LAVA Team
Linaro Infrastructure Update

Milo Casagrande, Thursday

Linaro Infrastructure

1. linaro-image-tools
2. ci.linaro.org (Jenkins) (public & private instances)
3. android-build.linaro.org (Jenkins)
   a. Jenkins build system
   b. Web front-end & CLI
   c. AOSP/upstream mirror system
4. review.linaro.org & review.android.git.linaro.org
5. git.linaro.org & android.git.linaro.org
6. cbuild.validation.linaro.org
7. status.linaro.org & roadmap.linaro.org
8. patches.linaro.org
9. releases.linaro.org & snapshots.linaro.org
10. weblogs.linaro.org

Improved git services (Milo)

What is it?

- staging.git.linaro.org & staging.review.linaro.org
- gitolite+gitweb (LDAP for users and SSH keys, Crowd for groups auth)
- gerrit for code reviews

Timeline

- Switch will happen at the beginning of December

Progress update

- Dumb git HTTP problems solved
- Stress testing the staging instance

status.l.o - (Georgy)

What is it?

- status.linaro.org
- Provides a view of progress of JIRA roadmap cards in current engineering cycle
- Provides burndown chart calculated using JIRA Blueprints underlying roadmap cards

Timeline

- Initial production release - 2013.10
- Improvements - before LCA14

Progress update

- Site is live
- All groups status can be accessed through the site

roadmap.l.o - (Georgy)

What is it?

- roadmap.linaro.org
- Provides statement of what will be delivered over the time
- Plots data from Linaro Roadmap project onto timeline

Timeline

- Alpha available along with status.linaro.org (live)
- Final delivery planned for 2014.03

weblogs.l.o - (Georgy)

What is it?

- Advanced capabilities to mine web traffic & provide decision support system for engineering and sr management

Timeline

- EOY13: command-line / manual post-processing weblogs
- LCA14: gui + canned queries + some automated post-processing
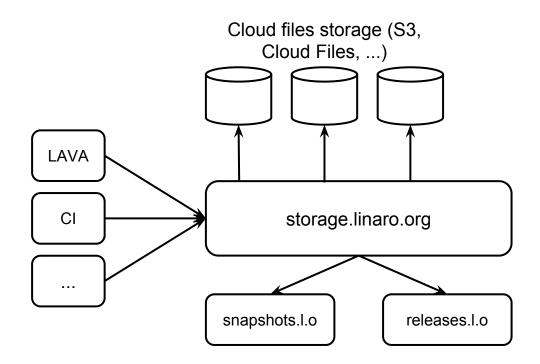
Progress update

- Initial design/scripts are running on people.l.o
- Preparing for industry review of available solutions
  - https://mixpanel.com/, google analytics, webalizer,

Improved Publishing System (Milo)

What is it?

- Still a concept, being written
- Rethinking our publishing infrastructure
- Use key-value stores (Amazon S3, RackSpace Cloud Files, …)
- CLI tools from day-0, Rest API

Cloud files storage (S3,
Cloud Files, ...)

```
LAVA

CI                    storage.linaro.org

...


snapshots.l.o        releases.l.o
```

Configuration Management Report (Paul)

Infra and ITS teams develop, improve, manage, maintain growing number of systems across Linaro. Usecases we have:

- Local development/debugging
- In-cloud development/debugging
- Quickly bringing up new production service instance
- Maintain/manage existing instances

Solution: Latest-generation CM system: Salt and Ansible

Timeline

- EOY2012: LAVA Lab pilots Salt usage, Infra talks about CM, Ansible is mentioned
- LCE13: In postmortem of Canonical migration, issues of current approach to service deployment confirmed, review and comparison of Salt and Ansible tasked
- Pre-LCU13: In-width comparison of Salt vs Ansible
- LCU13: Discussion of Salt vs Ansible
- Post LCU13: Decision on which system(s) to use is made
- LCA14: Oldest services are migrated

Progress update/Feedback

EC2 / Rackspace / Bare Metal ? (Milo)

What is it?

- Are VMs the best solution for all Linaro needs?
- Are EC2 instances the best fit?
- Exploratory work: look at other technologies, cloud offers...

Timeline

- Not started yet
- Need to collect data/prices on actual usage first
- Explore solutions and compare
- LCA14: provide initial data report

Linaro CONNECT

More about Linaro: http://www.linaro.org/about/
More about Linaro engineering: http://www.linaro.org/engineering/
How to join: http://www.linaro.org/about/how-to-join
Linaro members: www.linaro.org/members

More about LAVA
http://wiki.linaro.org/Platform/LAVA | http://validation.linaro.org