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CloudNativeCon

Europe 2019

Intro: CNCF CI

Lucina Stricko & Denver Williams,
Vulk Cooperative & CNCF

Meet Vulk Cooperative



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vulk.coop

- Worker-owned software consultancy
- Celebrating 5 years in operation
- 4 worker-owners, 5-10 associates
- Geographically distributed team
- Meetups in Austin, TX
 - Austin Software Co-operatives
 - Open Source Axes
- twitter.com/vulkcoop
- twitter.com/opensourceaxes

Agenda



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- **Team**
- **Project Intro**
- **Goals**
- **Key features**
- **Walk-through of cncf.ci**
- **Tech Overview**
- **Roadmap**
- **Get Involved**
- **Q&A [10-15 minutes]**

Meet the CNCF CI team



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- **W. Watson**
[@wavell](#)
- **Lucina Stricko**
[@lixuna](#)
- **Denver Williams**
[@denverwilliams](#)
- **Taylor Carpenter**
[@taylor](#)
- **Joshua Smith***
[@nupejosh](#)
- **Robert Siekmann***
[@rsiekmann](#)
- **Krista Williams***
[@rystakei](#)



CNCF CI Intro



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The CNCF CI project consists of a CI testing system, status repository server and a dashboard -- cncf.ci.

CNCF CI Intro



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The CNCF CI project consists of a **CI testing system**, status repository server and a dashboard -- `cncf.ci`.

The **CI testing system** validates the build and deployment of each CNCF project for any commit on stable and HEAD to x86 and Arm architectures on bare metal (Packet) servers.

The **CI testing system** can reuse existing artifacts from a project's preferred CI system or generate new build artifacts.

CNCF CI Intro



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The CNCF CI project consists of a CI testing system, **status repository server** and a **dashboard** -- `cncf.ci`.

The CI testing system validates the build and deployment of each CNCF project for any commit on stable and HEAD to x86 and Arm architectures on bare metal (Packet) servers.

The CI testing system can reuse existing artifacts from a project's preferred CI system or generate new build artifacts.

The **status repository server** collects the test results and the **dashboard** displays them.

CNCF CI Goals



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CNCF.CI Goals:

- To compliment the CNCF landscape and trail map -- l.cncf.io

CNCF CI Goals



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CNCF.CI Goals:

- To compliment the CNCF landscape and trail map -- l.cncf.io
- To promote CNCF hosted projects and help attract more projects to CNCF

CNCF CI Goals



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CNCF.CI Goals:

- To compliment the CNCF landscape and trail map -- l.cncf.io
- To promote CNCF hosted projects and help attract more projects to CNCF
- To demonstrate the use of cloud native technologies on multiple test environments

CNCF CI Goals



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CNCF CI Goals



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CNCF CI Goals



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CNCF.CI Goals:

- To compliment the CNCF landscape and trail map -- l.cncf.io
- To promote CNCF hosted projects and help attract more projects to CNCF
- To demonstrate the use of cloud native technologies on multiple test environments
- To support and contribute to a sustainable and scalable project ecosystem
- To get feedback from cloud native end users and projects
- To provide a third party, unbiased validation of build, deploy and e2e tests for CNCF Graduated and Incubating projects

Goal: Target CNCF Projects



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Graduated



kubernetes



Prometheus



envoy



CoreDNS



container



fluentd

Incubating



OPENTRACING



gRPC



rkt



CNI



JAEGER



TUF



Notary



Vitess



NATS



LINKERD



HELM



ROOK



HARBOR



etcd



Open Policy Agent



cri-o

Goal: Target ONAP SO Project



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Goal: Target ONAP SO Project



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CNCF Launches Cross-Cloud CI Project &
Adds ONAP Networking Project to
Dashboard Overview

Goal: Target ONAP SO Project



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CNCF Launches Cross-Cloud CI Project &
Adds ONAP Networking Project to
Dashboard Overview

“...Our CNCF demo at ONS will illustrate to carriers that Kubernetes and ONAP are key to the future of network virtualization.”

