

OWG Summary 2015-07-13

Present: Matt, Grant, Tom, Jon, Andy, Sarah

Apologies:

Absent:

Actions since last meeting:

- Matt: Chase up power issues -> Slough is on indefinite hold. Matt will continue to monitor it, but we're not getting any relief at UCL in the near future.
- Matt: Draft plan / funding drive [DONE]

Provisioning update:

- Yevaud needs new (faster) controller. RAM upgrade too? 8GB DIMMS not too expensive?
- Orm needs new (bigger) SSDs

Main agenda:

Donation offers of Hosting

Bytemark:

Potentially Moving backup hardware / bandwidth.

Grant: Will speak to Bytemark to find out if we send hardware or if they will offer hardware.

Jump:

Extra VMs. Anything we move, where the data is valued should be backed up.

Interest in moving non-shared services. Wiki / munin / taginfo / ridley (osmf wiki etc)

Hardware Procurement Offer:

Follow up on spec'ed up hardware and find out what would fit out specs and budget.

Find out how warranty would work? Worth at very least running specs (use their experience)

Off piste talk on SSD tile server for tile storage as a better option before DB server to gain experience. Talk on drop in price on SSD, increase reliability. Orm + yevaud seem to be limited

by CPU instead of HDD performance.

Matt: Ask Matt to follow up. Grant happy to help on spec'ing.

exonetric:

¼ Rack. Potentially move some lower priority server as a canary. Anything at UCL that is powered off? Paperwork/Agreement to be put in place. Imagery Server? Access details / swapping out hardware.

We need to work out the most practical canary server (or service) to move. Something non-key. Plan to grow, once we are ready. eg: Imagery server may require access to plug in large USB disk

Matt: to follow up?

UCL: Power, access & Slough

Update: No change power. Slough is still a long term pipe dream.
Consider moving Forum server to a VM at Jump? Chef not an issue, but maintaining the Forum software could present issues / merging upstream? **Grant to point to Tom to git repo.**

Grindtooth still to be moved to a G6.

Postgres consultancy stuff

- PARKED FOR THE MOMENT.

Wiki migration

Done - Chef working using managed code.

Funding Drive Hardware

Donation drive went successfully - we raised £60,959 as of this meeting . A thank you to Matt for getting it up and running.

- Replacing Thorn 1/2/3 (API) machines **Grant:** G6 / G7. 32GB Action: **Grant to to quote and spec, straight hardware swapout.**
- Rendering Primary and Secondary: We have already done some of these upgrades prior to the donation drive. Earlier talk about SSD tile store.
- Imagery Server, simple purchase within budget. 2U server we could host at imperial (paid?) **Grant to re-spec hardware.**
- Services Machine Replica.

- o Talk on how to we do filesystem replication? NFS / Ceph? / GlusterFS?
- o Chef Server?
- o Longer term: Logstash Yes please.
- o Cost of single machine seems very high.
- o Lower cost replication servers better value proposition?
- o 4 functions: Chef / Planet (14TB) / Backup (2TB) / Network-FileSystem (246G of rails stuff: 13G of which is icons, 234G gpx traces)
- o Splitting out Function discussion.

OWG-log

Everyone thinks it's useful to keep up, but find it difficult to keep it up to date. Need to get into the habit, but also there might be technical things (e.g: IRC bot) which might reduce level of effort needed to make an entry.

Task trackers?

<https://github.com/openstreetmap/operations/issues>

Chef

Consensus is to publicise first, with an issue already in there to add testing. [Andy - write skeleton post & circulate. **Grant - publicise on @OSM_Tech**].

Andy has made a list of things we can do to make it easier to contribute. Add rubocop & food critic config files. Then work through cookbooks one by one adding test-kitchen configs.

Priority-Immediacy matrix

IGNORE BELOW - [Matt: update from funding drive / 2015 plan]

	High priority	Medium priority	Low priority
Urgent (now)	* Nominatim 2nd machine (9.3k)		
Planned (<6mo)	* DB slave / replica (£11.9k)	* Off-site backup (£5.3k) * Ironbelly replica (£8.6k)	
Future (6-18mo)		* Tile cache (£3k) x2 (north america, south east asia)	* Routing machines (2x £7.5k)