



CentOS

PACKAGING OPENSIFT ORIGIN KUBERNETES DISTRIBUTION (OKD)

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What is CentOS?

- ▶ Community-supported distribution
- ▶ Derived from sources freely provided by Red Hat
- ▶ Aims to be compatible with RHEL

CentOS Special Interest Groups

- ▶ Working groups within the community
- ▶ Focus on development along a specific topic
- ▶ Must relate to CentOS or an use case in CentOS

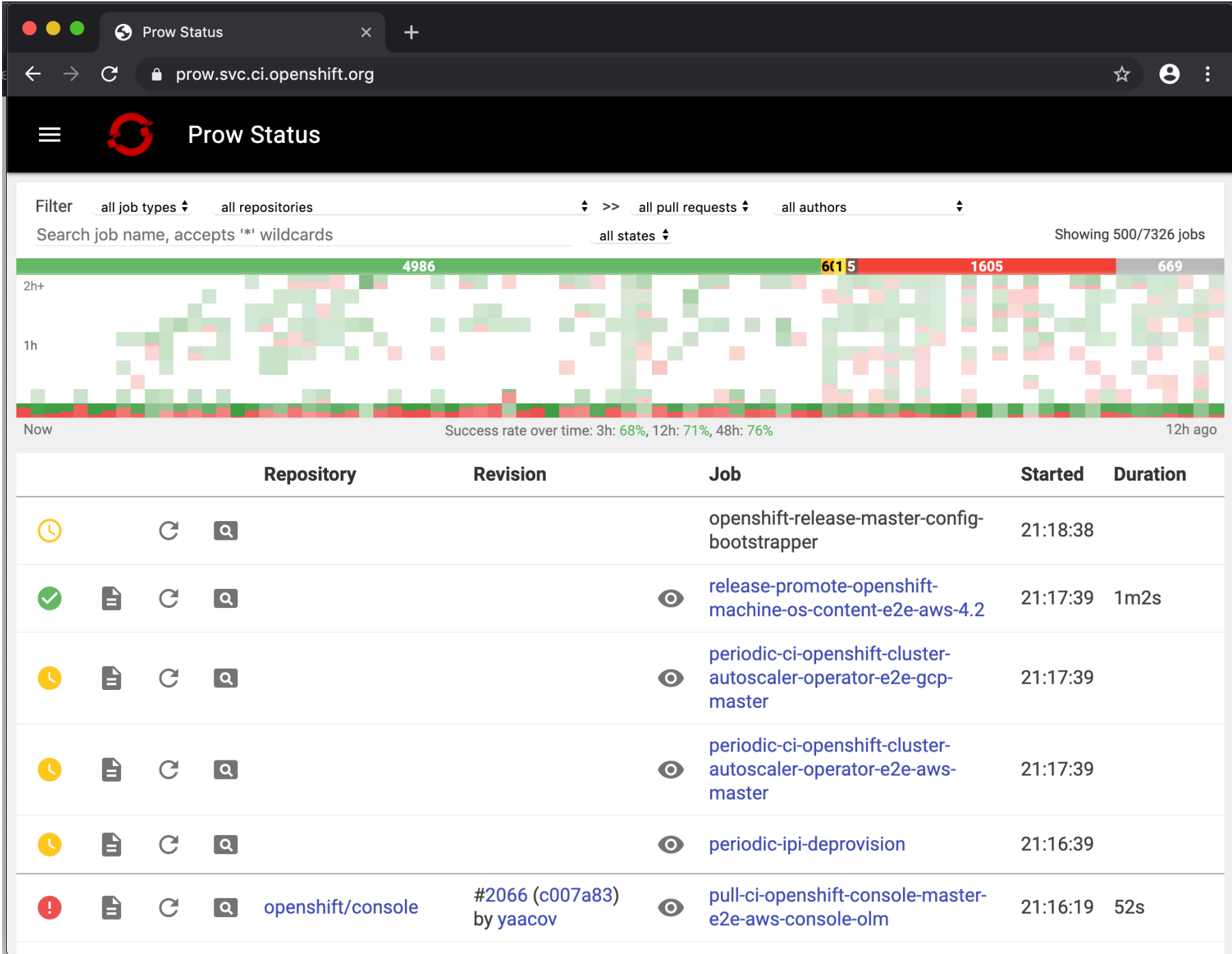
Some SIGs Currently Active:

