



NGS

National Grid Service

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Creating and running applications on the NGS

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Policy for re-use

- This presentation can be re-used for academic purposes.
- However if you do so then please let training-support@nesc.ac.uk know. We need to gather statistics of re-use: no. of events, number of people trained. Thank you!!



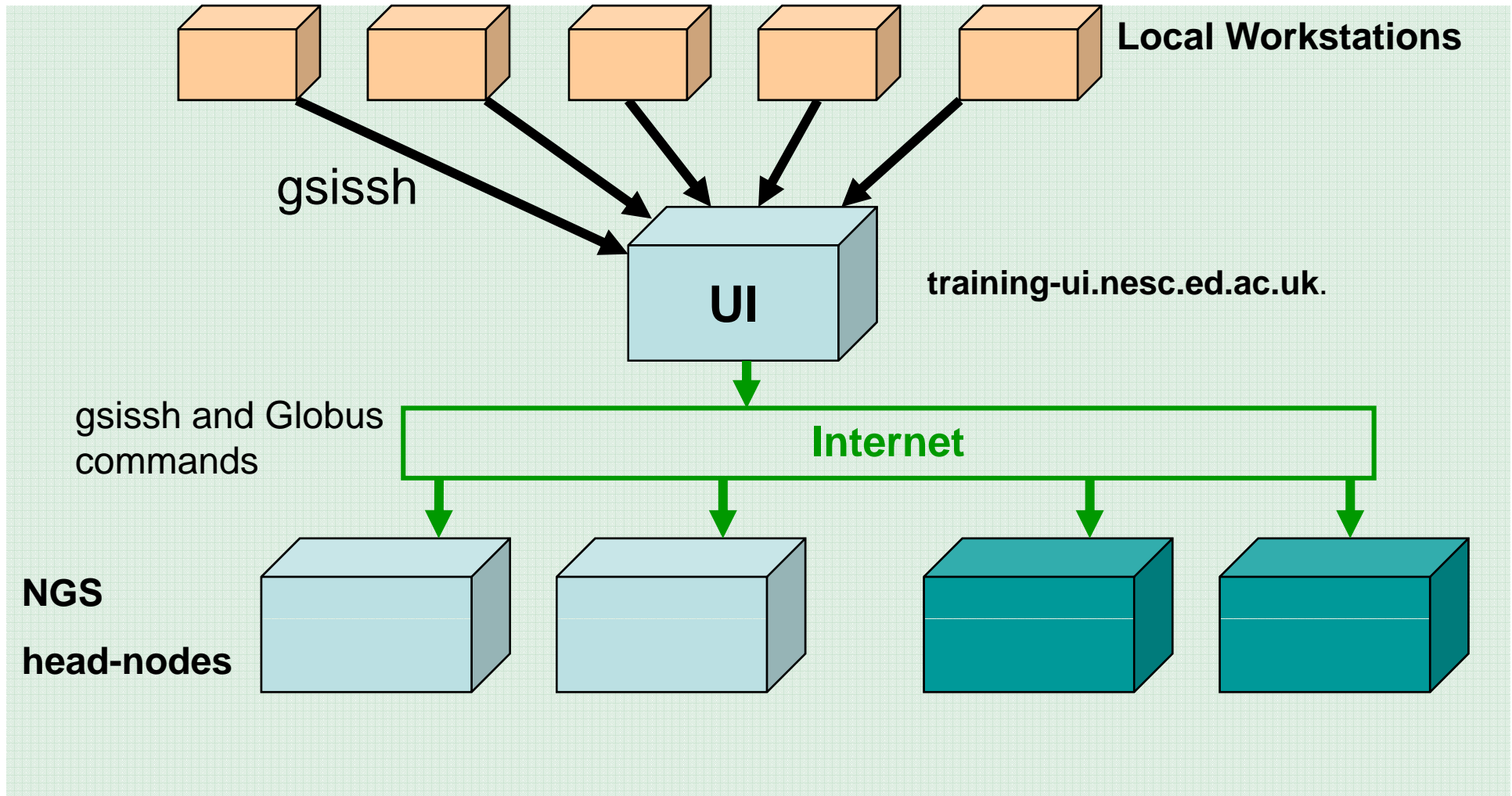
Acknowledgements

- This presentation re-uses material
 - on globus commands from Stephen Pickering (University of Leeds)

Outline

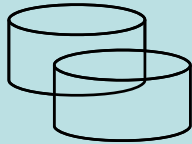
- A “User interface” machine and our set-up today
- How to:
 - Port code and data from desktop/UI to the NGS compute nodes
 - Compile and run code
 - Invoke your application from the UI machine
- Practical

