Enabling Grids for E-sciencE

Web-интерфейс к кластеру ПИЯФ

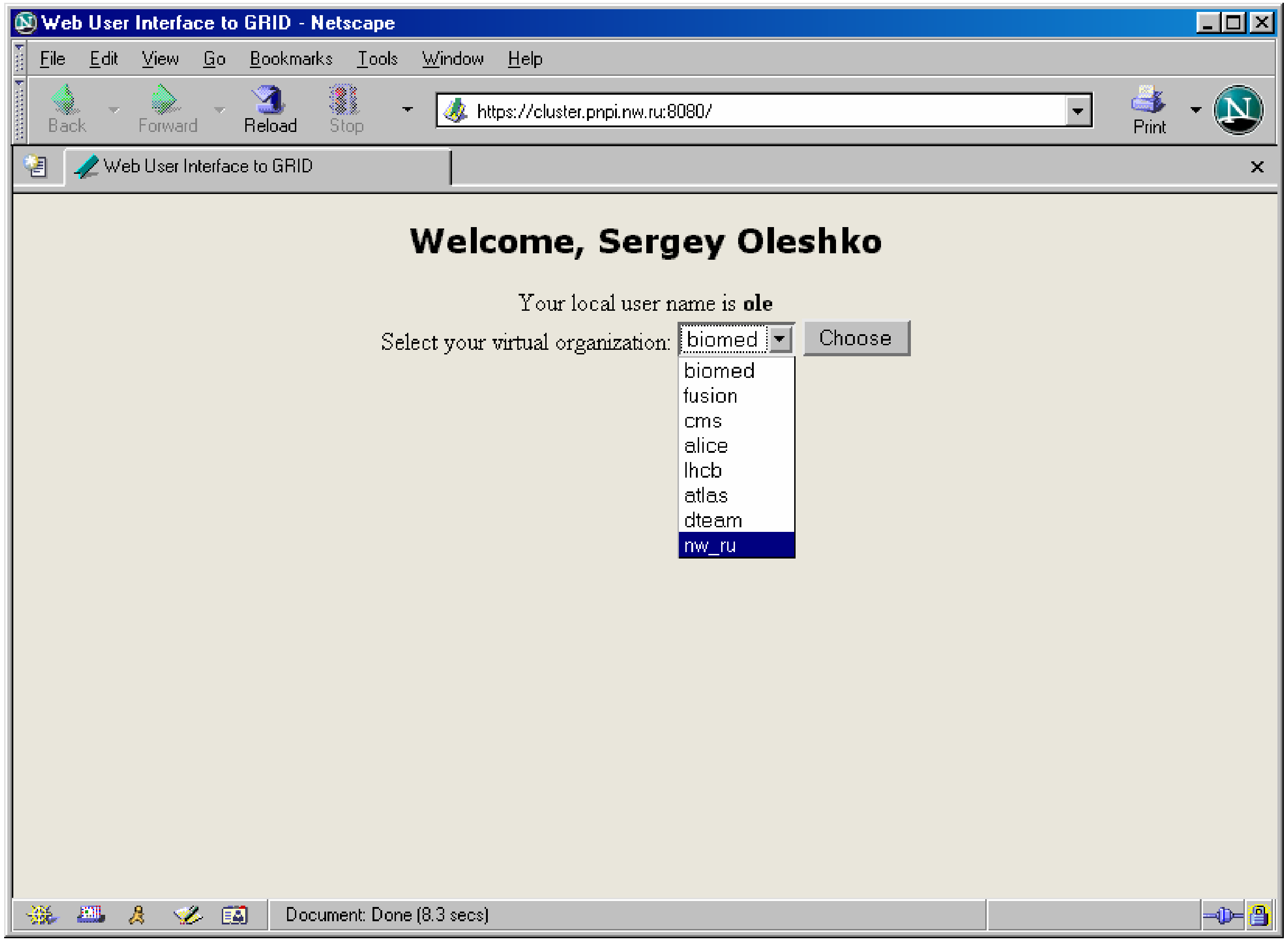
www.eu-egee.org

Web интерфейс для кластера ПИЯФ

- Пользователь должен иметь account на UI кластера (cluster.pnpi.nw.ru)
- Пользователь должен иметь сертификат, подписанный в CA RDIG
- В пользовательской $HOME директории должна быть создана директория .globus и должен быть экспортирован сертификат (usersert.pem) и персональный закрытый ключ (userkey.pem)
- Сертификат должен быть импортирован в браузер
- Пользователь должен быть членом одной из ВО, поддерживаемых на cluster.pnpi.nw.ru