- Dan Kohn, CNCF executive director



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Review of CNCF CI v1 (formerly known as Cross-Cloud CI)

Review: Cross-Cloud CI v1



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CI DASHBOARD: Overview

🕒 Last updated 16 hours ago

Project	Build		Release	Deployments						
	Status	Stable Head	AWS	Azure	GCE	IBM Cloud	Bare Metal (Packet)	OpenStack	VMware vSphere	Oracle Cloud Infrastructure
Kubernetes Orchestration	🟢 SUCCESS	v1.12.2	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	dde084f	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
Prometheus Monitoring	🟢 SUCCESS	v2.4.3	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	8b91d39	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
CoreDNS Service Discovery	🟢 SUCCESS	v1.2.5	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	95c9e14	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
Fluentd Logging	🟢 SUCCESS	v1.2.6	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	3dabdc5	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
Linkerd Service Mesh	🟢 SUCCESS	1.5.1	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	36dc2c9	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
Envoy Service Mesh	🟢 SUCCESS	v1.8.0	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	0ebe247	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
ONAP Network Automati	🟢 SUCCESS	v1.1.1	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS
	🟢 SUCCESS	9a3841e	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS	🟢 SUCCESS

Quick Look: CNCF CI v2



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CI DASHBOARD: Overview

🕒 Last updated: 12 hours ago

Test environment

Kubernetes → Stable v1.13.0 → Bare Metal (Packet) → **SUCCESS**

Project	Release	Build	Deploy	Test
CoreDNS Service Discovery	v1.5.0 2ef55f8	SUCCESS	SUCCESS	N/A
		SUCCESS	SUCCESS	N/A
Envoy Service Mesh	v1.10.0 829b905	FAILED	RUNNING	N/A
		FAILED	RUNNING	N/A
Fluentd Logging	v1.4.2 3ac6966	SUCCESS	SUCCESS	N/A
		SUCCESS	SUCCESS	N/A
Prometheus Monitoring	v2.9.2 04f2270	SUCCESS	SUCCESS	N/A
		SUCCESS	SUCCESS	N/A
Linkerd Service Mesh	1.6.2 603261b	SUCCESS	RUNNING	N/A
		SUCCESS	SUCCESS	N/A
ONAP SO Network Automation	v1.1.1 24ad960	SUCCESS	SUCCESS	N/A
		FAILED	RUNNING	N/A

Quick Look: CNCF CI v2



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CI DASHBOARD: Overview

🕒 Last updated: 12 hours ago



Project



CoreDNS
Service Discovery

Release



Build

✓ SUCCESS

✓ SUCCESS

Deploy

✓ SUCCESS

✓ SUCCESS

Test

⊘ N/A

⊘ N/A



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Key Features of CNCF CI v2

Key Features: CNCF CI v2



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1. Project-centric -- highlight and validate CNCF Hosted Graduated and Incubating projects:

- Validate stable and HEAD releases of Graduated and Incubating projects
- Re-use build containers that are provided by a project's CI System
- Re-use upstream Helm charts
- Re-use end-to-end tests provided by projects

Key Features: CNCF CI v2



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2. Collaboration -- increase engagement with CNCF

Project maintainers:

- Maintainers can update project and release details via GitHub PR
- CI Testing System will integrate with external CI systems to retrieve a CNCF Project's build status and container artifacts
- Maintainers can provide Helm charts and smoke tests for deploy phase
- Maintainers can provide end-to-end tests for test phase

