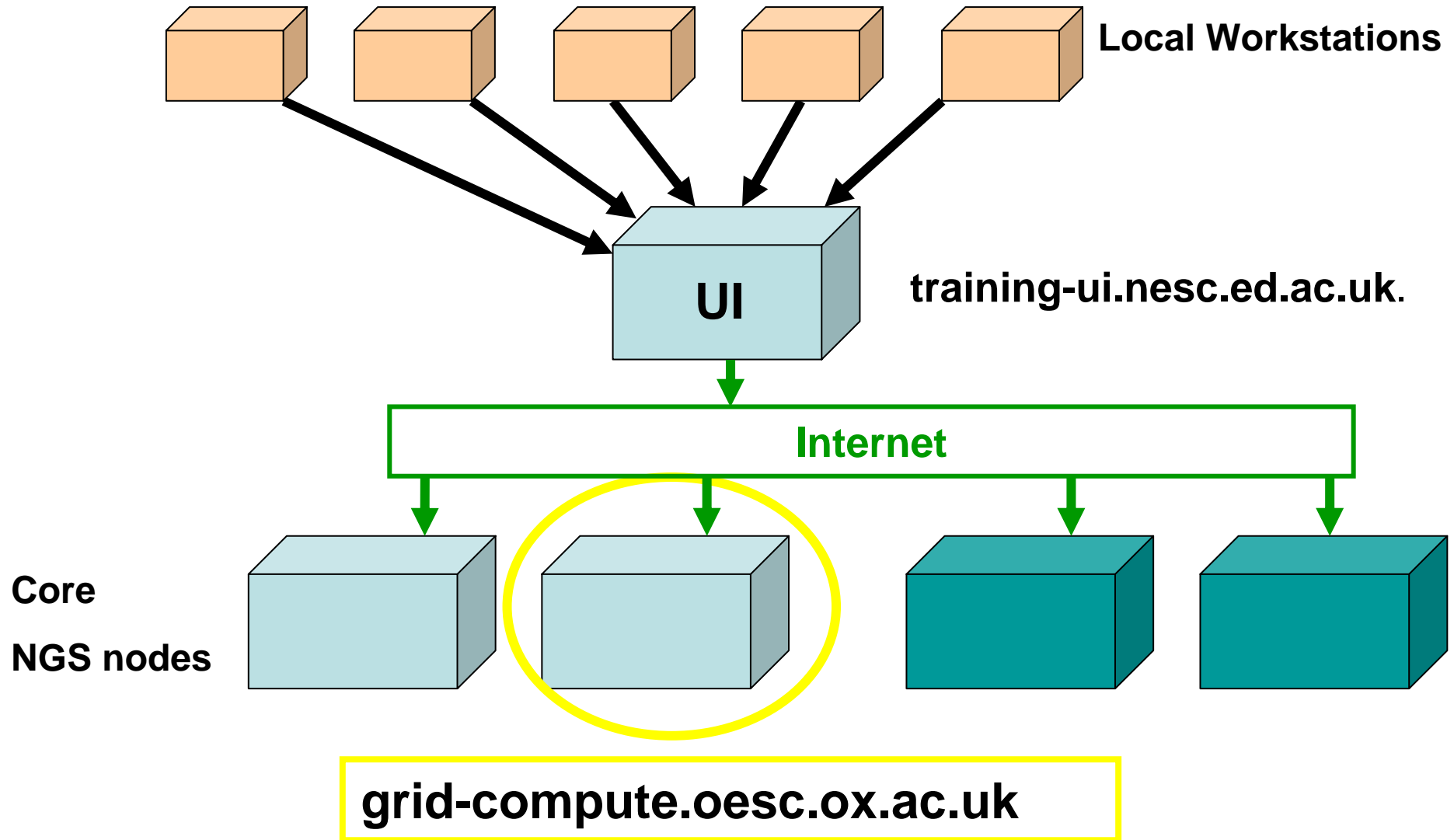


# Connecting to the NGS

Mike Mineter

Training, Outreach and Education Team

# Our setup



# Accessing the NGS

1. Obtain a certificate from the TOE Training Certificate Manager
2. Use it to gain access to grid-enabled machines

We are accessing “[training-ui.nesc.ed.ac.uk](http://training-ui.nesc.ed.ac.uk)” and from there we will use grid commands.

