

# Shibboleth and the **iamsect** Project

## Introduction





# Overview

Morning session:

History of access control

Current solutions

Problems with current solutions:

- For users
- For administrators

The solution: Shibboleth

Where the IAMSECT project fits

How to prepare for shibboleth

Afternoon session: Guest speakers



# History

Access control to library resources

The pros and cons of each era

- The paper era
- The rise of electronic media
- The rise on online systems

Focus on access control, user experience  
and administrator experience.



# Early days of journal provision

The era of Paper on shelves

No real access control

Librarian and user face to face

Sensitive material behind the desk

e.g. Derbyshire put “The Sun” behind the desk, videos in the Walton library

Logistical Problems:

- Need physical copy, generally shared
- User need to journey to library to get access
- Library has to maintain journals
- No real usage stats



# The start of electronic journals

Journals kept as locally held databases or cd-roms  
No real access control

Again logistically difficult

- Need physical copy or dedicated machine
- User need to journey to library to get access
- Library has to maintain cd roms and database
- No real usage stats



# Online journals

Available since 1996

Mainly lists of article titles and abstracts  
some full text

Lessens need for inventory

Largely reliant on service providers for stats

User does not need to be present, may need  
to be on campus



# Early online access control

IP address checking

Useful, easy to do, but crude

Authenticates machines not people

Unhelpful when the users population is mobile (EZproxy can help...a bit)

Discipline of abuse can damage innocents



# electronic access control

Individual usernames and passwords  
.htaccess, individual databases

Good fine grained control

- each user has own username and password.

Burden on the user is high

Burden on administrators is high

Doesn't scale well:

- easy for 20 users
- nightmare for 1000

Insecure



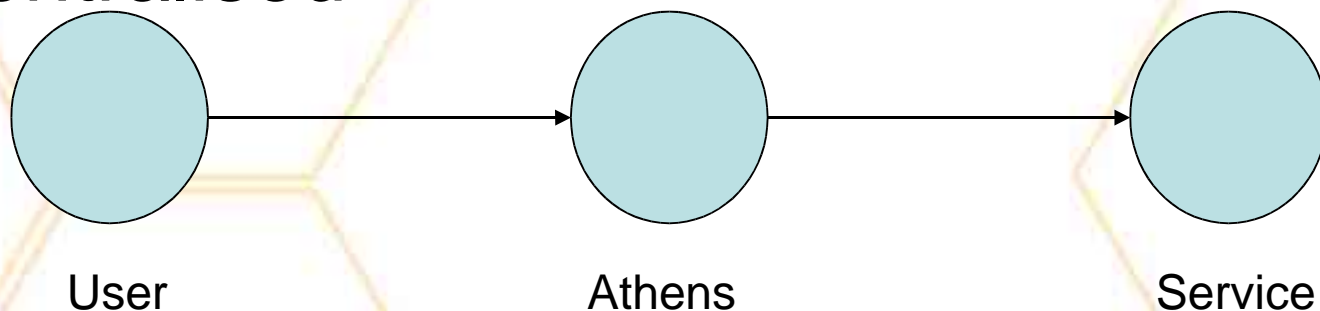


# Current Solutions



# Athens (1996)

- Admired internationally, best of breed
- Single ID, multiple sign-on
- UK education and health
- Secure
- centralised





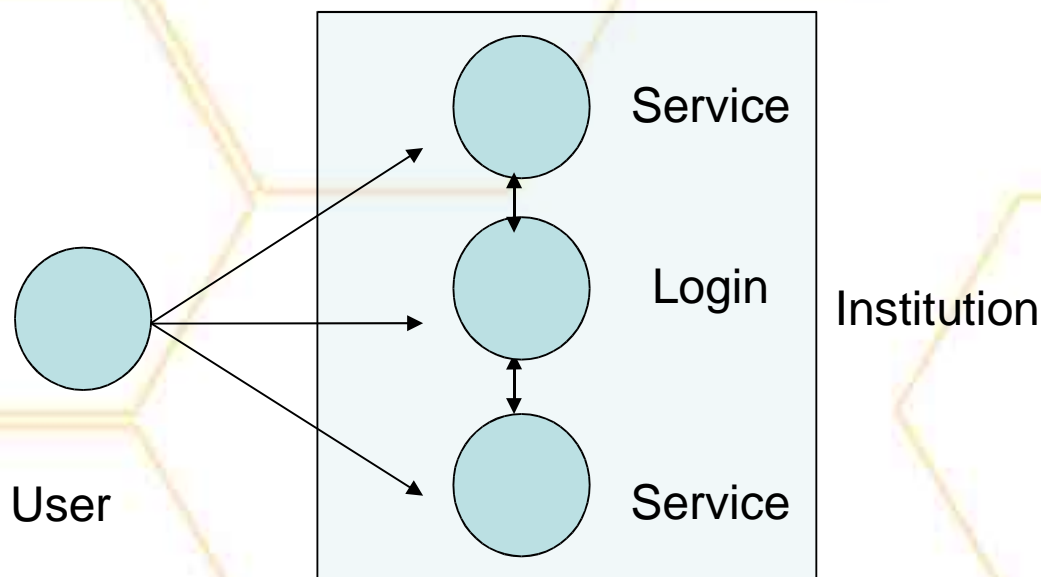
# Single Sign-On

- User convenience: login once per session
- Authentication managed behind the scenes



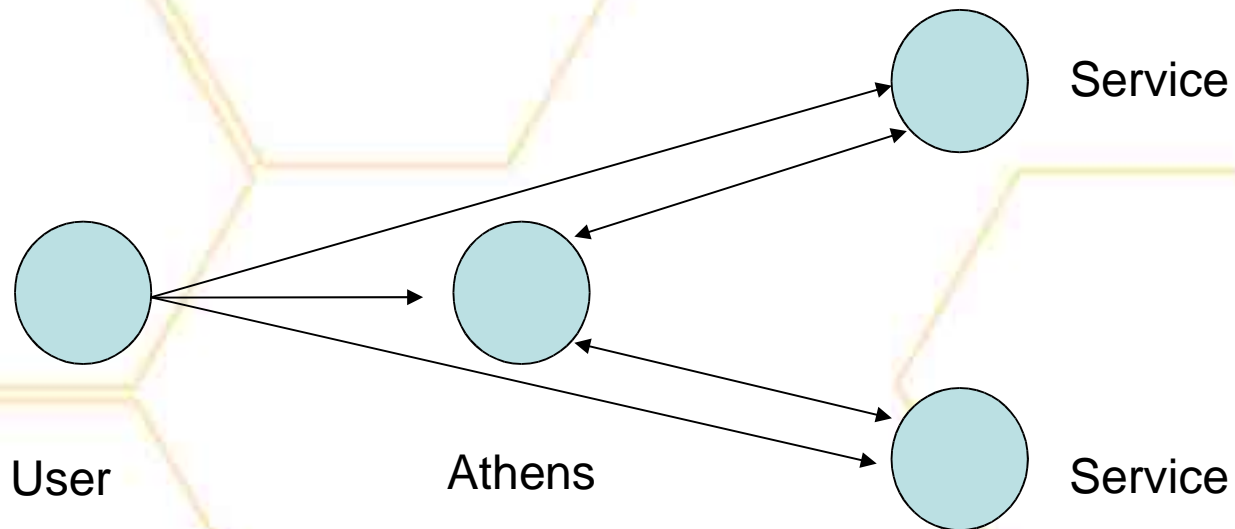
# Single Sign-On

- E.g.
  - Pubcookie
  - Yale central authentication service
- (Shibboleth builds on these)