Our setup



Secure file copy

UI



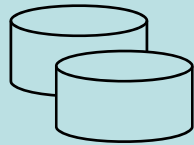
Code and data

gsiscp: copies file
using proxy
certificate to allow
AA

head-node

Open shell on NGS CN

UI

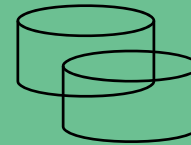


Code and data

gsissh

Can be an X-
windows client

head-node

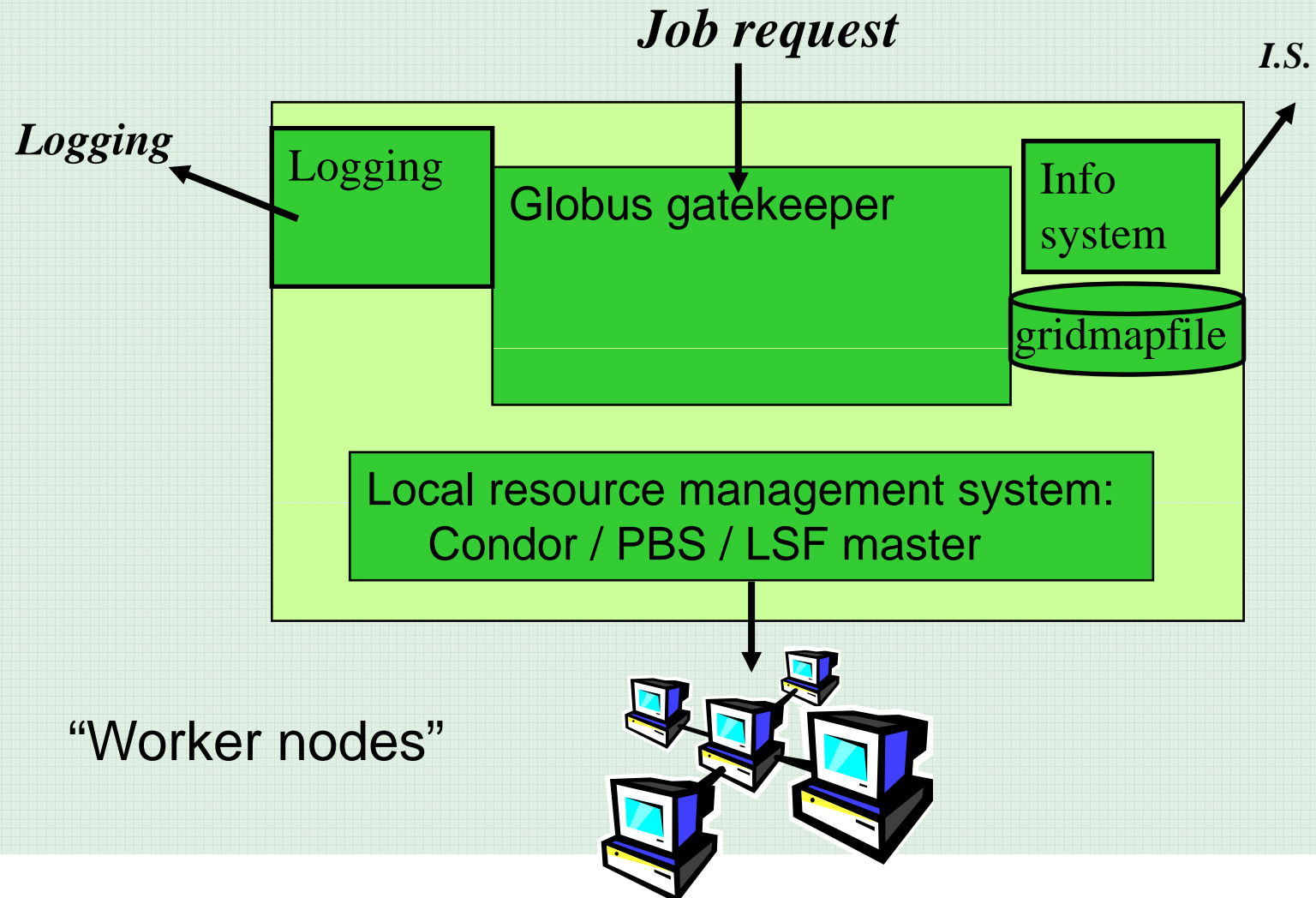


Code and data

Compile, edit, recompile,
build

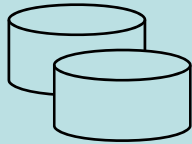
SHORT interactive runs
are ok (sequential)

“Compute element”: An LRMS queue



Run jobs from the UI

UI



Code and data

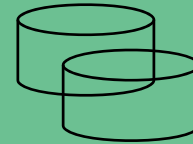
`globus_job_run`

Or

`globus_job_submit /`
`globus_get_output`

Can pass files with
these commands: e,g,
parameters for a job.

head node



Code and data

Executables