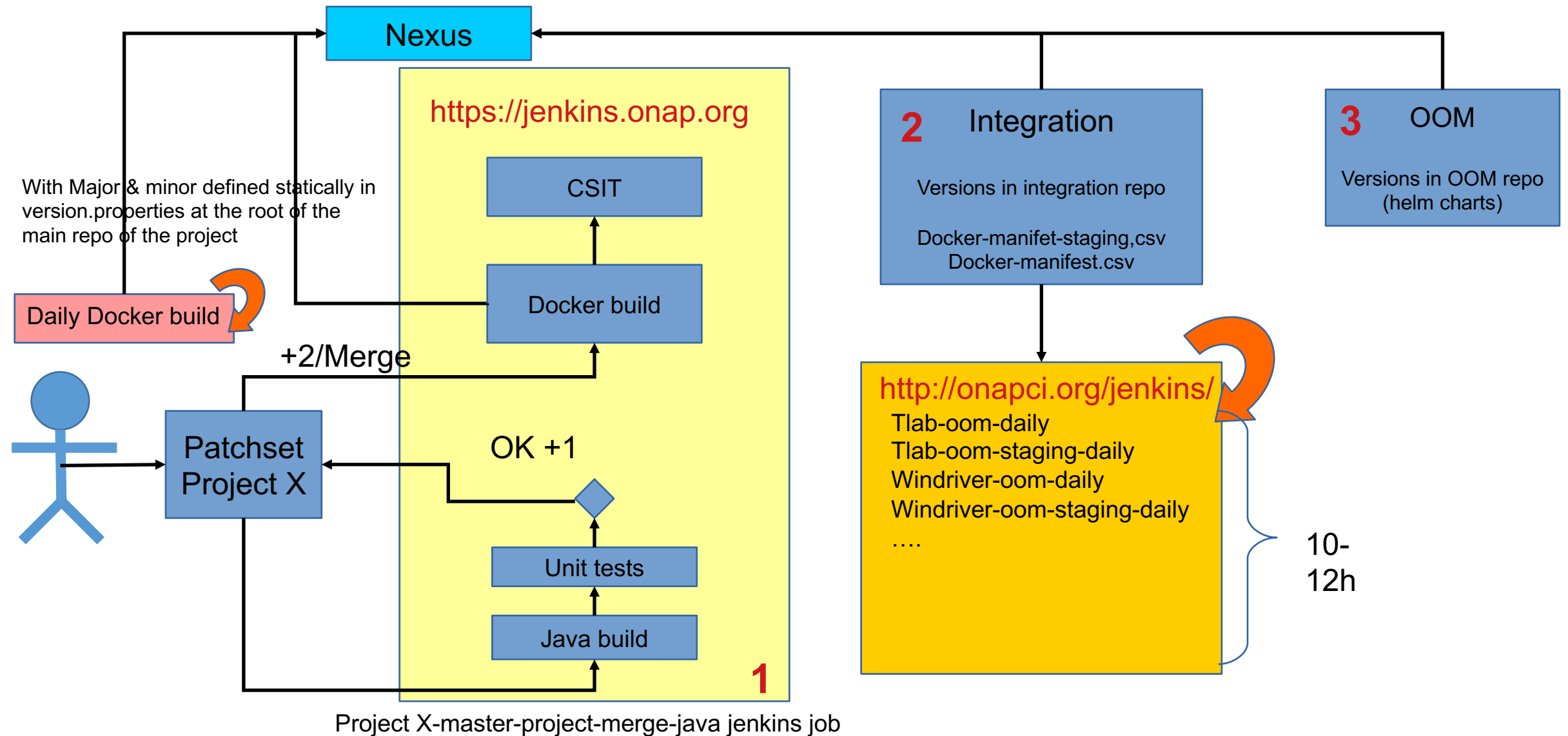# ONAP version management

Morgan Richomme, Sylvain Desbureaux, Orange Labs
contributions: Yang Xu, Gary Wu

February 7th , 2019

Today (our understanding ... sorry to be late at the party)

Nexus

https://jenkins.onap.org

CSIT

Docker build

With Major & minor defined statically in version.properties at the root of the main repo of the project

Daily Docker build

+2/Merge

Patchset Project X

OK +1

Unit tests

Java build

1

Project X-master-project-merge-java jenkins job

2 Integration

Versions in integration repo

Docker-manifet-staging,csv
Docker-manifest.csv

3 OOM

Versions in OOM repo (helm charts)

http://onapci.org/jenkins/
Tlab-oom-daily
Tlab-oom-staging-daily
Windriver-oom-daily
Windriver-oom-staging-daily
....

