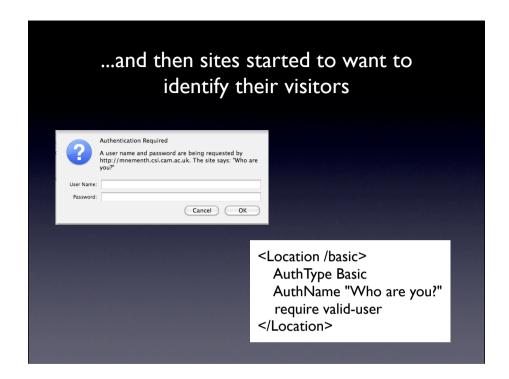


"Shibboleth, as a way to authenticate people to web sites, has been around in the UK for several years and yet many people don't know what it really does and some people still haven't heard of it. This session will take a quick look at the web authentication landscape, briefly consider what Shibboleth is and how it fits into this landscape, and take a look at what it has, is, and perhaps one day might be used for within the University of Cambridge."

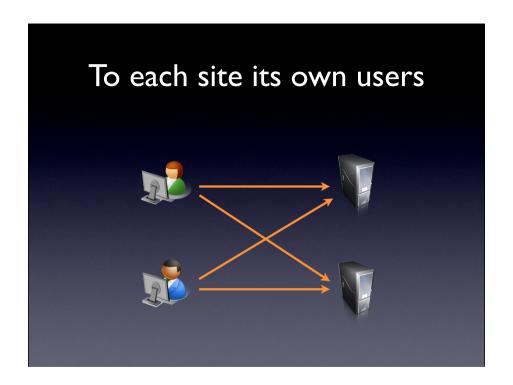


Once upon a time there was the web...and it was free and open and everyone was happy (and probably wore sandals and had beards).

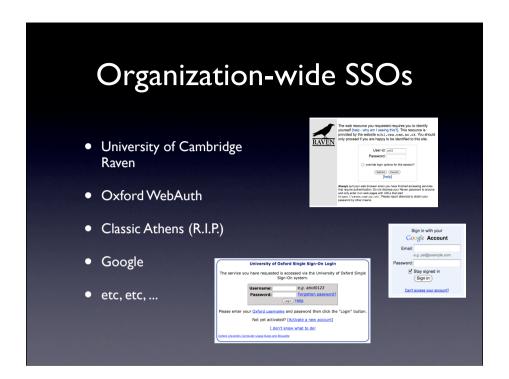


Obviously there are lots of good reasons for doing this:

- Making money
- Keeping things secret
- Providing personalisaion
  The joys of HTTP basic auth.

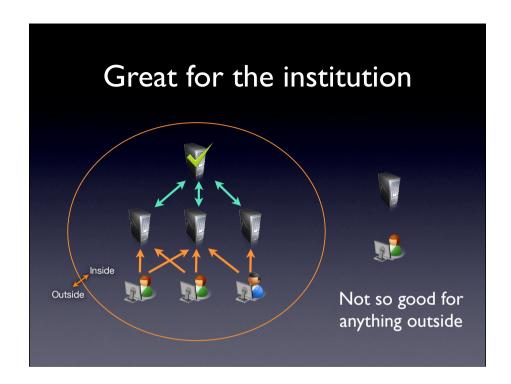


But you are heading for a n-squared problem - password hell for users and administrators.



So to address that, organizations all move to some sort of central authentication, probably doing some sort of SSO while you are at it.

Note that most of these leverage HTTP redirects so that passwords are only ever given to one recognizable service. This is at least a reasonable way to use passwords, despite the fact that PASSWORDS DON'T WORK, but that's another story.



In this and subsequent slides, the orange line represents your institution's 'organizational' boundary

All this works quite well for people and servers within the organization, but isn't so good for people outside, nor for external servers. And note that people on the inside may not really notice this...

