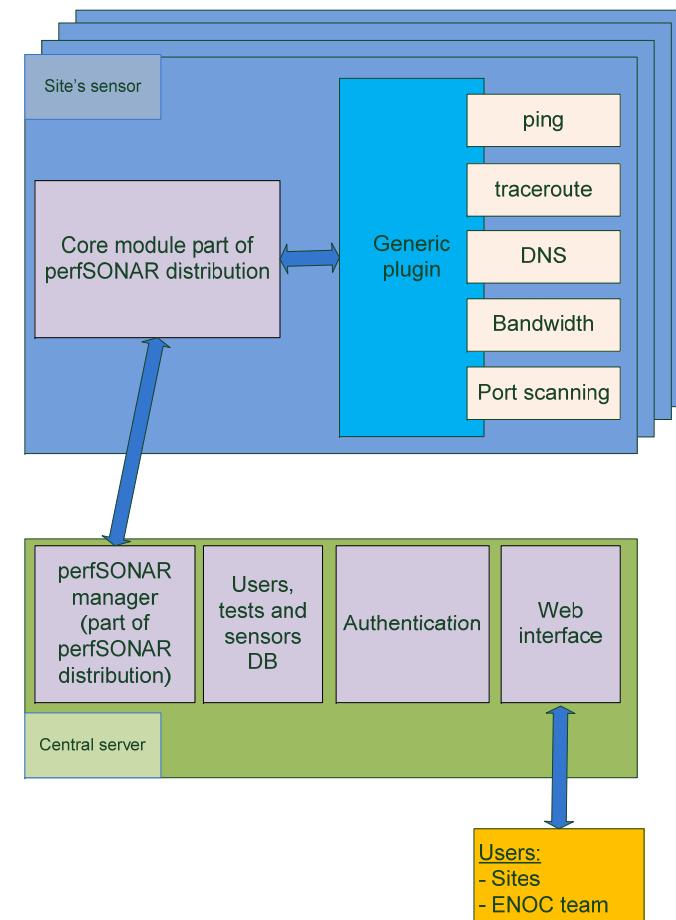
- **PerfSONAR-Lite TSS overview**
- **Requirement**
- **PerfSONAR-Lite TSS**
- **authorization / authentication**
- **Tour of PerfSONAR-Lite TSS Version 1**
- **Work plan**

- **Network troubleshooting tool**
 - Launch test on demand from the Grid site under central server control: ping, traceroute, DNS lookup, nmap and bandwidth measurements