# AthensSSO (Feb 2002)

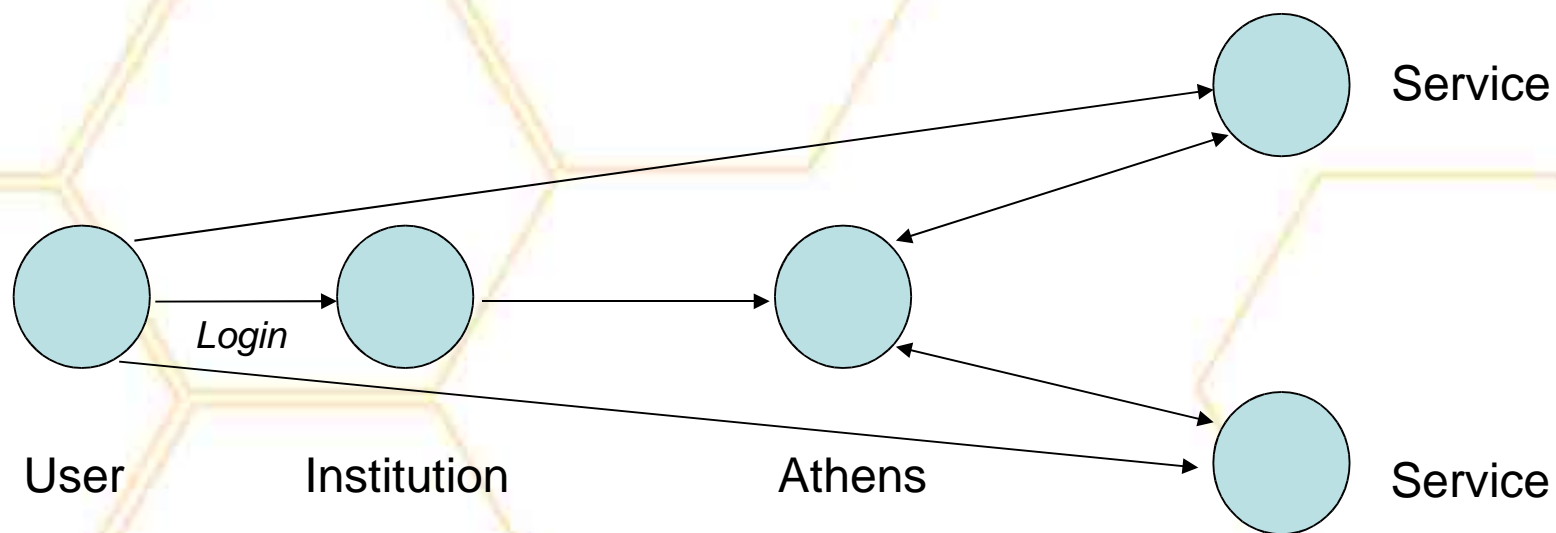
- Athens, +
- Single sign-on

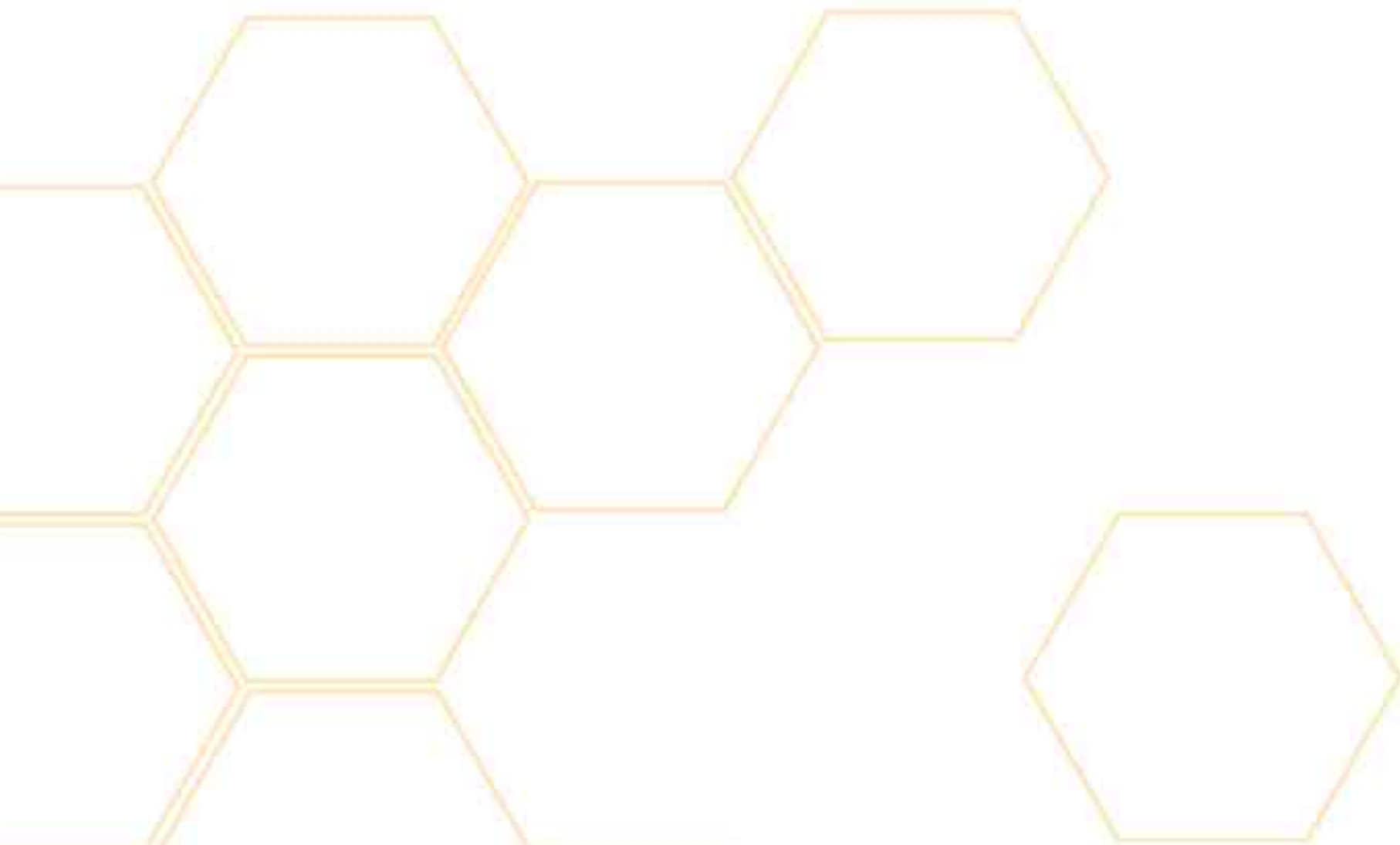


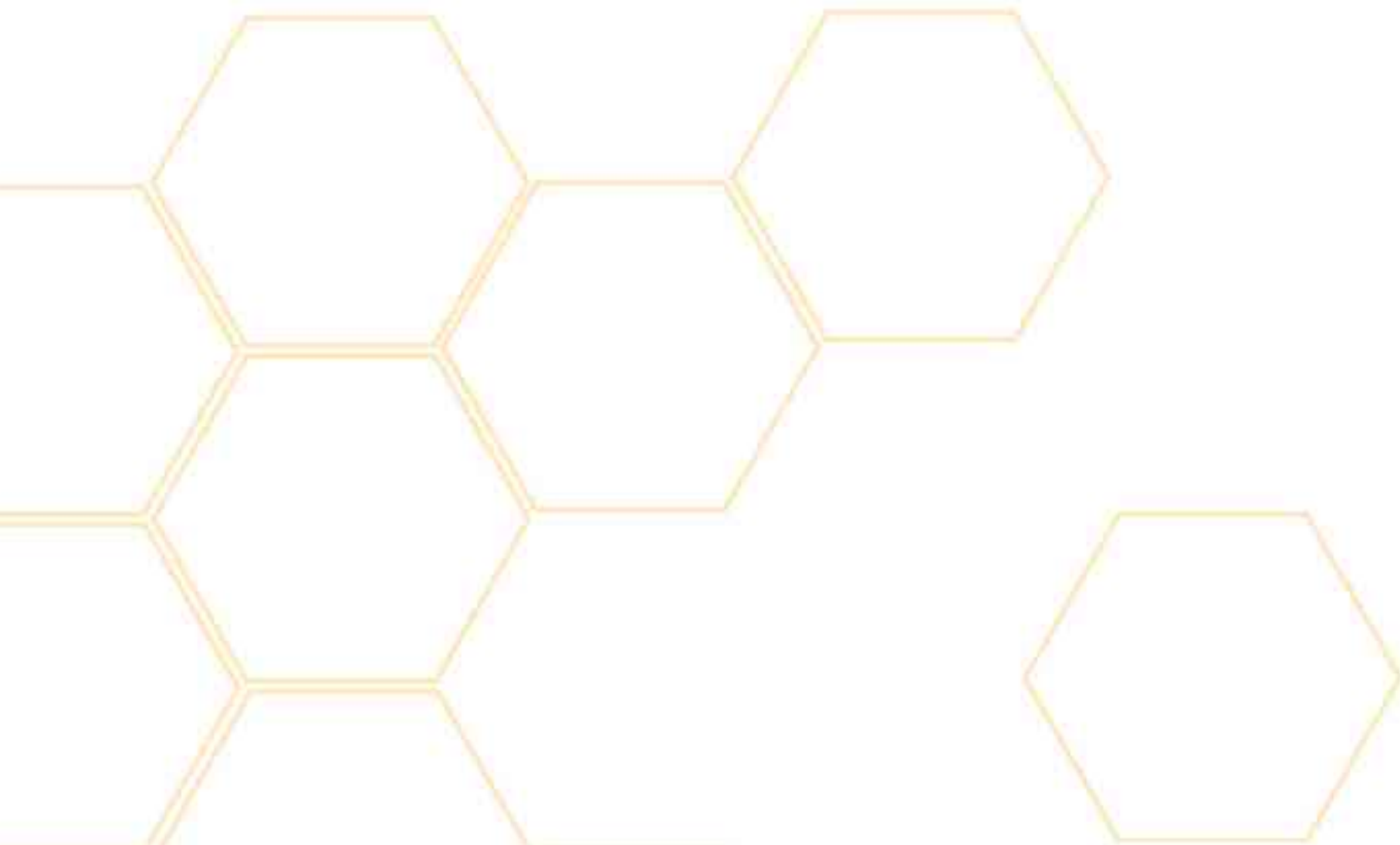


# Athens D.A. (Oct 2002)

- AthensSSO, +
- devolved (locally managed) authentication











# The concepts of access control

The difference between authentication and authorisation

Physical access control

Virtual access control

User experience

Administrator experience



# Authentication and Authorisation

## **Authentication**

Identifies who you are

## **Authorisation**

Once who you are is known, identifies what you are allowed to do.

Historically have been treated as the same the thing



# Authentication/Authorisation Examples

**Keys** identify you and authorise you at the same time.....tied to the bearer

**Passport** identifies you, passport control authorises you.

**Computer login** identifies you, permissions in system authorise you



# Different authentication methods

## Physical tokens:

- Keys
- Cards (swipe, chip 'n' pin, etc.)

## Virtual tokens

- Pin numbers
- Username/passwords



# Personal example

17 physical authentication tokens:





## Personal example (part 2)

- 10 pin numbers (bank, phone services)
- 3 personal computer passwords
- 6 server passwords
- 8 serious internet site passwords
- Too many non serious passwords to count.....mostly duplicates of each other

Probably in excess of 50 passwords!



# Users: coping mechanisms

No coping mechanism for physical authentication.....

Virtual tokens:

- Common passwords
- Simple passwords
- Personal-information
- Management tools
  - Browser-saved passwords



# Examples of common passwords

12345

abc123

password

passwd

123456

newpass

Notused

god

Hockey

internet

Maddock

12345678

newuser

computer

Internet

beer





Enter registered user details below

Email Address:

Password:

It doesn't matter if you use capital letters or not.

▶ Log in to your account

Forgotten password



Heavily used

Change password





# Administering a password system

Easy to setup, the pain comes later once people use it:

## Technical pain

- Securing the system
- Backing up the system
- Clustering the system
- Administering the system



## Administrative pain

- Adding new users
- Expiring old users
- Changing passwords
- Distributing passwords
- Ensuring “proper” passwords used

