



OLF

NETWORKING

LFN Developer & Testing Forum



LFN
NETWORKING

LFN Developer & Testing Forum

OOM journey from Gerrit / Jenkins to Gitlab

Sylvain Desbureaux

- OOM and gerrit's use
 - Jenkins
 - Gating via Gitlab CI
- Job migration to gitlab
 - Sensitive tasks
 - Linting
 - Gating
- Next steps

- Jenkins from LFN uses VM to perform the jobs
 - Therefore, dependencies are shared
 - Complicated to test code against different versions of same executable
 - JJB are thought for maven and (a bit) docker and not for helm
- For OOM committers, Jenkins adds more issues than it helps

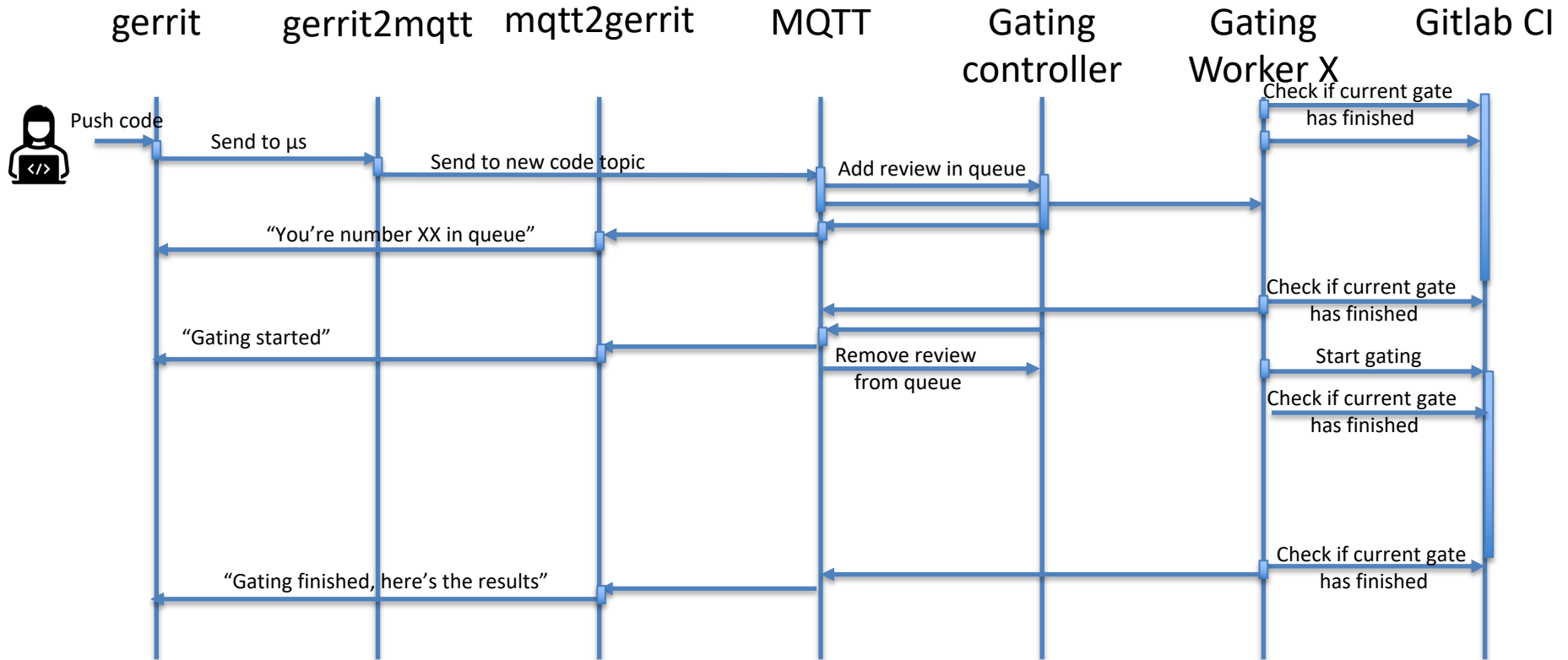
OOM and current gerrit use

- LF rule enforcement is done via git hooks on gerrit
 - CLA signature check
 - “Issue-ID” and “Signed-by” being set check

- Jenkins performs “linting”
 - Helm linting
 - Bash script linting
 - No whitespaces / tabs linting
 - Image being released linting
 - Commit message format linting
 - Documentation linting (doc8, link check, ...)

