OWG Summary 2012-12-17

Present: Matt Amos, Andy Allan, Tom Hughes, Jon Burgess, Grant Slater
Apologies: Emilie Laffray
Absent:

From previous meeting:

- Grant to put up hardware requirements & software setup for the tile proxy servers on the wiki [Done].
- Some hardware (no longer at UCL) needs returning to Nick Hill. Grant/Andy to make a delivery to Nick's house w/ StreetCar. [still no response from Nick Hill, Grant to poke again.]
- OWL - OWL DB up on zark & Ian Dees has started on getting the front-end work done. [Pawel has radically re-written OWL and is working on getting it up on zark.]
- jXAPI: New hardware in place, Ian Dees setting it up [DONE].
- Still need RA/VPN access to IC. Grant has sent emails, needs to follow up. Andy will help out. [still pending, low priority]
- What happens to smaug?
    - Needs some disk array config [DONE].
    - Needs setting up as a Postgres 9.1 replicated mirror [Action: TomH, pending]
    - CGImap needs to support the readonly backend [Action: Matt, pending]
    - Note that the .4TB free space on smaug is projected to last 3-4months, so will need to get extra hardware. But still useful as PoC.
- Ramoth:
    - Ramoth disk utilisation is close to 100% (almost all reads), but there is still capacity left (just with more than one writer). May need to consider expansion plans in the next 6mo.
    - Need to upgrade firmware for RAID controller & ~~motherboard(DONE)~~. Need schedule some downtime for this. [Action: Grant, waiting for smaug to be replica]
    - Could RAM upgrade, double to 256GB for approx £600. [We will do this when the firmware is updated - plan for Jan.]
- Yevaud
    - We could do with finding a proxy server in North America.
    - 2 new caches: one in Brisbane & Moscow. One in France coming soon.
    - Need to do a OS upgrade & re-load database (and maybe switch to the carto stylesheet). Expected it'll take about a week (upper bound). [pending]
    - Average byte-hit ratio is ~81%.
    - Yevaud is reaching max capacity purely on rendering - suggested to bring in Orm as a secondary, or potentially buy a new machine. Orm needs more fast disk for

this.

New Stuff

- Spike-02 is dead - need to replace with another machine.
- Get smaug up as replica, then buy new machine to replace smaug, then use smaug as new horntail.
- More backup space for Grant.
- Yevaud 88% full on SSD - need a new one? no, will just repartition the existing SSD.
- New machine for wiki (G5/G6 ~£1k)
- Upgrade / replacement for munin machine?

Priority-Immediacy matrix

	High priority	Medium priority	Low priority
Urgent (now)	* Ramoth RAM (£760)	* Spike-02 replacement (£670)	
Planned (<6mo)	* DB replica (£17.5k) * Smaug higher capacity disks (£5k) * Upgrade Orm disks + ram (£2.7k)	* GigE switch (£850) * new wiki machine (£1k)	
Future (6-18mo)			* Routing machines (2x £7.5k)