# Real world example





# Real World example





# Real World example





# Summary

- User are overloaded with authentication tokens already
- There is explosive growth in the use of username and passwords
- Administering usernames and passwords is painful and expensive.



# Break for coffee

Coffee being served outside

Back in 15 mins

On return Jon will talk about shibboleth



The background of the slide features a pattern of yellow hexagons of varying sizes, some of which are outlined in red. The word "Shibboleth" is centered in the middle of the slide.

Shibboleth



# What you need to know about shibboleth

- How it works
- What attributes are
- How federations work
- Your Identity stays at home
- Privacy sensitive by default



# The core concepts of shib

- 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



## Core concepts of shib (technical)

- User redirected to home to authenticate and redirected back once authenticated.
- Authorisation is based on attribute description of a user sent between the two servers in the background
- Federations are used to group together service providers and institutes who can agree to the same rules



# Demonstration (theoretical)

- At present, theoretical
- Durham Blackboard (Service Provider)
- Newcastle login (Identity Provider)



# Demonstration





# User attempts to access Service



<http://bruno.dur.ac.uk/>

**bruno**

Welcome to Bruno IAMSECT Project Info

**Links**

**duo**

You are looking at Bruno - one of the University of Durham's Blackboard® servers. Blackboard is the software which Durham uses to deliver the University's e-Learning environment. Bruno is a development point on such access is restricted and there's not much for guests to see. If you are interested in Durham's use of Blackboard, try the production server duo - Durham University Online.

**Welcome to Bruno**

**Login Here**

When an account's first login information has been set, the Login button below:

JUL ID/NAME:

PASSWORD:

Log In

**Acceptable Usage**

Please note that by using this service, you are agreeing to the University of Durham's Regulations for the use of IT Facilities

**Who's Online Module**

Usage for May 13 2006 17:52:51.575

Total Users in last minute: 1

**Weather across Campus**

**Durham**

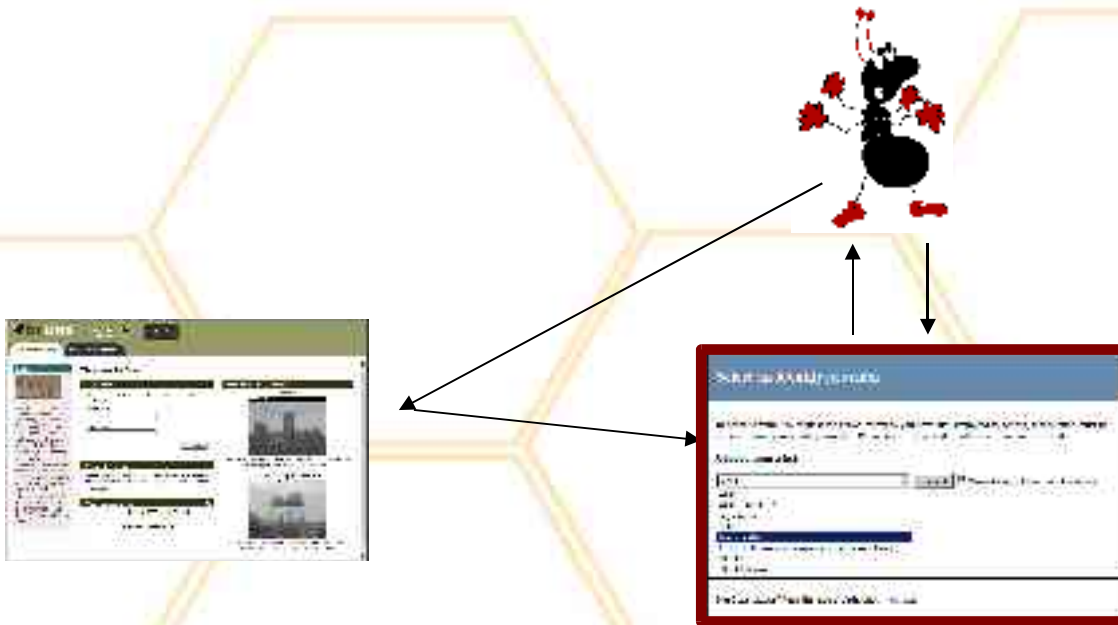
Live image of Durham Cathedral from the Physics Aerial Webcam. The day's weather forecast for Durham from the JCU.

