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Project 509 RaT Unit HTTPS Everything

A sub-project of [454](#) to migrate all Research and Teaching Unit web services/sites to HTTPS from HTTP.

Project [509](#)'s final report is [here](#)

This specifically does not mean authenticating all web services, just that they should be served via HTTPS, as lots of browsers now warn when visiting HTTP sites.

Our plan will be to:

1. not create any new web services that are HTTP - already doing this.
2. identify all the web services that we run and categorise them into existing http->https redirects, port 80 open but firewalled at host, port 80 open with no web services running, and port 80 open with no redirects.
3. start working through that list, low hanging fruit first as always, those requiring attention will be dealt with individually.

List of machines

A combination of:

- header-user live/rat-unit.h
- header-user dice/options/apacheconf*.h
- firewall hole for http
- union of the above: `cat A B C | sort | uniq -d`

The list in order of server name is as follows; automatic redirects already in place:

- **Alecto:** dream.inf.ed.ac.uk:80 -> dream.inf.ed.ac.uk:443
- **Arcsimvm1:** svn.arcsim.inf.ed.ac.uk:80 -> svn.arcsim.inf.ed.ac.uk:443
- **Bakerstreet:** wrbsrt.inf.ed.ac.uk:80 -> wrbsrt.inf.ed.ac.uk:443
- **Barclay:** webmark.inf.ed.ac.uk:80 -> webmark.inf.ed.ac.uk:443
- **Barking:** rattrap.inf.ed.ac.uk:80 -> rattrap.inf.ed.ac.uk:443
- **Bollin:** bollin.inf.ed.ac.uk:80 -> bollin.inf.ed.ac.uk:443
- **Crabbe:** project-archive.inf.ed.ac.uk:80 -> project-archive.inf.ed.ac.uk:443
- **Daifuku:** daifuku.inf.ed.ac.uk:80 -> daifuku.inf.ed.ac.uk:443
- **Draco:**
 - gw.infros.inf.ed.ac.uk:80 -> gw.infros.inf.ed.ac.uk:443 (albeit to a `You don't have permission to access / on this server. error`)
 - infros.inf.ed.ac.uk:80 -> infros.inf.ed.ac.uk:443
 - ui.infros.inf.ed.ac.uk:80 -> ui.infros.inf.ed.ac.uk:443
- **Engadine:** rt4develop.inf.ed.ac.uk:80 -> rt4develop.inf.ed.ac.uk:443
- **Filius:** coltex.inf.ed.ac.uk:80 -> coltex.inf.ed.ac.uk:443
- **Gladiator:** rt4test.inf.ed.ac.uk:80 -> rt4test.inf.ed.ac.uk:443
- **Goyle:** projsubs.inf.ed.ac.uk:80 -> projsubs.inf.ed.ac.uk:443
- **Greenbeach:** rt4.inf.ed.ac.uk:80 -> rt4.inf.ed.ac.uk:443

- **Griselda:** project-submit.inf.ed.ac.uk:80 -> project-submit.inf.ed.ac.uk:443
- **Marzipan:**
 - computing.projects.inf.ed.ac.uk:80 -> computing.projects.inf.ed.ac.uk:443
 - course.inf.ed.ac.uk:80 -> course.inf.ed.ac.uk:443
 - portal.theon.inf.ed.ac.uk:80 - portal.theon.inf.ed.ac.uk:443
 - student.inf.ed.ac.uk:80 -> student.inf.ed.ac.uk:443
 - ui.theon.inf.ed.ac.uk:80 -> ui.theon.inf.ed.ac.uk:443
- **Moorgate:** issrt.inf.ed.ac.uk:80 -> issrt.inf.ed.ac.uk:443
- **Newt:**
 - deskview.inf.ed.ac.uk:80 -> deskview.inf.ed.ac.uk:443
 - dicesdesk.inf.ed.ac.uk:80 -> dicesdesk.inf.ed.ac.uk:443 (albeit to a You don't have permission to access / on this server. error)
 - doc.dicesdesk.inf.ed.ac.uk:80 -> doc.dicesdesk.inf.ed.ac.uk:443
- **Parvati:**
 - gw.pip.inf.ed.ac.uk:80 -> gw.pip.inf.ed.ac.uk:443 (albeit to a You don't have permission to access / on this server. error)
 - pip.inf.ed.ac.uk:80 -> pip.inf.ed.ac.uk:443
 - ui.pip.inf.ed.ac.uk:80 -> ui.pip.inf.ed.ac.uk:443
 - db.pip.inf.ed.ac.uk:80 -> db.pip.inf.ed.ac.uk:443
- **Plaistow:** seeker.inf.ed.ac.uk:80 -> seeker.inf.ed.ac.uk:443
- **Queensway:** rdmpubs.inf.ed.ac.uk:80 -> rdmpubs.inf.ed.ac.uk:443
- **Skua:** rt4posttest.inf.ed.ac.uk:80 -> rt4posttest.inf.ed.ac.uk:443
- **Templeton:** dpmt.inf.ed.ac.uk:80 -> dpmt.inf.ed.ac.uk:443
- **Zho:** svn.theon.inf.ed.ac.uk:80 -> svn.theon.inf.ed.ac.uk:443