10-12h

Today (our understanding ... sorry to be late at the party)

Nexus (staging images kept for 25 days – probably longer on mirrors)

Project	Integration	OOM

Project

Static declaration **version.properties**

Used to create on +2/merge and/or on daily docker build

- Snapshot
- images

But **no link between the version and the code**

Integration

Ref official versions

Historically 2 installers

- Heat
- OOM

Need 1 ref ➔ Integration

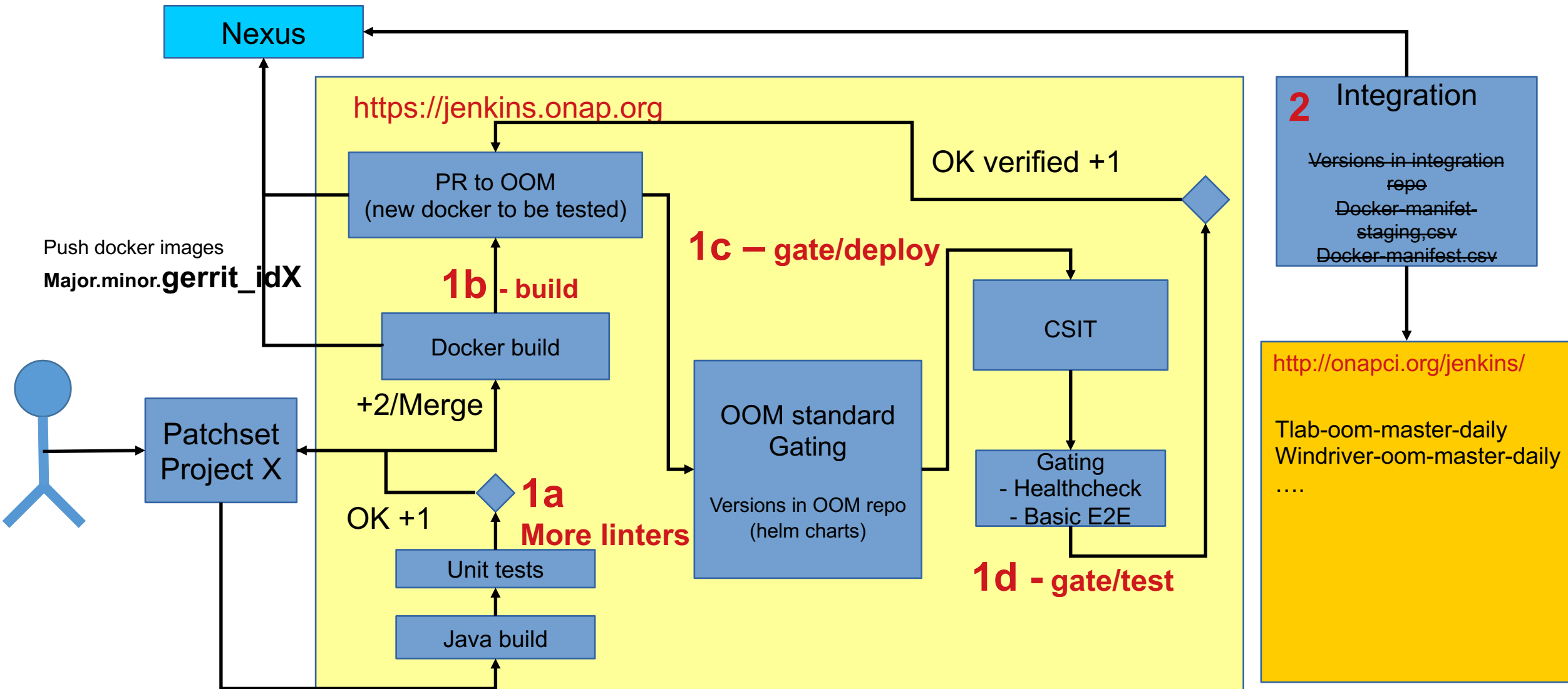But now only 1 installer

OOM

Also up to the project developers to commit in OOM **helm charts**

➔ migration to the helm chart under the responsibility of the project

3 human commits to manage the version...high risk of inconsistency

For Discussion

Nexus

https://jenkins.onap.org

2 Integration

~~Versions in integration repo~~
~~Docker-manifet-staging.csv~~
~~Docker-manifest.csv~~

PR to OOM
(new docker to be tested)

OK verified +1

1c – gate/deploy

Push docker images
Major.minor.gerrit_idX

1b - build

CSIT

Docker build

+2/Merge

OOM standard
Gating

Versions in OOM repo
(helm charts)

Gating
- Healthcheck
- Basic E2E

Patchset
Project X

1a

OK +1   **More linters**

1d - gate/test

Unit tests

Java build

http://onapci.org/jenkins/

Tlab-oom-master-daily
Windriver-oom-master-daily
....

Goals

Goal	Proposal
Have a better control of the code we are testing	• Docker naming change : introduction of unique id (gerrit id) rather than static value • Remove manifest (consider helm chart as reference)
Ensure more stability on Master (Rolling release) to ensure a smoother integration	• Introduce a PR to OOM on any change on Master, any new change would trigger a deployment and test sequence • Ref versions are in the helm chart