Web интерфейс для кластера ПИЯФ

https://cluster.pnpi.nw.ru:8080/



Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID

Welcome, Sergey Oleshko

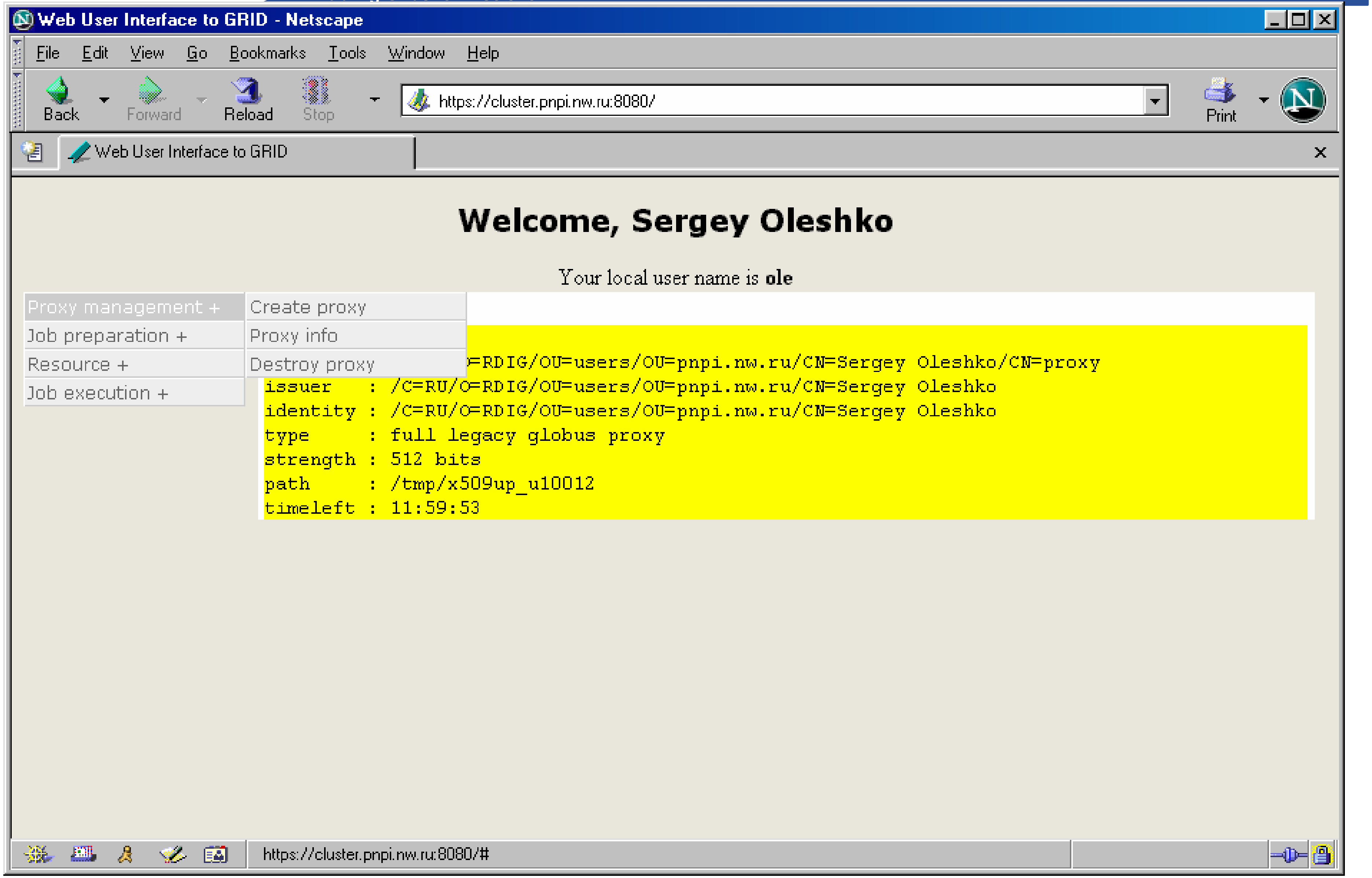
Your local user name is **ole**

Select your virtual organization: biomed Choose

- biomed
- fusion
- cms
- alice
- lhcb
- atlas
- dteam
- nw_ru

Document: Done (8.3 secs)

Работа с proxy

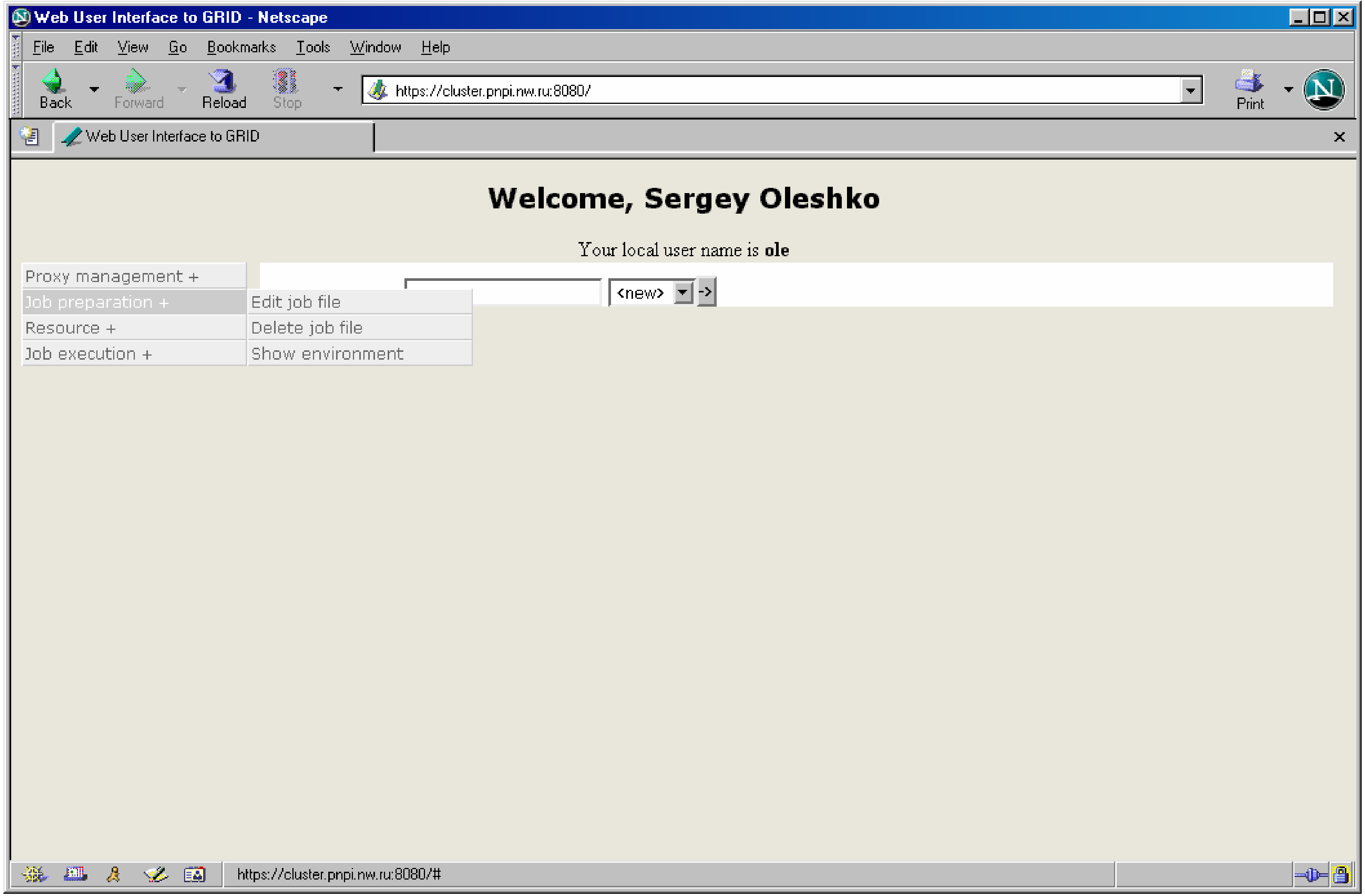

Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Create proxy
Proxy info
Destroy proxy
https://cluster.pnpi.nw.ru:8080/#

Welcome, Sergey Oleshko

Your local user name is **ole**

```
=RDIG/OU=users/OU=pnpi.nw.ru/CN=Sergey Oleshko/CN=proxy
issuer   : /C=RU/O=RDIG/OU=users/OU=pnpi.nw.ru/CN=Sergey Oleshko
identity : /C=RU/O=RDIG/OU=users/OU=pnpi.nw.ru/CN=Sergey Oleshko
type     : full legacy globus proxy
strength : 512 bits
path     : /tmp/x509up_u10012
timeleft : 11:59:53
```

Подготовка задания (1/3)