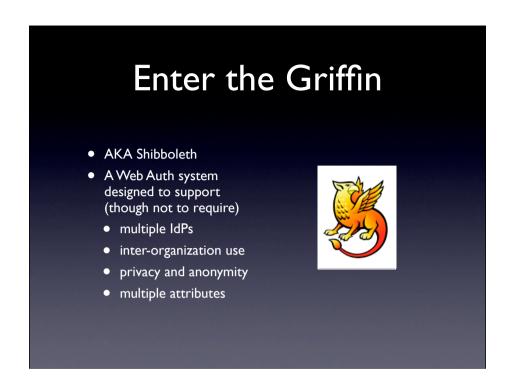
Note the assumption about one IdP.



Once you start dealing with things outside the institution border you rapidly run into two big problems.

EU data protection legislation, and so our DPA, makes transferring 'personal' data somewhere between hard and impossible. Interesting in an education context the US have it if anything worse then we do (even though in all other contexts privacy may be non-existent).

The other problem is one of establishing trust. How can an external site know to trust you (and remember they will be dealing with us



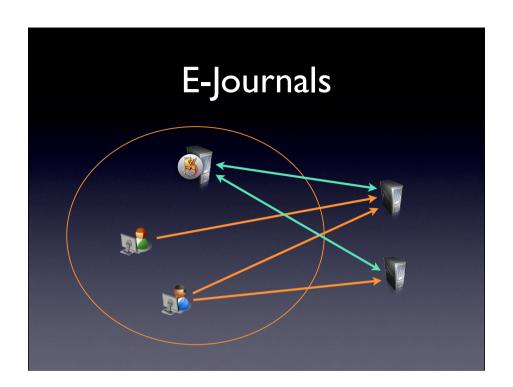
A possible solution is Shib. Not quite clear what Shib is – potentially a protocol (though less so now with the move to SAML2), a reference implementation written by Internet2, or an architecture and policy framework.

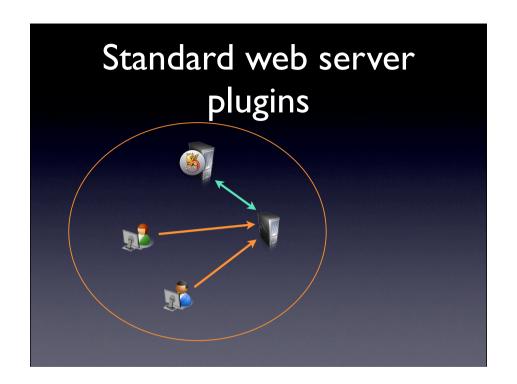
Emerging chicken-and-egg situation - is Shib based on SAML, or SAML based on Shib?



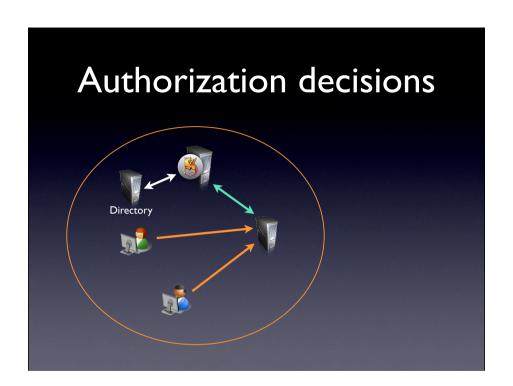
- •E-Journals an early use case, and the one widely deployed in the UK
- •The e-journals case tends to take advantage of the anonymity features, but you don't have to
- •The reference implementation is by Internet2, but other implementations are springing up. The move to SAML2 in Shib2 opens up increased posibilities for interworkong with generic SAML S/W
- •Shib 1 invented some new protocols and flows to support SP-first authentication. Everything that Shib needs is now part of SAML2
- •It's not that hard. Really.