- ▶ Config Management
 - Releases public vagrant boxes
- ▶ Cloud
 - Releases RDO (OpenStack RPMs)
- ▶ Software Collections
 - Build and distribute packages via centos.org as well as SoftwareCollections.org

What is the Platform as a Service SIG?

- ▶ Focused on PaaS, primarily OKD v3
- ▶ Builds in various targets
- ▶ Provides a quick start guide for end users to get started with OKD on their own installs

Who manages OKD images?



What is our building criteria?

- ▶ We only support the upstream OpenShift Origin support model
- ▶ We do not remove older versions from our repositories
- ▶ We also maintain older releases in their own repos (origin<release>)

What tools do we use?

- ▶ CentOS relies on partners donating compute and network support
- ▶ All work runs on CentOS compute
- ▶ The community helps also by mirroring content across the planet

What tools do we use?

▶ Koji

- RPM-based build system
- Also internally referred as CBS - Community Build System
- Builds for specific architectures and ensure that they build correctly

What tools do we use?



▶ Ansible

- Orchestrates the source RPM build
- Executes the target build using the source RPM

What tools do we use?



▶ GitHub

- Hosts the SIG automation code on
 - ▶ <https://github.com/CentOS-PaaS-SIG/paas-sig-ci>
- Hosts the upstream Origin code
 - ▶ <https://github.com/openshift/origin>
 - ▶ <https://github.com/openshift/openshift-ansible>

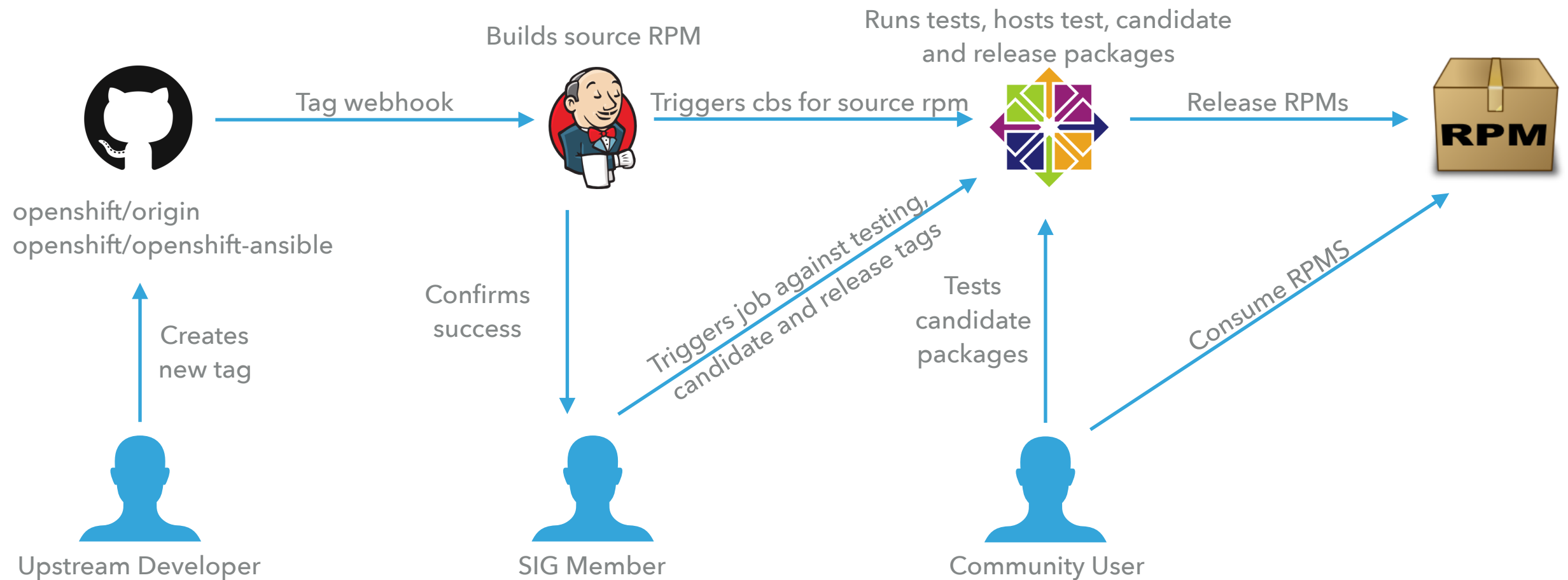
What tools do we use?