**Queen's Campus, Stockton**

Live image of the Transponder Bridge from the JCU Live Webcam. The day's weather forecast for Stockton from the JCU.



# User redirected to 'WAYF'





<https://wayf.sdss.ac.uk/shibboleth-wayf/...>

### Select an identity provider

In order to fulfil 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

AMIE

AMIE\_AUTHZ

cy.org.uk

LSE

Newcastle

Oxford University Computing Services (Test)

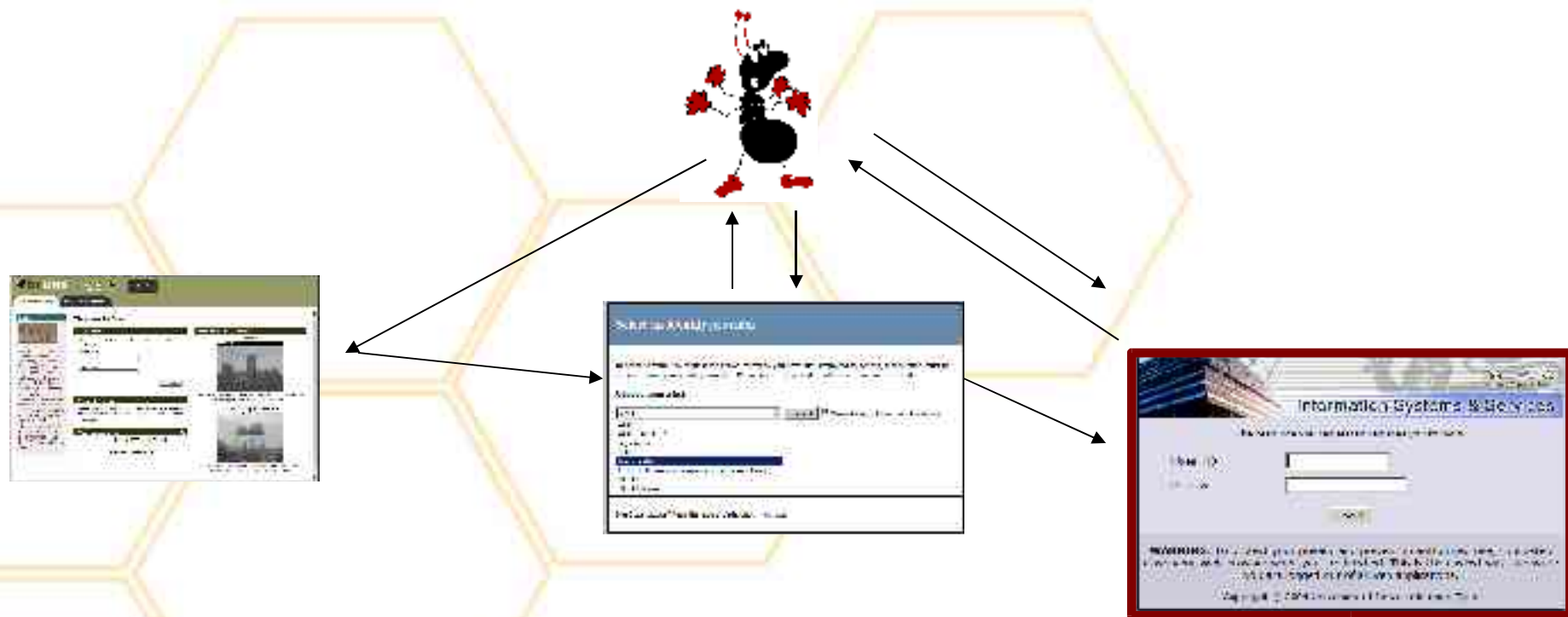
SDSS

SDSS Nevis

Select☒ Remember my selection on this computer.

Need assistance? Visit the [SDSS Federation web site](#)

# User selects their Identity Provider





<https://weblogin.ncl.ac.uk/cgi-bin/index.cgi>

Home Contact Search

## Information Systems & Services

The resource you requested requires you to login.

