

The State of the Raven

Jon Warbrick

University of Cambridge Computing Service

jw35@cam.ac.uk

The State of the Raven



Corvus corax



Raven Web Authentication

2002

A little history

December 2002: the CS's SMT approve a proposal for a "Central, password-based web authentication service"



Oct

Nov

Dec

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2003

August 2003:
“A central web authentication system” announced”

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

First talk to
Webmasters

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2004

January 2004:
Initial implementation
reported to be working

September 2004:
Raven service
launched

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

“Raven Web
Authentication”
talk to Webmasters

“The Raven Web
Authentication
Service”
talk to Techlinks

“info.raven.
current.status”
talk to
Webmasters

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2005

October 2005:
CamSIS exam entries, and
CamCORS adopt Raven
authentication

Jan

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Dec

2006

Jan

Feb

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2007

January 2007:
Plans for a Shibboleth
service announced

October 2007:
Shibboleth IdP
service launched; no
new Athens accounts

Jan

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Nov

Dec

“Introducing
Shibboleth”
talk to Techlinks

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2008

July 2008:
UK central funding for
Athens service stops

October 2008:
Raven defaults to
authenticating
without asking

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

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2009

March 2009:
Support for Shib SPs
in the University

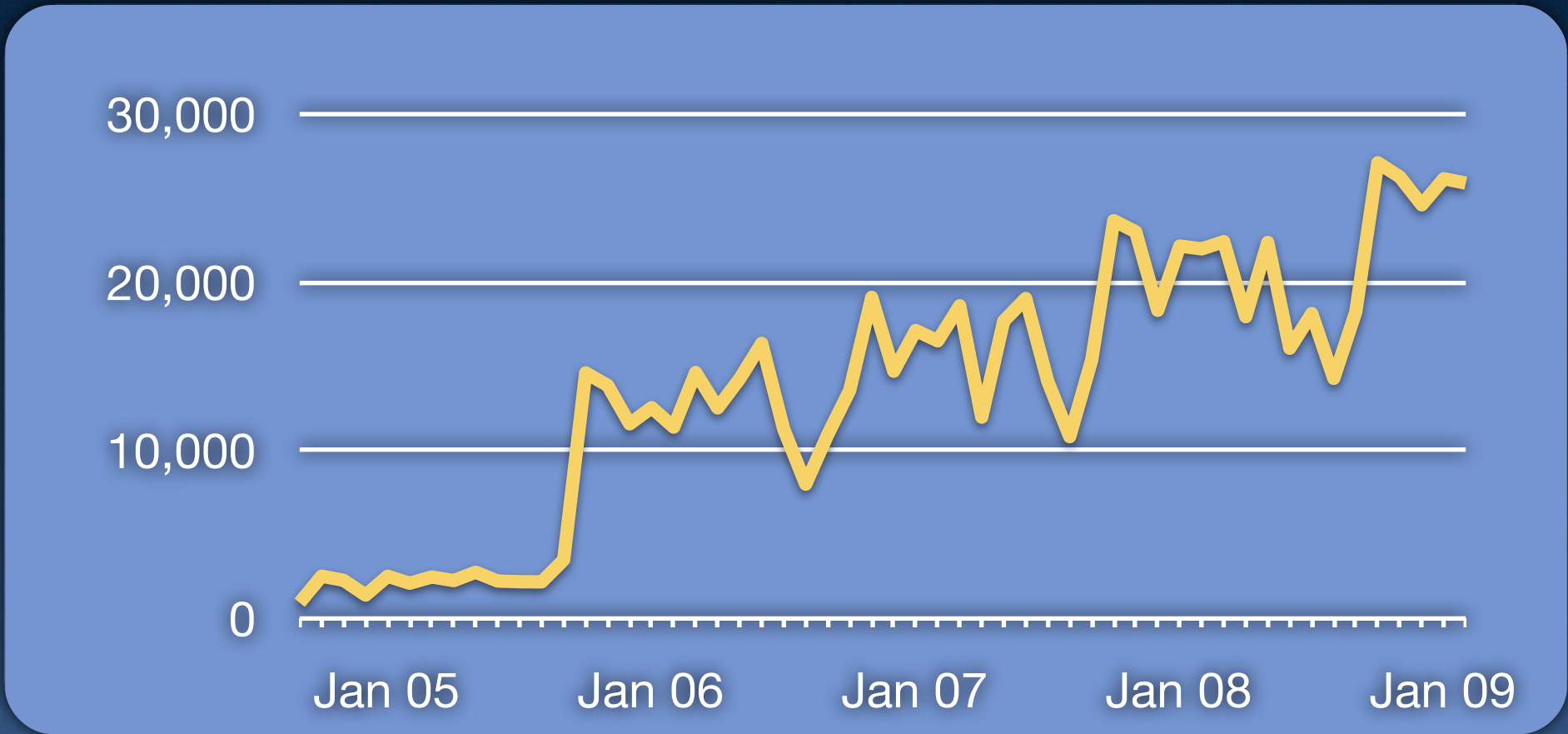
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