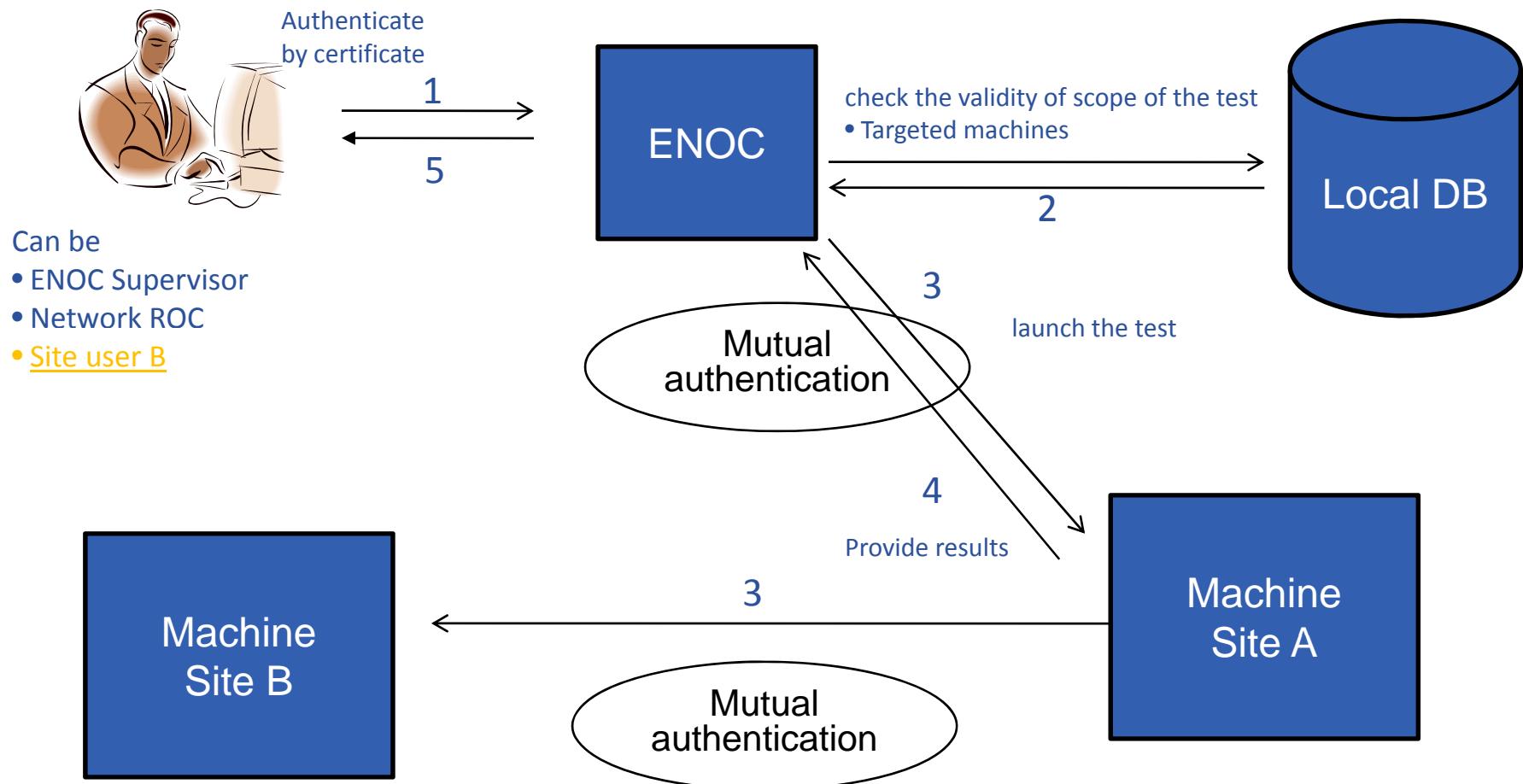


- **Constraints from Grid Sites:**
 - A lightweight product
 - A well known product
 - No continuous measurement, but on-demand (to support troubleshooting)
 - An access to the measure and to the tools
- **Constraints from the project:**
 - Sustainability of the software
 - A minimum of software development

- **PerfSONAR-Lite TSS is an extension of PerfSONAR**
 - to enable light-weight *on-demand* measurements
 - to offer additional service tools ping, traceroute, DNS lookup and reverse lookup, BWCTL, port scan
 - web service extensions for ENOC platform
 - authorization / authentication for EGEE-III specifications
 - EGEE-III specific visualization and archiving
- **PerfSONAR protocol, via SOAP request/response**