« Blame » the right people as soon as possible	Gerrit vote on each patchset submission

For discussion: docker naming

Today lots of docker staging for a given docker e.g. aai babel
- Most of them are coming to daily build (similar to day N-1)
- Hard to know precisely what the docker contains

Using gerrit ID we would lead to (for aai-babel)
- 14.0-staging-78241 (12/2)
- 14.0-staging-77888 (11/2)
- 14.0.staging-77905 (6/2)
- 14.0.staging-77875 (6/2)
- 14.0.staging-77455 (30/1)

1.4.0-SNAPSHOT-20190212T132524Z
1.4.0-SNAPSHOT-20190213T132552Z
1.4.0-SNAPSHOT-20190214T132509Z
1.4.0-STAGING-20190120T132402Z
1.4.0-STAGING-20190121T132509Z
1.4.0-STAGING-20190122T132529Z
1.4.0-STAGING-20190123T132721Z
1.4.0-STAGING-20190124T132516Z
1.4.0-STAGING-20190125T132609Z
1.4.0-STAGING-20190126T132516Z
1.4.0-STAGING-20190127T132534Z
1.4.0-STAGING-20190128T132537Z
1.4.0-STAGING-20190129T132320Z

docker	Nb staging dockers (2019)	Due to patchset change (2019)
aai-babel	50 25 x 1.3.3-staging 25 x 1.4.0-staging	6
so	~ 60 1 x 1.3.0-staging 1 x 1.3.1-staging … 1 x 1.3.6-staging 28 x 1.3.7-* 27 x 1.3.8-*	109

No more need of daily build
https://gerrit.onap.org/r/#/q/project:aai/babel

https://nexus3.onap.org/#browse/browse:docker.public:v2%2Fonap%2Fbabe

For discussion : gating resources

- Systematic gating will require machine (deploying 1 single instance of ONAP is costly)

Date	Number of merges	Cumulative nb of merges (X to now)	Relative merge activity	Average nb of merge rate*	ONAP needed**
September	2600	9700	27 %	100 merges / day	9
October	1950	7100	20 %	72	6
November	2200	5150	23 %	81	7
December	1000	2950	10 %	38	4
January 2019	1250	1950	13 %	48	4
February	700	700	7 %	28	3

CASA

CASA MR

* : Hypothesis Nb days(month) – nb full weeks (month)
** : OOM Gating = 2h, 12 gating / day max