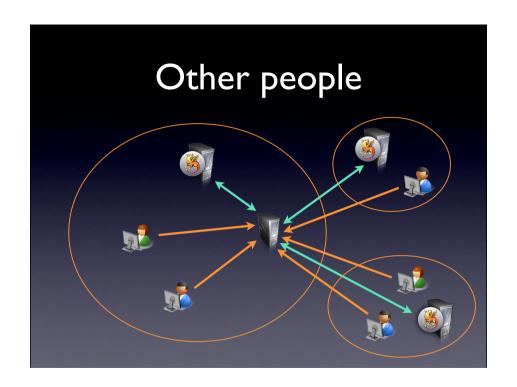
So, what can we do with it?



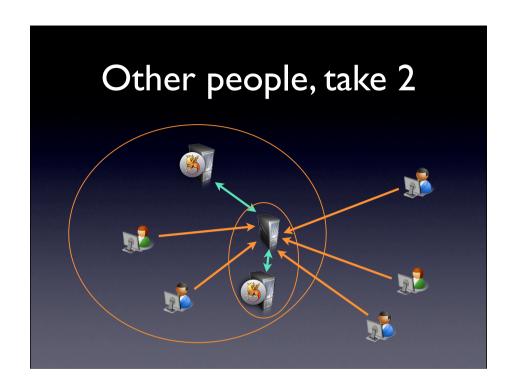


e.g. UofC have discontinued our Ucam WebAuth IIS plugin

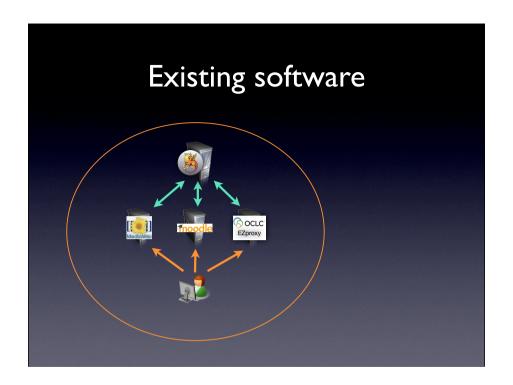




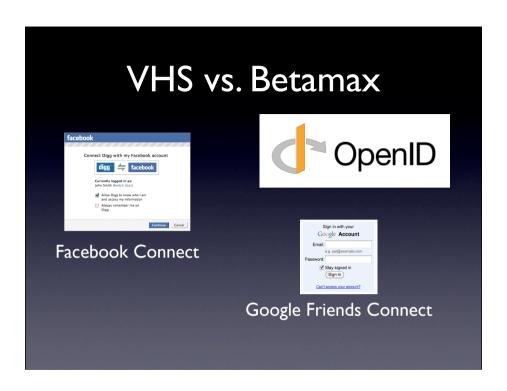
No man institution is an island



Anyone can run their own idP



This slide is almost with out doubt out of date



## Thanks for listening...

- There may be questions...
- ...including perhaps 'Why "Shibboleth?"





"On the Internet, nobody knows you are a dog...

...but sites often want to know that you are the same dog as last time"





## Credits

- 'In the Field', Julian Wearne, <a href="http://www.flickr.com/photos/ikaink/4184787380">http://www.flickr.com/photos/ikaink/4184787380</a>
- Mosaic screen shot courtesy of NCSA/University of Illinois <a href="http://www.ncsa.illinois.edu/News/Images/">http://www.ncsa.illinois.edu/News/Images/</a>
- two elephants, Timo Heuer, <a href="http://www.flickr.com/photos/upim/293676365/">http://www.flickr.com/photos/upim/293676365/</a>
- Fire Breathing Mythical Dragon, Wili Hybird, <a href="http://www.flickr.com/photos/walkadog/3484426248/">http://www.flickr.com/photos/walkadog/3484426248/</a>
- "On the Internet", by Peter Steiner, page 61 of July 5, 1993 issue of <u>The New Yorker</u>, (Vol.69 (LXIX) no. 20). Reproduced only for academic discussion, evaluation, and research.
- "Same dog as before": "<u>Tofu, online trust, and spiritual wisdom</u>" from the Pushing Strings" blog by Eve Maler.