Web User Interface to GRID - Netscape

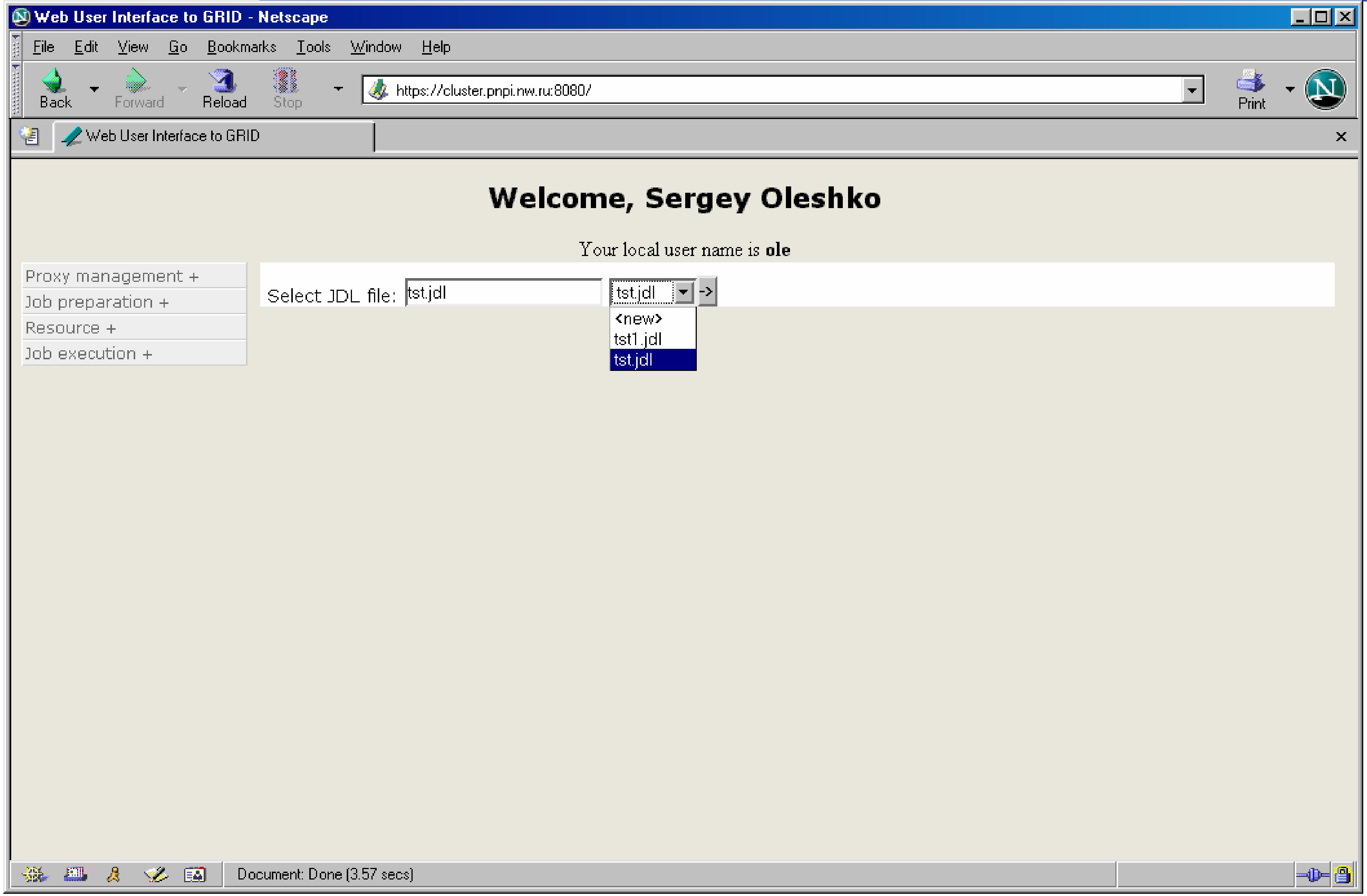
https://cluster.pnpi.nw.ru:8080/

Welcome, Sergey Oleshko

Your local user name is **ole**

File
Edit
View
Go
Bookmarks
Tools
Window
Help
Back
Forward
Reload
Stop
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Edit job file
Delete job file
Show environment
<new>
->
https://cluster.pnpi.nw.ru:8080/#

Подготовка задания(2/3)



Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
<new>
tst1.jdl
tst.jdl
->
Document: Done (3.57 secs)

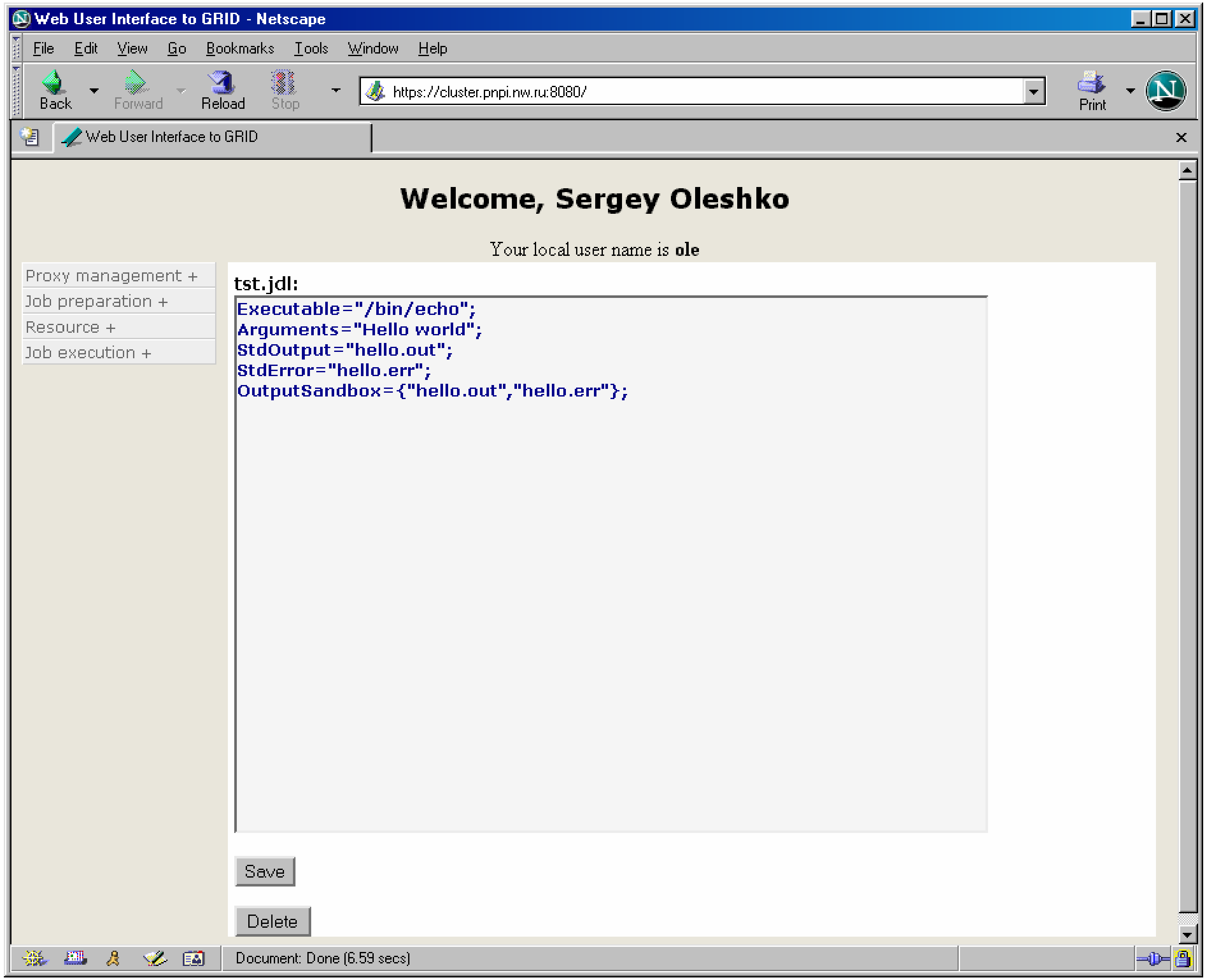
Welcome, Sergey Oleshko

Your local user name is **ole**

Select JDL file: tst.jdl

tst.jdl

Подготовка задания(3/3)


Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Save
Delete
Document: Done (6.59 secs)