Key Features: CNCF CI v2



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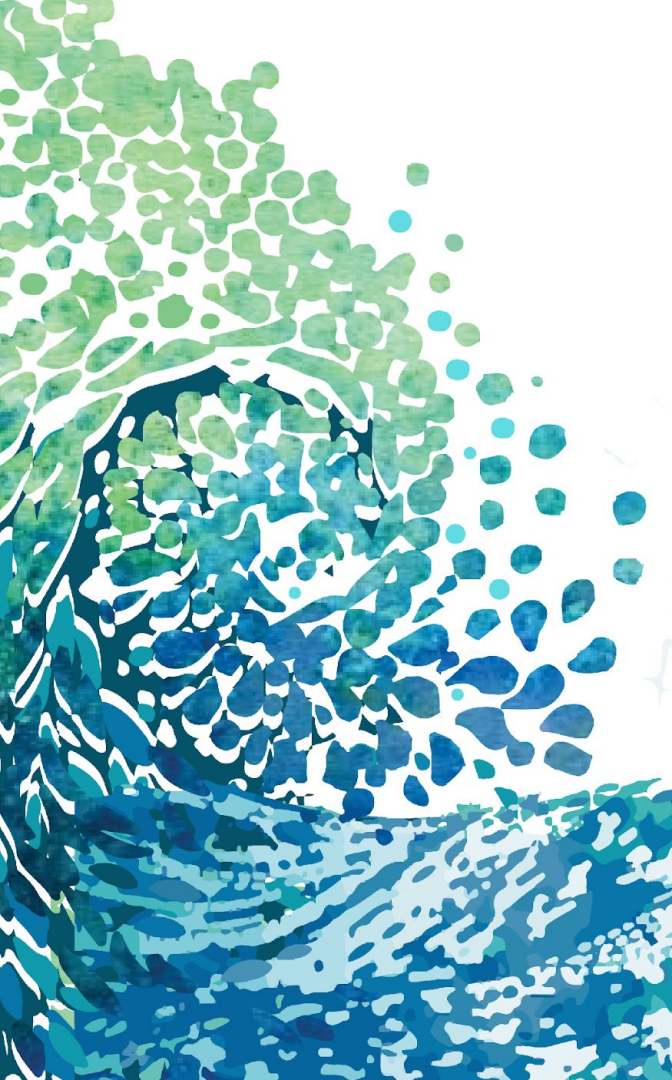


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3. Agnostic testing -- validate projects in a configurable test environment:

- Per Kubernetes Release
 - Stable
 - HEAD
- Per Architecture
 - X86
 - Arm
- Bare Metal
 - Packet.net



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Dashboard Walk-through

Walk-through: CNCF CI v2



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CI DASHBOARD: Overview

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Kubernetes → Stable v1.13.0 → Bare Metal (Packet) → **SUCCESS**

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		FAILED	RUNNING	N/A
Fluentd Logging	v1.4.2 3ac6966	SUCCESS	SUCCESS	N/A
		SUCCESS	SUCCESS	N/A
Prometheus Monitoring	v2.9.2 04f2270	SUCCESS	SUCCESS	N/A
		SUCCESS	SUCCESS	N/A
Linkerd Service Mesh	1.6.2 603261b	SUCCESS	RUNNING	N/A
		SUCCESS	SUCCESS	N/A
ONAP SO Network Automation	v1.1.1 24ad960	SUCCESS	SUCCESS	N/A
		FAILED	RUNNING	N/A

Walk-through: CNCF CI v2



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CI DASHBOARD: Overview

🕒 Last updated: 6 minutes ago

Test environment

Kubernetes — Stable v1.13.0 —> Bare Metal (Packet) —> **SUCCESS**

Project

Release

Build

Deploy

Test



CoreDNS
Service Discovery

v1.5.0
2ef55f8

SUCCESS

SUCCESS

SUCCESS

SUCCESS

N/A

N/A

cncf.ci

Walk-through: CNCF CI v2



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CI DASHBOARD: Overview

🕒 Last updated: 6 minutes ago

Test environment

 **Kubernetes** → **Stable v1.13.0** → **Bare Metal (Packet)** → **SUCCESS**

Project

 **CoreDNS**
Service Discovery

Project	Build	Deploy	Test
Stable v1.13.0 Arm	SUCCESS	SUCCESS	N/A
Head 5354f8b	SUCCESS	SUCCESS	N/A
Head 5354f8b Arm	SUCCESS	SUCCESS	N/A

Walk-through: CNCF CI v2



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↻ cncf.ci @ #KubeCon 🇪🇸 Retweeted



Sean Kerner @TechJournalist · May 16

ok @cra this headline also writes itself.

