SFO15-403: LAVA Dispatcher Refactoring

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Event
SFO15
Current status

- Infrastructure redesign
  - ZMQ control, XMLRPC submission
- Scheduler changes
  - pre-scheduling validation
- tftp, u-boot & multinode support
  - primary & secondary ssh
- Initial Query support
  - live result handling
Next steps

- Wider device support (ongoing)
- Permissions and restrictions
- UEFI (menu & shell)
- Extending Query support
- ADB & LXC
- Installer support
- Migration
Availability

● Example instance:
  ○ `playground.validation.linaro.org` - sometimes running code in review.
  ○ Not ready for production or migration.

● Submission syntax is evolving

● All code merges directly into master

● Pipeline results not visible on production or staging
Support

- QEMU
- beaglebone-black
- cubietruck
- panda
- mustang
- SSH

- image
  - (qemu only)
- ramdisk
- NFS
- secondary media
- secondary connections
In development

- Job visibility
- ADB protocol
  - using LXC
  - ADB shell
- Results & Reports
- Job overrides
- Persistent NFS

- fastmodels
- vexpress
- UEFI menus
- Alternative test methods
  - beyond POSIX
User Forum (Documentation)

● Structural
  ○ Indexing
  ○ Links from job definitions
  ○ Subdivide for different users
  ○ Obvious entry points

● Content
  ○ Use cases & walkthroughs
  ○ Adding new devices
  ○ CTS
  ○ Functional tests
  ○ QA tests
Using the pipeline

- YAML definitions
  - some changes to the existing job files are pending.
  - git.linaro.org/lava-team/refactoring.git

- Method support
  - New ways to test but tests need to be redesigned

- Implementation support
  - Device configuration in the database
  - Ongoing changes in Results app.
Migration Outline

● Add pipeline support to existing devices
  ○ Functional tests
  ○ Development of new test definitions
  ○ Migrate a cohesive set of tests & repeat

● Devices become exclusive to the pipeline once all sets have migrated. (end 2016?)

● Remove old codebase once all devices migrated. (end 2017?)
Q&A

Questions...