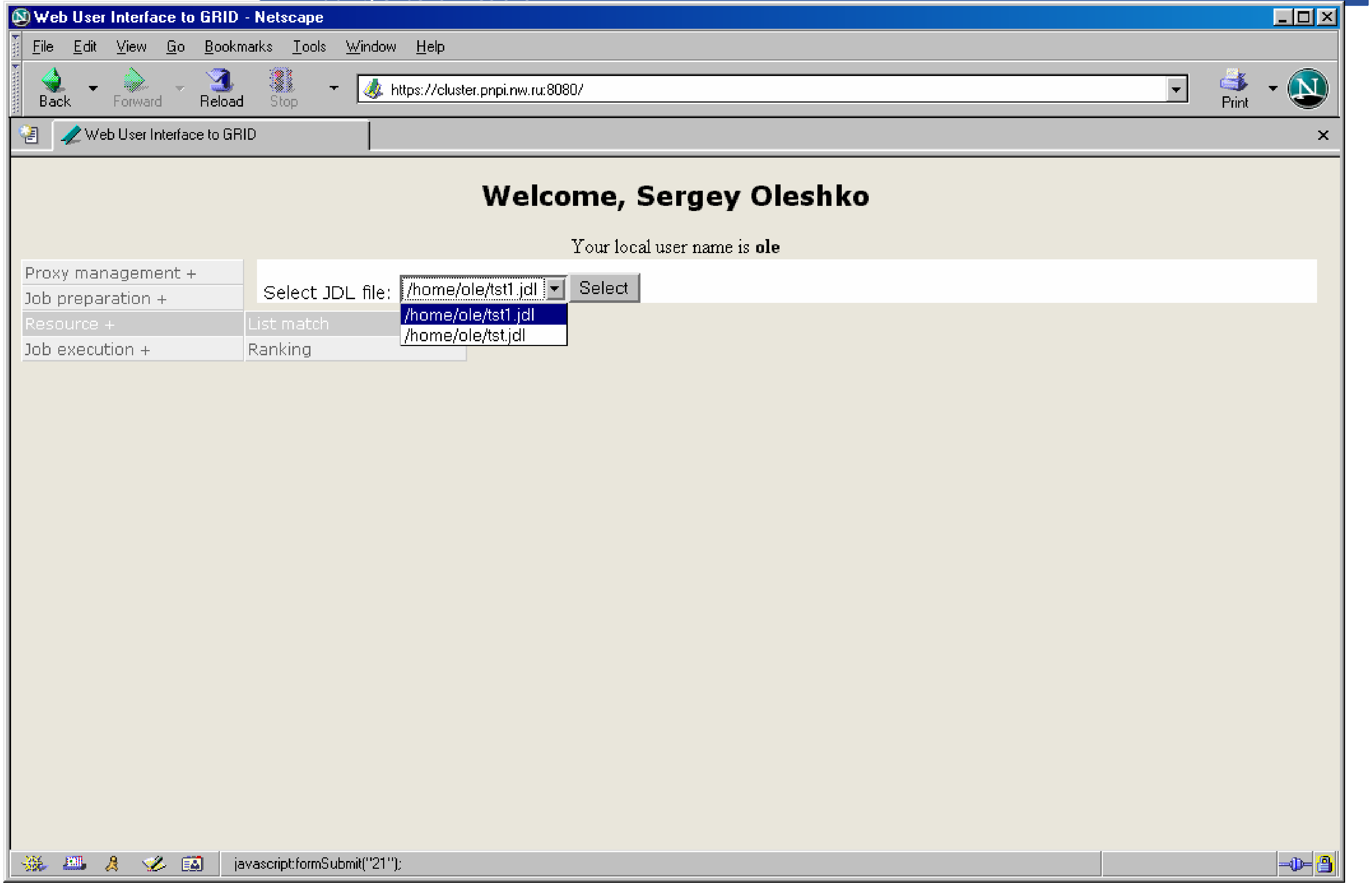
Welcome, Sergey Oleshko

Your local user name is **ole**

tst.jdl:

```
Executable="/bin/echo";
Arguments="Hello world";
StdOutput="hello.out";
StdError="hello.err";
OutputSandbox={"hello.out","hello.err"};
```

Выбор ресурса (1/3)

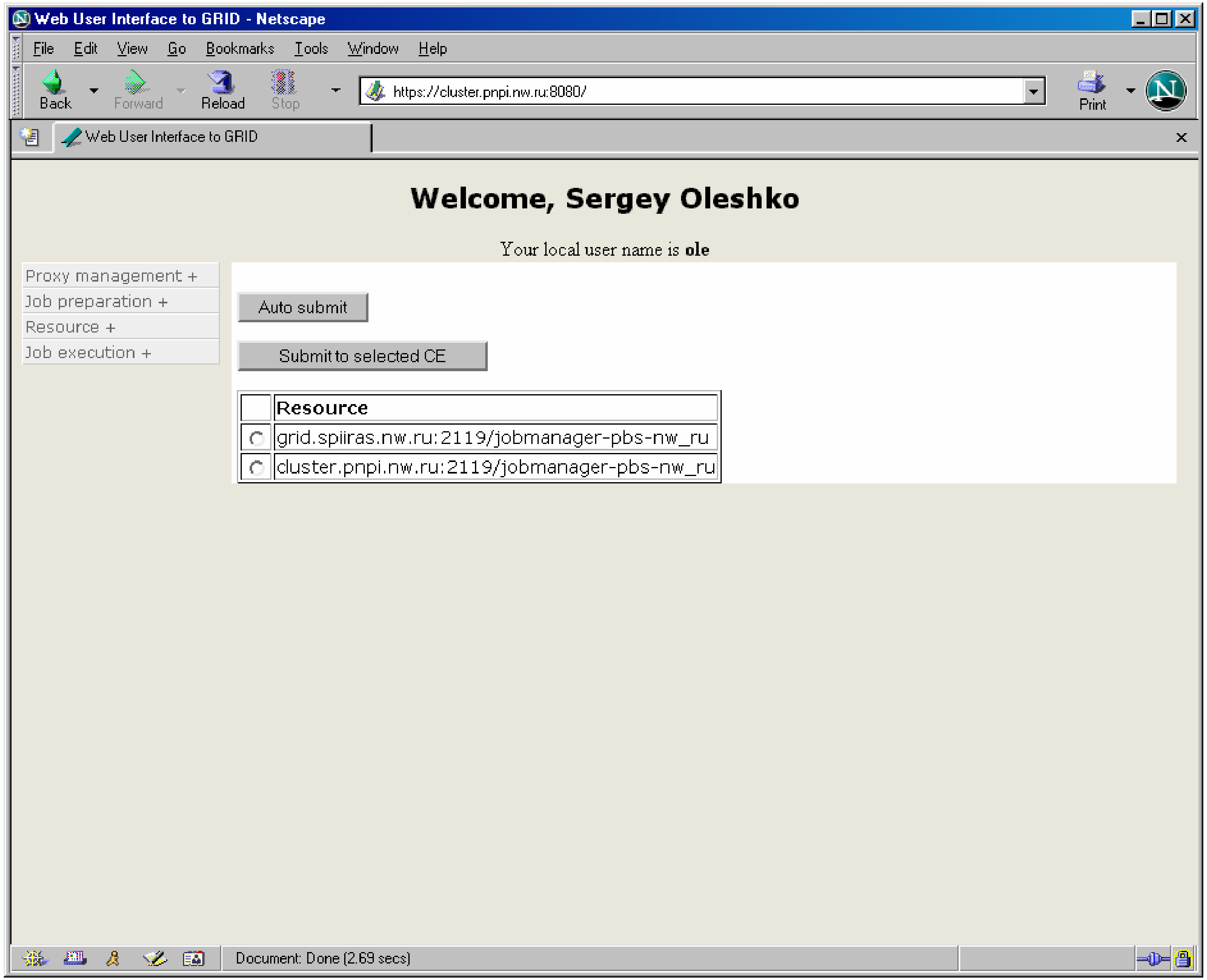

Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
List match
Ranking
Job execution +
Select
/home/ole/tst1.jdl
/home/ole/tst.jdl
javascript:formSubmit("21");

Welcome, Sergey Oleshko

Your local user name is **ole**

Select JDL file: /home/ole/tst1.jdl

Выбор ресурса (2/3)