[@CloudNativeFdn](#) (CNCF) Arms Itself with Graduated Project Support



cncf.ci @ #KubeCon 🇪🇸 @cncfci · May 16

[ANNOUNCEMENT] v2.4.0 of the @CloudNativeFdn #CNCF CI Dashboard has been released to cncf.ci !

What's new:

- ★ @Arm support for @corednsio
- ★ @Arm support for @fluentd
- ★ @Arm support for @PrometheusIO

📖 Read all about it! github.com/crosscloudci/c...

Walk-through: CNCF CI v2



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CI DASHBOARD: Overview

🕒 Last updated: 6 minutes ago



Project	Release	Build	Deploy	Test
CoreDNS Service Discovery	v1.5.0	✓ SUCCESS	✓ SUCCESS	🚫 N/A
	2ef55f8	✓ SUCCESS	✓ SUCCESS	🚫 N/A

GitLab: Build job > CoreDNS > Arm




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← → ↻ 🔒 https://gitlab.cncf.ci/coredns/coredns/-/jobs/179344 ☆ 🏠 🌐 📄 4 📄 ⌵ Paused 🗨️ ⋮

☰  CoreDNS / coredns 🔍 This project Search [Sign in](#)

Project Repository Registry Pipelines Members

Pipelines **Jobs** Schedules Charts

🟢 passed Job #179344 triggered about an hour ago by  denverwilliams

```
Running with gitlab-ci-multi-runner 1.11.5 (cbfcb5c)
  on CNCF (14a13103)
Using Docker executor with image crosscloudci/debian-go ...
Pulling docker image crosscloudci/debian-go ...
Running on runner-14a13103-project-9-concurrent-1 via 0ffd54e9d0ce...
Fetching changes...
HEAD is now at e3f9a80 WIP: travis changes (#2766)
Checking out e3f9a80b as v1.5.0...
Skipping Git submodules setup
$ export BASE_URL=${BASE_URL:-$(echo $CI_PROJECT_URL | cut -d '/' -f1-3)}
$ export CI_COMMIT_SHA_SHORT=$(echo ${CI_COMMIT_SHA} | cut -c -8)
$ if [ -z "$CROSS_CLOUD_YML" ]; then
$ export CROSS_CLOUD_YML="$CROSS_CLOUD_YML"
$ fi

$ source /opt/local/etc/rvmrc ; source /opt/local/etc/profile.d/rvm.sh ; cp -a /opt/local/d
ashboard /dashboard ; pushd /dashboard ; source /opt/local/.env ; ./bin/update_dashboard ;
  popd
/dashboard /builds/14a13103/1/coredns/coredns
Project build pipeline id: 41443
```

The artifacts will be removed in 1 month remaining

[Download](#) [Browse](#)

Trigger

Token: 8471

DASHBOARD_API_HOST_PORT
productionapi.cncf.ci

CROSS_CLOUD_YML
https://raw.githubusercontent.com/cros-configuration/production/cross-cloud.yml

ARCH
arm64

Commit e3f9a80b 📄

WIP: travis changes (#2766)

Walk-through: CNCF CI v2



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CI DASHBOARD: Overview

🕒 Last updated: 6 minutes ago



Project	Release	Build	Deploy	Test
CoreDNS Service Discovery	v1.5.0	✓ SUCCESS	✓ SUCCESS	🚫 N/A
	2ef55f8	✓ SUCCESS	✓ SUCCESS	🚫 N/A

GitLab: Deploy job > CoreDNS > Arm



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← → ↻ <https://gitlab.cncf.ci/cncf/cross-project/-/jobs/179428> ☆ 🏠 🌐 📄 4 🖨️ ⏸️ 🧑

☰ Cloud Native Compute Foundation - CNCF / cross-project Search

Project Repository Registry Issues 0 Merge Requests 0 Pipelines Wiki Snippets Members