TEST launching and authentication/Authorization

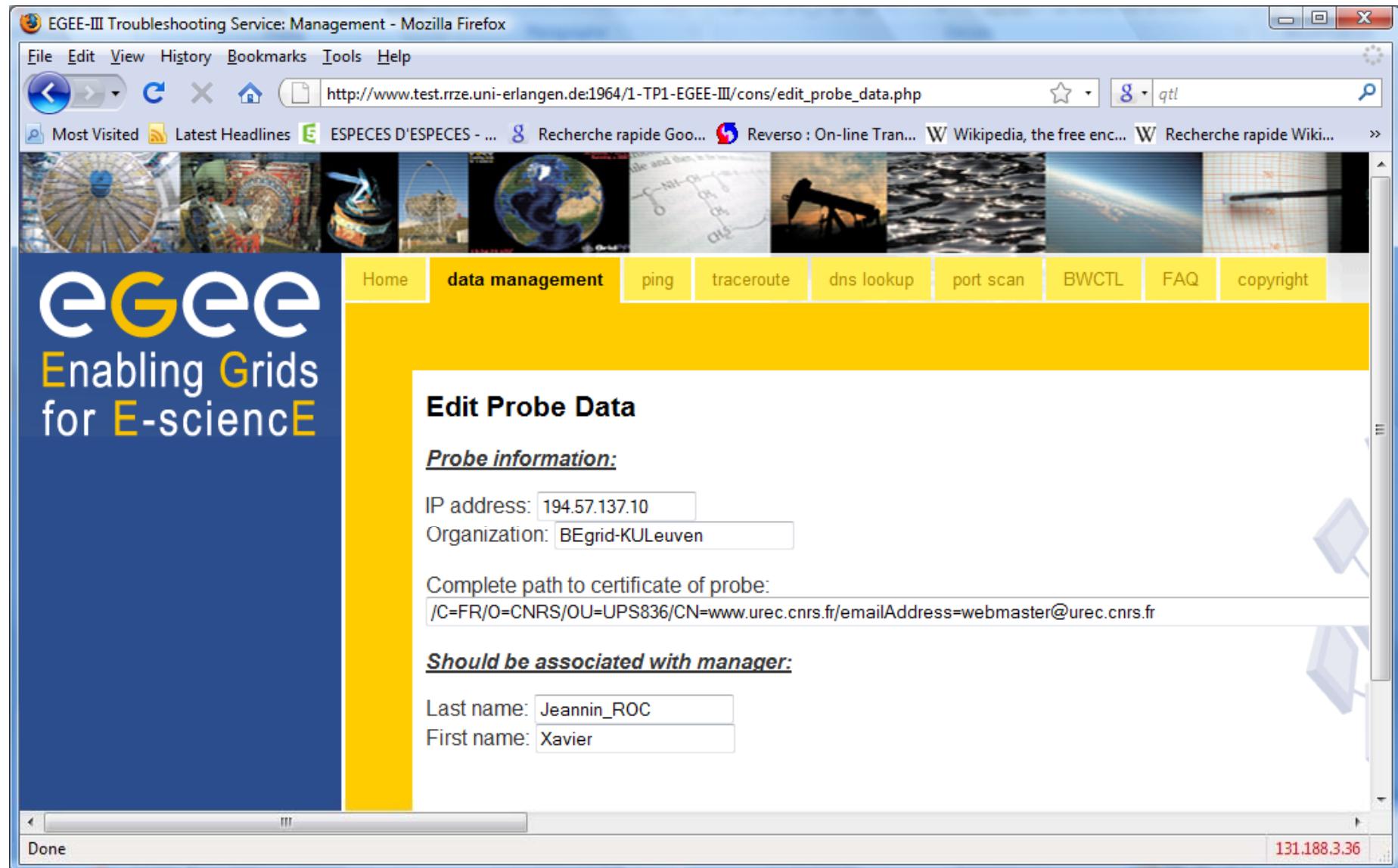


EGEE-III Troubleshooting Service: Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.test.rzze.uni-erlangen.de:1964/1-TP1-EGEE-III/cons/edit_probe_data.php

Most Visited Latest Headlines ESPECES D'ESPECES - ... Recherche rapide Goo... Reverso : On-line Tran... Wikipedia, the free enc... Recherche rapide Wiki...



eGEE
Enabling Grids for E-sciencE

data management ping traceroute dns lookup port scan BWCTL FAQ copyright

Edit Probe Data

Probe information:

IP address: Organization:

Complete path to certificate of probe:

Should be associated with manager:

Last name: First name:

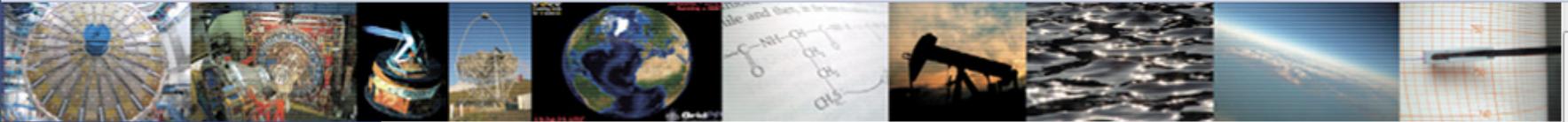
Done 131.188.3.36

EGEE-III Troubleshooting Service: Ping - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.test.rrze.uni-erlangen.de:1964/1-TP1-EGEE-III/ping_res.php

Most Visited Latest Headlines ESPECES D'ESPECES - ... Recherche rapide Goo... Reverso : On-line Tran... Wikipedia, the free enc...