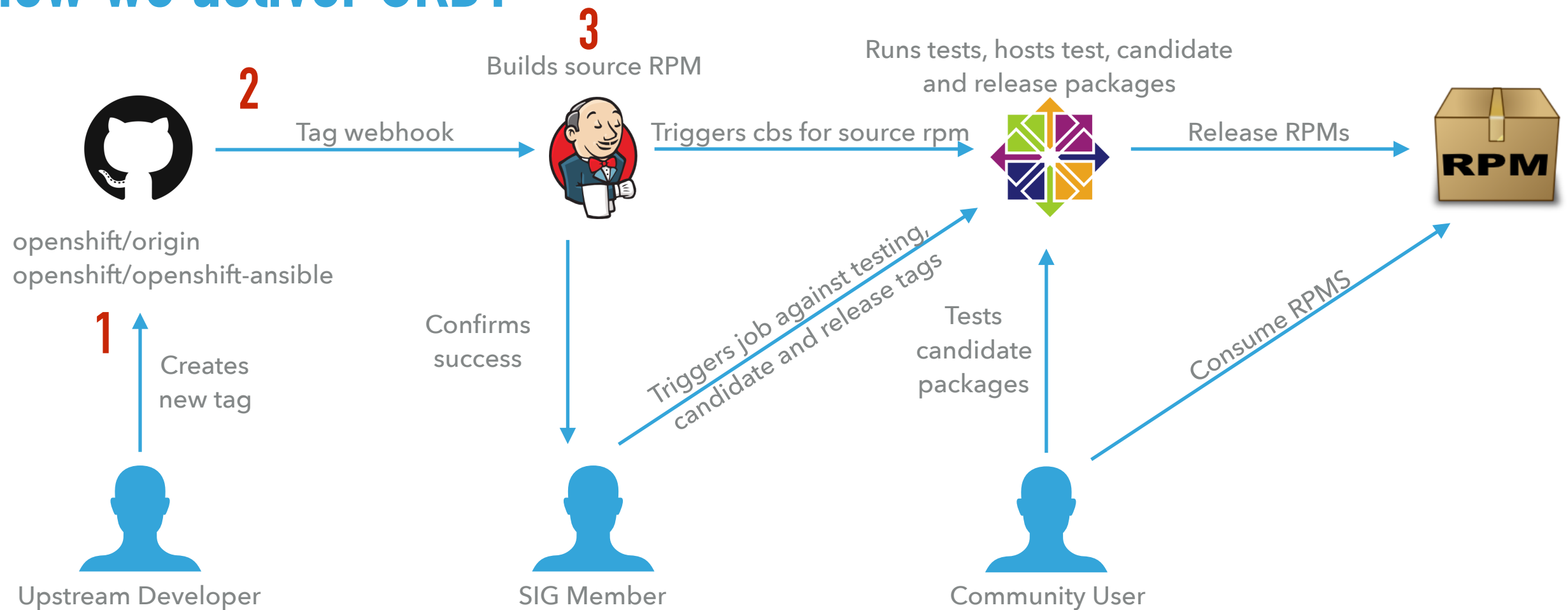
► Jenkins

- De facto CI server for CentOS
- Watches origin and openshift-ansible tags (<https://ci.centos.org/job/paas-ci-cd-trigger/>)
- Runs Ansible against triggered tags or following a schedule (<https://ci.centos.org/job/paas-ci-cd/>)

How we deliver OKD?

