Meeting of the **T**echnical **S**teering **C**ommittee of the Akraino Edge Stack Project

February 26, 2019

TSC Voting Member Roll Call

Member Company	Voting Member Name	Contact info
Arm	Tina Tsou	tina.tsou@arm.com
AT&T	Kandan Kathirvel	kk0563@att.com
Dell	Tim Epkes	tim_epkes@dell.com
Ericsson	Torbjörn Keisu	torbjorn.keisu@ericsson.com
Huawei	Wenjing Chu	wenjing.chu@huawei.com
Intel	Jenny Koerv	jenny.koerv@intel.com
Inwinstack	Thor Chin	thor.c@inwinstack.com
Juniper	Sukhdev Kapur	sukhdev@juniper.net
Nokia	Tapio Tallgren	tapio.tallgren@nokia.com
NTT	Takeshi Kuwahara	kuwahara.takeshi@lab.ntt.co.jp
Qualcomm	Shahid Khan	shahidk@qti.qualcomm.com
Radisys	Prakash Siva	psiva@radisys.com
Red Hat	Frank Zdarsky	zdarsky@redhat.com
Seagate Technologies	Tim Walker	tim.t.walker@seagate.com
WindRiver	Jim Einarsson	jim.einarsson@windriver.com

Agenda

› PTL Updates

› Akraino Validation Lab Update – Cesar Berho

PTL Updates

› PTLs to provide updates on the status of the Blueprints and Feature Projects

Blueprint	Winner of PTL Election
SEBA	Aaron Byrd- AT&T
Serverless	Itamar Eshet- AT&T
Unicycle	David Plunkett- AT&T
Rover	David Plunkett- AT&T
OVS-DPDK	Rakesh Bohra- Ericsson
Tungsten Fabric	Sukdev Kapur - Juniper
Edge Video Processing	Adnan Saleem- Radisys
Enterprise Edge Lightweight and IoT	Khemendra Kumar- Huawei
ELIOT SD-WAN/WAN Edge/uCPE	Khemendra Kumar- Huawei
IEC Type 1	Trevor Tao (ARM)
IEC Type 2	Xinhuli (VMWare)
Industrial Edge	Yolanda Robla – Red Hat
Provider Access Edge	Yolada Robla – Red Hat
Micro MEC	Tapio Tallgren- Nokia
Radio Edge Cloud	Paul Carver- AT&T
Starling X	Bill Zvonar- Wind River
Time Critical Edge	Shane Dewing- Intel

Feature Project	Winner of PTL Elected
Akraino Portal	Mike Hunter – AT&T
Cluster Health & Overload Monitoring Platform (CHOMP)	Mike Hunter – AT&T
Support of OVS-DPK in Airship	Georg Kunz – Ericsson
Blueprint Validation Framework	Tapio Tallgren - Nokia

PTL TSC Presentation Criteria
Is a validation lab in place?
Has a code repository been established?
Have regular meetings been scheduled?
Has a backlog been established?
Have any issues been identified that require support from the TSC?

› https://wiki.akraino.org/display/AK/Project+Status+in+Release+1

Akraino Lab Timeline

December

- Akraino F2F (SC)
- Project and BP capacity planning started
- Initial donations mapped

January

- Project and BP capacity planning delivered to LF. Included purchases and donations.
- First round of reviews and questions sent back for specific donations/HW requests.

February

- Second round of questions targeting electrical specs and vendors involved.
- Vendor, and key contacts delivered to LF.
- Donation agreements under review.
- RFP finalists OSU and UNH (expertise on LaaS)

March

- RFP Process concluded
- Donation agreement drafts
- Execution of Community Lab purchases

AKRAINO EDGE STACK

Basic CI Services

› All CI services are run/maintained by the Linux Foundation

› Basic layout/operation of services is similar to other LF-run sites (e.g. *onap.org, acumos.org,* etc.)

› Gerrit: for source code (*gerrit.akraino.org*)

› Jenkins: for code builds and unit tests (*jenkins.akraino.org*)

› Nexus: for repositories (*nexus.akraino.org*)

› SonarQube: for automated code inspection (*sonar.akraino.org*)

› Wiki: for documentation (*wiki.akraino.org*)

› Jira: for issues (*jira.akraino.org*)

› All services are *https* or *ssh* (Gerrit)

› A Linux Foundation ID is required for all services

New Projects

› PTL reach out to Blueprint Validation Lab sub-committee ci@lists.akraino.org to create project under Gerrit and in other LF infra. Including VMs or community lab share they may need.

› CI/Validation sub-committee approves the request and assist PTL to access the resources.

› PTL coordinates with the project team to start the development.

› Projects have a list of committers who can put code into the projects

› Recommend projects be named as such: <blueprint-name>_<subproject-name>

› New Projects: Blueprint Validation Lab sub-committee sends an email to helpdesk@akraino.org with name of project (lower case) and list of committers

› Documentation in wiki generally refers to the latest master branch code (may be overridden by documentation subcommittee).

› PTL encourage to work with Blueprint Validation Framework.