- Gitlab CI (+ some micro services) performs gating
 - Each gerrit review sent to OOM (and integration and core SO) are deployed
 - We then check that everything works when deployed

OOM and current Gitlab CI use

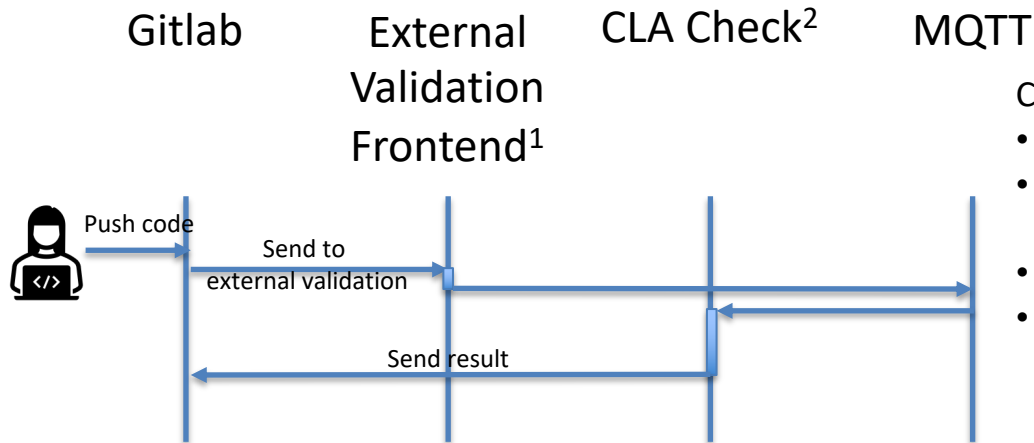


Job migration to gitlab: sensitive tasks

- Some tasks are sensitive because they need to have access to sensitive data
- CLA check needs to have list of all users with signed CLA
- Helm upload needs to have credentials to push into ONAP nexus

Job migration to gitlab: sensitive tasks

- CLA check: use "external validation"



CLA check will

- Update users lists if too old (once every hour)
- Take the list of all code authors from the merge request
- Validate they're present in one of user lists
- Approve / disapprove according to the result

1: <https://gitlab.com/Orange-OpenSource/lfn/onap/gating-tools/external-approval-listener>