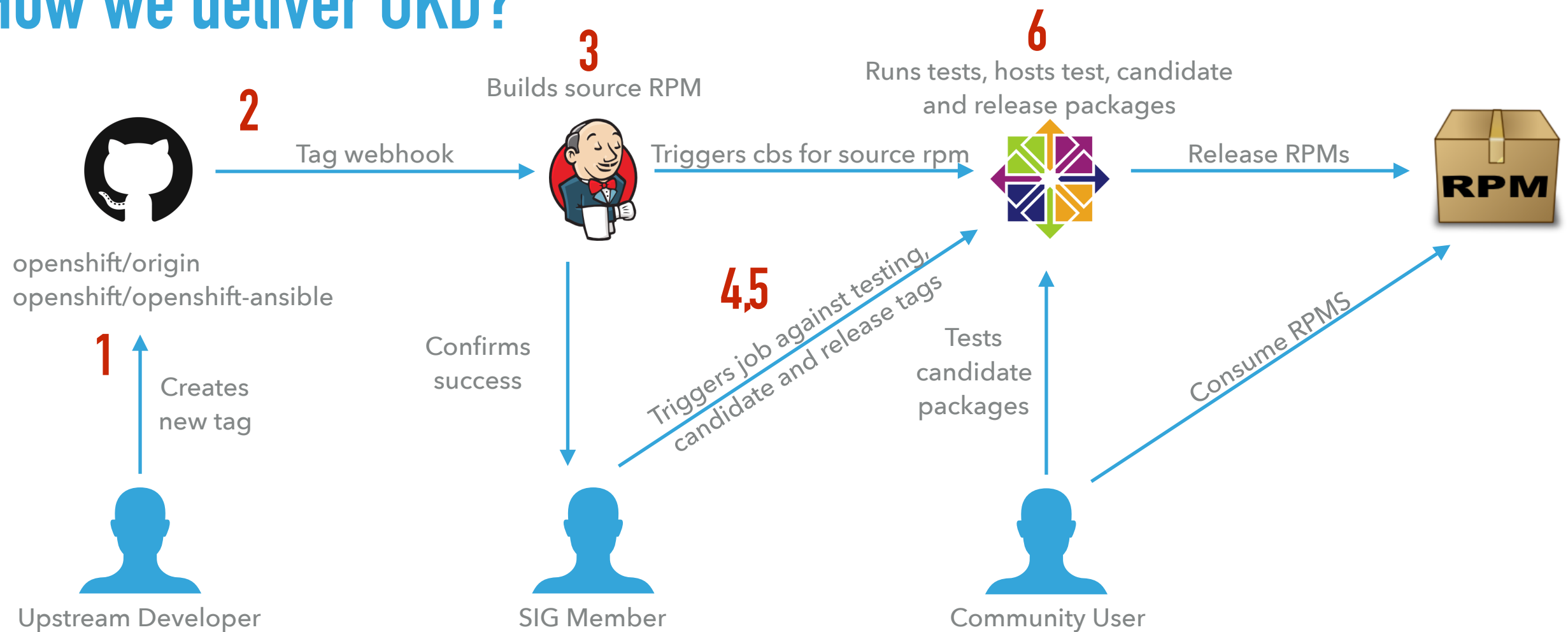


How we deliver OKD?