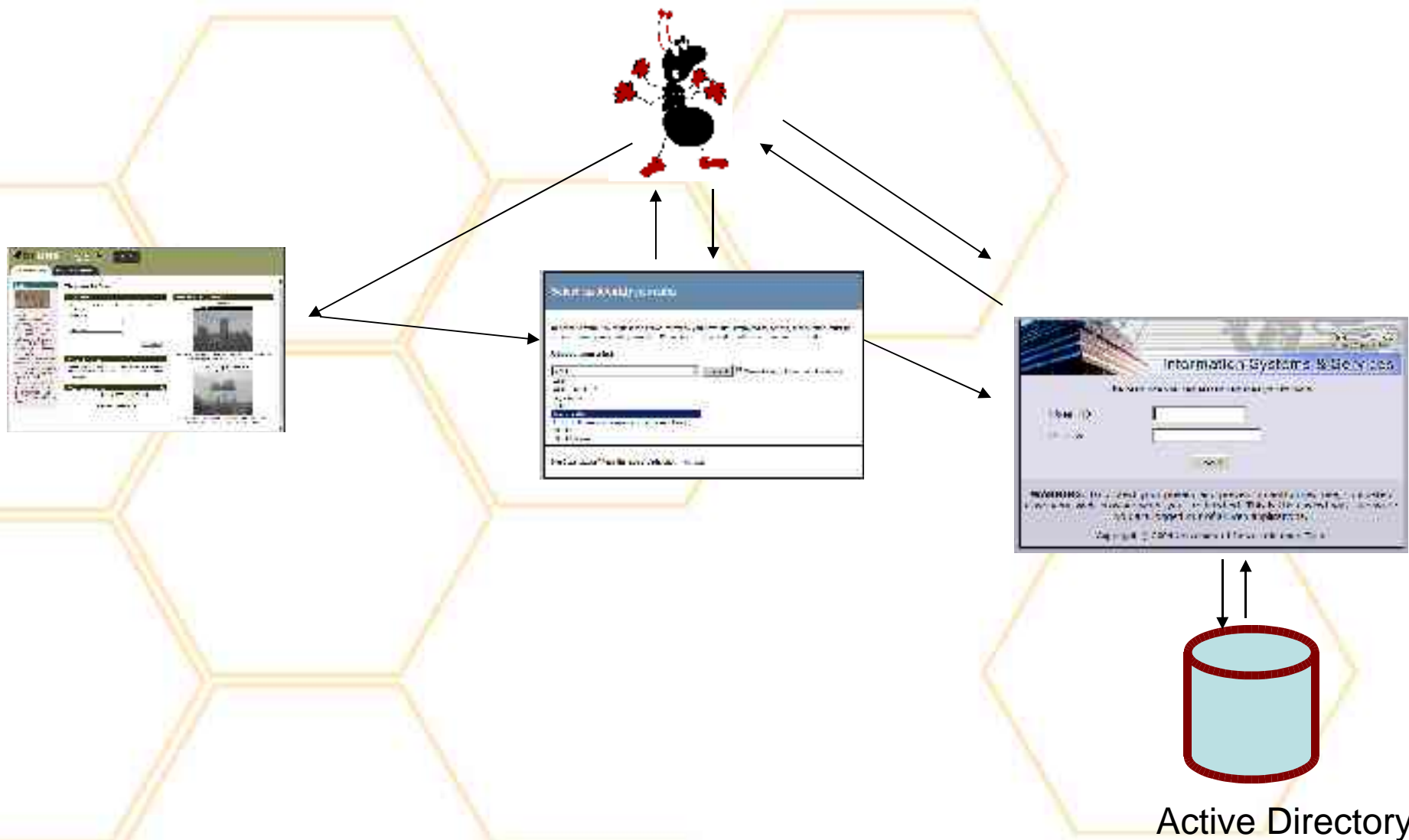
User ID

Password

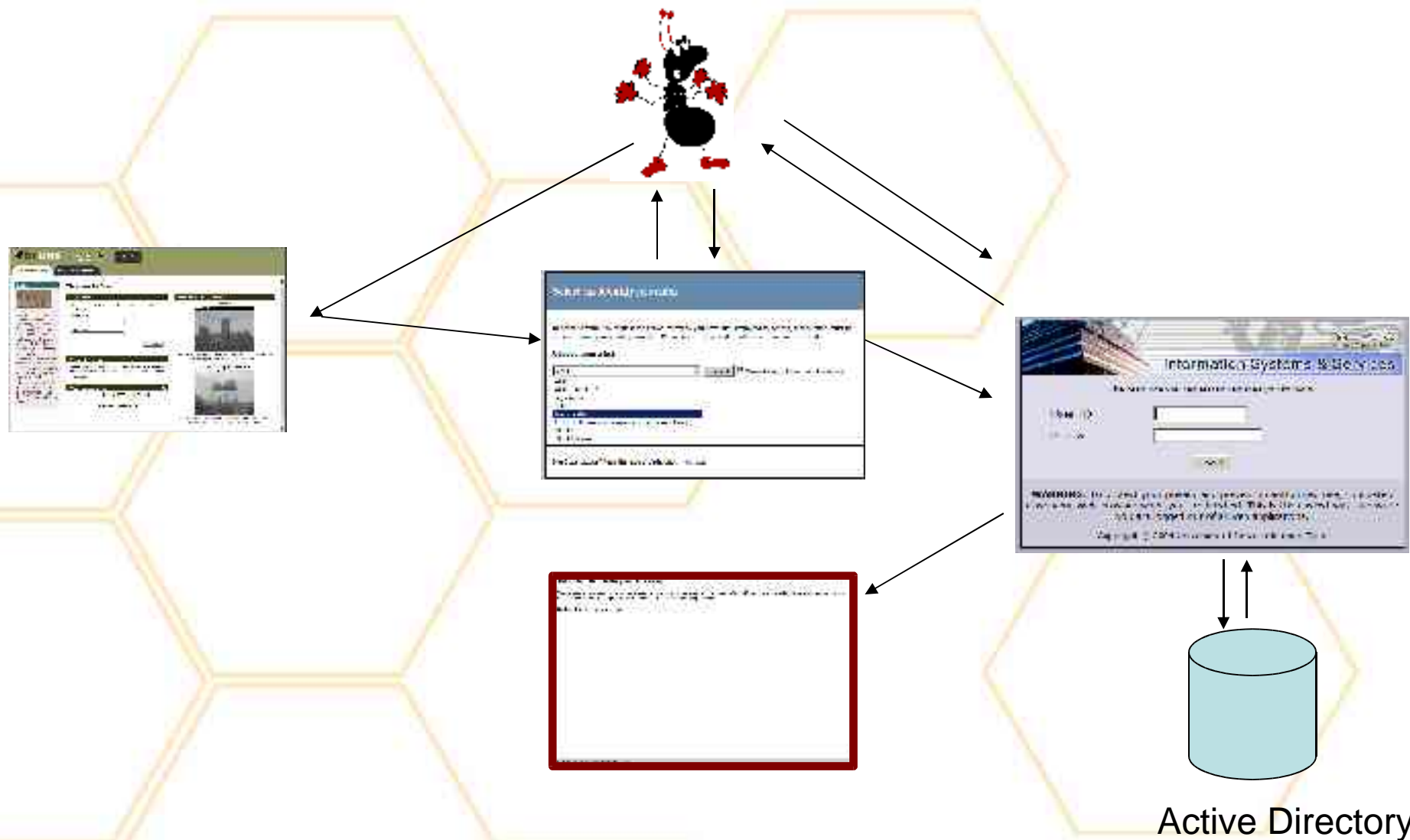
**WARNING:** To protect your privacy and prevent unauthorized use, completely close your Web browser when you are finished. This is the easiest way to ensure you are logged out of all web applications.