**YOU ARE
HERE!!**

The future

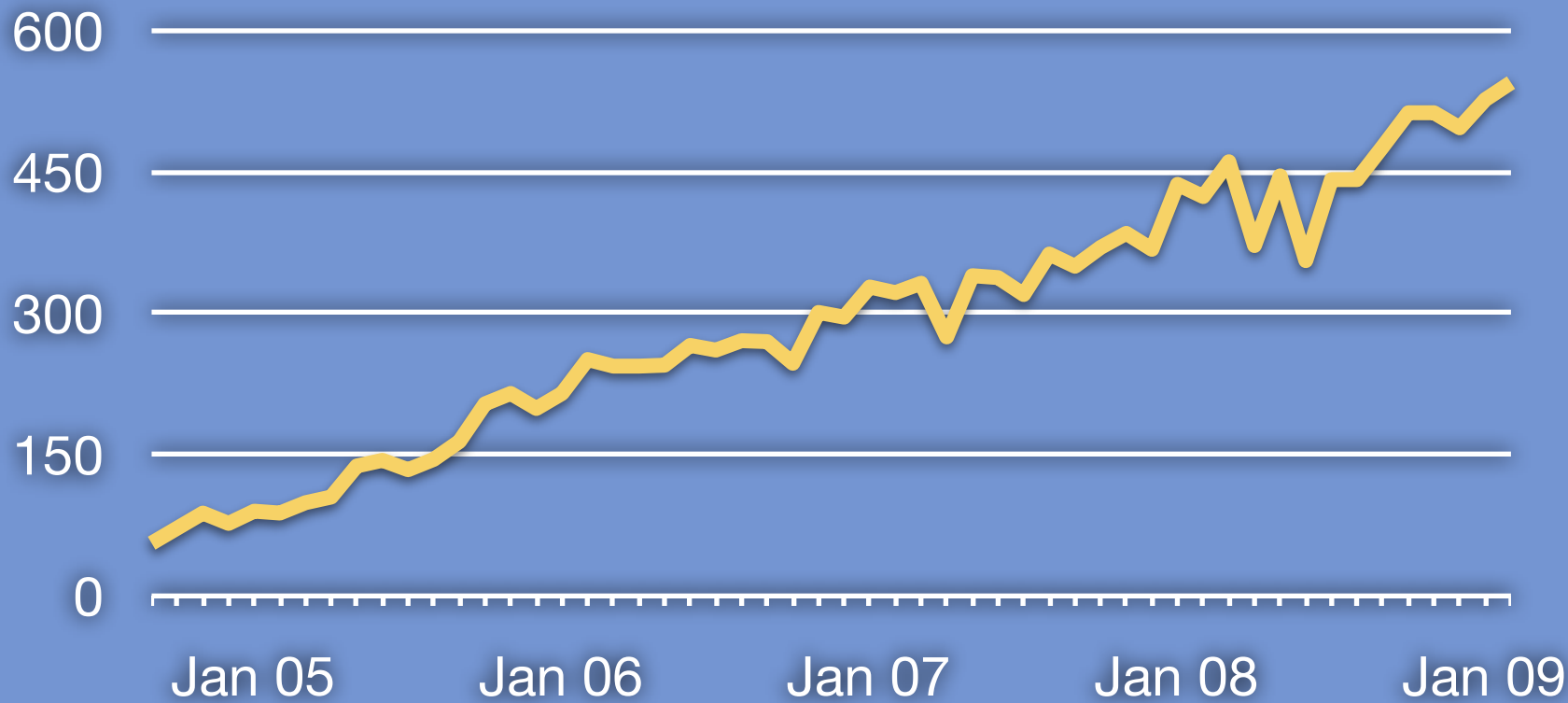


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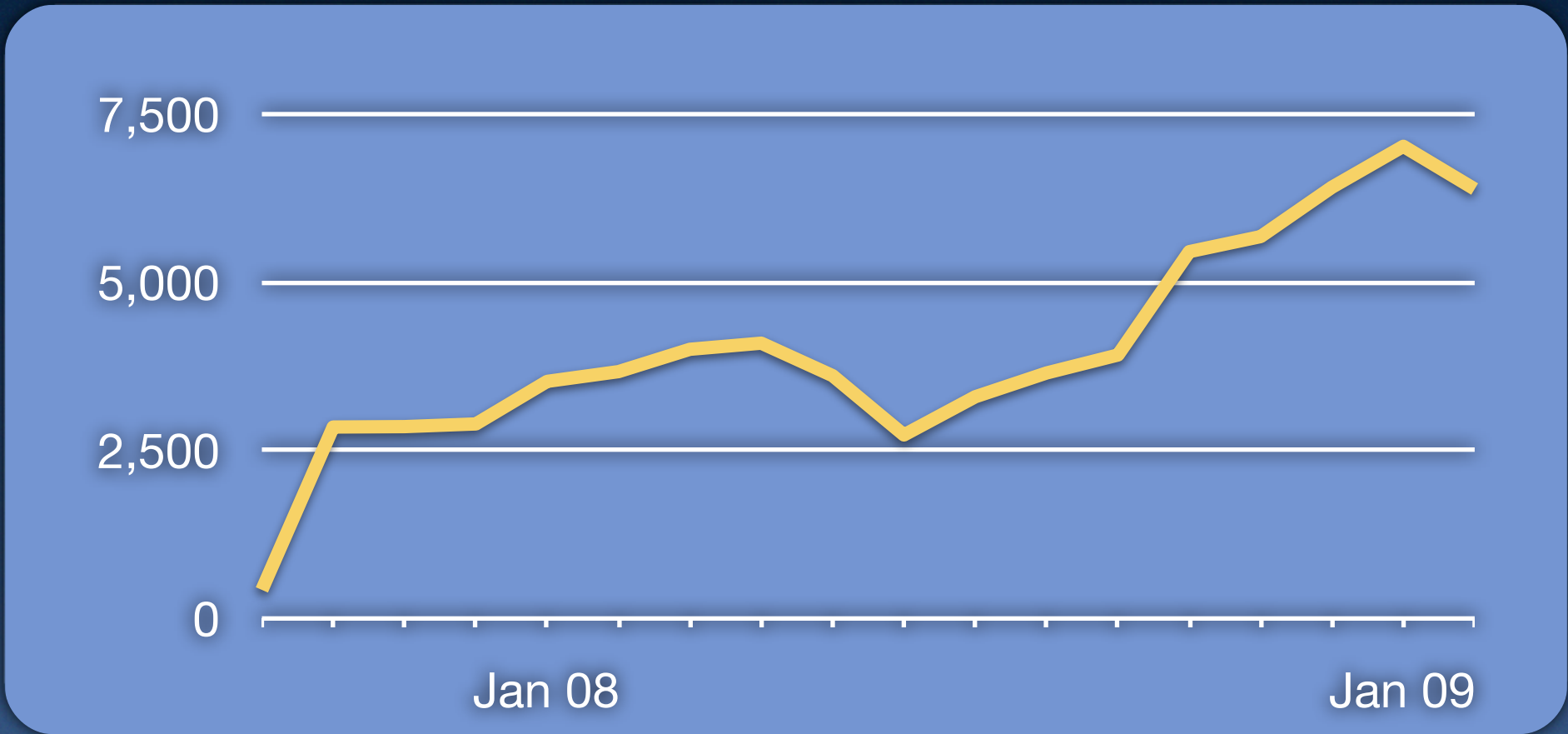
Distinct Raven users per month