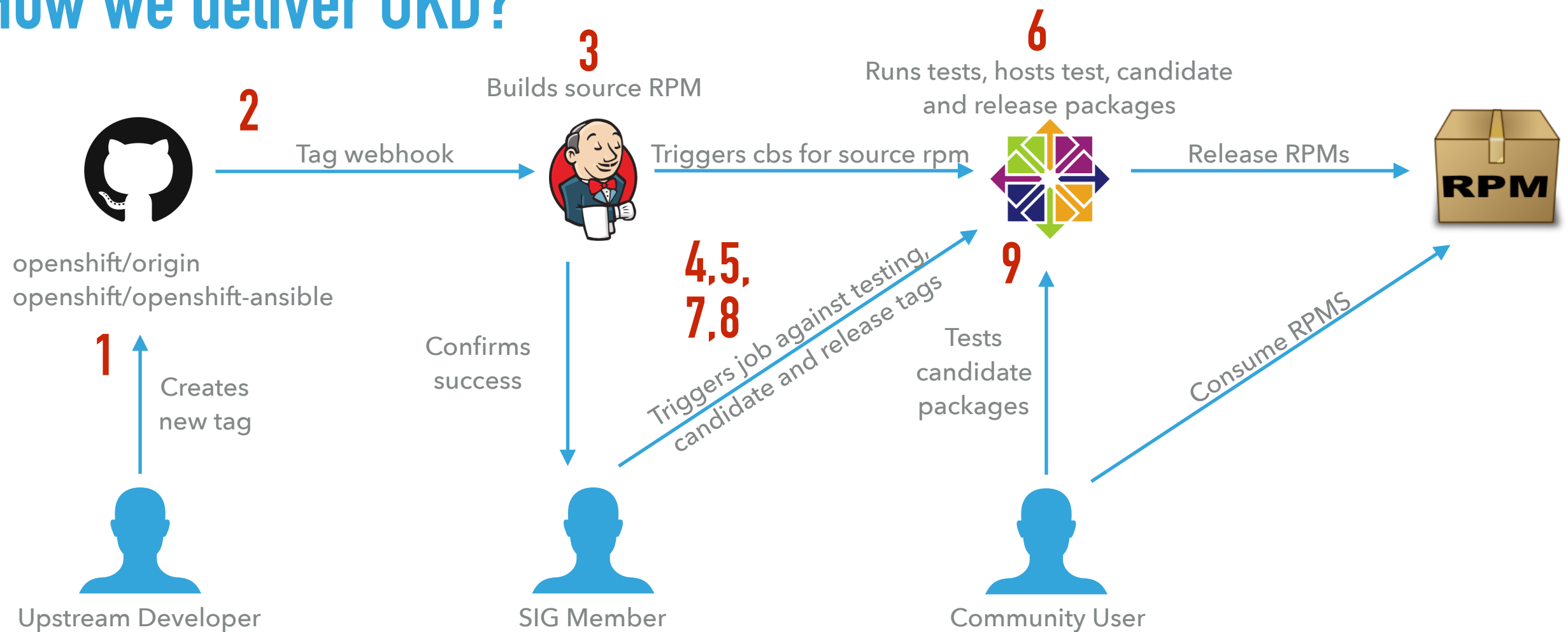
1. Starts by tagging either `openshift/origin` or `openshift/openshift-ansible`
2. Jenkins respond by starting a source RPM build for that tag
3. Jenkins also builds source rpms every 3 hours

How we deliver OKD?



4. PaaS SIG member raises a request for a testing repo
5. Once repo is created, we run cbs to tag against test repo
6. As soon as the repo is populated, an automated suite tests the RPMs

How we deliver OKD?

