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CloudNativeCon

Europe 2019

# Intro: CNCF CI

Lucina Stricko & Denver Williams,  
Vulk Cooperative & CNCF

# Meet Vulk Cooperative



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- 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](https://twitter.com/vulkcoop)
- [twitter.com/opensourceaxes](https://twitter.com/opensourceaxes)

[vulk.coop](http://vulk.coop)

# 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](https://twitter.com/wavell)
- **Lucina Stricko**  
[@lixuna](https://twitter.com/lixuna)
- **Denver Williams**  
[@denverwilliams](https://twitter.com/denverwilliams)
- **Taylor Carpenter**  
[@taylor](https://twitter.com/taylor)
- **Joshua Smith\***  
[@nupejosh](https://twitter.com/nupejosh)
- **Robert Siekmann\***  
[@rsiekmann](https://twitter.com/rsiekmann)
- **Krista Williams\***  
[@rystakei](https://twitter.com/rystakei)



# CNCF CI Intro

The CNCF CI project consists of a CI testing system, status repository server and a dashboard -- [cncf.ci](https://cncf.ci).

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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

## CNCF.CI Goals:

- To compliment the CNCF landscape and trail map -- [l.cncf.io](https://l.cncf.io)

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- To demonstrate the use of cloud native technologies on multiple test environments

# CNCF CI Goals



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- To get feedback from cloud native end users and projects

# CNCF CI Goals



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## CNCF.CI Goals:

- To compliment the CNCF landscape and trail map -- [l.cncf.io](https://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



OPEN TRACING



gRPC



rkt



CNI



JAEGER



TUF



Notary



Vitess



CoreDNS



containerd



fluentd



NATS



LINKERD



HELM



ROOK



HARBOR



etcd



Open Policy Agent



cri-o

## Incubating

# Goal: Target ONAP SO Project



# Goal: Target ONAP SO Project



---

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

# Goal: Target ONAP SO Project



---

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
Kubernetes Orchestration	v1.12.2 dde084f	v1.12.2									
		dde084f									
Prometheus Monitoring	v2.4.3 8b91d39	v2.4.3									
		8b91d39									
CoreDNS Service Discovery	v1.2.5 95c9e14	v1.2.5									
		95c9e14									
Fluentd Logging	v1.2.6 3dabdc5	v1.2.6									
		3dabdc5									
Linkerd Service Mesh	1.5.1 36dc2c9	1.5.1									
		36dc2c9									
Envoy Service Mesh	v1.8.0 0ebe247	v1.8.0									
		0ebe247									
ONAP Network Automati	v1.1.1 9a3841e	v1.1.1									
		9a3841e									

# Review: Cross-Cloud CI v1



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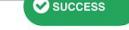
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— Europe 201



## 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
 <b>Kubernetes</b> Orchestration	 SUCCESS	v1.12.2	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS
	 SUCCESS	dde084f	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS
 <b>Prometheus</b> Monitoring	 SUCCESS	v2.4.3	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS
	 SUCCESS	8b91d39	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS
 <b>CoreDNS</b> Service Discovery	 SUCCESS	v1.2.5	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS	 SUCCESS
	 SUCCESS	95c9e14	 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

Project	Release	Build	Deploy	Test
<b>CoreDNS</b> Service Discovery	v1.5.0 2ef5518	<span>SUCCESS</span> <span>SUCCESS</span>	<span>SUCCESS</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>Envoy</b> Service Mesh	v1.10.0 829b905	<span>FAILED</span> <span>FAILED</span>	<span>RUNNING</span> <span>RUNNING</span>	<span>N/A</span> <span>N/A</span>
<b>Fluentd</b> Logging	v1.4.2 3ac6966	<span>SUCCESS</span> <span>SUCCESS</span>	<span>SUCCESS</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>Prometheus</b> Monitoring	v2.9.2 04f2270	<span>SUCCESS</span> <span>SUCCESS</span>	<span>SUCCESS</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>Linkerd</b> Service Mesh	1.6.2 603261b	<span>SUCCESS</span> <span>SUCCESS</span>	<span>RUNNING</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>ONAP SO</b> Network Automation	v1.1.1 24ad960	<span>SUCCESS</span> <span>FAILED</span>	<span>SUCCESS</span> <span>RUNNING</span>	<span>N/A</span> <span>N/A</span>

# Quick Look: CNCF CI v2



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## CI DASHBOARD: Overview

⌚ Last updated: 12 hours ago



Project	Release	Build	Deploy	Test
CoreDNS Service Discovery	v1.5.0 2ef55f8	<span style="background-color: green; border-radius: 15px; padding: 5px 15px; display: inline-block;">✓ SUCCESS</span>	<span style="background-color: green; border-radius: 15px; padding: 5px 15px; display: inline-block;">✓ SUCCESS</span>	<span style="background-color: #e0e0e0; border-radius: 15px; padding: 5px 15px; display: inline-block;">∅ N/A</span>

[cncf.ci](https://cncf.ci)



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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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## 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