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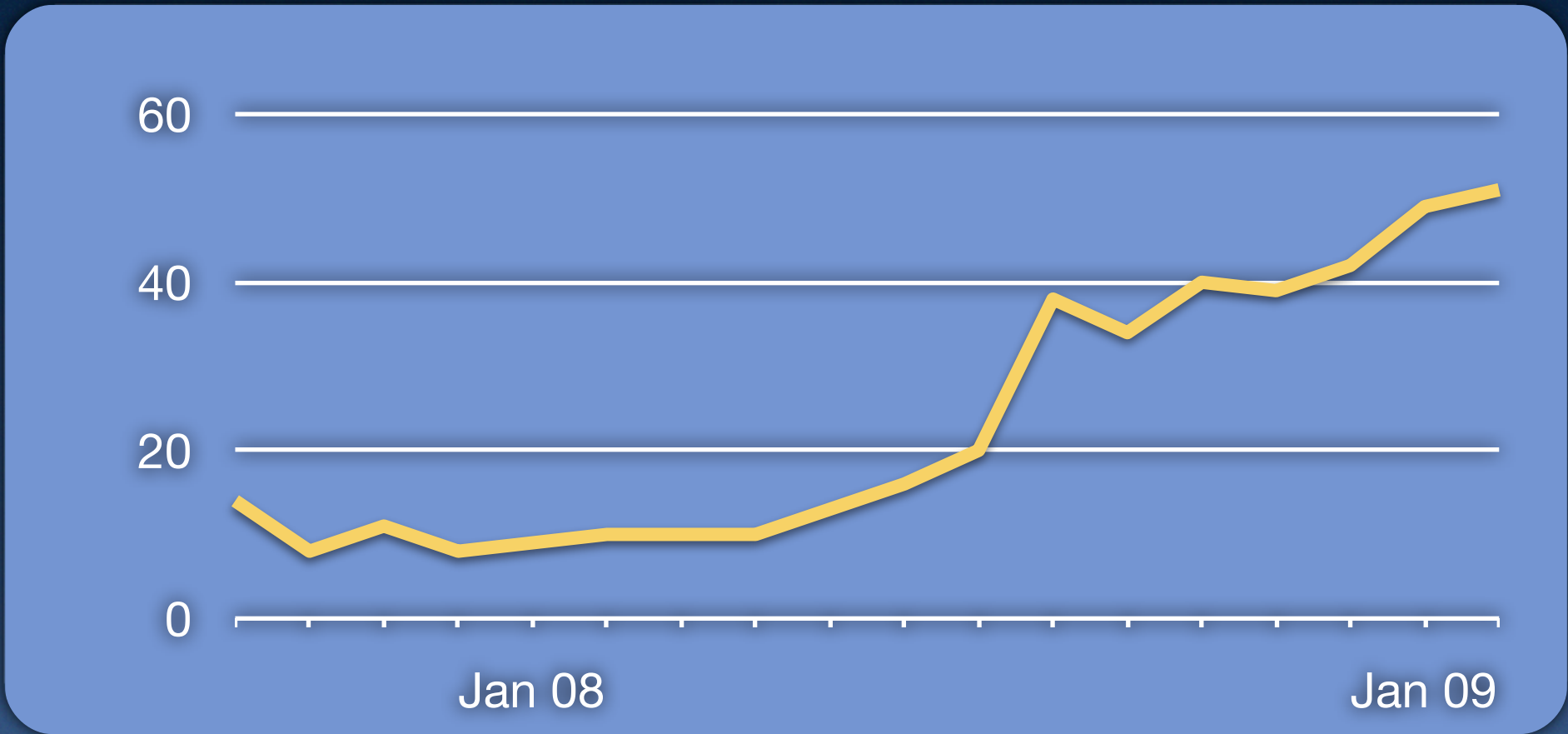
Distinct web servers per month

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Distinct Shib users per month

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Distinct Shib SPs per month

So, Shibboleth, remind me...



“The Shibboleth System is a standards based, open source software package for web single sign-on across or within organizational boundaries. It allows sites to make informed authorization decisions for individual access of protected online resources in a privacy-preserving manner.”

<http://shibboleth.internet2.edu/>
(emphasis mine)

So, Shibboleth, remind me...