Web User Interface to GRID - Netscape
File
Edit
View
Go
Bookmarks
Tools
Window
Help
Back
Forward
Reload
Stop
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Auto submit
Submit to selected CE

https://cluster.pnpi.nw.ru:8080/

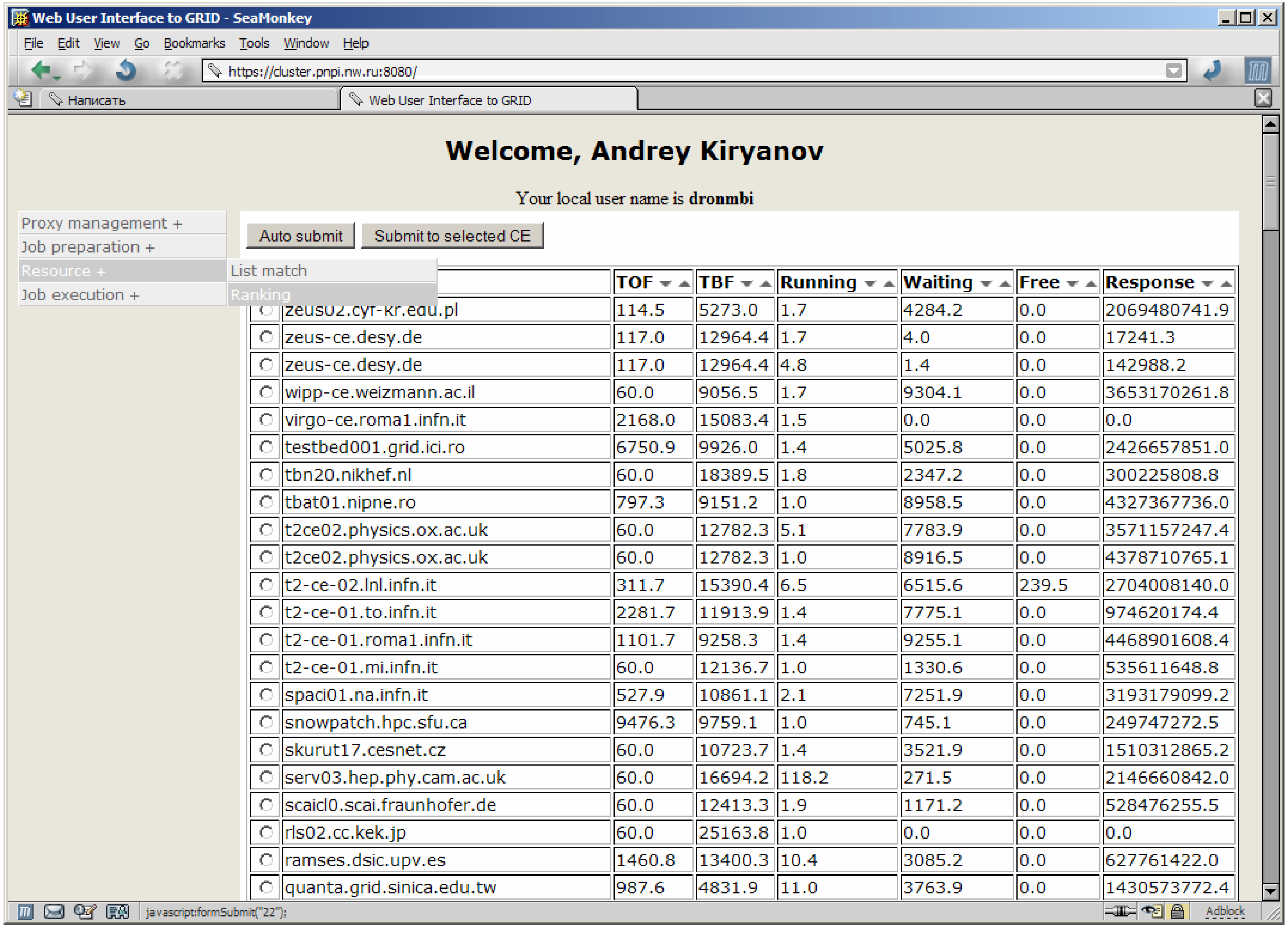
Welcome, Sergey Oleshko

Your local user name is **ole**

	Resource
○	grid.spiiras.nw.ru:2119/jobmanager-pbs-nw_ru
○	cluster.pnpi.nw.ru:2119/jobmanager-pbs-nw_ru

Document: Done (2.69 secs)

Выбор ресурса (3/3)

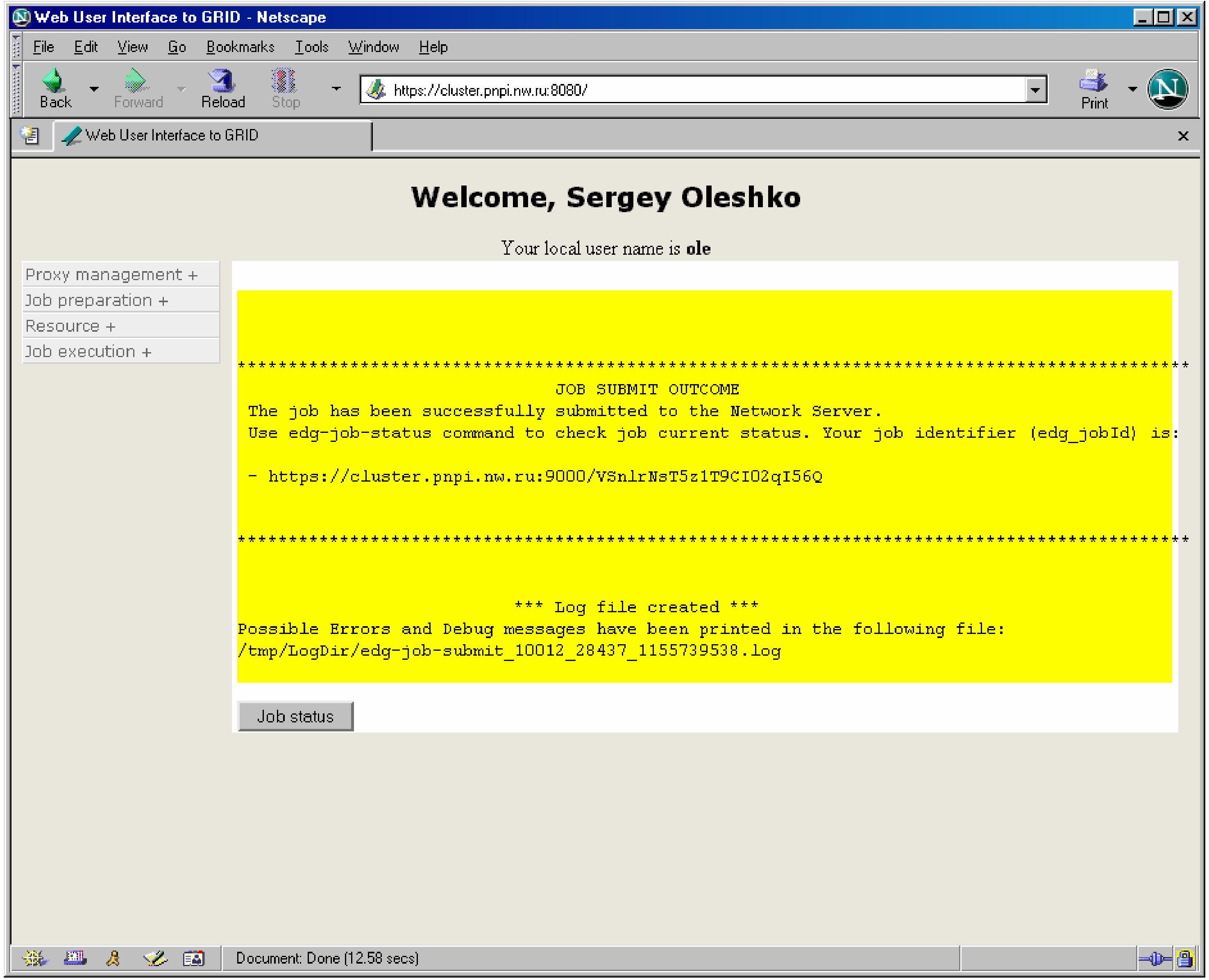

Web User Interface to GRID - SeaMonkey
File Edit View Go Bookmarks Tools Window Help
https://cluster.pnpi.nw.ru:8080/
Написать
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
List match
Ranking
Auto submit
Submit to selected CE
javascript:formSubmit("22");
Adblock