2: <https://gitlab.com/Orange-OpenSource/lfn/onap/gating-tools/cla-checker>

Job migration to gitlab: sensitive tasks

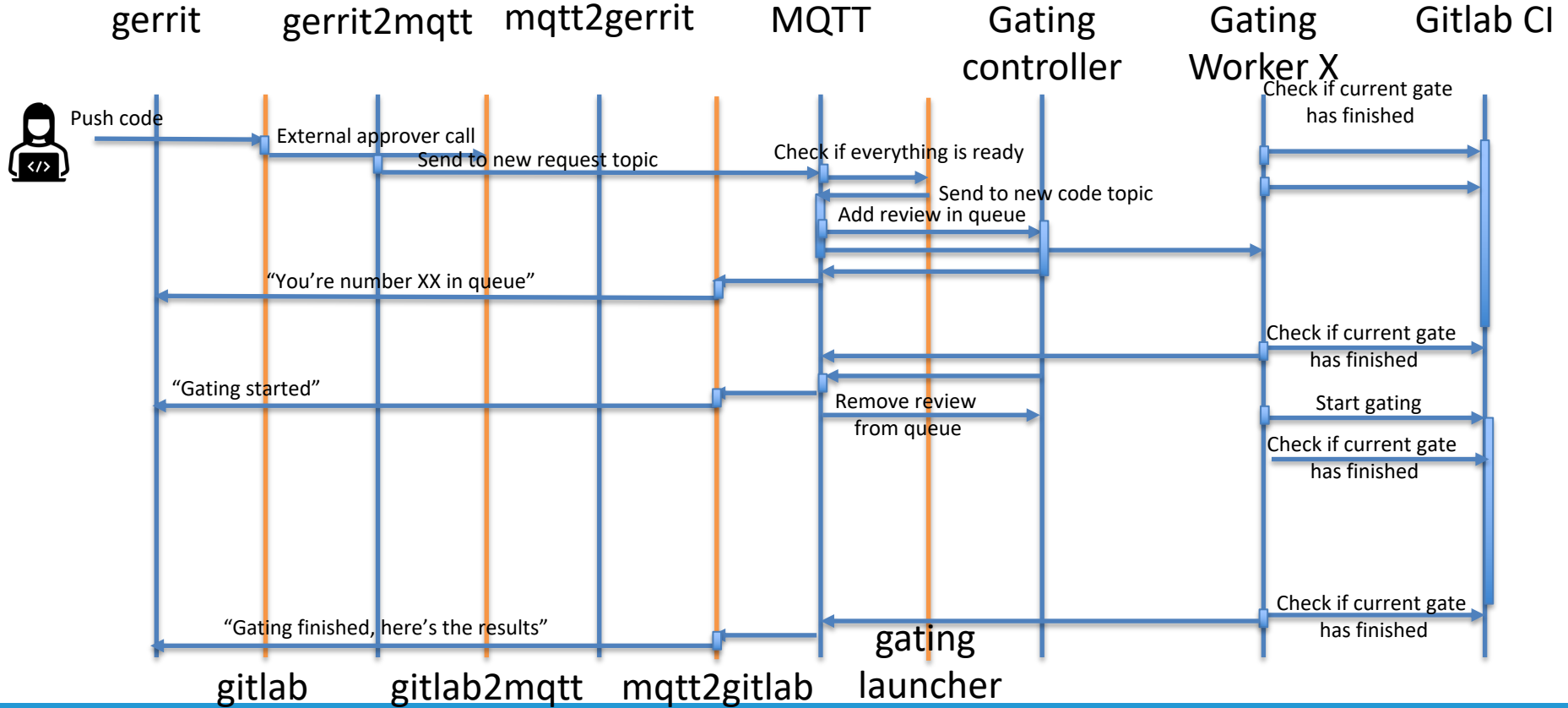
- Helm upload: (will) use protected / hidden environment variables
 - Creds will be set into protected and hidden variables
 - They can be used only on procted branches (master + 'stable/*')
 - Script using them won't show them
 - Can't be retrieved out of OOM repo

Job migration to gitlab: linting

- All linting tasks will be performed into dedicated steps using
 - Dedicated docker container(s) (helm linter will use a matrix of container in order to check against needed versions)
 - Simple scripts
- Tasks will be triggered only if needed:
 - Doc task will be triggered only if “doc” folder is touched
 - Helm / gating / linting will be triggered only if “Kubernetes” folder is triggered

- Launching gates has 2 issues to solve:
 - We need to be able to work in "gerrit triggered" mode and in "gitlab triggered" mode
 - We have a limited number of systems for the gate so the queue system must remain

Job migration to gitlab: launching gates



Job migration to gitlab: launching gates

- Gating launcher¹ will:
 - Check that Kubernetes folder has changed
 - Check that helm linting is OK
 - If yes, ask for a gate
- Gitlab2mqtt is the same tool as CLA check External Validation Frontend²
- MQTT2Gitlab³ is a new μ s

1: <https://gitlab.com/Orange-OpenSource/lfn/onap/gating-tools/gating-launcher>

2: <https://gitlab.com/Orange-OpenSource/lfn/onap/gating-tools/external-approval-listener>

3: <https://gitlab.com/Orange-OpenSource/lfn/onap/gating-tools/mqtt-to-gitlab-mr>

Next steps

- All μ s are deployed on ONAP Azure tooling zone (on Kubernetes)
- Tests have been made and it works
- We can migrate “when we want”
- Decide to move to Gitlab instead of Gerrit / Jenkins decision will be taken by the next OOM PTL

Annex

User journey to push code

The screenshot shows the GitLab repository page for the project 'oom'. The 'Fork' button is circled in blue. The repository details include 6,447 commits, 17 branches, 14 tags, 881 KB files, and 881 KB storage. A recent commit is highlighted: 'Merge "[AAI] Add serviceAccount override to local cassandra config"' by Sylvain Desbureaux, authored 17 hours ago. Below the commit list, there are buttons for 'Upload File', 'README', 'CONTRIBUTING', 'CI/CD configuration', 'Add LICENSE', and 'Add CHANGELOG'. There are also buttons for 'Add Kubernetes cluster' and 'Configure Integrations'.