- *Standards based, open source software package*
- *For web single sign-on*
- *Across or within organizational boundaries*
- *Informed authorization decisions*
- *Individual access*
- *Protected online resources*
- *Privacy-preserving*

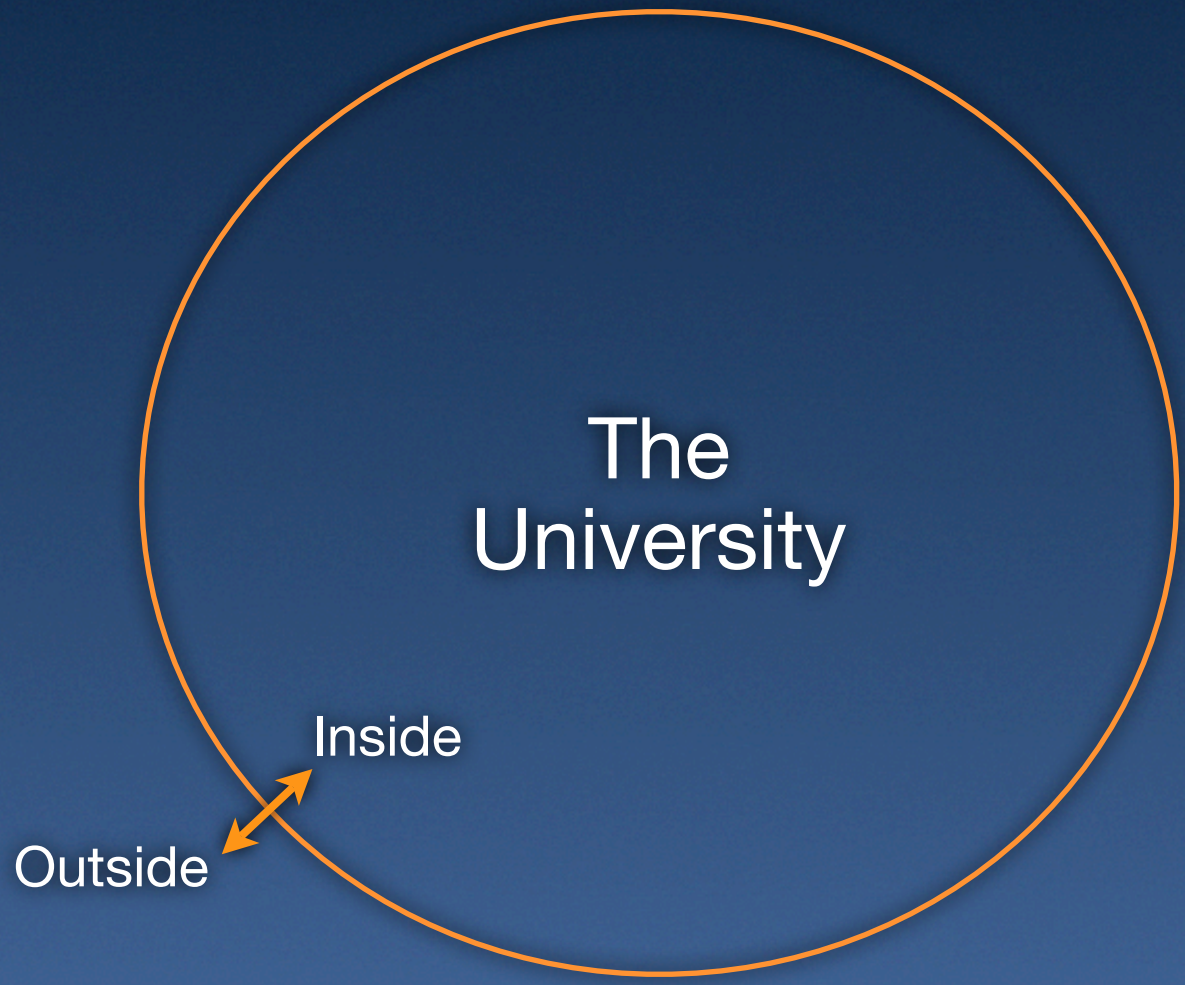
So, Shibboleth, remind me...



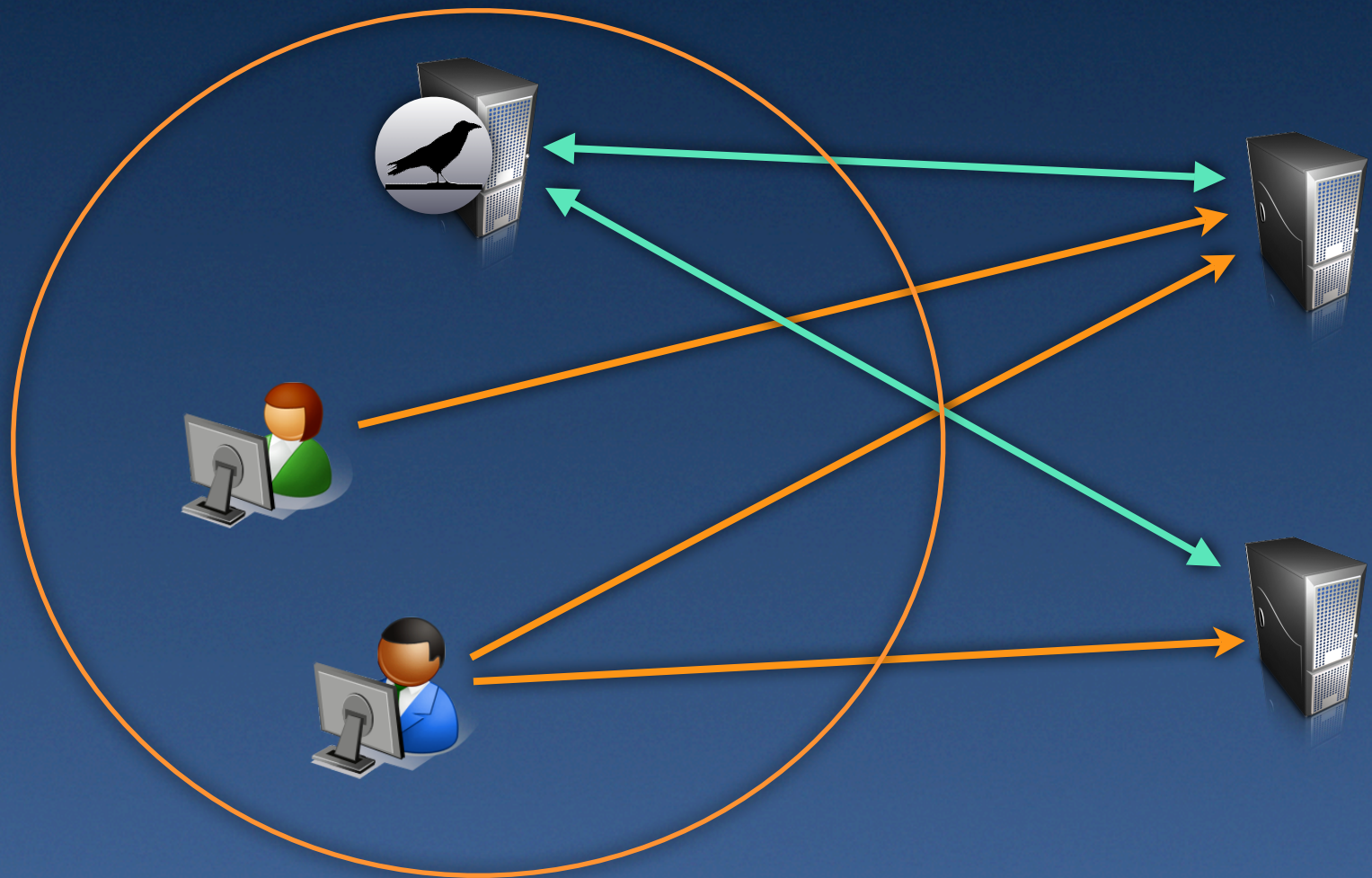
- Components
 - Identity Providers (IdPs)
 - Service Providers (SPs)
 - Discovery Services (DSs)