Pipelines **Jobs** Schedules Charts

🟢 passed Job #179428 triggered 57 minutes ago by denverwilliams

```
Running with gitlab-ci-multi-runner 1.11.5 (cbfcb5c)
  on CNCF (e78db166)
Using Docker executor with image crosscloudci/debian-helm-kubectrl:v2.7.2-v1.7.12 ...
Pulling docker image crosscloudci/debian-helm-kubectrl:v2.7.2-v1.7.12 ...
Running on runner-e78db166-project-45-concurrent-7 via 110225e6791f...
Fetching changes...
Removing data/
Removing kubeconfig
HEAD is now at b6956af Merge branch 'staging' of github.com:crosscloudci/cross-project into production
Checking out b6956afb as production...
Skipping Git submodules setup
Downloading artifacts for Build-Source (179426)...
Downloading artifacts from coordinator... ok      id=179426 responseStatus=200 OK token=P
WwzUEhC
Downloading artifacts for App-Deploy (179427)...
Downloading artifacts from coordinator... ok      id=179427 responseStatus=200 OK token=H
sZLE8f7
$ export BASE_URL=${BASE_URL:-$(echo $CI_PROJECT_URL | cut -d '/' -f1-3)}
$ export CI_COMMIT_SHA_SHORT=$(echo ${CI_COMMIT_SHA} | cut -c -8)
```

TARGET_PROJECT_NAME
coredns
TARGET_PROJECT_COMMIT_REF_NAME
v1.5.0
DEPLOYMENT_NAME
coredns-v150
DASHBOARD_API_HOST_PORT
productionapi.cncf.ci
CROSS_CLOUD_YML
https://raw.githubusercontent.com/crosscloudci/cross-project/production/cross-cloud.yml
ARCH
arm64

Commit [b6956afb](#)

Merge branch 'staging' of github.com:crosscloudci/cross-project into production

Walk-through: CNCF CI v2

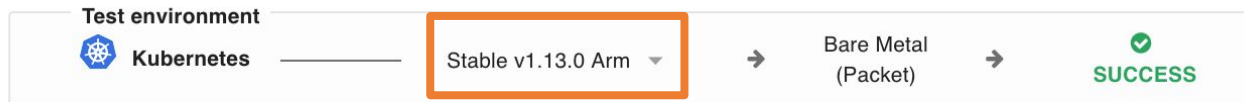


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Project	Release	Build	Deploy	Test
CoreDNS Service Discovery	v1.5.0	SUCCESS	SUCCESS	N/A
	118b0c9	SUCCESS	SUCCESS	N/A
Envoy Service Mesh	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
Fluentd Logging	v1.4.2	SUCCESS	SUCCESS	N/A
	31cd8ca	SUCCESS	SUCCESS	N/A
Prometheus Monitoring	v2.9.2	SUCCESS	SUCCESS	N/A
	6b95670	SUCCESS	SUCCESS	N/A

Walk-through: CNCF CI v2

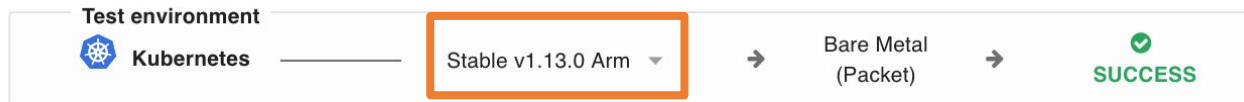


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	31cd8ca	SUCCESS	SUCCESS	N/A
Prometheus Monitoring	v2.9.2	SUCCESS	SUCCESS	N/A
	6b95670	SUCCESS	SUCCESS	N/A



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Tech Overview

Overview: CI Testing System



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- **Provisioning the K8s Test Environment**
- **Build pipeline per project** (optional, can use project's build artifacts)
- **App deployment pipeline per project**
- **E2e testing stage per project (future)**

