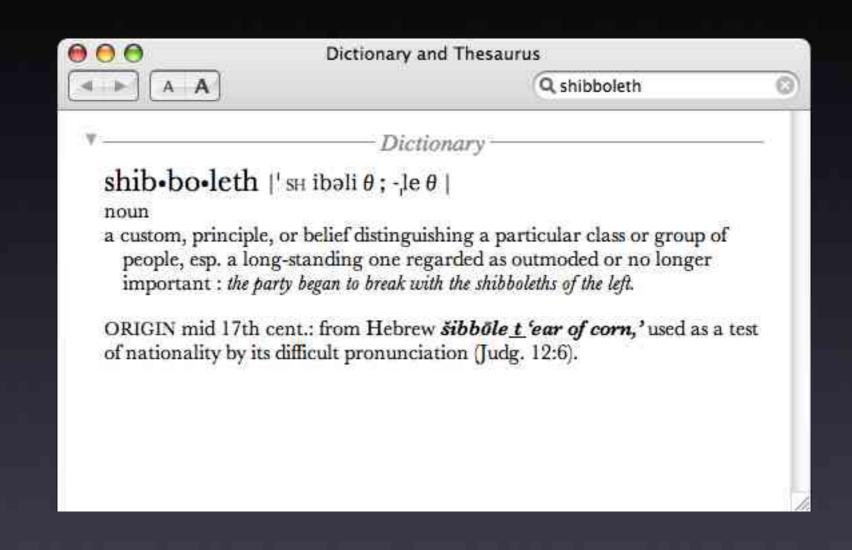
Shibboleth



Shibboleth

More commonly associated with secure authentication and authorisation systems.

(also, believed to be the first password)

Who are we?

- IAMSECT project
 - http://iamsect.ncl.ac.uk/
 - Inter-institutional Authorisation Management to Support eLearning with reference to Clinical Teaching
- Collaboration between Durham,
 Northumbria and Newcastle
- Using BlackBoard and Zope
- JISC 'Core Middleware' (£7 million overall)

What we're doing

- Shibboleth-enabling Blackboard-based VLE
- Shibboleth-enabling Zope-based VLE
- Creating managerial and technical documentation
- Dissemination and awareness events

Shibboleth

- What is it?
- What can I do with it?
- How does it help me?
- What happens next?
 - What do I need to do?...

What is Shibboleth?

- Distributed Authentication and Authorisation
 - authentication identifies who you are
 - authorisation what you are allowed to do
 - (in the past, these have usually been combined)
- Standards-based (SAML)
- Should save time and effort

Vhat is Shibboleth?