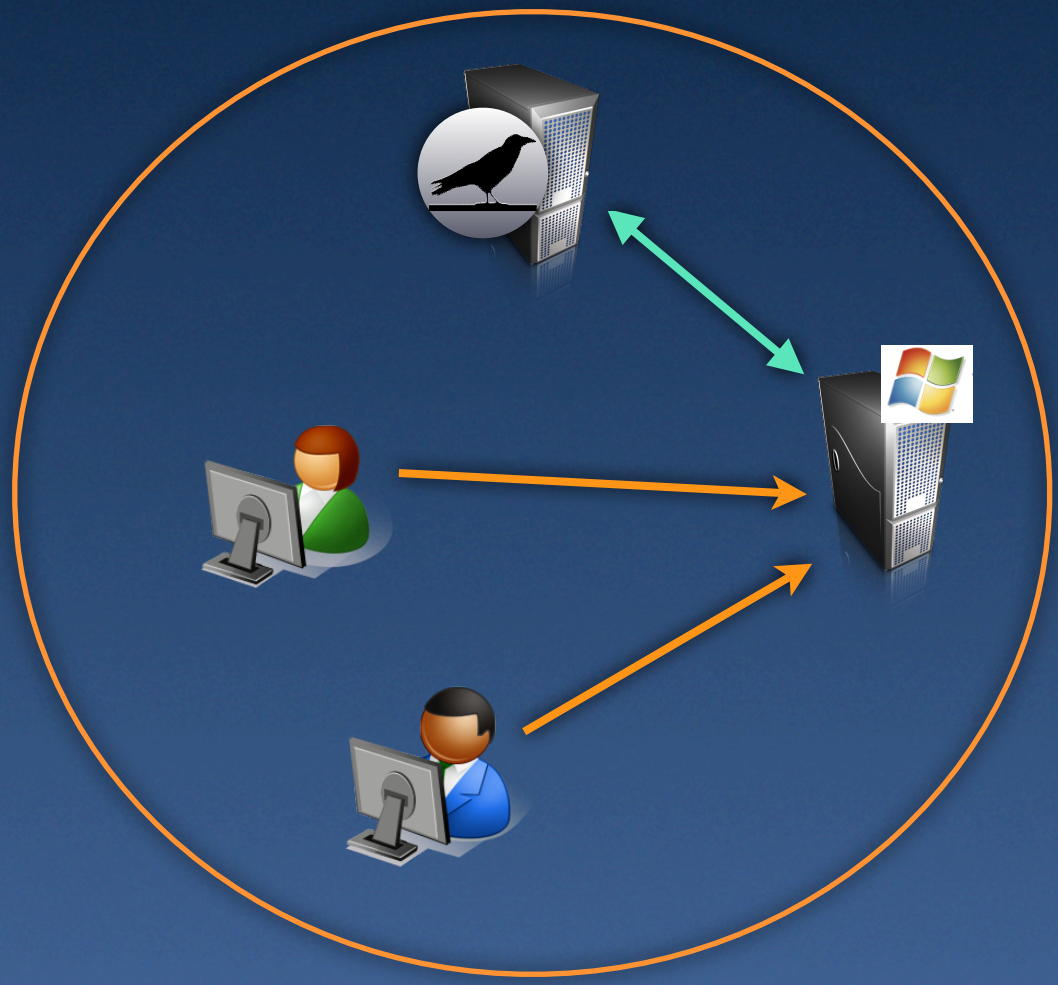
Some use cases



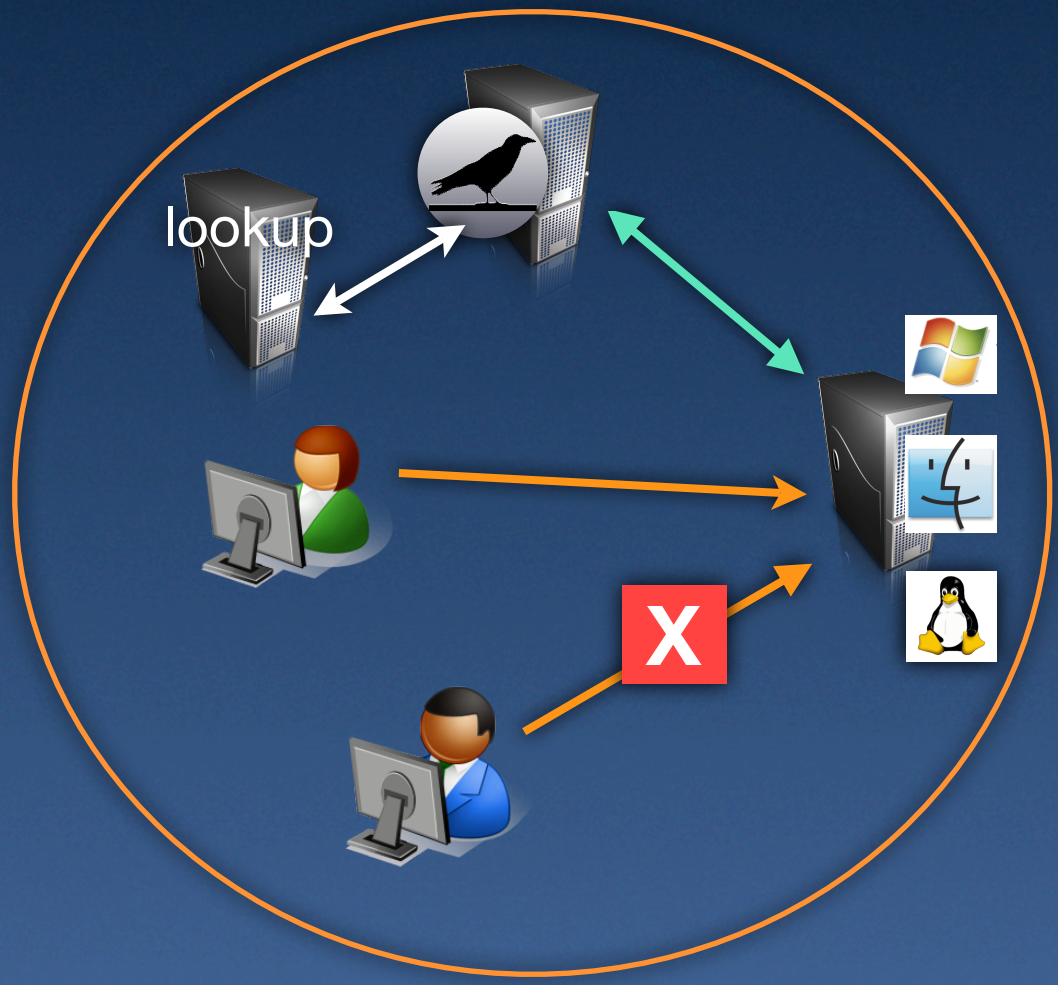