Overview: Provisioning K8s



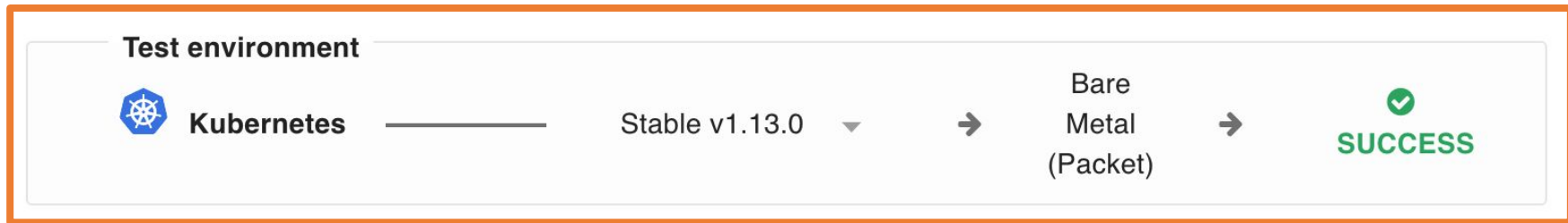
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1. **Artifacts:** Collect K8s artifact pinings from the previous K8s builds
2. **Test Environment Provisioning:** Provision Packet server and bootstrap K8s
3. **Update-Dashboard:** Update Test Environment status badge



Overview: Build Stage



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1. **Build:** Compile or retrieve binaries and e2e tests
2. **Package:** Create containers, create artifact pinning configuration and push to GitLab Docker registry
3. **Update-Dashboard:** Update build status badges

Project



CoreDNS

Service Discovery

Release



Build



Overview: App Deployment Stage



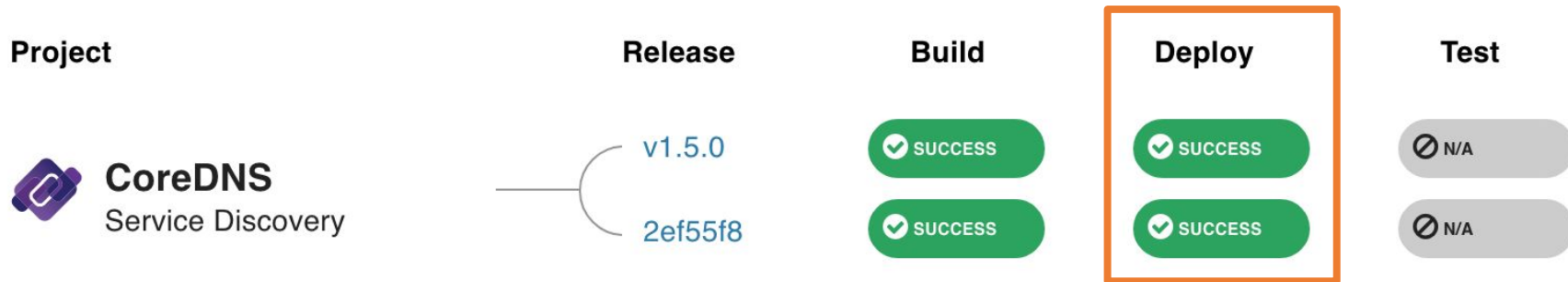
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1. **Artifacts:** Collect project artifact pinings from the previous build stages
2. **Cross-Project:** Use Helm charts to deploy each project
3. **Dashboard-Update:** Update deployment status badges



Tech Overview: CI Testing System



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- **Unified CI/CD platform:** GitLab
- **Test Environment provisioning:** Terraform and Cloud-init
- **App deployments:** K8s manifest management with Helm
- **Automated builds and deployments:** Git + per project yaml configuration

Tech Overview: Dashboard



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- **Frontend:** Vue.js
- **Status repository:** Elixir and Erlang



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Roadmap

CNCF CI Roadmap



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Date	Milestone	Features	Events
January 2019	n/a	Announce plan and design for cncf.ci v2.0	CI Working group
February 2019	v2.0	Release cncf.ci v2.0.0	CI Working group
March 2019	v2.1	Support managing project details from per project repositories	ONS NA (April 3-5)
April 2019	v2.2	Add K8s version selector dropdown to Test Environment	CI Working group
April 2019	v2.3	Add K8s Arm support to Test Environment	CI Working group
May 2019	v2.4	Add Arm support to CoreDNS, Prometheus, Fluentd, Envoy, Intro & Deep Dive on cncf.ci	KubeCon EU (May 20-23)

