

RAPID: Raptor Informing Decisions

JISC

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Overview

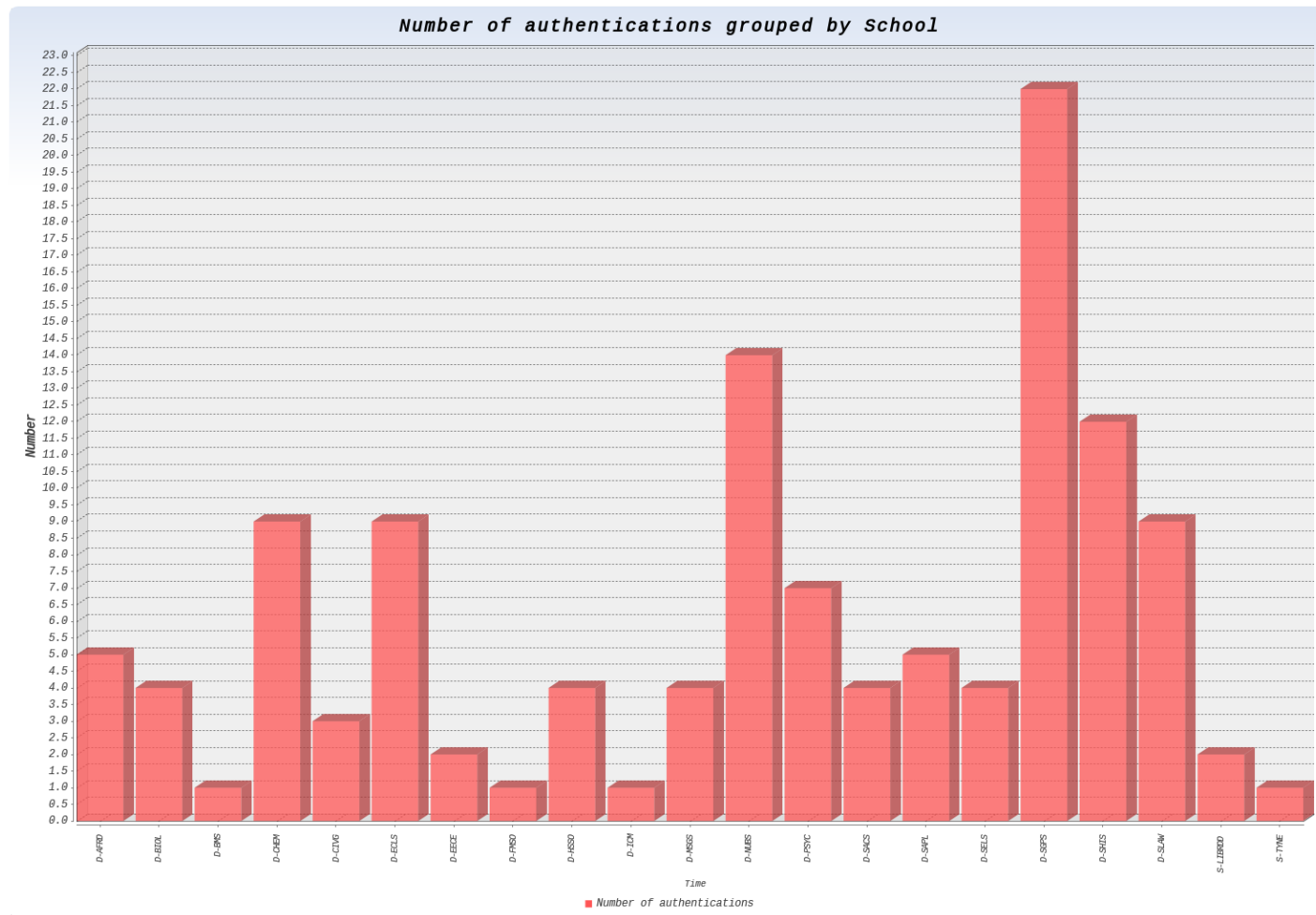
- ▶ The problem with log analysis...
- ▶ Use cases for better log analysis
- ▶ The RAPTOR tool
- ▶ Implementation @ Newcastle
- ▶ Findings/outcomes of project
- ▶ Recommendations for future work
- ▶ Questions, and links to resources

Why...