E-journals



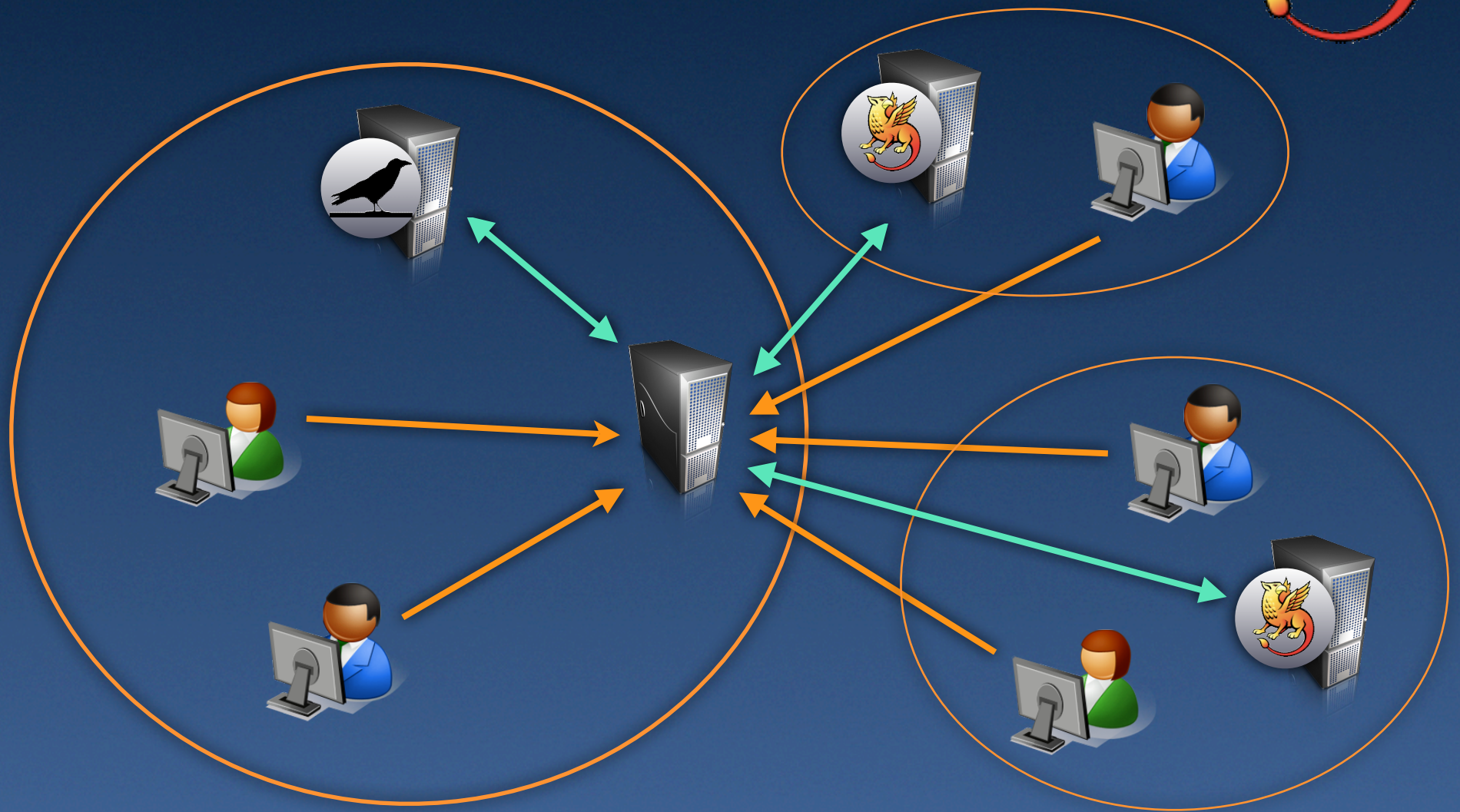
Windows IIS 7