Welcome, Andrey Kiryanov

Your local user name is **dronmbi**

		TOF	TBF	Running	Waiting	Free	Response
○	zeus02.cyf-kr.edu.pl	114.5	5273.0	1.7	4284.2	0.0	2069480741.9
○	zeus-ce.desy.de	117.0	12964.4	1.7	4.0	0.0	17241.3
○	zeus-ce.desy.de	117.0	12964.4	4.8	1.4	0.0	142988.2
○	wipp-ce.weizmann.ac.il	60.0	9056.5	1.7	9304.1	0.0	3653170261.8
○	virgo-ce.roma1.infn.it	2168.0	15083.4	1.5	0.0	0.0	0.0
○	testbed001.grid.ici.ro	6750.9	9926.0	1.4	5025.8	0.0	2426657851.0
○	tbn20.nikhef.nl	60.0	18389.5	1.8	2347.2	0.0	300225808.8
○	tbat01.nipne.ro	797.3	9151.2	1.0	8958.5	0.0	4327367736.0
○	t2ce02.physics.ox.ac.uk	60.0	12782.3	5.1	7783.9	0.0	3571157247.4
○	t2ce02.physics.ox.ac.uk	60.0	12782.3	1.0	8916.5	0.0	4378710765.1
○	t2-ce-02.lnl.infn.it	311.7	15390.4	6.5	6515.6	239.5	2704008140.0
○	t2-ce-01.to.infn.it	2281.7	11913.9	1.4	7775.1	0.0	974620174.4
○	t2-ce-01.roma1.infn.it	1101.7	9258.3	1.4	9255.1	0.0	4468901608.4
○	t2-ce-01.mi.infn.it	60.0	12136.7	1.0	1330.6	0.0	535611648.8
○	spaci01.na.infn.it	527.9	10861.1	2.1	7251.9	0.0	3193179099.2
○	snowpatch.hpc.sfu.ca	9476.3	9759.1	1.0	745.1	0.0	249747272.5
○	skurut17.cesnet.cz	60.0	10723.7	1.4	3521.9	0.0	1510312865.2
○	serv03.hep.phy.cam.ac.uk	60.0	16694.2	118.2	271.5	0.0	2146660842.0
○	scaicl0.scai.fraunhofer.de	60.0	12413.3	1.9	1171.2	0.0	528476255.5
○	rls02.cc.kek.jp	60.0	25163.8	1.0	0.0	0.0	0.0
○	ramses.dsic.upv.es	1460.8	13400.3	10.4	3085.2	0.0	627761422.0
○	quanta.grid.sinica.edu.tw	987.6	4831.9	11.0	3763.9	0.0	1430573772.4

Запуск задания


Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Job status
Document: Done (12.58 secs)

Welcome, Sergey Oleshko

Your local user name is **ole**

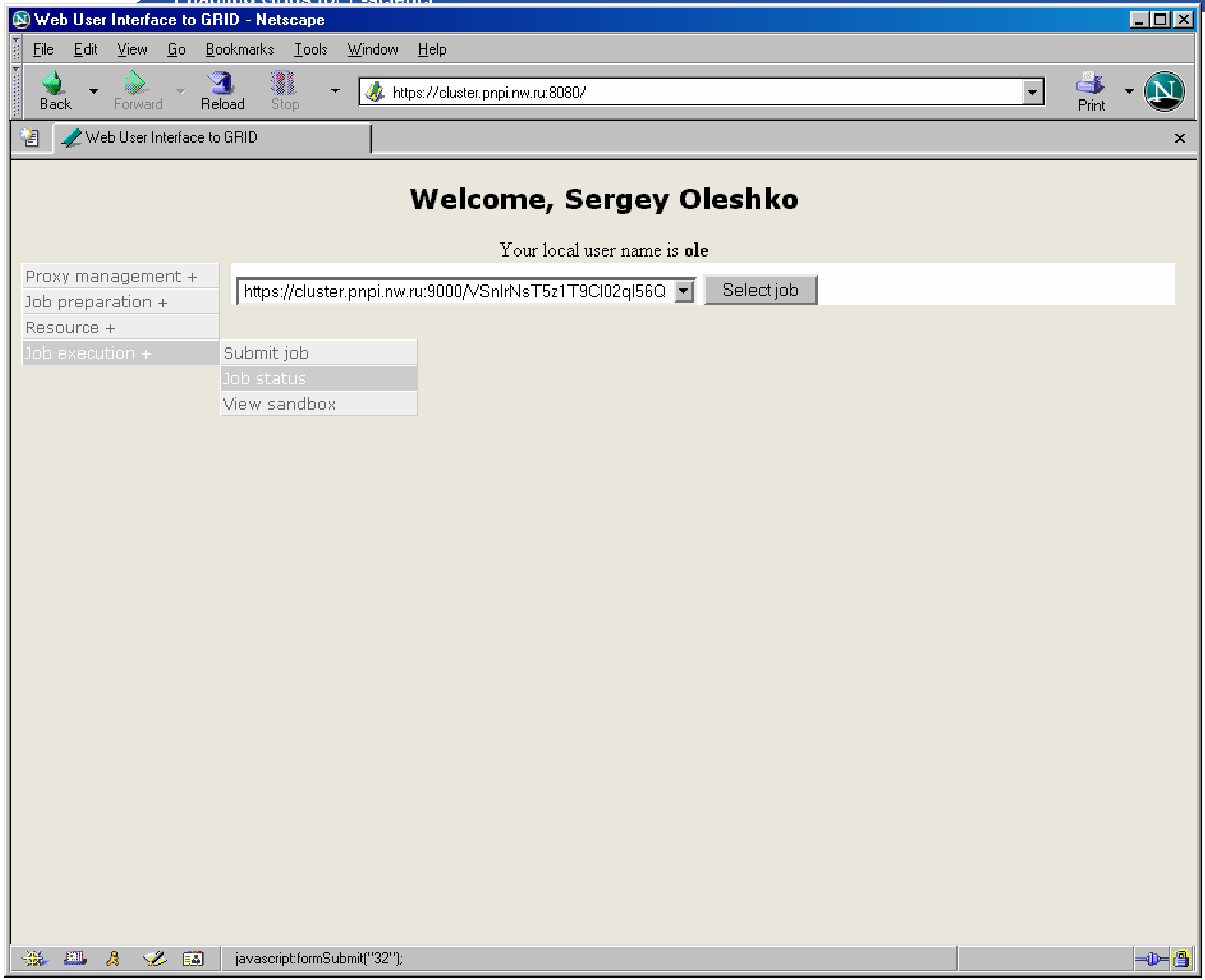
```
*********************************************************************************************
                               JOB SUBMIT OUTCOME
 The job has been successfully submitted to the Network Server.
 Use edg-job-status command to check job current status. Your job identifier (edg_jobId) is:

 - https://cluster.pnpi.nw.ru:9000/VSnlrNsT5z1T9CI02qI56Q


*********************************************************************************************


                           *** Log file created ***
Possible Errors and Debug messages have been printed in the following file:
/tmp/LogDir/edg-job-submit_10012_28437_1155739538.log
```