- ▶ Logs look weird!
- ▶ Hard to establish patterns
- ▶ Graphs provide a quick summary
- ▶ Information not always available in one place
- ▶ Management/decision makers often don't have access to logs...



Graphs



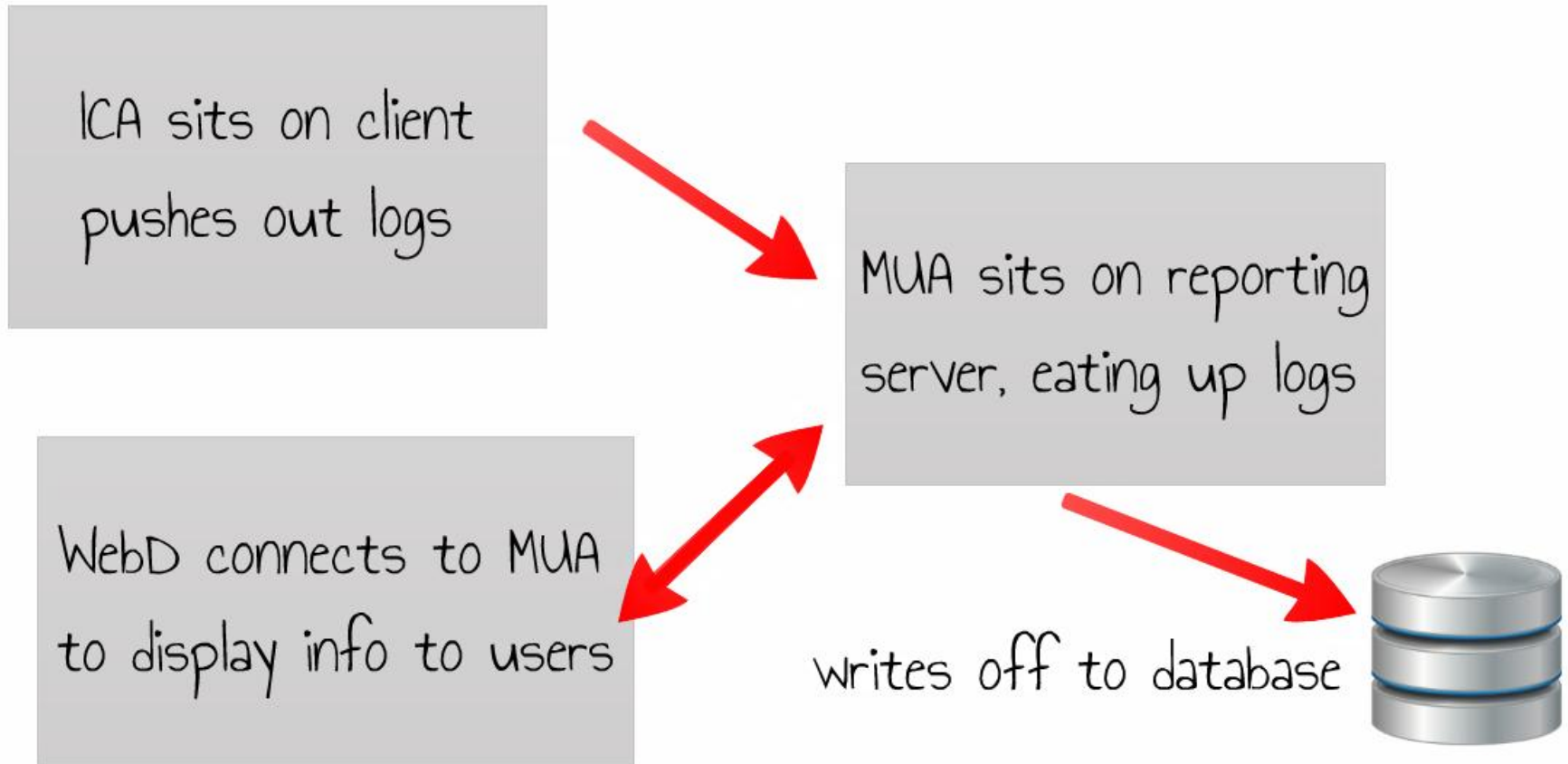
Use Cases

- ▶ Shibboleth
 - Summary
 - summary
- ▶ EZProxy
 - Summary
 - summary
- ▶ Grouper
 - Summary
 - summary

How...