Core Concepts

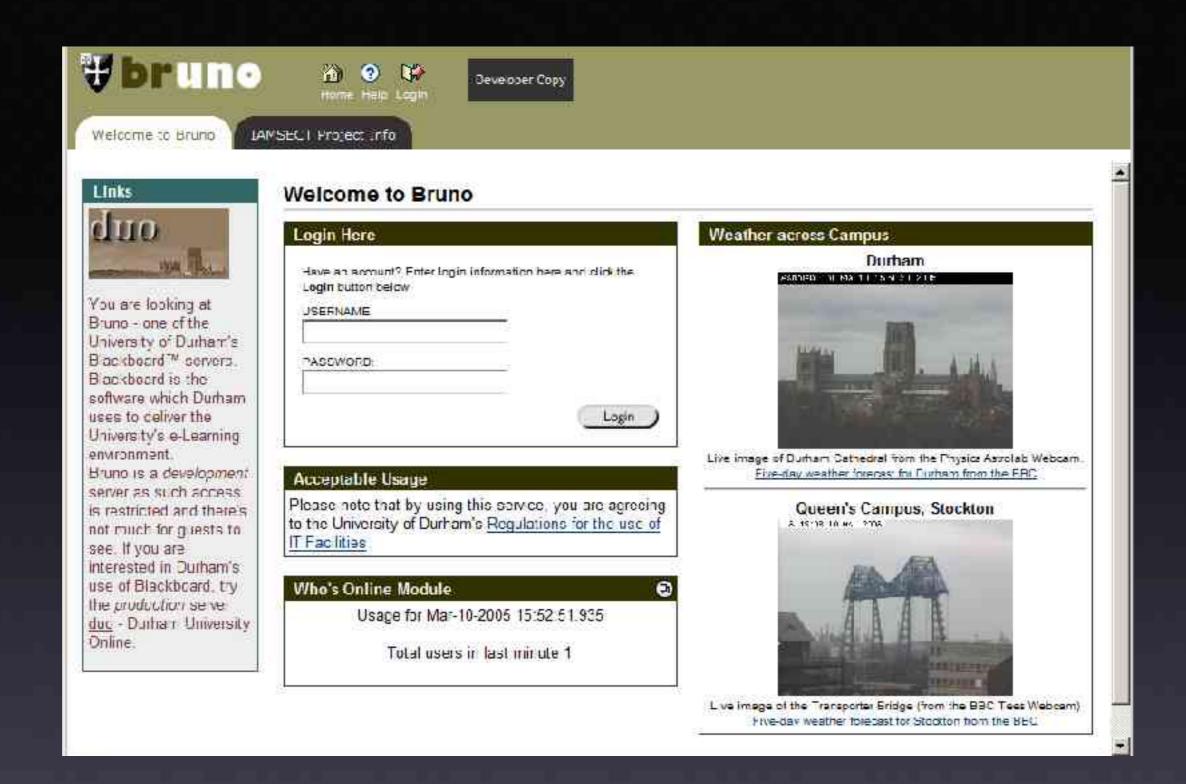
- A user is authenticated at "home"
- Home knows who and what a user is
- Service providers make access decision based on what a user is
- Service providers should only know the minimum about a user

Example

external resource



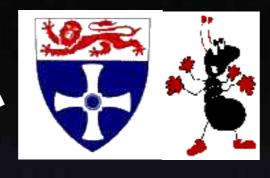




External resource - 'bruno' at Durham

Example

external resource





where are you from?



Select an identity provider

In order to fulfill the request for a web resource you have just attempted to access, information must be obtained from your identity provider. Please select the provider with which you are affiliated.

Choose from a list:

AMIE	Select	Remember my selection on this computer.
AMIE		
AMIE_AUTHZ		
iay.org.uk		
LSE		
Newcastle		
Oxford University Computing Services (Test)		
SDSS		
SDSS Nevis		

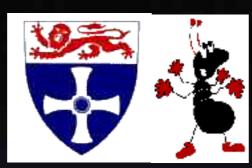
Need assistance? Visit the SDSS Federation web site.