# The Training Certificate Authority

- A fully functional certificate authority for issuing low-assurance certificates
- Low-assurance allows:
  - Certificates issued to local organiser and not the attendee.
  - Attendees do not need to sign UK Terms and conditions of use.
  - Identity checks on attendees are not needed.
- No need for the attendee to do anything pre-event.
- All certificate Distinguished Names (DN's) are known pre-event.
- DN's are of the form  
“/C=UK//O=Grid/O=Training/CU=NeSC/CN=UserXX” where  
XX is a two digit number

# Certificate Manager



In Firefox go here: <https://training-ui.nesc.ed.ac.uk>

<https://training-ui.nesc.ed.ac.uk>

- What's happening:
  - This tool is designed to be similar to method used by UK CA to distribute certificates
- **Accept Tool's site certificate when asked**
- **Click "Download" and then:**
  - **Save the file to disk**

# Save certificate to disc

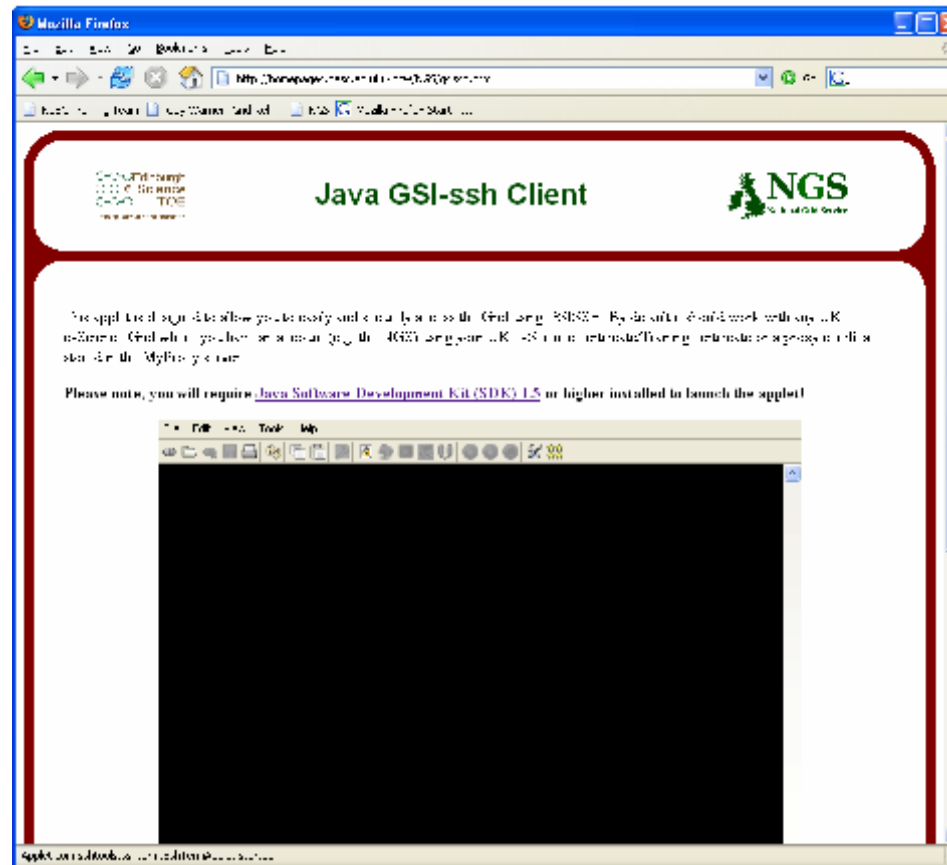


# Gaining access

- You have downloaded a certificate onto your desktop
- Now: use it to gain access to training-ui
  - We're using the certificate instead of having a username/password on training-ui