Просмотр статуса (1/2)


Web User Interface to GRID - Netscape
File
Edit
View
Go
Bookmarks
Tools
Window
Help
Back
Forward
Reload
Stop
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Submit job
Job status
View sandbox
Select job

https://cluster.pnpi.nw.ru:8080/

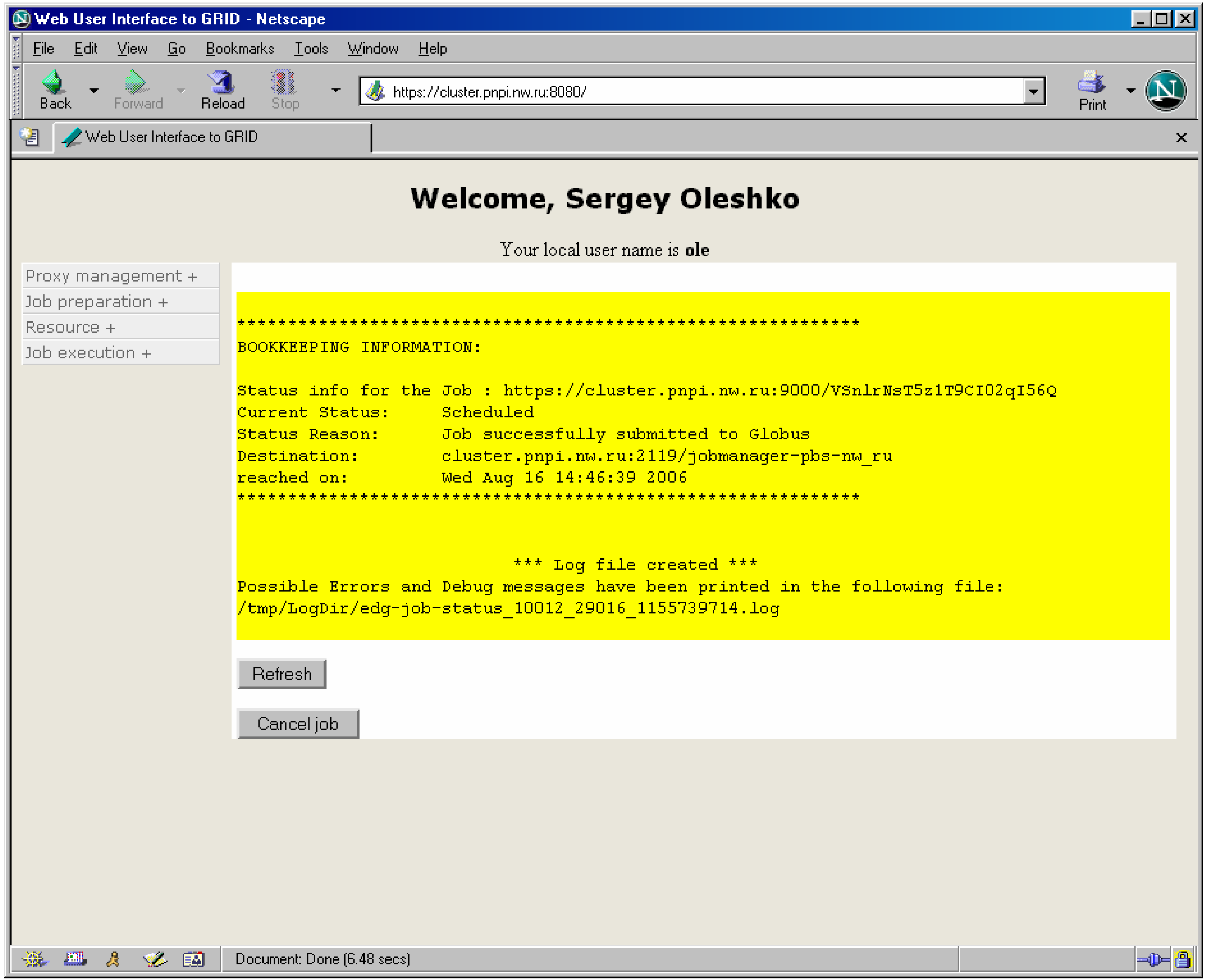
Welcome, Sergey Oleshko

Your local user name is **ole**

https://cluster.pnpi.nw.ru:9000/VSnlrNsT5z1T9Cl02ql56Q

javascript:formSubmit("32");

Просмотр статуса (2/2)


Web User Interface to GRID - Netscape
File
Edit
View
Go
Bookmarks
Tools
Window
Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Refresh
Cancel job
Document: Done (6.48 secs)

Welcome, Sergey Oleshko

Your local user name is **ole**

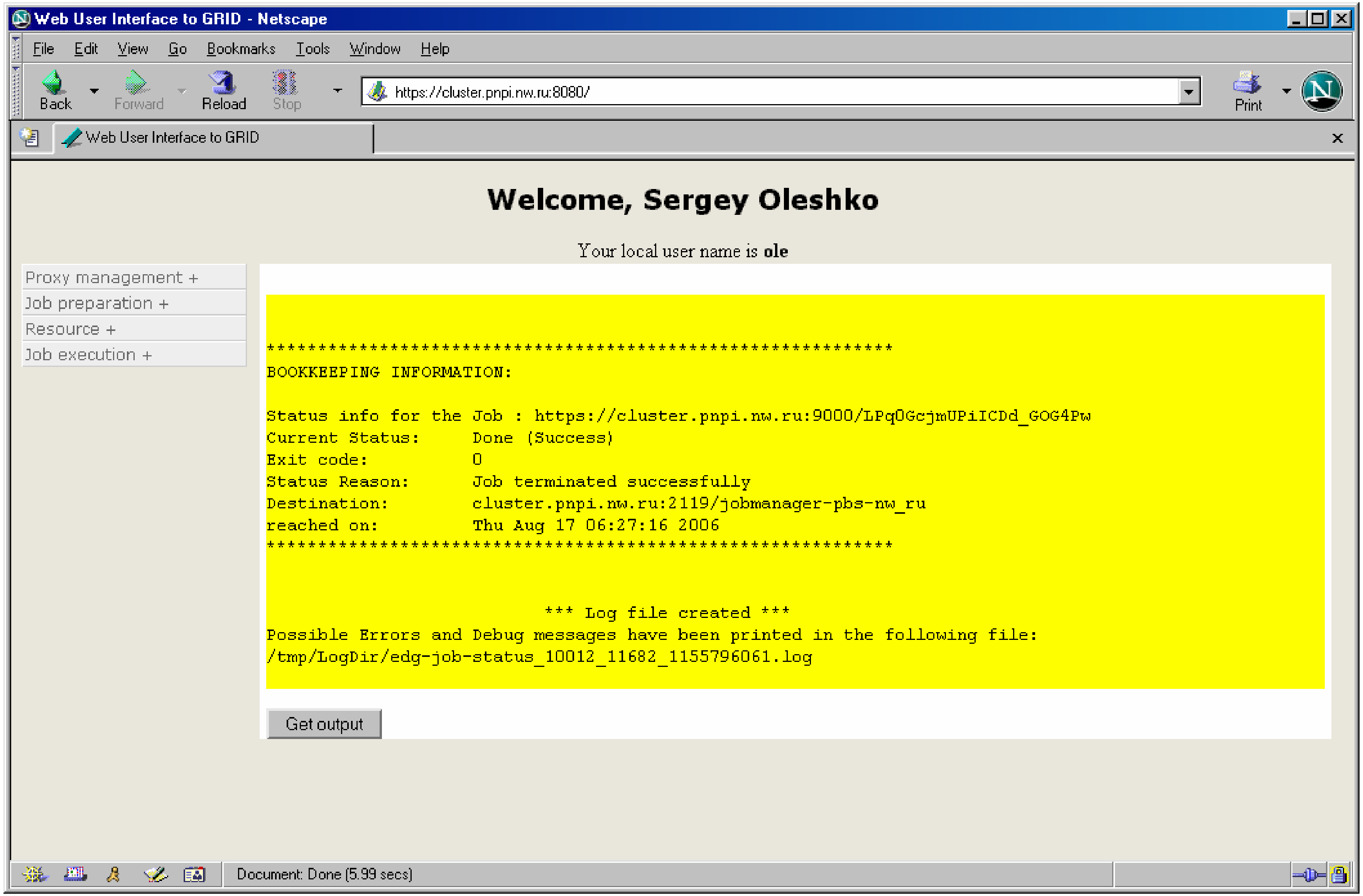
```
*************************************************************
BOOKKEEPING INFORMATION:

Status info for the Job : https://cluster.pnpi.nw.ru:9000/VSnlrNsT5z1T9CI02qI56Q
Current Status:     Scheduled
Status Reason:      Job successfully submitted to Globus
Destination:        cluster.pnpi.nw.ru:2119/jobmanager-pbs-nw_ru
reached on:         Wed Aug 16 14:46:39 2006
*************************************************************



                           *** Log file created ***
Possible Errors and Debug messages have been printed in the following file:
/tmp/LogDir/edg-job-status_10012_29016_1155739714.log
```