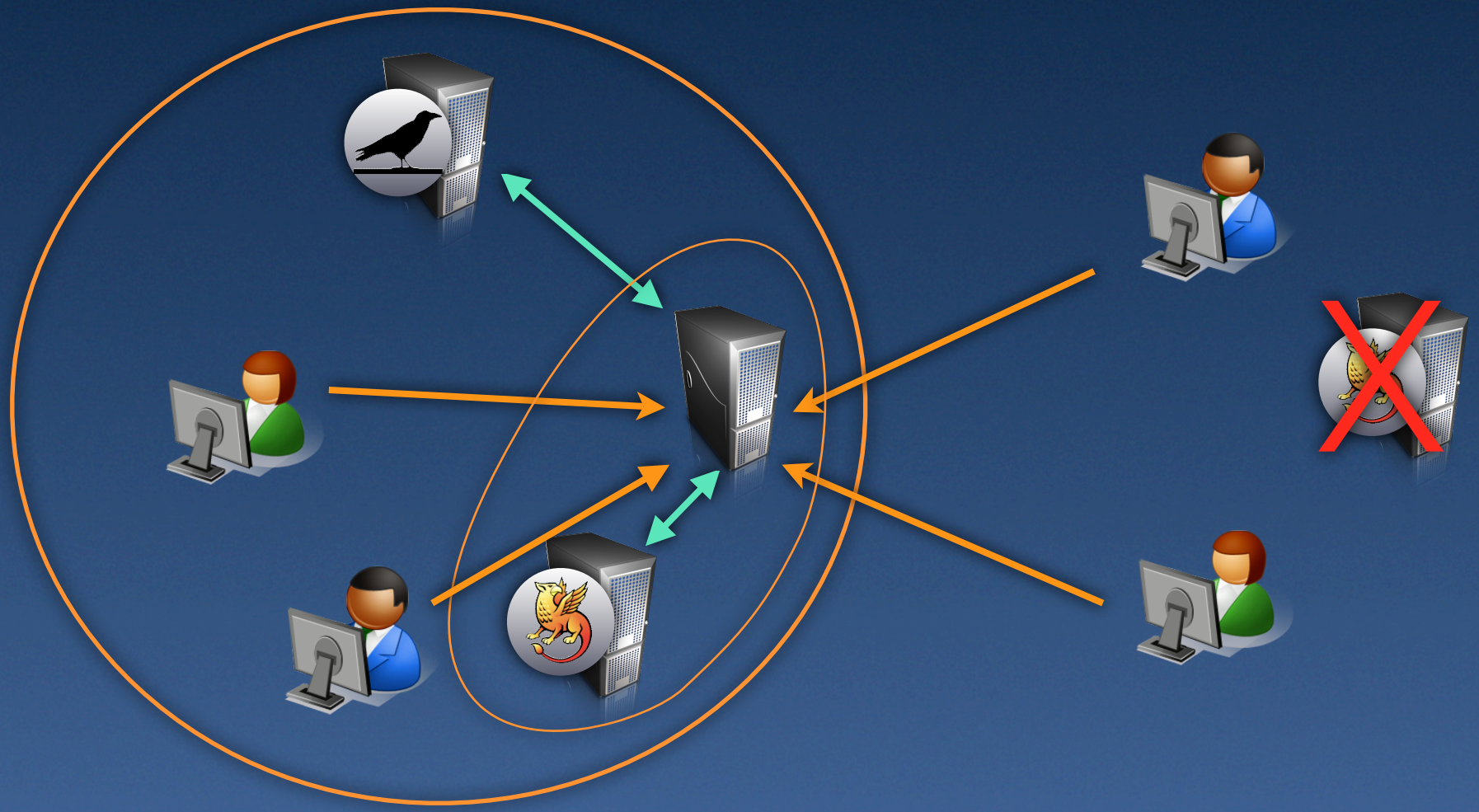
Authorization decisions



“Other people”