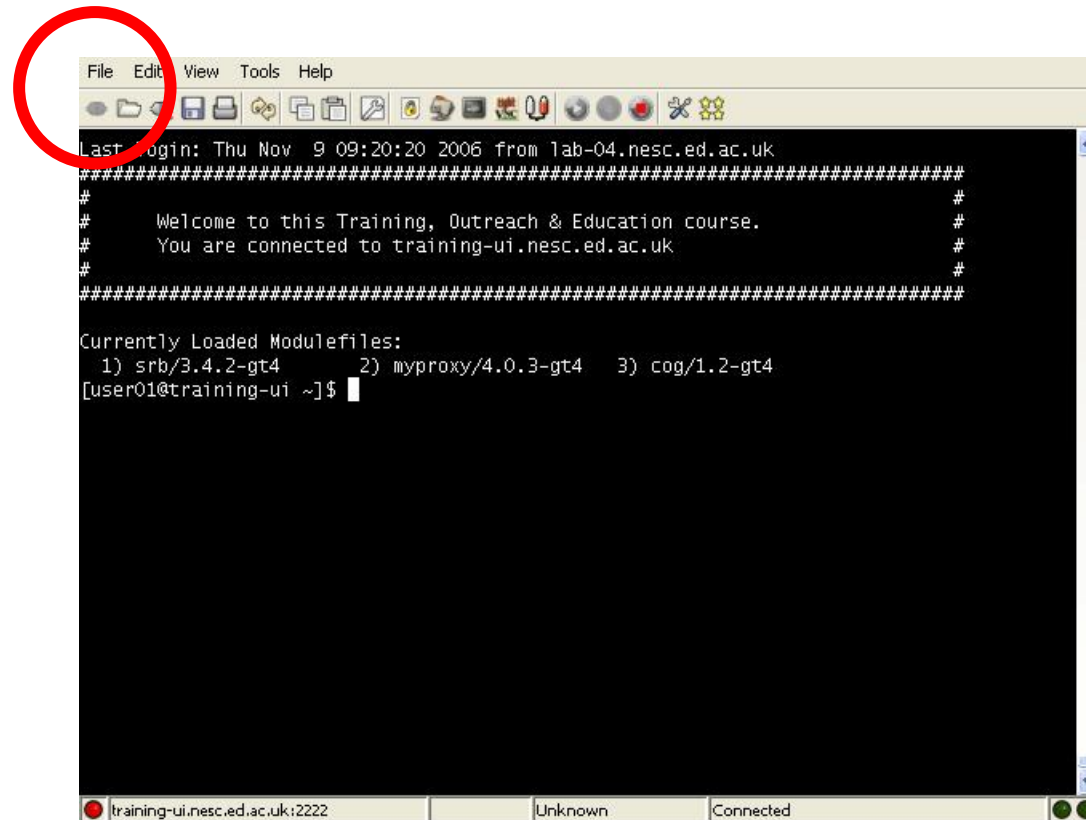
# Connecting to training-ui open gsissh applet



<http://homepages.nesc.ac.uk/~gcw/NGS/gsissh.html>

(Or open a terminal window and type: `sshterm.sh` )

# Connect to training-ui



```
File Edit View Tools Help
Last login: Thu Nov  9 09:20:20 2006 from lab-04.nesc.ed.ac.uk
#####
# Welcome to this Training, Outreach & Education course. #
# You are connected to training-ui.nesc.ed.ac.uk #
# #
#####
Currently Loaded Modulefiles:
 1) srb/3.4.2-gt4      2) myproxy/4.0.3-gt4  3) cog/1.2-gt4
[user01@training-ui ~]$
```

In java gsissh:

- **File then New Connection**
- Connect to “**training-ui.nesc.ed.ac.uk**”