'WAYF' Server

Example

external resource



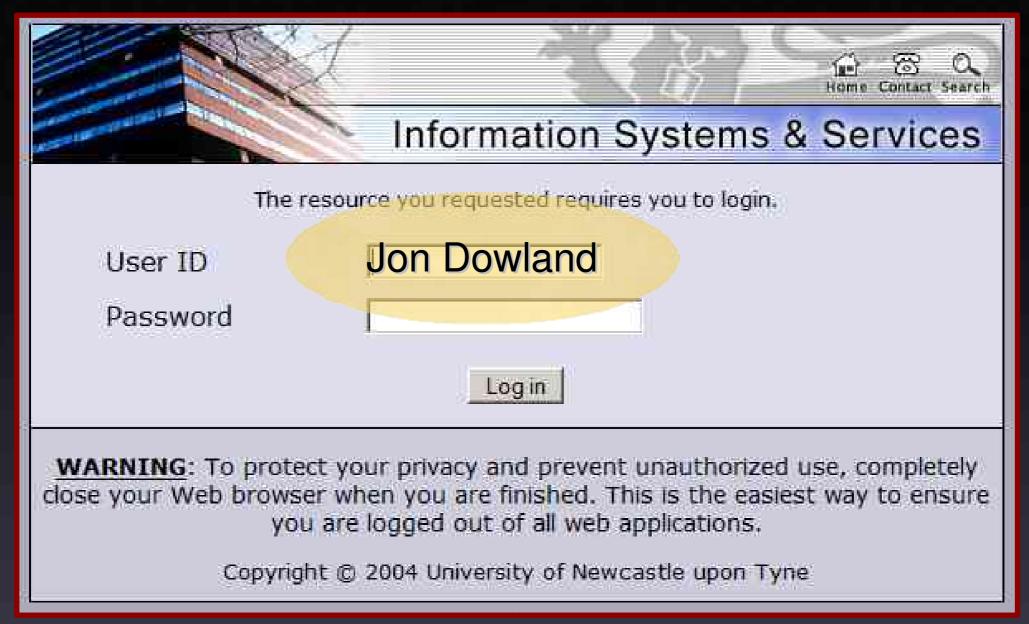


where are you from?



user selects identity provider



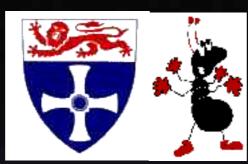


Authenticated at Newcastle (for a service at Durham)

Example

external resource





where are you from?



user selects identity provider



Authentication
(LDAP, Active Directory, etc.)

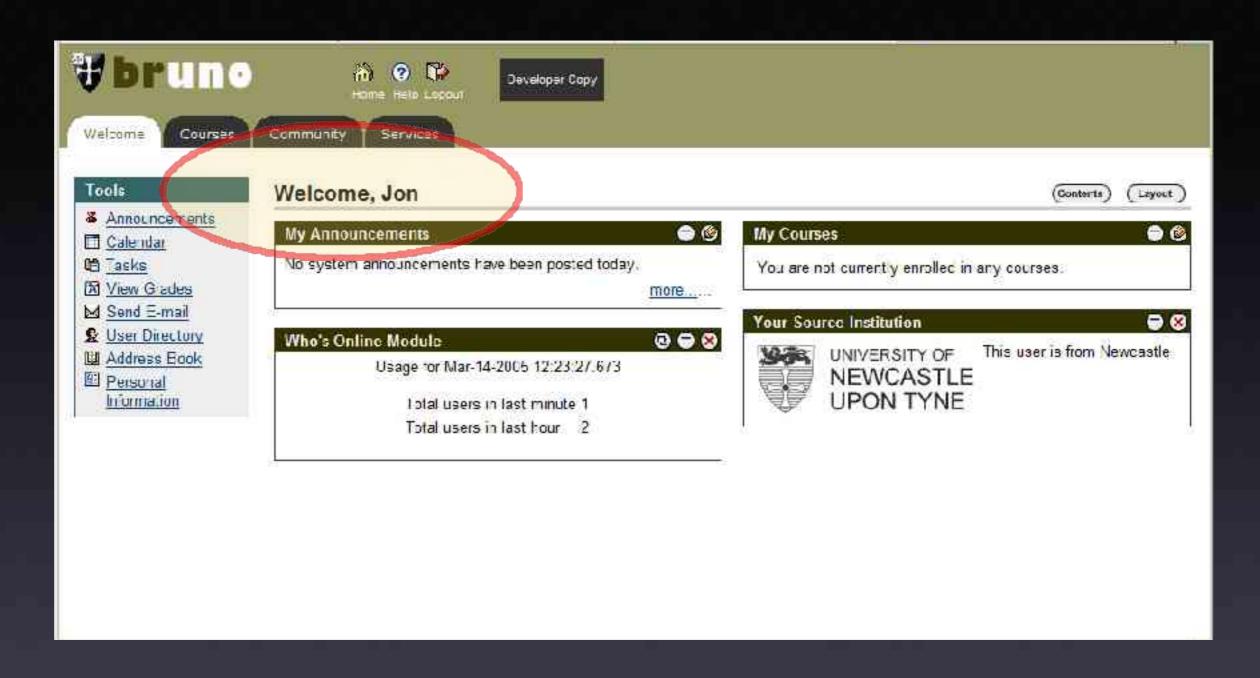
happens at Newcastle



Shibboleth Handle Request Processed

You are automatically being redirected to the requested site. If the browser appears to be hung up after 15-20 seconds, try reloading the page before contacting the technical support staff in charge of the desired resource or service you are trying to access.

Redirecting to requested site...



Success!

