





British Universities Film & Video Council

moving image and sound, knowledge and access











(geo) Authentication and ERA+

Lessons learned through the use of the Box of Broadcasts (BoB National)

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The mantra

The British Universities Film & Video Council (BUFVC) promotes the production, study and use of moving image, sound and related media within post-compulsory education and research.









The mantra

Supporting learning, teaching and research with moving image and sound.











The mantra

Connecting education with content.











Copyright notice

All graphics are Public Domain from Open Clip Art, Wikimedia or Library of Congress







BUFVC - who we are

- Founded in 1948 60 years of accumulated knowledge
- Established by academic staff to exchange knowledge and information
- Represents and serves the interests of 286 subscribing members, 216 of which are HE/FE sector establishments
- Limited company with charity status
- Democratically elected trustees from 12 HE member institutions and HEFCE









The reason we are here

 Our experience of implementing a shared service operating under ERA+ licence

BoB National
http://bobnational.net











Online off-air recording shared service for all staff & students

Record television & radio

7 days ahead or behind

Archive indefinitely* services managed centrally - no equipment purchase

Share

create clips, share playlists & programmes, tag, comment, rate









The BoBT&Cs

- 1. Streaming service only no copying
- 2. For use in your learning, teaching or academic research relating to your study/work taking place in/through a <u>licensed</u> educational establishment. (excludes friends, family, public)
- 3. You may only access or use BoB in the territory of the United Kingdom
- 4. OU programmes are excluded (not covered by ERA licences)





BoB National

http://bobnational.net









Authentication

- Federated Access Management (Shibboleth), Athens (and email – being discontinued)
- Only legitimate users (staff and students) are authorised
- Authentication internally at the institution (usually linked to a register of staff/students)
- The scenarios that follow assume that the users are valid (i.e. from a licensed educational establishment)
- Apologies to techies in the room if they are too obvious!





IP address







172.31.255.180 pみおといれない。



192.168.0.98 bobnational.net













10.230.1.2

172.31.255.180



10.112.8.14























4 172.31.255.180

192.168.10.1

10.230.1.2















www.maxmind.com

10.112.8.14

www.countrylPblocks.net















- Can be configured to divert all web traffic (just tell your browser to use it)
- Maxmind provides a service to spot them but geared at banking (\$\$\$)
- There are plenty of commercial services



- A secure connection into a location (e.g. office)
- It puts your computer in the office for network purposes



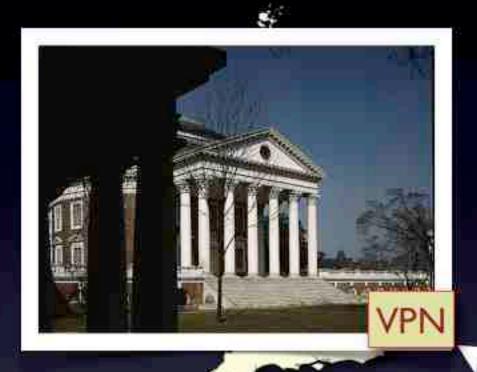












Virtual Private Network







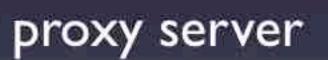














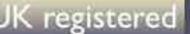




















UK registered

















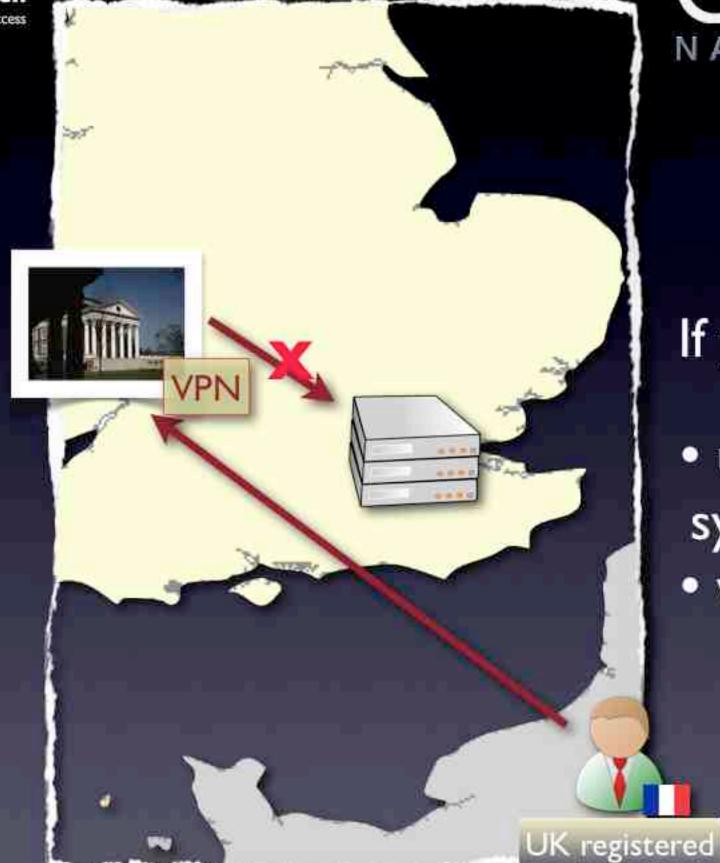
Do you know

- who resides abroad?
- who resides in the UK?
- what if that changes?
- how serious is getting this wrong?













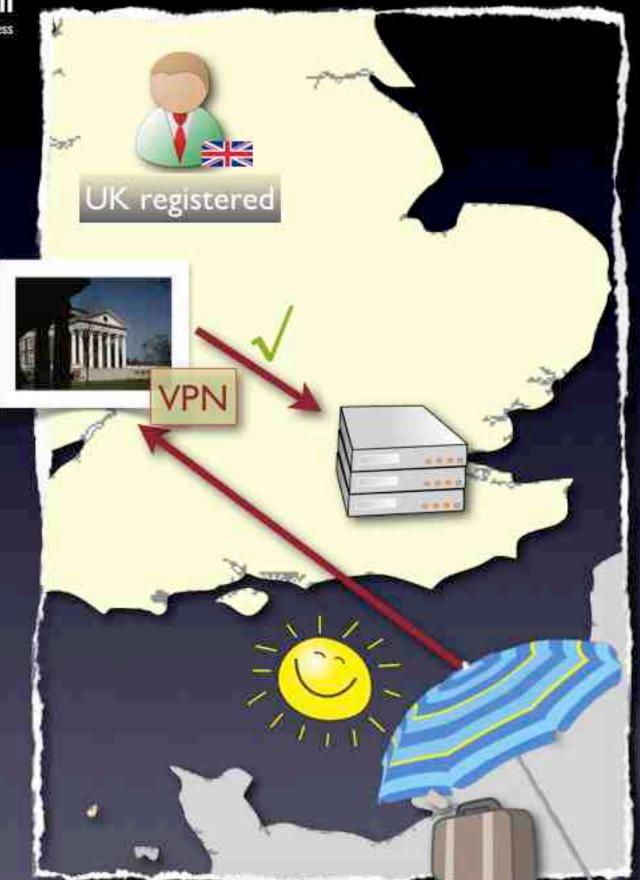
If you do know...

- use authentication system
- works even with VPN









OOO



JISC









Key Scenarios

- Accurate enough GeoIP databases
- UK-resident user goes abroad with VPN access
- UK-registered user resident abroad with VPN access
- Users pay for/setup proxies to bypass geo-authentication









NATIONAL















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