Currently in orange Openlab : 8 ONAP managed in // on
- 3 servers for OpenStack control (could be 1)
- 13 computes nodes (and by the way thanks again Huawei as half of them are lent by you ☺) : 2 times 16 cores and 256G RAM
- 3 storage node

For discussion : gating resources

- Systematic gating will require machine (deploying 1 single instance of ONAP is costly)

	Date	Number of merges	Cumulative nb of merges (X to now)	Relative merge activity	Average nb of merge rate*	ONAP needed**
CASA MR	February	1500	9350	16 %	63 merges / day	5
	March	2150	7850	23 %	83	7
	April	2750	5700	29 %	106	9
	May	2300	2950	25 %	92	8
DUBLIN	June	650	650	7 %	108	9

* : Hypothesis Nb days(month) – nb full weeks (month)
** : OOM Gating = 2h, 12 gating / day max

Currently in orange Openlab : 8 ONAP managed in // on
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For discussion: blame the right people ASAP

Tests Detailed view

Feedback Deployment + Test in Gerrit

Duration

Gating - deploy

Gating - test

Open Questions

Nexus : diff between snapshots and images? Do we need snapshots?

Nexus : nexus policy to keep staging versions? => 25 days? Could be less...

Shall we use OOM and install it for CSIT (core/small/medium/full + custom to be added depending on the project)?

Assuming that heat installation is no more considered, shall we move the trust-ability to the helm chart (in OOM or under the project) to have only 1 source?

What are the criteria to move from staging to official? Gating? Integration Tests? Project decision?

Shall staging docker not include a ref to the code it corresponds to…e.g. 3.9.77943 for https://gerrit.onap.org/r/#/c/77943/? 3.9 => until Dublin is created, gerrit ID unique and provide a link between the docker and its code content

Build docker in Maven: is it really a good idea? Shall it not be decoupled (as it could be triggered if OOM gating OK)?

ONAP
OPEN NETWORK AUTOMATION PLATFORM

Illustration: CI chain using OOM master

Service Design and Creation / SDC-2096

SDC-FE installation fails

Edit | Comment | Assign | More ⌄ | Submit | Stop Progress | Close

⌄ **Details**

Type:	🔲 Bug	Status:	**IN PROGRESS** (View Workflow)
Priority:	⬆ High	Resolution:	Unresolved
Affects Ve			
Compone			
Labels:			

⌄ 🔘 **Shrikant Awachar** added a comment - Yesterday

Code is already pushed in 16-Jan-2019.
Can you please use sde-fe image   "onap/sdc-frontend:1.4-STAGING-latest"

In the SDC-FE example

Sdc repo:
version properties 1.4.0

Integration:
Docker-staging: onap/sdc-frontend:1.4-STAGING-latest
Docker: onap/sdc-frontend:1.3.4

OOM:
Master: onap/sdc-frontend: **1.3.5**
Casablanca: onap/sdc-frontend: **1.3.6**
3.0.0-ONAP: onap/sdc-frontend: **1.3.5**

Tag
1.3.7
1.3.6
3.0.0-ONAP
1.3.5
1.3.4
1.3.3
1.3.2
1.3.0
2.0.0-ONAP
v1.2.0
1.0.0-ONAP
v1.1.0
1.0.0-Amsterdam

??

?
Tautologic naming
We know it is ONAP...

Changed on the 15 of November 2018
No git tag (tags only on official releases
created by Jessica (LF))

Explains why the gate was broken
As the fix has been provided in 1.4-staging but not
reported in 1.3.x
Moreover 1,4-staging is generic => impossible to
know precisely which code it is..1.4-staging
overwritting after each +2/merge

Casablanca version >
Master ??

ONAP
OPEN NETWORK AUTOMATION PLATFORM

High Level View of what we want (OOM Case)

1. Want to push new code

2. Code change notification

3. Trigger an automatic deployment of ONAP via OOM

GIT Repo

ONAP CI/CD infrastructure

On Demand Onap deployment Including submitted patch

deployment

Automatic Tests

test

4a. If deployment successful, trigger automatic tests

4b. If deployment not successful, checkbot vote -1

5a. Tests OK, checkbot vote +1

5b. Tests NOK, checkbot vote -1