- ▶ RAPTOR - <http://iam.cf.ac.uk/trac/RAPTOR/>
- ▶ Almost real-time graphing
- ▶ Historical trends
- ▶ Attribute association
- ▶ Built in support for Shibboleth/EZProxy
- ▶ Extendable

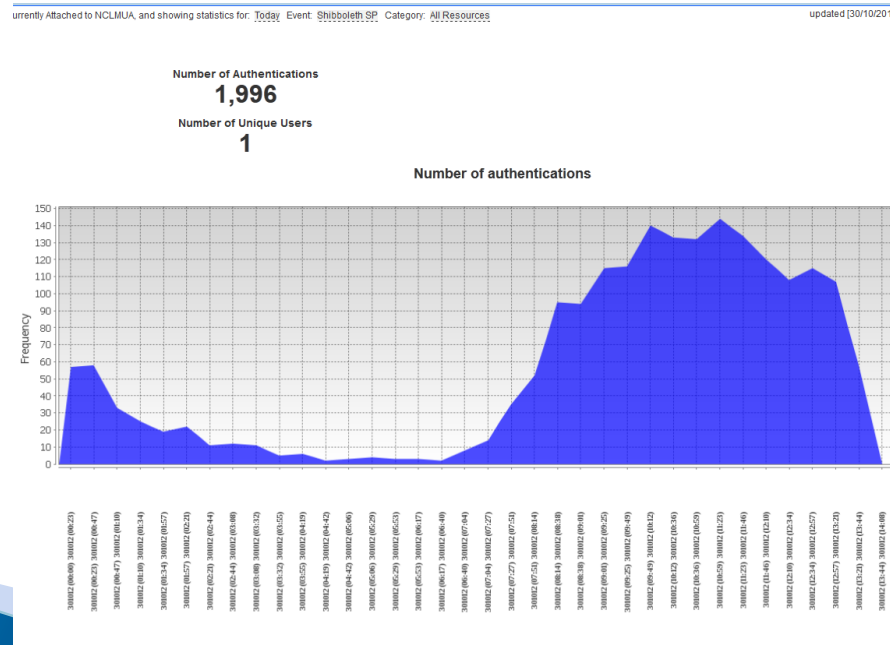
Technical...



Technical...