What happened there?

- The Newcastle user wanted to view a resource at an external site (Durham)
- The external site is using Shibboleth, and is in a Federation that Newcastle is also in
- Due to prior arrangements, Durham can trust Newcastle users at their site
- Newcastle knows who their students are
- Durham does not need to know http://iamsect.ncl.ac.uk/

Whole process eimplified

1

User accesses protected resource

2

User directed to their institution for authentication



Credentials and agreed information passed back

Rather a lot of work?

- However, user is now logged-in to other Shibboleth services serviced by the same federation
- Many of the redirects will be transparent to the user

Some definitions

- Federations are used to group together service providers and institutes who can agree to the same rules
 - more a social construct than a technical one
 - Examples: SDSS, Athens, inQueue, inCommon

Some definitions 2

Credentials and agreed information passed back

- Agreed Information = Attributes
 - descriptive information about a user
 - can technically be anything
 - likely to be heavily influenced by privacy policies

What can I do with it?

Electronic Journal Access

- Access to MetaLIB portals
- Finer-grained access & personalisation
 - e.g. just final year engineers have access
- e.g. EDINA BIOSIS e-journal service

Athens (1996)

- Admired Internationally
- Single identifier, multiple sign-on
- UK Education and Health
- Secure
- Centralised



Athens (2005)

- Migrating to Shibboleth
- Shibboleth-Athens gateway
- Middleware Assisted Take Up service (MATU)
 - for early adopters of Shibboleth

Athens Services

AMADEUS AMICO library APLI Library Proxy Axiom BANKSCOPE BIDS CAB Abstracts BIDS IBSS Service BIDS Silver Platter INSPEC service BIDS SilverPlatter PsycINFO Service BLISS **BMJ** Journals BioMed Central Blackwell-Synergy.com British Standards Online Business Ratio Reports Butterworths Accountancy Direct Butterworths All England Direct Butterworths Banking Law Direct Butterworths CaseSearch Butterworths Civil Procedure Online Butterworths Commercial Property Law Butterworths Corporate Finance Butterworths Corporate Law Direct Butterworths Crime Online Butterworths EBL Direct Essentials Butterworths EBL Direct Premium Butterworths EOR Direct Butterworths EU Direct **Butterworths Employment Online** Butterworths Family and Child Direct Butterworths Financial Regulations Servi Butterworths Forms and Precedents Direct Butterworths HSE Direct Butterworths Halsbury's Laws of . Butterworths Human Rights Direct Butterworths IRS Employment Review Butterworths Immigration and Asylum Law Butterworths Insolvency Law Direct Butterworths Intellectual Property Butterworths International Tax **Butterworths Law Direct** Butterworths Law Reports Direct Butterworths Legal Updater **Butterworths Legislation Direct Butterworths Licensing Direct** Butterworths Local Government Direct Butterworths PI Online **Butterworths Property Tax Direct**

Butterworths Scotland Direct

Butterworths Scots Law Direct

Butterworths Sergeant Sims Stamp Duty

Butterworths Stair Memorial Butterworths Stone's Justices Manual **Butterworths Tax Direct** Butterworths Tax Planning Service Butterworths Trusts and Estates Direct Butterworths UK & International GAAPplus Butterworths US Banking Editions Online CHEST Associated Site Contacts CHEST Further Education Site Contacts CHEST Higher Education Site Contacts CHEST Ireland Site Contacts CSA Aqualine CSA Artbibliographies Modern CSA Linguistics & Language Behaviour CSA e-psyche Cartalinx Census Dissemination Unit Census Geography Data Unit (UKBORDERS) Census Interaction Data Service Census Learning Resources Census Microdata Unit at the CCSR Census Registration Service Chadwyck-Healey KnowEurope Chadwyck-Healey KnowUK Database Chadwyck-Healey LION for colleges Chadwyck-Healey Literature Online Chadwyck-Healey PCI Full Text Database Childlink.co.uk City University Virtual Library Cochrane Library Computer Abstracts Creative Club CrossFire Service (PLUSABGM) CrossFire self-teach modules (MIMAS-XFT) Dialog DataStar Dialog Education@Site Dialog@Site EBSCOhost EJS EBSCOhost databases **EDINA AGDEX EDINA BIOSIS** EDINA BIOSIS Previews 1969 - 1984 EDINA CAB Abstracts EDINA Compendex **EDINA Digimap EDINA EconLit EDINA INSPEC** EDINA Index to The Times, 1790 - 1980 EDINA MLA **FDINA PAIS** EDINA UPDATE