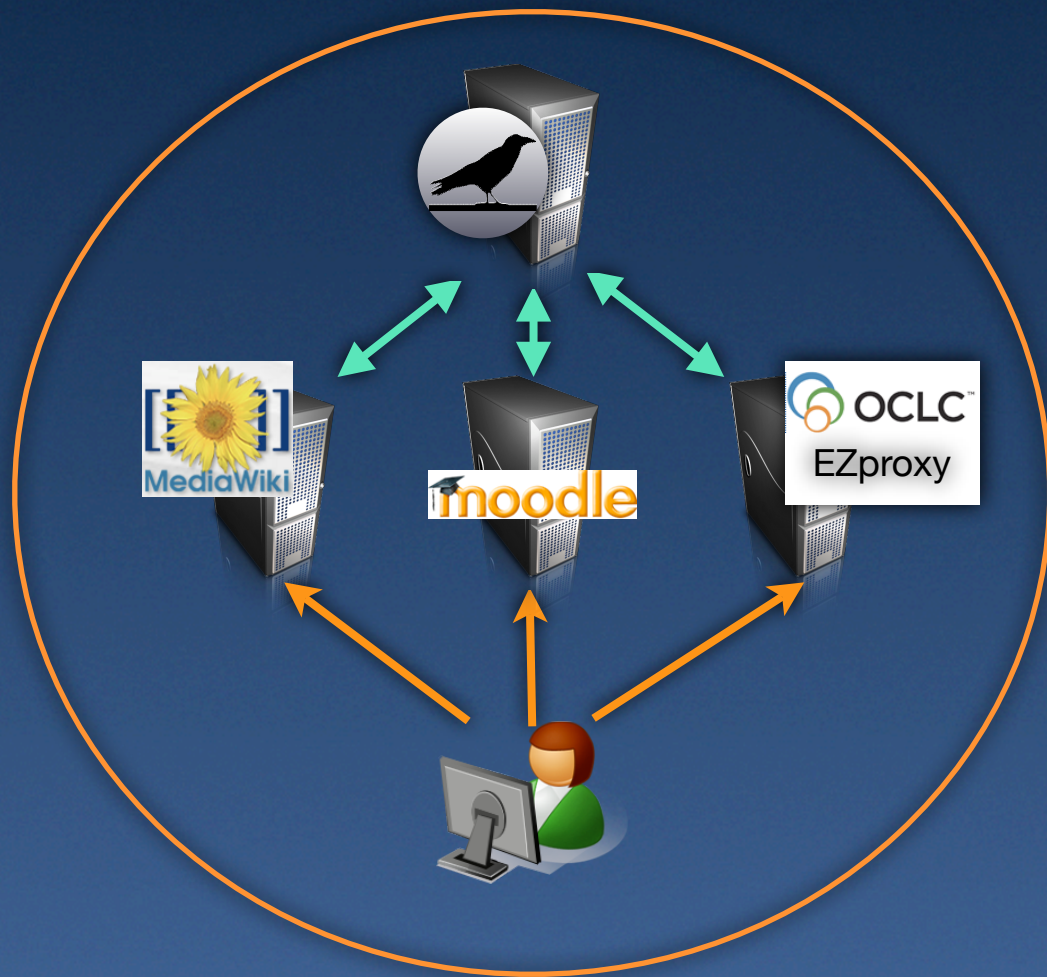


Your own IdP





Existing software



So, how do I do it?



- Install the software
 - Installer to Windows (for IIS or Apache)
 - Ports-based install for MacOS
 - Binary RPMs for SLES10 and CentOS (a.k.a. RHEL)
 - Source RPMs and source files

So, how do I do it? (2)



- Customize config files (shibboleth2.xml)
- Start Shib daemon, (re-)start Apache
- Test
- Gives you a simple SP protecting /secure/ by requiring a Raven login

Now what?



- Register your SP?
- Configure access control
- Configure virtual hosts
- Setup SSL?

What's the catch?



- XML-based config files (even under Windows!)
- All that software
- SSL and certificates and stuff
- Need to actually *understand* virtual hosting
- An extra daemon/process
- Generally more complicated :-((

So how do I cope?



[https://wiki.csx.cam.ac.uk/raven/
Shibboleth_documentation_and_HOWTOs](https://wiki.csx.cam.ac.uk/raven/Shibboleth_documentation_and_HOWTOs)

raven-support@ucs.cam.ac.uk

cs-raven-discuss@lists.cam.ac.uk

shibboleth-users@internet2.edu

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[jw35](#) [my talk](#) [preferences](#) [my watchlist](#) [my contributions](#)



RAVEN

navigation

- [Main Page](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)

search

toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Printable version](#)

[article](#) [discussion](#) [edit](#) [history](#) [protect](#) [delete](#) [move](#) [unwatch](#)

Shibboleth documentation and HOWTOs

Contents [hide]

- 1 [Deploying Shibboleth SPs in the University](#)
 - 1.1 [Instructions](#)
 - 1.2 [Additional information](#)
 - 1.3 [Resources](#)
- 2 [Other University Shibboleth information](#)
- 3 [Shibboleth Implementation Project documents](#)

Deploying Shibboleth SPs in the University

This page provides information about deploying Shibboleth SPs in the University, either just to protect sites with Raven or with a Shibboleth SP, potentially letting in people from other institutions. This information about the deployment of [version 2.1 of the Shib SP software](#) [\[w\]](#) and other software, should work but the Computing Services team is testing anything else. Note that version 1.3 of the Internet2 SP software was released on 30th June, 2010.

Instructions

- [Installing SP2.1 under Linux](#)
- [Installing SP2.1 under Windows](#)
- [Installing SP2.1 for Apache under Windows](#)
- [Installing SP2.1 under MacOS](#)
- [SP registration](#)
- [Configuring access control](#)
- [Virtual hosting issues](#)

Additional information

- [Editing XML](#)
- [EntityIDs](#)
- [SP Metadata](#)
- [Attributes released by the Raven IdP](#)
- [SSL, certificates and security](#)
- [FAQs](#)

The future



***“Prediction is very hard,
especially about the future.”***

Niels Bohr

The future



- Shibboleth 2.0
- More attributes
- Other protocols: OpenID, WS-*, Oauth
- Non-web
- The “Identity Management Working Group”



Thank you for listening



There may be questions...

...including perhaps 'Why "Shibboleth?"'