Copyright © 2004 University of Newcastle upon Tyne

# IdP authenticates User



# User redirected back to Service



Active Directory



<https://shib.ncl.ac.uk/shibboleth/HS?...>

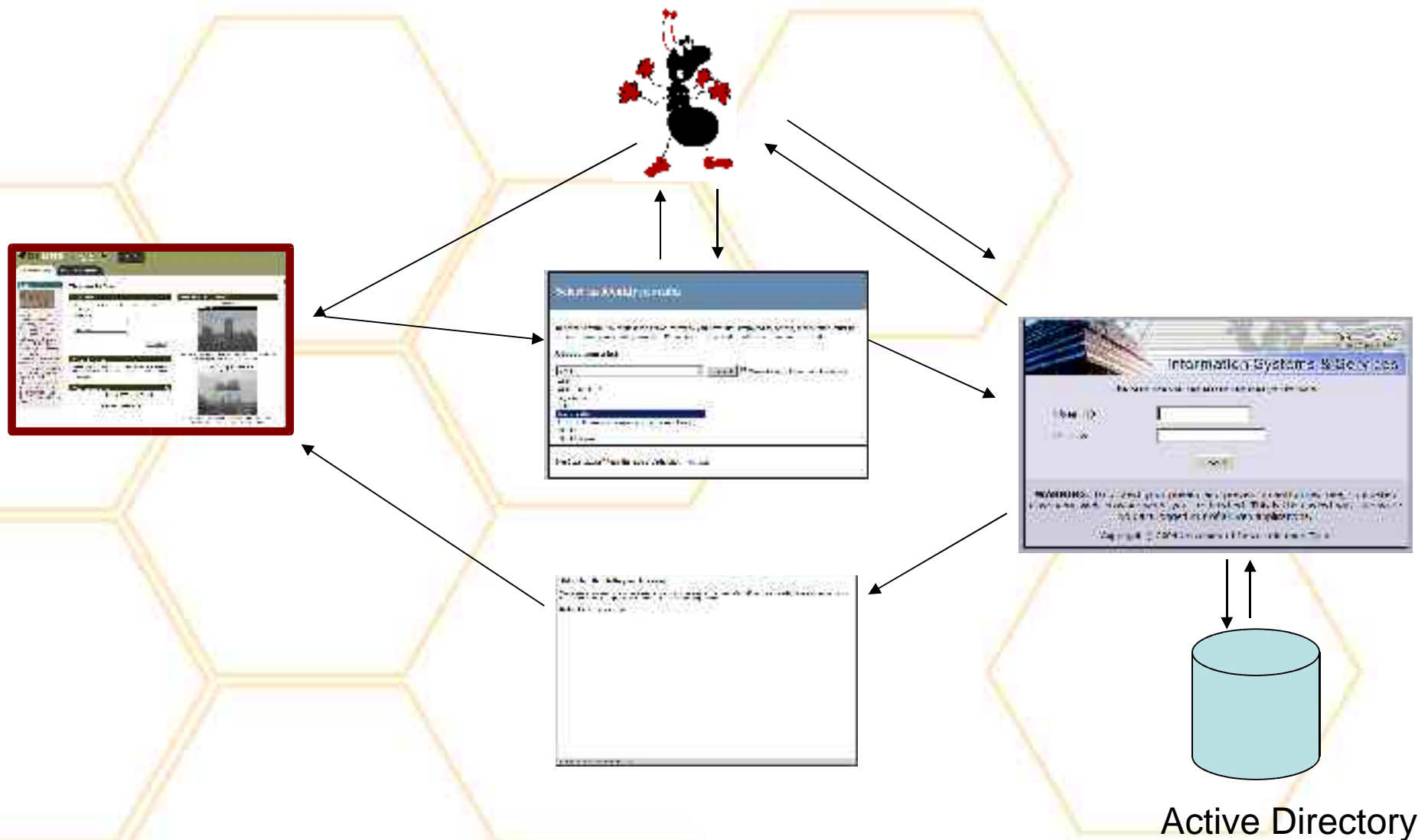
## Shibboleth Handle Request Processed

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...**



# User accesses Service







<http://bruno.dur.ac.uk/>

**bruno** Home Help Logout Developer Copy

Welcome Courses Community Services

**Tools**

- Announcements
- Calendar
- Tasks
- View Grades
- Send Email
- User Directory
- Address Book
- Personal Information

**Welcome, Jon** Contents Layout

**My Announcements**

No system announcements have been posted today.

[more.....](#)

**Who's Online Module**

Usage for Mar-14-2005 12:21:27 GMT

Total users in last minute 1

Total users in last hour 2

**My Courses**

You are not currently enrolled in any courses

**Your Source Institution**

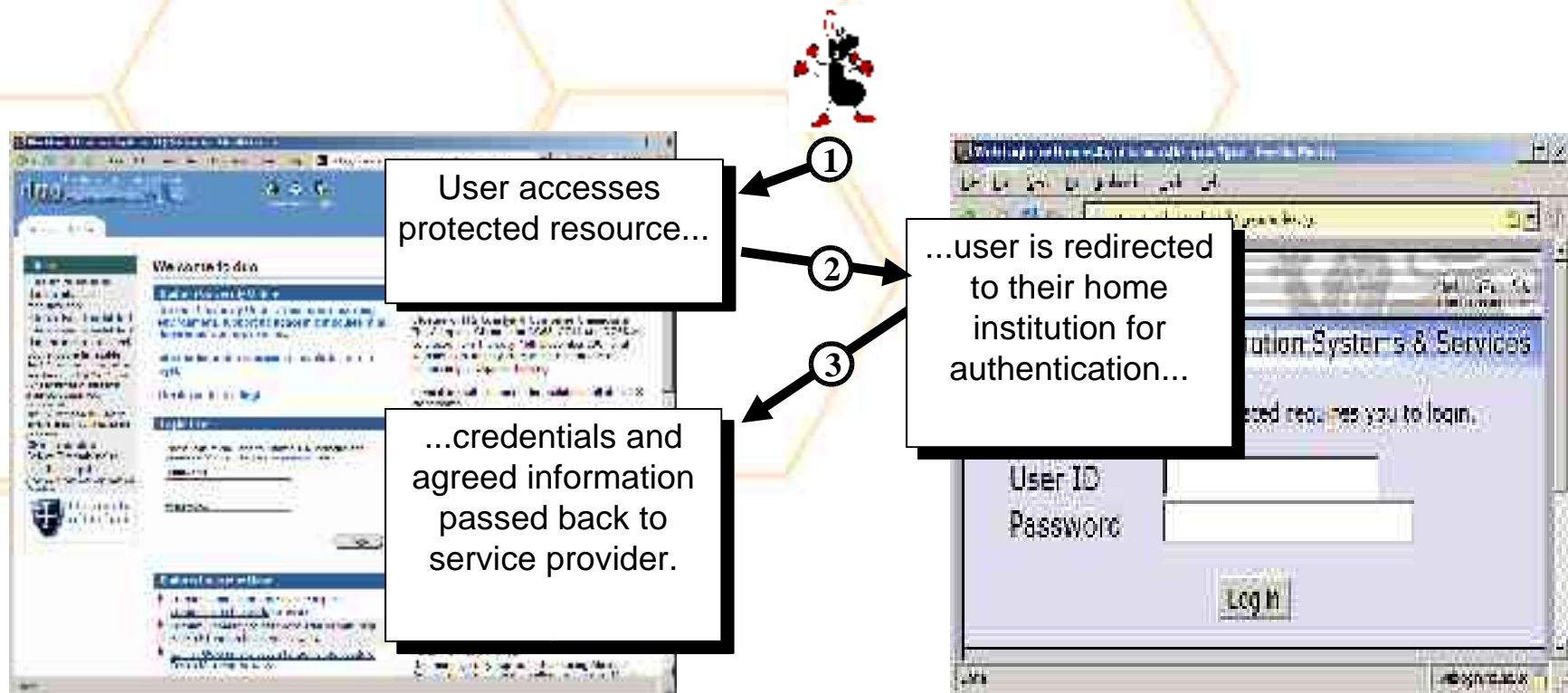
 UNIVERSITY OF NEWCASTLE UPON TYNE This user is from Newcastle



# Demonstration (live)

- EDINA BIOSIS e-journal Service
- SDSS federation WAYF
- Newcastle Identity Provider

# Shibboleth Process Simplified





# Federations

- “Let us work together for unity and love.”

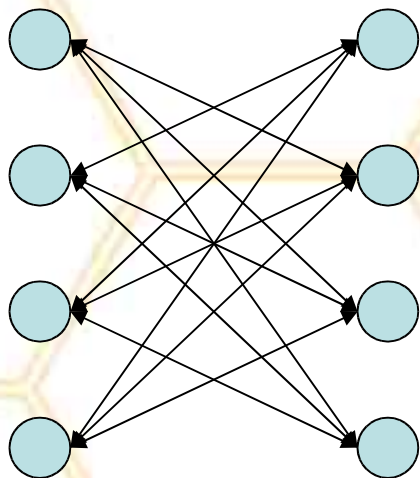
*Mahatma Ghandi*



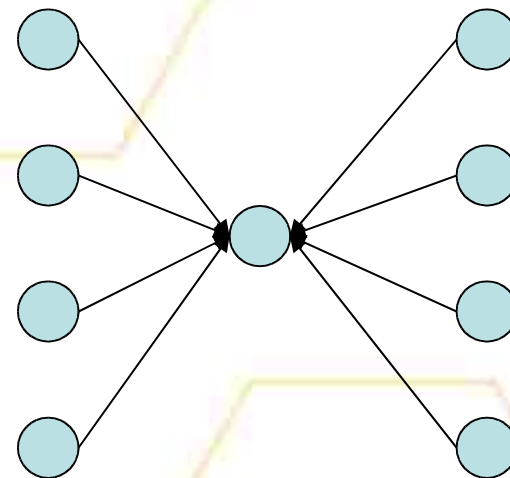
# Federations

- Simplify the number of relationships
- Mutual policies
- Maintain WAYF server
- Technical requirements
  - Attribute standards
  - Certificate standards

# Simplified relationships



24 relationships



8 relationships



# Federation Defined

- A grouping of identity providers and service providers following defined rules.
- More a social construct than a technical one.
- Components:
  - Participant agreement → trust others
  - Federation signup → data format agreement
  - Probable WAYF service....can be anywhere





# Where are you from?

- Analogous to Athens DA Home Domain Discovery (HDD)
- Remember this relationship







# Mutual Policies

- Federation membership may dictate abiding by a set of mutually agreed policies
- A common Certificate Authority (CA) for security



# Example Federations

- InQueue
- InCommon
- Athens
- SDSS

# SDSS Federation technical requirements

- Use Eduperson attributes:  
eduPersonScopedAffiliation: *required*  
eduPersonTargetedID: *optional*  
eduPersonEntitlement: *contemplated*
- Use Globalsign as a certificate provider  
moving away from this, they will be trailing  
Thawte with newcastle.