CNCF CI Roadmap



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June 2019	v3.0	Add Kubeadm/Kubespray to CI system, Update K8s Stable release	CI Working group
July 2019	v3.1	Add support for external contributions to cncf.ci to accelerate adding + maintaining projects, Add support for external contributions of end-to-end tests	CI Working group
August 2019	v3.2	Add + maintain Graduated and Incubating projects, Add project-type headers and alpha sorting	[TBD]
September 2019	v3.3	TBD: Add + maintain projects	ONS EU (Sept 23-25)
October 2019	v3.4	TBD: Add + maintain projects	[TBD]
November 2019	TBD	TBD: Intro and Deep Dive on cncf.ci	KubeCon NA (Nov 18-21)

<https://github.com/crosscloudci/crosscloudci/blob/master/ROADMAP.md>

Request for Contributions: E2e Tests



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Project

Release

Build

Deploy

Test



CoreDNS
Service Discovery

v1.5.0

✓ SUCCESS

✓ SUCCESS

⊘ N/A

2ef55f8



Envoy
Service Mesh

v1.10.0

⊘ N/A

cbd8d57

⊘ N/A



Fluentd
Logging

v1.4.2

⊘ N/A

f3a6066

⊘ N/A



Prometheus
Monitoring

v2.9.2

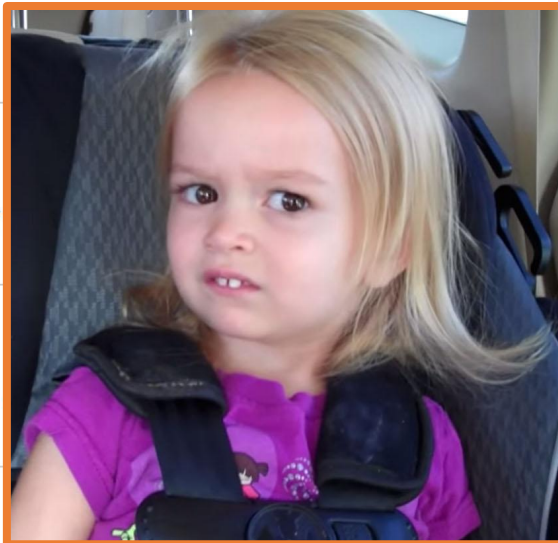
✓ SUCCESS

✓ SUCCESS

⊘ N/A

0a34399

⊘ N/A



CNCF CI Roadmap



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June 2019	v3.0	Add Kubeadm/Kubespray to CI system, Update K8s Stable release	CI Working group
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<https://github.com/crosscloudci/crosscloudci/blob/master/ROADMAP.md>

Upcoming Events



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CNCF CI Deep Dive at KubeCon EU 2019 > Topic: Adding Arm to cncf.ci

- Day: Wednesday, May 22
- Time: 11:05 - 11:40am
- Location: Hall 8.0 E4
- <https://sched.co/MPj8>

CI WG In-Person Lunch Discussion

- Day: Tuesday, May 21
- Time: 12:45 - 2pm
- Location: Fira Gran Via, Hall 7 + 8.1

CI WG Public Meetings

- Day: 4th Tuesday of month > **Next Meeting: June 25th**
- Time: 11:00am Pacific Time (US and Canada)
- Location: <https://zoom.us>



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Get Involved

How to Collaborate



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- **Join #cncf-ci on CNCF Slack:**
 - <https://slack.cncf.io>
- **Attend CI WG Public Meetings:**
 - <https://github.com/cncf/wg-ci>
- **Subscribe to the CNCF CI public mailing list:**
 - <https://lists.cncf.io/g/cncf-ci-public>
- **Create issues on GitHub:**
 - <https://github.com/crosscloudci/ci-dashboard/issues>

Connect with the Team



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@crosscloudci



@cncfci



@vulkcoop



cncfci@vulk.coop



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Q&A

Thank you!



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