...cont

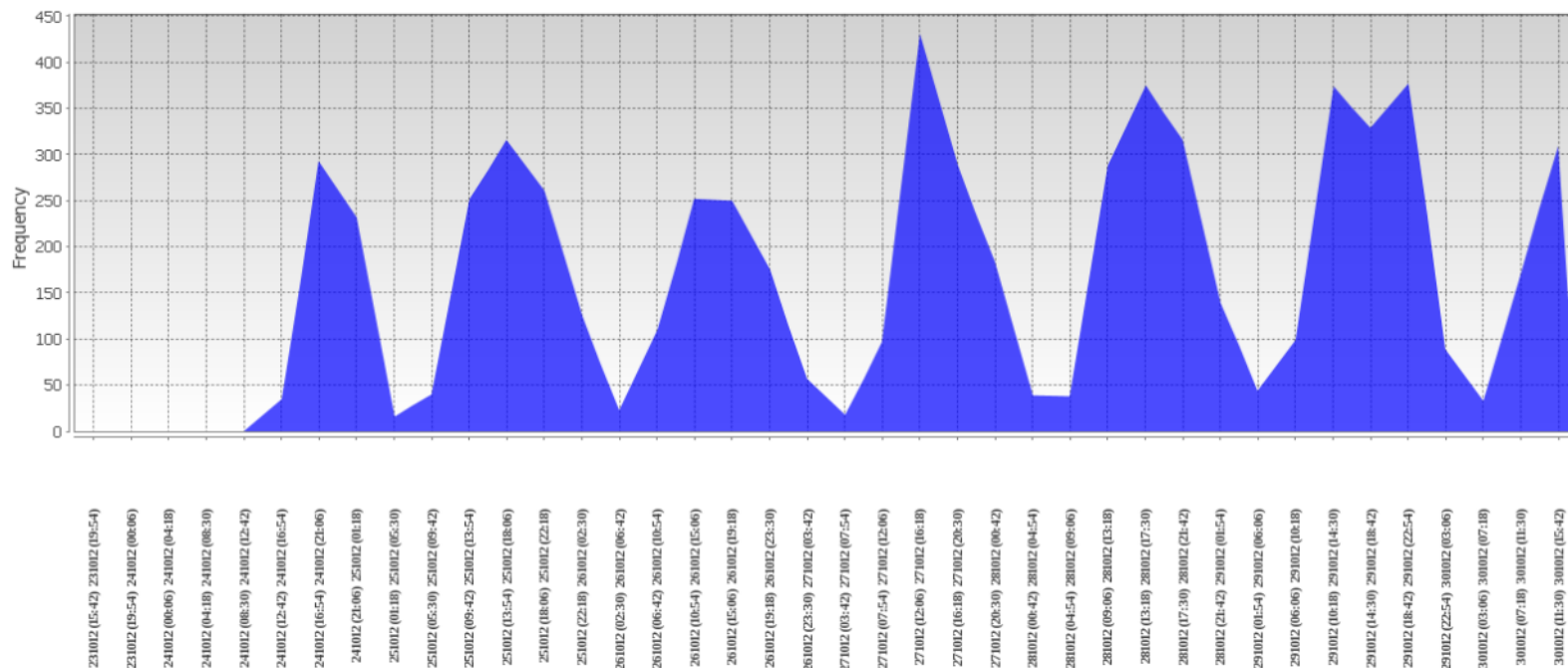
- ▶ MySQL over PostgreSQL – separate VM to MUA/web app
- ▶ Fronted web application with Apache/SSL
- ▶ Installed ICA on EZProxy, Shibboleth IdP and, now, Shibboleth SP



Number of Authentications
6,477
Number of Unique Users
1,502

Top 5 eResources (by Authentications)	
Group	Number of auths
http://linkinghub.elsevier.com	756
http://onlinelibrary.wiley.com	528
http://dx.doi.org	524
http://www.jstor.org	520
http://openurl.ebscohost.com	429

Top 5 eResources (by Unique Users)	
Group	Number of Users
http://linkinghub.elsevier.com	313
http://onlinelibrary.wiley.com	273
http://dx.doi.org	250
http://www.jstor.org	236
http://www.tandfonline.com	199

Number of authentications


Customising Graphs

Options

Statistic Name: Number of authentications per school

Event Type Shibboleth

Resource Category All

Start Time: 20/05/2010 14:00

End Time: 22/05/2011 18:00

Parameters: Group By resourceceld

Graph Title: Number of authentications per school

update

Post Processors

No.	Series Label	Filter	Remove
0	Number of authentications for all Schools	+	×
1	Number of authentications for CLAWS		×

+

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Recommendations...

- ▶ Start off using small scale applications
- ▶ Separate out the database component
- ▶ Have an “attribute” database handy
- ▶ Better documentation
 - ▶ Community driven -
<http://iam.cf.ac.uk/trac/RAPTOR/wiki/TechnicalInfo/Community>

Future Work...

- ▶ Grouper log parsing
- ▶ Application usage analysis
- ▶ Cluster room analysis

- ▶ Special cases (disengaged students/unused applications etc)

- ▶ Management-level interface – SSO?

Questions, and links...

- ▶ RAPTOR website:
<http://iam.cf.ac.uk/trac/RAPTOR/>
- ▶ Project website: <http://research.ncl.ac.uk/rapid/>
- ▶ Email us:
 - richard.james@ncl.ac.uk
 - chris.franks@ncl.ac.uk