EIU Citydata

EIU Countrydata EIU Marketindicators & Forecasts ESDS International FSDII Data ESRI NTF Converters **Education Image Gallery** Education Media OnLine Education Media OnLine medical-restrict Electronic Surgeons in Training Educatio Emerald Fulltext Emerald Management Reviews Encyclopaedia Britannica Engineering Village 2 Extenza e-Publishing Service FAME Gale Group InfoTrac ISI JCR Science Edition ISI JCR Social Sciences Edition ISI Web of Knowledge Ingenta Full Text Journals Ingenta Select
Int. Civil Engineering Abstracts Irish Reports and Digest Isle of Man GIS data JASPER JUSTIS Celex and OJC JUSTIS Daily Cases
JUSTIS ECJ Proceedings JUSTIS Family Law JUSTIS Hermes JUSTIS Human Rights JUSTIS Industrial Cases JUSTIS Law Reports (eLR) JUSTIS Law Reports Digest JUSTIS Lloyd's Law Reports JUSTIS Mental Health Law Reports JUSTIS Official Journal C JUSTIS Prison Law Reports JUSTIS UK Statutes and SIs JUSTIS Weekly Law Jobs admin stuff Keynote KumarandClark.com LexisNexis MD Consult METAPRESS MIMAS ISI BIOSIS Previews MIMAS ISI Chemistry Server MIMAS ISI Current Contents Connect MIMAS ISI Derwent Innovations Index MIMAS Infoterra

MIMAS Landmap Mediterranean MIRA Virtual Automotive Info Centre Martindale & Stockleys Drug Interactions Mintel Reports Mulberry NeLH Evidence-Based on Call NeLH Journal of Medical Screening NetLibrary NewsBank InfoWeb OCLC FirstSearch Service OSIRIS Ovid Online Oxford English Dictionary Online Oxford Reference Online Papyrus software for DOS Papyrus software for the Mac Parlianet Perfect Analysis Primal Pictures Basic Anatomy (NHS) Primal Pictures anatomy.tv ProQuest ProQuest Reference Asia RCS Affiliates Area RCS Discussion Fora RCS Library Electronic Journals RCS Members Area RefWorks Reuters Business Insight Unlimited SCOTBIS: Members Area ScienceDirect Sentient DISCOVER SilverPlatter Arc2 Snapshots International: Market Research Statistical Accounts of Scotland Synsoft HYDRA and HYDRA ONLINE TRII T Taylor and Francis eBook Subscriptions Technical Indexes Info4Educatio Technical Indexes Info4HealthEstates The Academic Library UK JSTOR Mirror Service WILSONWEB Westlaw UK Wilev InterScience WriteNote ZETOC - BL Electronic Table of Contents eSTEP administrators resource images.MD

How does it help me?

Username management

- Should be greatly reduced
 - should be done by institutional IT services
- Access to wider variety of resources
 - Athens are 'Shibboleth-enabling' services, using their gateway
 - JISC doing same thing with EDINA,
 MIMAS and other services

What happens next?

Shibboleth Futures

- Shibboleth is a disruptive technology
- Authentication, privacy barrier removed
- Online "reputation based" systems could kill journals?
- Services bought in from outside e.g. webmail for students
- Niche services flourish

Summary

- Shibboleth will help service providers and service users
- Lots of momentum
- Standards-based, open
- eduserv (Athens) and JISC committed to process

Recap...

- What is it?
- What can I do with it?
- How does it help me?
- What happens next?
 - What do I need to do?...

Shopping List

- WebISO service (single sign on)
 - preferably institutional
- Identify Attributes
 - easy ones; affiliation, course,
 - where to find these attributes?
 - hard ones; EduPerson principle name