Name	Last commit	Last update
.ci	[GLOBAL] Move to Gitlab	3 weeks ago
.gitlab/merge_request_templat...	[GLOBAL] Move to Gitlab	3 weeks ago
TOSCA	[ESR] Remove ESR from OOM	4 months ago
docs	[GLOBAL] Migrate to helm v3	1 month ago
kubernetes	Merge "[AAI] Add serviceAccount overrid...	17 hours ago

The screenshot shows the 'Fork project' dialog in GitLab. The 'Project name' field is filled with 'oom'. The 'Project URL' field is filled with 'https://gitlab.com'. The 'Project slug' field is filled with 'oom'. The 'Project description (optional)' field is filled with the project description. The 'Visibility level' is set to 'Public'. The 'Fork project' button is circled in blue.

Project name
oom

Project URL
https://gitlab.com

Project slug
oom

Project description (optional)
Introduces the ONAP Platform OOM (ONAP Operations Manager) to efficiently Deploy, Manage, Operate the ONAP platform and its components (e.g. MSO, DCAE, SDC, etc.) and infrastructure (VMs, Containers).

Visibility level
 Private
 Internal
 Public

Fork project

User journey to push code

Create a branch (via UI or git cli)

GitLab Menu Search GitLab

Sylvain Desbureaux > oom > New Branch

New Branch

Branch name

Create from

Existing branch name, tag, or commit SHA

Create branch Cancel

Click on create Merge Request

GitLab Menu Search GitLab

Sylvain Desbureaux > oom > Repository

You pushed to newFeature just now

Create merge request

newFeature oom / +

History Find file Web IDE Clone Gitpod

Merge "[AAI] Add serviceAccount override to local cassandra config"
Sylvain Desbureaux authored 18 hours ago 98b40be0

Name	Last commit	Last update
.ci	[GLOBAL] Move to Gitlab	3 weeks ago
.gitlab/merge_request_templat...	[GLOBAL] Move to Gitlab	3 weeks ago
TOSCA	[ESR] Remove ESR from OOM	4 months ago
docs	[GLOBAL] Migrate to helm v3	1 month ago
kubernetes	Merge "[AAI] Add serviceAccount overrid...	18 hours ago
.gitignore	[GLOBAL] Migrate to helm v3	1 month ago
.gitlab-ci.yml	[GLOBAL] Move to Gitlab	3 weeks ago
.gitlint	[COMMON] Allow '-' in commit topic	1 year ago
.gitreview	fixing .gitreview on master	3 years ago
.pre-commit-config.yaml	[COMMON] Add a pre-commit-auto-upda...	4 weeks ago
.pylintrc	[GLOBAL] Move to Gitlab	3 weeks ago

https://gitlab.com/sdesbure/oom/-/commits/newFeature/

User journey to push code

Verify that the target branch is onap/oom/oom

The screenshot shows a GitHub web interface for creating a new merge request. The breadcrumb navigation at the top reads "Sylvain Desbureaux > oom > Merge requests > New". The main heading is "New merge request".

On the left, there is a vertical sidebar with various icons for navigation.

The "Source branch" section contains two dropdown menus: the first is set to "sdesbure/oom" and the second to "newFeature". Below this, a merge preview shows a commit by Sylvain Desbureaux titled "Merge '[AAI] Add serviceAccount override to local cassandra config'" with commit hash "98b40be0".

The "Target branch" section contains two dropdown menus: the first is set to "onap/oom/oom" (highlighted with a blue circle) and the second to "master".

At the bottom of the source branch section, there is a blue button labeled "Compare branches and continue".