Получение результатов (1/2)


Web User Interface to GRID - Netscape
File
Edit
View
Go
Bookmarks
Tools
Window
Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Get output
Document: Done (5.99 secs)

Welcome, Sergey Oleshko

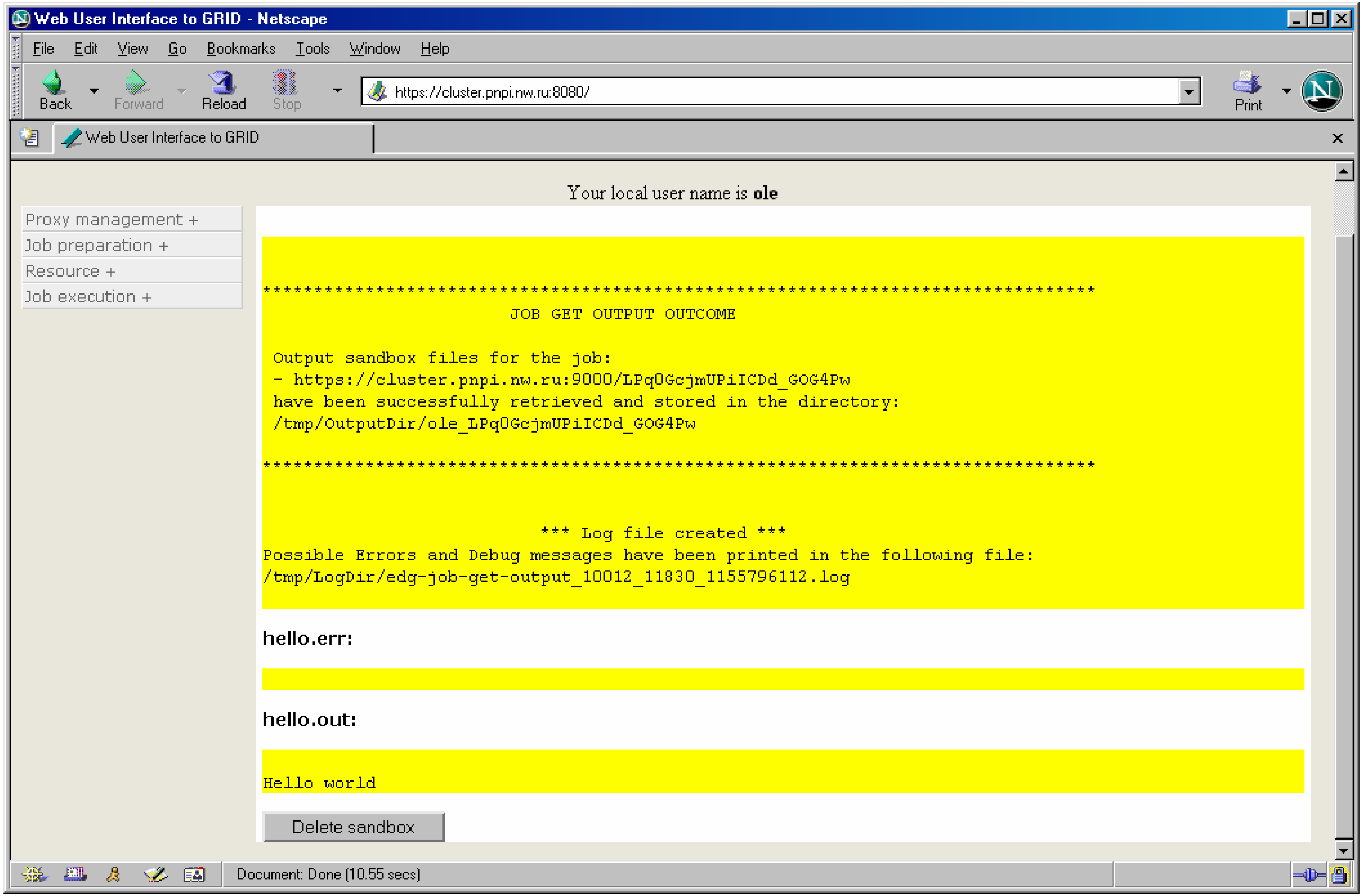
Your local user name is **ole**

```
**************************************************************
BOOKKEEPING INFORMATION:

Status info for the Job : https://cluster.pnpi.nw.ru:9000/LPq0GcjmUPiICDd_GOG4Pw
Current Status:     Done (Success)
Exit code:          0
Status Reason:      Job terminated successfully
Destination:        cluster.pnpi.nw.ru:2119/jobmanager-pbs-nw_ru
reached on:         Thu Aug 17 06:27:16 2006
**************************************************************


                           *** Log file created ***
Possible Errors and Debug messages have been printed in the following file:
/tmp/LogDir/edg-job-status_10012_11682_1155796061.log
```

Получение результатов (2/2)


Web User Interface to GRID - Netscape
File Edit View Go Bookmarks Tools Window Help
Back
Forward
Reload
Stop
https://cluster.pnpi.nw.ru:8080/
Print
Web User Interface to GRID
Proxy management +
Job preparation +
Resource +
Job execution +
Delete sandbox
Document: Done (10.55 secs)

Your local user name is **ole**

```
*********************************************************************************
                        JOB GET OUTPUT OUTCOME

 Output sandbox files for the job:
 - https://cluster.pnpi.nw.ru:9000/LPq0GcjmUPiICDd_GOG4Pw
 have been successfully retrieved and stored in the directory:
 /tmp/OutputDir/ole_LPq0GcjmUPiICDd_GOG4Pw

*********************************************************************************



                           *** Log file created ***
Possible Errors and Debug messages have been printed in the following file:
/tmp/LogDir/edg-job-get-output_10012_11830_1155796112.log
```

hello.err:

hello.out:

```
Hello world
```