# SDSS Federation Policy V1.0

- All members of the federation must:
  - Observe best practice in the handling and use of your digital certificates and private keys
- All identity providers (origins) must:
  - Make reasonable attempts to ensure that only members of your institution are provided with credentials permitting authentication to your handle server, and that the assertions made to service providers by your attribute authority are correct.
- All service providers (targets) must:
  - Agree not to aggregate, or disclose to other parties, attributes supplied by identity providers.



# Attribute Standards

- A common scheme for the exchange of attributes between service and identity providers



## *Baseline Rules*

- Newcastle in the SDSS federation
- Newcastle currently BIOSIS subscriber but not UPDATE subscriber
- Can access BIOSIS via Shib, but not UPDATE



# Attributes

- Descriptive information about a user
- Can technically be any descriptive text  
e.g. has green eyes



## How to identify useful attributes (theory)

- the attributes that are required by the web application;
- your institutes privacy policy;
- which attributes you can collect in a timely and scalable manner;





# Identifying attribute (reality)

- Type and format will be decided by the federation you join
- Different Federations still likely to use the same standards
- You are not limited by federation, it is just there for convenience



# Attribute identification (detail)

Current attribute use is limited to a dull but useful core

One major attribute standard in real use at present: EduPerson

One currently used attribute:  
edupersonScopedAffiliation



# eduPersonScopedAffiliation

- MACE-Dir eduPerson attribute
- Example: member@ed.ac.uk
- Gives subject's relationship to an institute
- At present can be one of:  
member, student, employee, faculty, staff,  
alum, affiliate.
- Many resources licensed on these terms
- “member” is all providers want to know for now



# Attribute identification (detail)

Several more contemplated:

- eduPersonPrincipalName
- eduPersonTargetedID
- Given name
- Surname
- Common name
- eduPersonEntitlement



# eduPersonEntitlement

- MACE-Dir eduPerson attribute
- Examples:
  - urn:mace:ac.uk:sdss.ac.uk:entitlement:*resource*
  - <http://provider.co.uk/resource/contract.html>
- states user's entitlement to a particular resource
- Service provider must trust identity provider to issue entitlement
- Good fine grained fall-back approach.



# eduPersonTargetedID

- MACE-Dir eduPerson attribute  
Example: sObw8cK@ncl.ac.uk
- A persistent user pseudonym, specific to a given service, intended to enable personal customisation
- Value is an uninformative but constant
- Allows personalisation and saved state without compromising privacy...much
- Issues about stored vs. generated forms



# Attributes for the future

- Attributes are flexible so can be anything requires
- E.g. user on campus, “kiosk” walk in user, alumni.

Flip chart discussion



## What is happening with shib now

Americans moving forward:

- Shibboleth being actively deployed
- 120 members with a test registration
- 13 Members already in their service federation (\$700 upfront \$1000 per year)

Uk moving forward:

JISC £7m core middleware fund...more later

Athens infrastructure turbo charges UK shib



# Athens services



ADITUS  
 AMADEUS  
 AMICO library  
 APU 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 Businesscompliance.direct.co  
 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 PensionsPro  
 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 Internet Database Service  
 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  
 EDINA PAIS  
 EDINA UPDATE  
 EEBO  
 EIU Citydata

EIU Countrydata  
 EIU Marketindicators & Forecasts  
 ESDS International  
 ESDU Data  
 ESRI NTF Converters  
 Education Image Gallery  
 Education Media OnLine  
 Education Media OnLine medical-restrict  
 Electronic Surveys 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  
 Idrisi  
 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  
 JustCite  
 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

MIMAS Landmap Mediterranean  
 MIMAS LitLink  
 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  
 SCRAN Web Site  
 ScienceDirect  
 Sentient DISCOVER  
 SilverPlatter Arc2  
 Snapshots International: Market Research  
 Statistical Accounts of Scotland  
 SwetsWise  
 Synsoft HYDRA and HYDRA ONLINE  
 TRILT  
 Taylor and Francis eBook Subscriptions  
 Technical Indexes Info4Education  
 Technical Indexes Info4HealthEstates  
 The Academic Library  
 The Times Law Reports  
 UK JSTOR Mirror Service  
 WILSONWEB  
 Westlaw UK  
 Wiley InterScience  
 WriteNote  
 XpertHR  
 ZETOC - BL Electronic Table of Contents  
 eSTEP administrators resource  
 images.MD  
 xreferplus



# What is happening with shib now

Europeans:

2. Swiss switch project
3. Finns, Danes, Norwegians moving
4. Spanish, Germans seem keen

Australia:

Backing shibboleth after pilot studies



## What is happening with shib now

Blackboard and WebCt actively integrating into their offerings

Elsevier deploying service

JSTOR service deployed

Athens integration

Anecdotal evidence that journal providers are very keen.



# The future of shib

- Shibboleth is a disruptive technology  
Authentication, privacy barrier removed
- Online “reputation based” systems kill journals
  - Services bought in from outside e.g. webmail for students
  - Niche services flourish
  - Desktop applications e.g. Lionshare



- “**I**nter-institutional **A**uthorisation  
**M**anagement to **S**upport **e**Learning with  
reference to **C**linical **T**eaching”
- JISC funded
  - Core Middleware Strand



**iamsect**

<http://iamsect.ncl.ac.uk/>



# Inter-institutional

- Collaboration
  - Durham
  - Newcastle
    - Web team
    - Faculty of Medical Sciences
  - Northumbria



## Other relationships

- SDSS
  - core middleware
  - EDINA
- SAPIR
  - early adopters
  - Newcastle University Library
- EPICS
  - regional e-learning
  - 5 Universities inc. us, 2 FE colleges





# Authorisation, Clinical Teaching

- a proverbial goldmine of privacy and confidentiality issues
- Involvement of Newcastle FMSC

# Authorisation, Clinical Teaching

- Shared students

**Medicine and Surgery** | [UCAS Course A106](#) (5 years)

[Course Profile](#) | [Careers](#) | [Entrance Requirements](#)

**Course outline:** Applicants for this course can choose to spend the first two years either at the University of Newcastle upon Tyne or the Queen's Campus at [Stockton, University of Durham](#). (Please read carefully the UCAS admissions procedure in the Fact File when completing your UCAS form.)

**Course content:** The course is split into two Phases. Phase 1, whether taken in Newcastle or [Queen's Campus, Stockton](#), extends over two academic years (Stages 1 and 2) and emphasizes the integrated nature of medical training. Whilst there may be certain differences of emphasis between the course at Queen's Campus, Stockton and Newcastle, the two separate Phase 1 pathways share common outcomes, with the quality of teaching being excellent at both institutions. Following completion of Phase 1, all students are integrated into a single common pathway for the three years of Phase 2 training.

## What can this course offer me?

- What is medicine?
- Can I spend time on an elective?
- Why choose Newcastle?
- What skills will I develop?
- What other similar courses are there?