eGEE Enabling Grids for E-sciencE

Home data management ping traceroute dns lookup port scan BWCTL FAQ copyright

Troubleshooting Tool: Ping

ping IP address: 194 . 57 . 137 . 116

```
http://ggf.org/ns/nmwg/tools/generic/2.0/ \n\nPING 194.57.137.116 (194.57.137.116) 56(84) bytes of data.\n64 bytes from 194.57.137.116: icmp_seq=1 ttl=47 time=21.9 ms\n64 bytes from 194.57.137.116: icmp_seq=2 ttl=47 time=21.6 ms\n64 bytes from 194.57.137.116: icmp_seq=3 ttl=47 time=21.9 ms\n64 bytes from 194.57.137.116: icmp_seq=4 ttl=47 time=21.7 ms\n64 bytes from 194.57.137.116: icmp_seq=5 ttl=47 time=21.8 ms
```

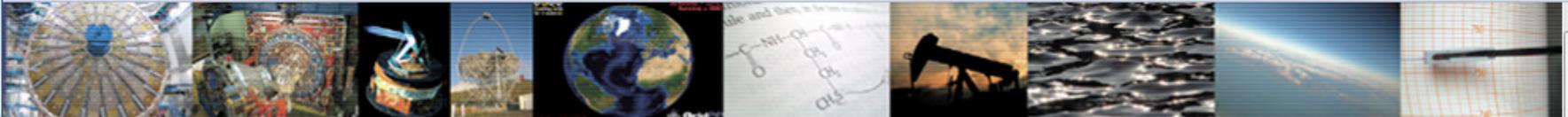
Done 131.188.3.36

EGEE-III Troubleshooting Service: DNS lookup - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.test.rrze.uni-erlangen.de:1964/1-TP1-EGEE-III/dns-lookup_res.php

Most Visited Latest Headlines ESPECES D'ESPECES - ... Recherche rapide Goo... Reverso : On-line Tran... Wikipedia, the free enc...



eGEE Enabling Grids for E-sciencE

Home data management ping traceroute dns lookup port scan BWCTL FAQ copyright

Troubleshooting Tool: DNS Lookup

lookup IP address: . . .
or lookup host: www.google.fr

Host www.google.fr has IP address 74.125.77.147

start new lookup request

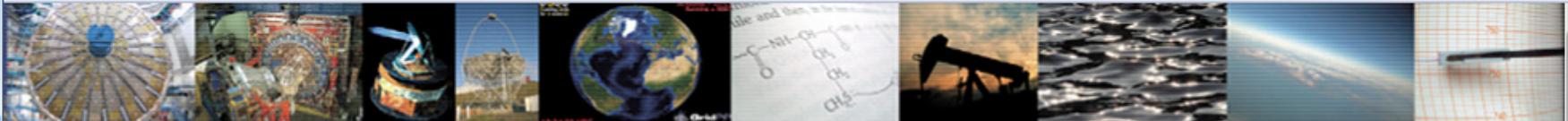
Done 131.188.3.36

EGEE-III Troubleshooting Service: DNS lookup - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.test.rrze.uni-erlangen.de:1964/1-TP1-EGEE-III/dns-lookup_res.php

Most Visited Latest Headlines ESPECES D'ESPECES - ... Recherche rapide Goo... Reverso : On-line Tran... Wikipedia, the free enc...



eGEE Enabling Grids for E-sciencE

Home data management ping traceroute dns lookup port scan BWCTL FAQ copyright

Troubleshooting Tool: DNS Lookup

lookup IP address: . . .
or lookup host:

IP address 74.125.77.147 is host ew-in-f147.google.com

[start new lookup request](#)

Done 131.188.3.36

- **Testphase 1 (End of January 2009 ongoing)**
 - Installed software:
 - Client software is implemented on a web server in Erlangen with local MySQL database
 - Test does not include Apache ssl handling
 - Software will be tested by SA2 management and
 - Tested modules:
 - User management, Administrative web pages, Various tool web pages, Proper connection to perfSONAR core module
 - Test feedback: Will be used for FAQ web page

- **Testphase 2**
 - Installed software:
 - Client software is implemented on ENOC web server with MySQL database
 - Tests include Apache ssl handling
 - Software will be tested by SA2
- **Tested modules:**
 - Proper handling of certificate/authentication issues and authorization
 - Proper handling of ENOC local DB processing

- **Testphase 3**
 - Installed software (Beta version / basic package):
 - Client software will be installed by users
 - Software will be tested by:
 - RedIris, GARR, Nordic Data Grid Facility
 - Open to all other interested partners
- **Tested modules:**
 - All modules