CI Process - Gerrit

› Code submitted to Gerrit from the developer

› Code is reviewed and voted on via the normal Gerrit code review process

› Reviewers need to have permissions (assigned by LF) to merge code

› LF uses a voting range of -2..+2; +2 code is eligible to merge

› LF guidelines on Gerrit use:

> https://docs.releng.linuxfoundation.org/en/latest/gerrit.html

› Code Review process described here:

> https://lf-releng-docs.readthedocs.io/en/latest/environment-overview.html

# CI Process - Jenkins

› Jenkins jobs are primarily defined by LF code

› All Jenkins jobs are maintained in the *ci-management* project

› Jobs are written as JJB (*Jenkins Job Builder*) templates, on a per-project basis

› LF personnel code review/approve all changes to the *ci-management* project

› More details here:

    › https://docs.releng.linuxfoundation.org/en/latest/
    › https://github.com/lfit/releng-global-jjb
    › https://github.com/lfit/releng-common-packer.git

› Jenkins Sandbox (*https://jenkins.akraino.org/sandbox/*) available to do limited testing of jobs (without Nexus)

Development workflow
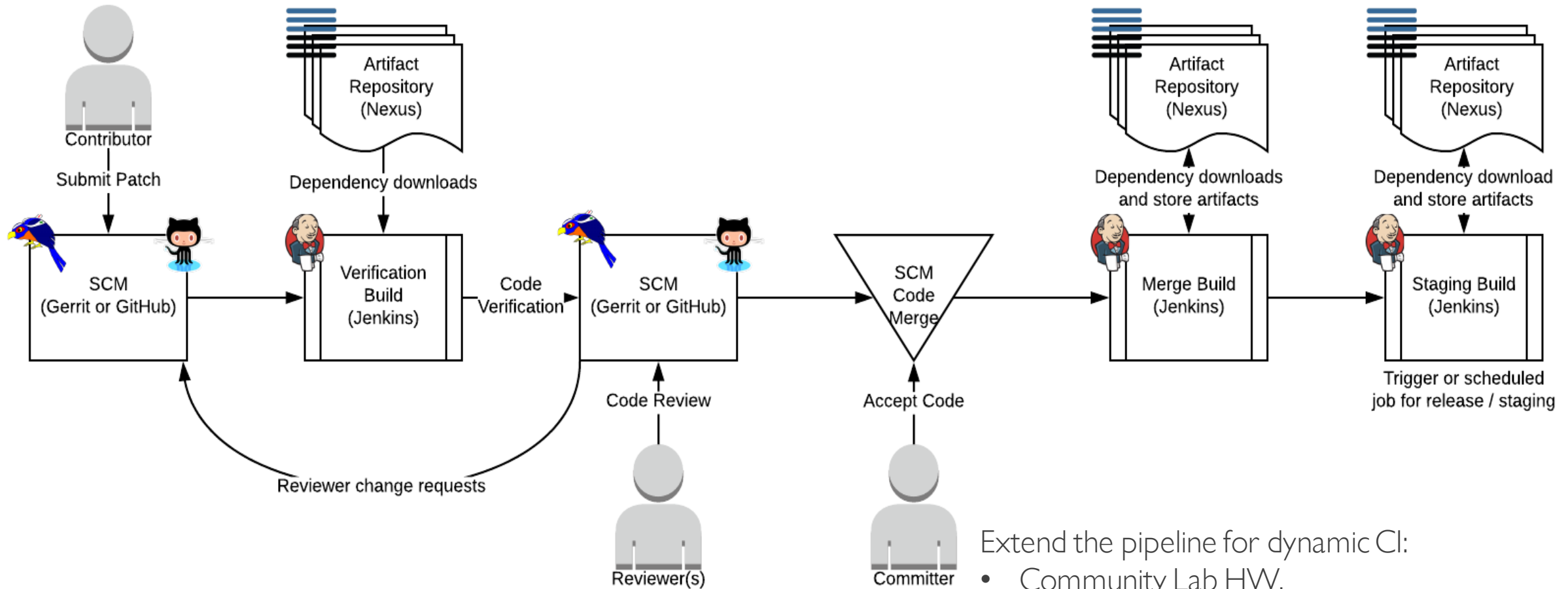
Extend the pipeline for dynamic CI:
- Community Lab HW.
- Akraino Validation Framework.

Contacts

› ci@lists.akraino.org

› Cesar Berho – Subcommittee chair

› helpdesk@akraino.org

› Eric Ball – LF release manager

Backup

CI Process - Nexus

› All built artifacts are stored in Nexus
  › *nexus.akraino.org* - .tar, .war, and.jar files
  › *nexus3.akraino.org* - Docker containers
› CD retrieves from Nexus as the result of Gerrit API events
› nexus3 can be used to retrieve Docker containers (supports Docker v2 API) – don't need DockerHub

CI Process – Wiki/Sonar/Jira

› Wiki is the documentation of record for Akraino

› SonarQube - used to check code quality of projects so configured in Jenkins