# Connecting to training-ui

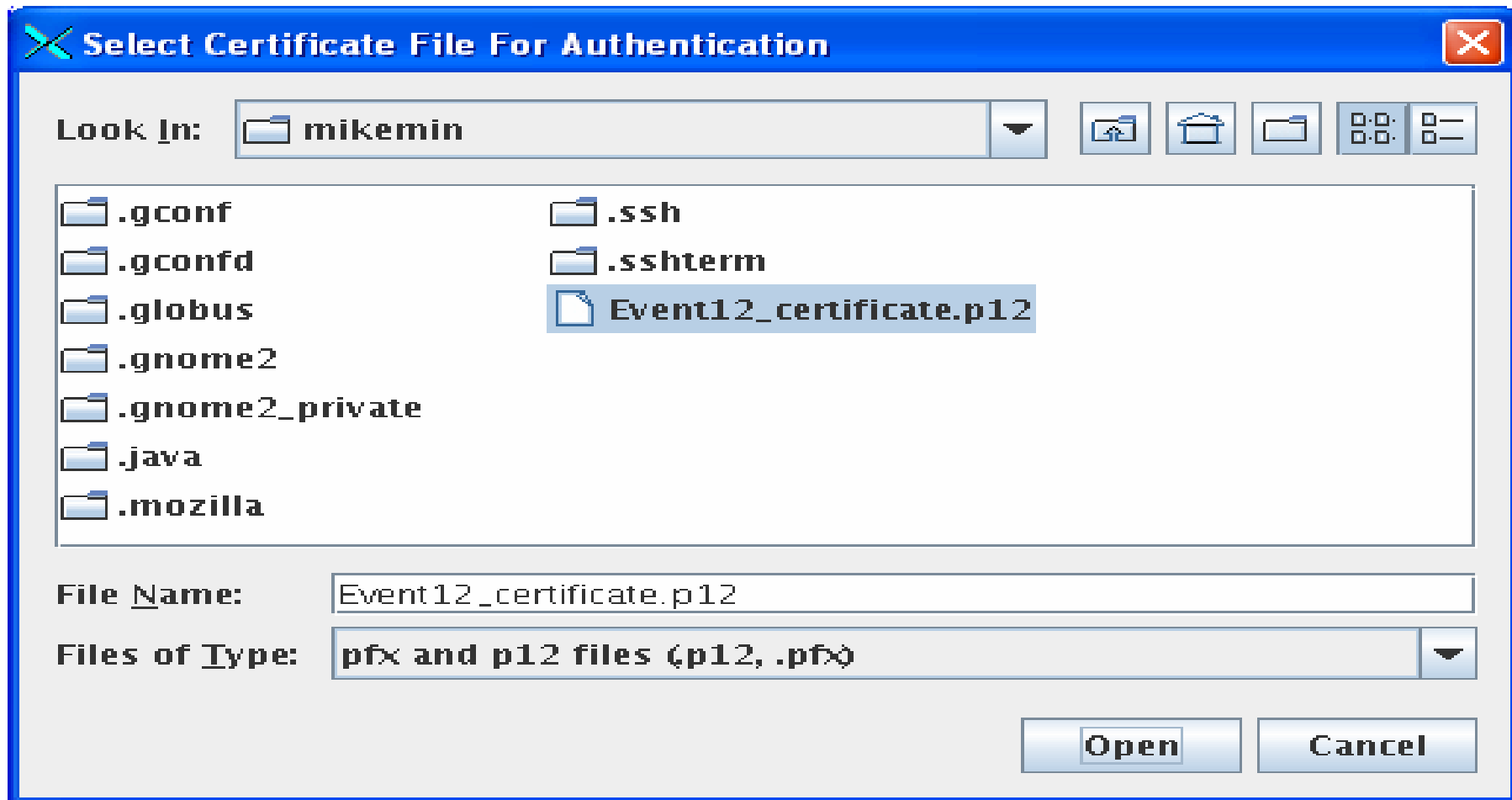


**Browse to certificate  
“event..cert.. .p12”**

**Passphrase: “aspdaf”**

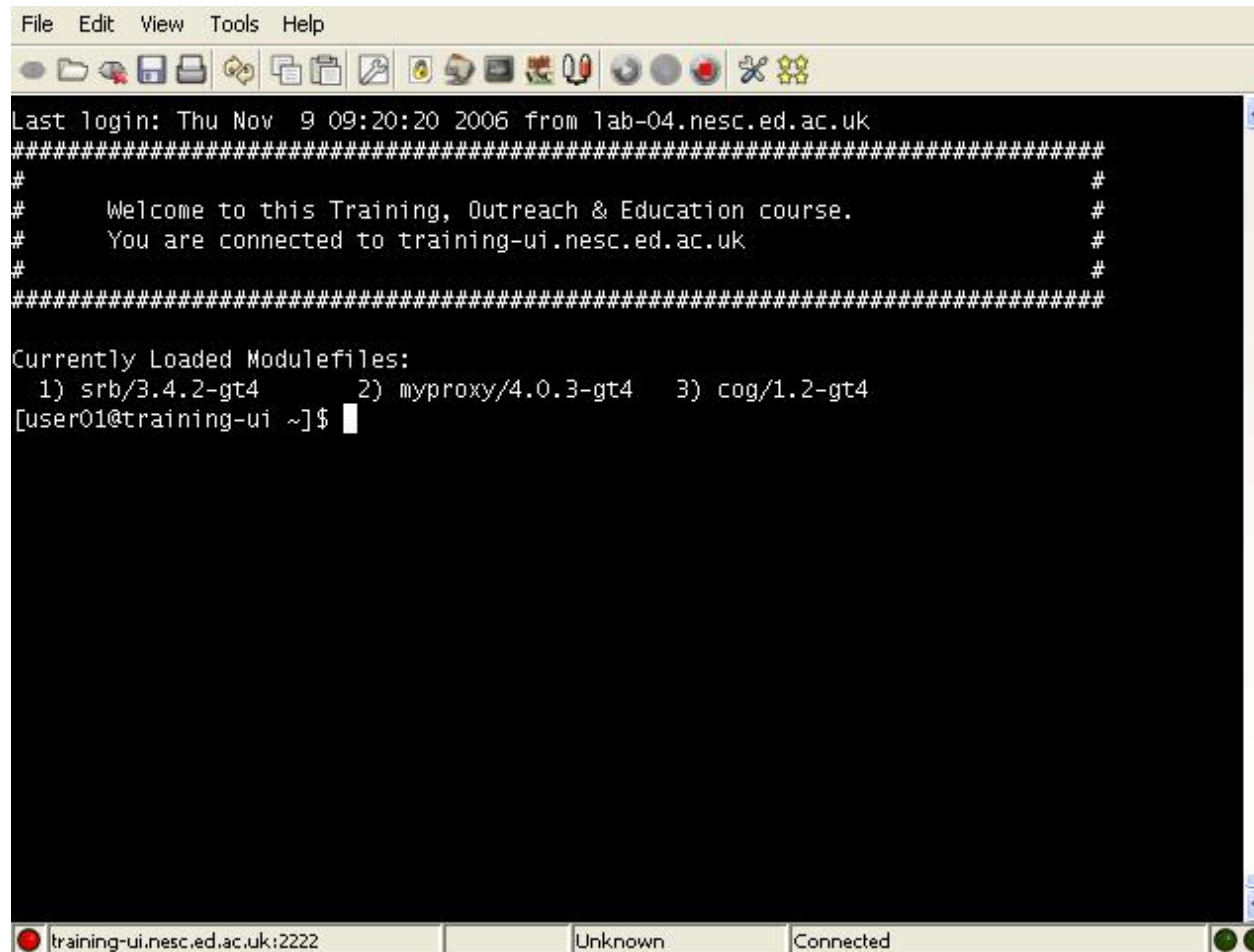
**Click “use certificate”**

# Browse: cert is in home directory



# Connecting to training-ui

## See login messages



```
File Edit View Tools Help
#####
#
# Welcome to this Training, Outreach & Education course.
# You are connected to training-ui.nesc.ed.ac.uk
#
#####

Currently Loaded Modulefiles:
 1) srb/3.4.2-gt4      2) myproxy/4.0.3-gt4  3) cog/1.2-gt4
[user01@training-ui ~]$
```

# Once connected...

- Type:

**grid-proxy-info**

to see the proxy certificate that gsissh has provided for you on training-ui for this session

# Test connection

- The first task is to just connect to the head node at `gssh` (not the java version). This will ensure that your account is working as expected:
- **`gssh -p 2222 grid-compute.oesc.ox.ac.uk`**
- If you have logged on successfully then *log off* for now
- Checking:
  - Your proxy is ok
  - Your proxy is recognised by Oxford.
- *In general you will use globus tools from the training-ui and not logon directly*

# Summary

- Obtained certificate from <https://training-ui.nesc.ed.ac.uk>
  - Stored on desktop
- Used java gsissh tool at <http://homepages.nesc.ac.uk/~gcw/NGS/gsissh.html>
- These updated slides are on today's agenda page
  - Go to <http://www.nesc.ac.uk/training/events/>
  - Click on “Jump to most recent”
  - Find this event listed.
  - All talks and practicals will be uploaded to here