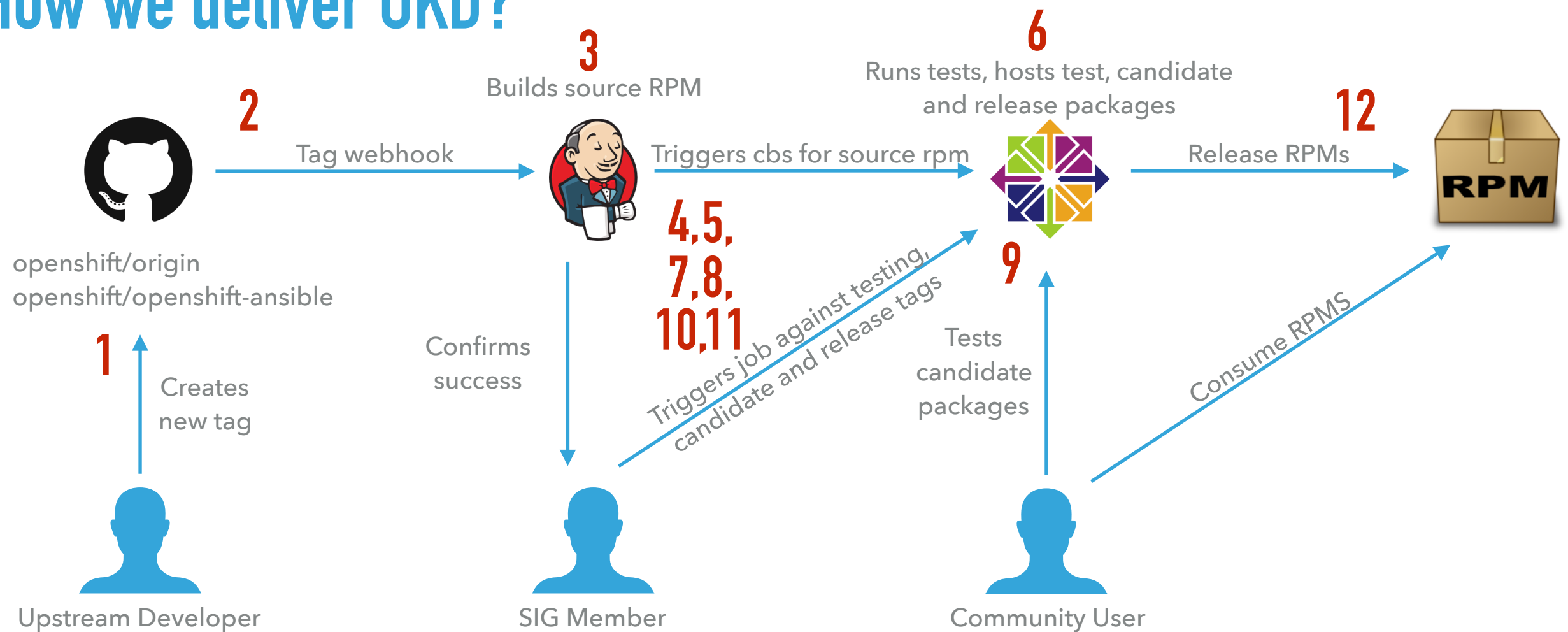


7. Next, we raise a request for a candidate repo

8. Once repo is created, we run cbs to tag against that repo

9. Then, we request to the community to download and tests the packages

How we deliver OKD?



10. Finally, we raise a request for a release repo

11. Once repo is created, we run cbs to tag against release

12. RPMs are delivered to main mirror

How can you help?

- ▶ Testing release-candidates
- ▶ Providing feedback:
 - Via centos/centos-devel mailing lists
 - On #openshift-users and #openshift-dev on Kubernetes Slack
 - At @centos on twitter

How can you help?

- ▶ Contact us on #centos and #centos-devel on irc.freenode.net:
 - Larry Brigman (brig-man)
 - Daniel Comnea (DanyC)
 - Ricardo Martinelli (rmartinelli)
 - Scott Dodson (sdodson)
 - Gleidson Nascimento (SlaterX)
 - Troy Dawson (tdawson)



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