# Authorisation, Clinical Teaching

- In-house medical-oriented virtual learning environment (VLE)



# What we've done (1)

- Technical-oriented guides
  - Local SSO (pubcookie)
  - Shibboleth Origin



# Guide to installing pubcookie

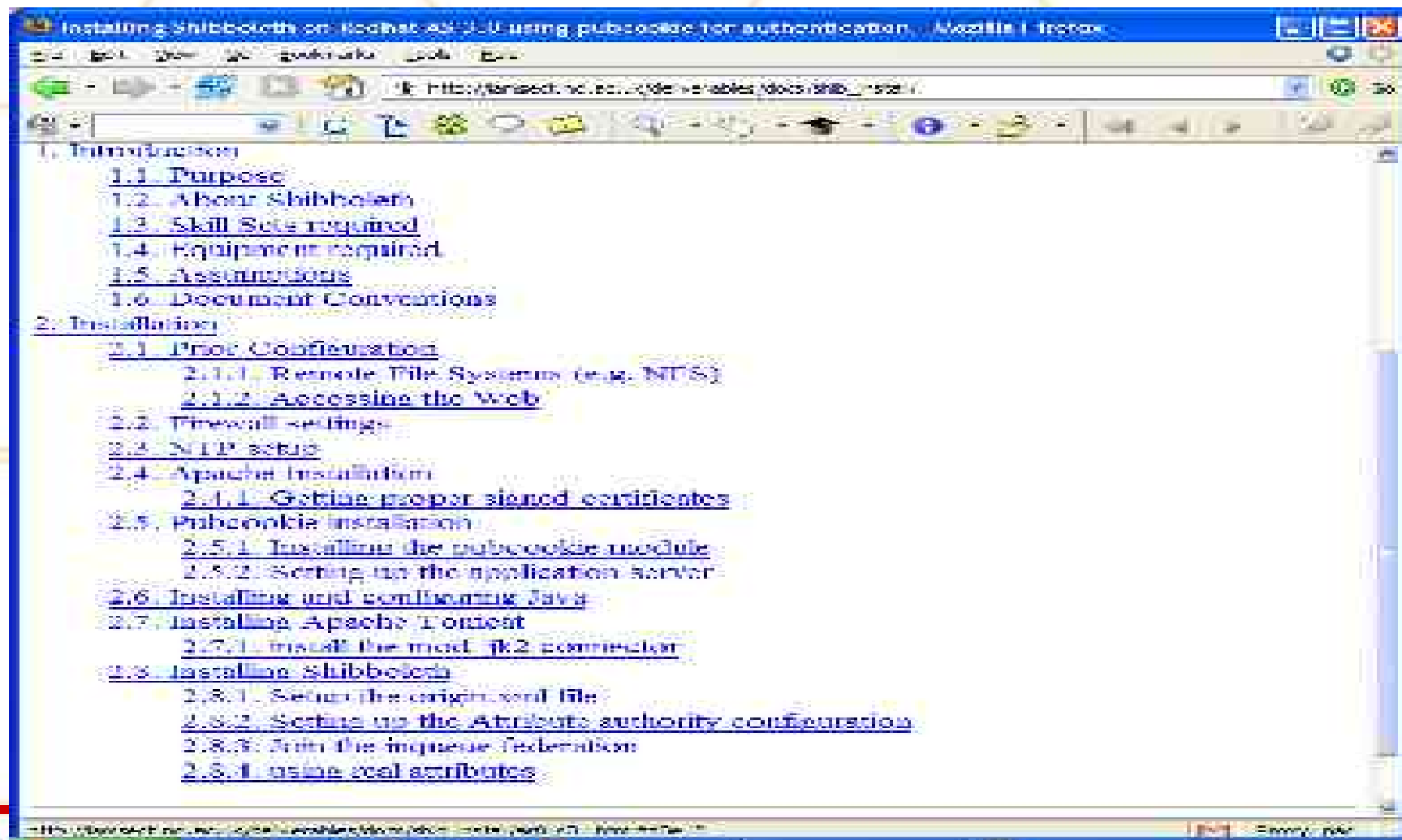
**Installing Pubcookie on Redhat AS 3.0 and authenticating against Windows Active Directory**

**Table of Contents:**

- 1. Introduction:**
  - [1.1. Purpose](#)
  - [1.2. About pubcookie](#)
  - [1.3. Still Sels required](#)
  - [1.4. Equipment required](#)
  - [1.5. Assumptions](#)
  - [1.6. Document Conventions](#)
- 2. Installation:**
  - [2.1. Pre-Configuration](#)
    - [2.1.1. Remote File Systems \(e.g., NFS\)](#)
    - [2.1.2. Accessing the Web](#)
  - [2.2. Firewall settings](#)
  - [2.3. NTP setup](#)
  - [2.4. Apache Installation](#)
    - [2.4.1. Getting proper signed certificates](#)
  - [2.5. Choose an Authentication flavour](#)
    - [2.5.1. LDAP Authentication flavour](#)
    - [2.5.2. Kerberos authentication flavour](#)
  - [2.6. Pubcookie installation](#)



# Guide to installing shibboleth





# The guides

Written for redhat AS 3.0 linux:

- most popular
- will be supported for next 5 years
- Mostly applicable to other linux systems
- Cheap (\$60 per year...educational)

Content:

- Includes installation of all the required technologies for a shibboleth deployment
- Aimed solely at system administrators!



# The guides

- Developed collaboratively
  - Written by Newcastle
  - Tested and proof-read by Durham
- Creative Commons
- In the process of hiring a technical author





# Creative Commons


**creative commons**  
 COMMONS DEED

**Attribution 2.0**

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
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# Future guides

How to identify attributes attribute stores

- Which attributes are useful
- Identifying stores
- Pros and con of store types

A managerial guide to getting shib:

- what skill set you need in your team
- Privacy data protection issues
- Certificate provider issues
- Negotiating in a federation



# The theory of our guides

- Endorsed by link from pubcookie site
- Possibly rolled into whatever the American's come up documentation wise for shib 1.3
- Looking for comments/feed back



## What we've done (2)

- Shibboleth origin installation
- Shibboleth federation testing (SDSS)
- Glossary
- Questionnaire



<http://iamsect.ncl.ac.uk/glossary/>

# iamsect

## Glossary of Terms

Welcome to the IAMSECT glossary. This is designed to help people understand the terminology associated with Shibboleth, related technologies and the IAMSECT project.

You may also find the following glossaries useful: [ECLIServ](#), [InCommon](#).



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**A**

### Active Directory

Microsoft's directory service product for storing user identity information, attributes and access policy. Active Directory is built into the Windows Server 2003 and the Windows 2000 Server operating systems.

### Assertion



# Questionnaire

- Determine 'baseline' opinions
- <http://iamsect.ncl.ac.uk/questionnaire/>



# Questionnaire





# A thought







# What we're doing

- Zope-based VLE
- Blackboard VLE
- Managerial documentation
- Further events



# How to prepare for shibboleth

Read the guides at:

<http://shibboleth.internet2.edu/shibboleth-doc>

Beware they are not user friendly

Mix managerial concerns with technical concerns



# How to prepare for shibboleth

Identify the following skill sets

Ability to:

Install secure ssl apache web servers

Install apache tomcat

Some familiarity with java

Familiarity with unix/linux

Technical staff to read the guides at

<http://iamsect.ncl.ac.uk/deliverables/>



# How to prepare for shibboleth

Technical needs:

Identify password store or stores (how a federation can help)

Get a web sign on system (helped by our docs)

Identify attributes

Establish a certificate provider (Globalsign)



# How to prepare for shibboleth

Identify federations you would like to join  
Athens gateway  
SDSS, EDINA federation

Establish a certificate provider (Globalsign)  
<http://www.ja.net/CERT/certificates/>