The following are firewalled at the host (blanik.inf.ed.ac.uk)

- blanik.inf.ed.ac.uk:80 alias virtualflybrain.org
- braintrapdev.inf.ed.ac.uk:80
- vfb-blanik.inf.ed.ac.uk:80
- vfb-blanik.inf.ed.ac.uk:80 alias www.virtualflybrain.org
- vfbdev.inf.ed.ac.uk:80
- vfbsandbox.inf.ed.ac.uk:80
- vfbsandbox1.inf.ed.ac.uk:80

The following are firewalled at the host (karenin.inf.ed.ac.uk)

- braintrap-karenin.inf.ed.ac.uk:80 alias braintrap.inf.ed.ac.uk
- braintrap-karenin.inf.ed.ac.uk:80 alias fruitfly.inf.ed.ac.uk
- flytrap-karenin.inf.ed.ac.uk:80 alias fly-trap.org
- flytrap-karenin.inf.ed.ac.uk:80 alias flytrap.inf.ed.ac.uk
- flytrap-karenin.inf.ed.ac.uk:80 alias www.fly-trap.org
- vfb-karenin.inf.ed.ac.uk:80 alias virtualflybrain.org
- vfb-karenin.inf.ed.ac.uk:80 alias www.virtualflybrain.org
- vfbwiki-karenin.inf.ed.ac.uk:80 alias vfbwiki.inf.ed.ac.uk

The following are firewalled at the host (bocian.inf.ed.ac.uk)

- braintrap.inf.ed.ac.uk:80
- vfb-bocian.inf.ed.ac.uk:80
- vfb-bocian.inf.ed.ac.uk:80 alias virtualflybrain.org
- vfb-bocian.inf.ed.ac.uk:80 alias www.virtualflybrain.org
- vfbaligner.inf.ed.ac.uk:80
- vfbsandbox2.inf.ed.ac.uk:80
- vfbsandbox3.inf.ed.ac.uk:80

The following will be firewalled at the host (mustard.inf.ed.ac.uk) once in operation

- braintrap-mustard.inf.ed.ac.uk:80 alias braintrap.inf.ed.ac.uk
- braintrap-mustard.inf.ed.ac.uk:80 alias fruitfly.inf.ed.ac.uk
- flytrap-mustard.inf.ed.ac.uk:80 alias flytrap.org
- flytrap-mustard.inf.ed.ac.uk:80 alias flytrap.inf.ed.ac.uk
- flytrap-mustard.inf.ed.ac.uk:80 alias fly-trap.org
- vfb-mustard.inf.ed.ac.uk:80 alias virtualflybrain.org
- vfb-mustard.inf.ed.ac.uk:80 alias www.virtualflybrain.org
- vfbdev-mustard.inf.ed.ac.uk:80 alias vfbdev.inf.ed.ac.uk
- vfbsandbox1-mustard.inf.ed.ac.uk:80 alias vfbsandbox1.inf.ed.ac.uk
- vfbsandbox3-mustard.inf.ed.ac.uk:80 alias vfbsandbox3.inf.ed.ac.uk

The following hosts have port 80 open, but currently serve no websites:

- agneda.inf.ed.ac.uk /ganglia is the only thing on agneda, and that is limited to inf.ed.ac.uk hosts. This will be cosigned in due course.
- bridgeport.inf.ed.ac.uk [RT:96874](#), self managed ubuntu kvm server.
- bromia.inf.ed.ac.uk According to RT65835 apache has been set up to redirect port 80 to 9000 or 8080.
- mcgill.inf.ed.ac.uk It is be on develop and classed as a test machine. Once functioning, port 80 will have the config to forward to 443.
- s1509375.inf.ed.ac.uk

The following hosts require attention

- ~~quarter.inf.ed.ac.uk answers to http requests with You don't have permission to access / on this server.~~
- broughton.inf.ed.ac.uk answers to http requests with You don't have permission to access / on this server. However, it is be on develop and classed as a test machine. Once functioning, port 80 has the config to forward to 443
- bollin.inf.ed.ac.uk is an http site only. This now automatically redirects to https, but has generated a detailed response in [RT:101767](#) - ongoing.
- kinloch.inf.ed.ac.uk is an http site only. This needs attention.
- hawksworth
 - mazajak.inf.ed.ac.uk which is an http site only, but obscured by answering http requests on both 7878 and 8080. This needs attention, but being hosted on **hawksworth** means it's probably essential for 'critical research'. Owners contacted

for comment - updated Dec 2020, The owners have agreed to change them to https
Fri 18th Dec.

-- [RichardBell](#) - 15 Jan 2020

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