

OWG Summary 2012-04-19

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

Apologies:

Absent:

From previous meeting:

- Grant to put up hardware requirements & software setup for the tile proxy servers on the wiki [pending]. Also get Orm & Gorwen up [done, gorwen replaced by fume].
- Old hardware at UCL is still there and still needs throwing away / returning to Nick Hill. Grant/Andy to make a delivery to Nick's house w/ StreetCar. [collection from UCL tomorrow (Fri 20th), no response from Nick Hill]
- GPX dumper - nothing new. Matt to have a look at it. [Grant created simple dumper & released a dump. Still pending on the "proper" dumper.]
- Nominatim - Lonvia seems up for installing & perhaps looking after this. Tom to ask. [Lonvia now looking after nominatim]
- OWL - Matt bringing this up on zark. Reclaim disk from fafnir & return server carcass to Nick. [OWL DB up to date on zark. Needs front-end work for new schema.]
- jXAPI new disks + Dell disk array installed. Ian to set up. [Machine got exploited, waiting on scrub and re-init.]
- Redundancy: Server ordered, delivered and awaiting installation on 3rd Feb. (NOTE: there is a possibility of downtime - it will need announcing ahead of time) [Ramoith installed, up & running with PostgreSQL 9.1 and is primary DB machine.]
- Need GigE switch for IC - Grant to ask what's laying around at IC. [unnecessary, will revisit]
- Still need RA/VPN access to IC. Grant has sent emails, needs to follow up. Andy will help out. [pending, low priority]
- Coastline checker: is it running anywhere anymore? Matt - try and set it up on dev, or delegate. [Jochen Topf's new coastline creator looks promising, although some more work might be needed. Several people are running these things regularly - looks like we don't need to do it any more.]
- Tom to sort out auto-updating / auto-deploy of environments on dev. [done]
- NOTE: privacy policy on the wiki - might want to have this on osmfoundation.org instead. Ping LWG. Needs to be reviewed, strengthened & checked against legal requirements. Need an internal policy document to say what is and isn't allowed/acceptable to be communicated externally. [done, LWG a little busy right now...]
- Andy to write internal guidelines on information flow w.r.t privacy concerns, e.g: difference between requests for internal use only and for release. [done]

New Stuff

- What happens to smaug?
 - Need to re-install with LTS release (12.04, coming soon) & Postgres 9.1
 - CGImap needs to support the readonly backend
- Ramoth:
 - Try setting rotational=0.
 - We're processing all requests without hitting 100% disk utilisation (except during stats update).
 - Upgraded software for RAID controller to L2 caching to SSD. Could also do write caching, but benefits are marginal, risks are high.
 - Could RAM upgrade, double to 256GB for approx £1,500.
- Another ramoth?
 - Max user load on ramoth is bigger than smaug, so falling back to smaug will result in service disruption. This would be during a "degraded" period anyway, so it's not a massive issue.
 - Buying another ramoth-equivalent machine would allow us to handle machine failure with less obvious degradation.
 - Revisit this when we have a better idea of what the effect of moving read queries off Ramoth is.
 - Discussed building SANs, needing battery backups, dual-head external disk array. Cost/benefit isn't there yet.
 - External disk array - the disk array costs more, but the servers would cost less.
- Front & Middle
 - We have 3 of each. Back-ends are nowhere near capacity. Front-ends are close to capacity and Grant is planning to upgrade them within the next few weeks.
 - Capacity is such that we can take 1 of each down without overloading the remaining 2.
 - Website slowness: 2 issues; some pages are always quite slow, some pages are just randomly slow.
 - Monitoring: need some external method of monitoring page response times. Options: pingdom, munin http response plugin, piwik(?), log file mining.
- Yevaud
 - Running OK, but has got to the point where it's filling up faster & faster. Delay pools are helping, but now might be burning through SSD (next day delivery, no no big deal).
 - Have tools to reset SSD if necessary, perhaps when doing database reload.
- Management team meetings
 - Andy would like to share the responsibility of management team meetings. We will try to share - schedule to be determined offline.
- Munin
 - Moved it from horntail, as horntail was processing other stuff, leading to much jitter. Upgraded CPU, but might need more since graph rendering takes aaaages.
- New front & back end machines: Buy 6x 32GB dual quad-core machines to replace existing front & back end machines at ~£1,100 apiece? To replace existing in IC - no extra rack space needed. [let's buy all 6 - see if we can get them for £6k total].

Priority-Immediacy matrix [NOT DONE]

	High priority	Medium priority	Low priority
Urgent (now)			fold-away monitor
Planned (<6mo)		GigE switch (£850)	
Future (6-18mo)			