Last updated: 12 hours ago

Project	Release	Build	Deploy	Test
<b>CoreDNS</b> Service Discovery	v1.5.0 2ef5518	<span>SUCCESS</span> <span>SUCCESS</span>	<span>SUCCESS</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>Envoy</b> Service Mesh	v1.10.0 829b905	<span>FAILED</span> <span>FAILED</span>	<span>RUNNING</span> <span>RUNNING</span>	<span>N/A</span> <span>N/A</span>
<b>Fluentd</b> Logging	v1.4.2 3ac6966	<span>SUCCESS</span> <span>SUCCESS</span>	<span>SUCCESS</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>Prometheus</b> Monitoring	v2.9.2 04f2270	<span>SUCCESS</span> <span>SUCCESS</span>	<span>SUCCESS</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>Linkerd</b> Service Mesh	1.6.2 603261b	<span>SUCCESS</span> <span>SUCCESS</span>	<span>RUNNING</span> <span>SUCCESS</span>	<span>N/A</span> <span>N/A</span>
<b>ONAP SO</b> Network Automation	v1.1.1 24ad960	<span>SUCCESS</span> <span>FAILED</span>	<span>SUCCESS</span> <span>RUNNING</span>	<span>N/A</span> <span>N/A</span>

# 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
---------	---------	-------	--------	------



v1.5.0	SUCCESS	SUCCESS	N/A
2ef55f8	SUCCESS	SUCCESS	N/A

cncf.ci

# Walk-through: CNCF CI v2



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## CI DASHBOARD: Overview

⌚ Last updated: 6 minutes ago

**Test environment**

Kubernetes → Bare Metal (Packet) → **SUCCESS**

Project	Build	Deploy	Test
CoreDNS Service Discovery	<b>SUCCESS</b>	<b>SUCCESS</b>	∅ N/A
	<b>SUCCESS</b>	<b>SUCCESS</b>	∅ N/A

**Stable v1.13.0**

**Stable v1.13.0** ✓

Stable v1.13.0 Arm

Head 5354f8b

Head 5354f8b Arm

[cncf.ci](http://cncf.ci)

# 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 🇪🇸 @cncfcii · 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...](https://github.com/crosscloudci/c...)

**cncf.ci**

# 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 2ef55f8	SUCCESS SUCCESS	SUCCESS SUCCESS	N/A N/A

cncf.ci

# GitLab: Build job > CoreDNS > Arm



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← → C 🔒 https://gitlab.cncf.ci/coredns/coredns/-/jobs/179344

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 (cbfc5c)
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/dashboard /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/crosscloudci/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 2ef55f8	SUCCESS SUCCESS	SUCCESS SUCCESS	N/A N/A

cncf.ci

# GitLab: Deploy job > CoreDNS > Arm



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https://gitlab.cncf.ci/cncf/cross-project/-/jobs/179428

Cloud Native Compute Foundation - CNCF / cross-project

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

Pipelines Jobs Schedules Charts

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-kubectl:v2.7.2-v1.7.12 ...
Pulling docker image crosscloudci/debian-helm-kubectl: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/main/configuration/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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Test environment		Stable v1.13.0 Arm	Bare Metal (Packet)	SUCCESS
Project	Release	Build	Deploy	Test
<b>CoreDNS</b> Service Discovery	v1.5.0 118b0c9	SUCCESS SUCCESS	SUCCESS SUCCESS	N/A N/A
<b>Envoy</b> Service Mesh	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>Fluentd</b> Logging	v1.4.2 31cd8ca	SUCCESS SUCCESS	SUCCESS SUCCESS	N/A N/A
<b>Prometheus</b> Monitoring	v2.9.2 6b95670	SUCCESS SUCCESS	SUCCESS SUCCESS	N/A N/A

# Walk-through: CNCF CI v2



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

The table displays the status of four projects: CoreDNS, Envoy, Fluentd, and Prometheus. Each project has a row with columns for Release, Build, Deploy, and Test. The Build and Deploy columns for all projects show green "SUCCESS" status indicators. The Test column for all projects shows gray "∅ N/A" placeholder icons. The Release column for CoreDNS shows a tag "v1.5.0" and a commit hash "118b0c9". The Release column for Fluentd shows a tag "v1.4.2" and a commit hash "31cd8ca". The Release column for Prometheus shows a tag "v2.9.2" and a commit hash "6b95670". The entire row for Prometheus is highlighted with an orange border.



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# Tech Overview

# Overview: CI Testing System



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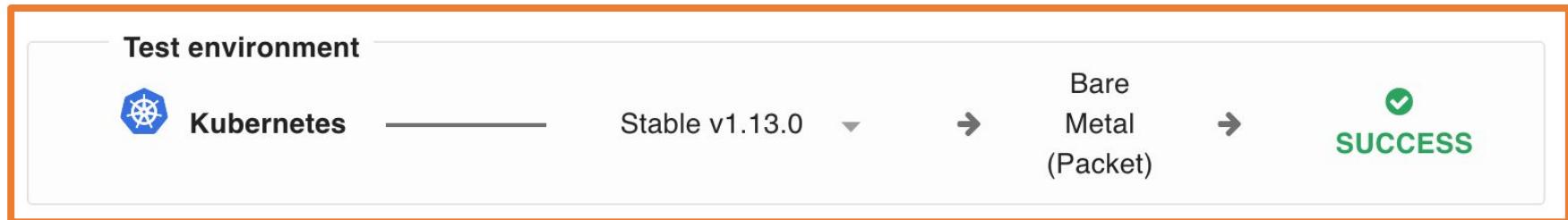
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- **Provisioning the K8s Test Environment**
- **Build pipeline per project** (optional, can use project's build artifacts)
- **App deployment pipeline per project**
- **E2e testing stage per project (future)**

# Overview: Provisioning K8s

- 1. Artifacts:** Collect K8s artifact pinnings 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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- Build:** Compile or retrieve binaries and e2e tests
- Package:** Create containers, create artifact pinning configuration and push to GitLab Docker registry
- Update-Dashboard:** Update build status badges

## Project



**CoreDNS**

Service Discovery

## Release

v1.5.0

2ef55f8

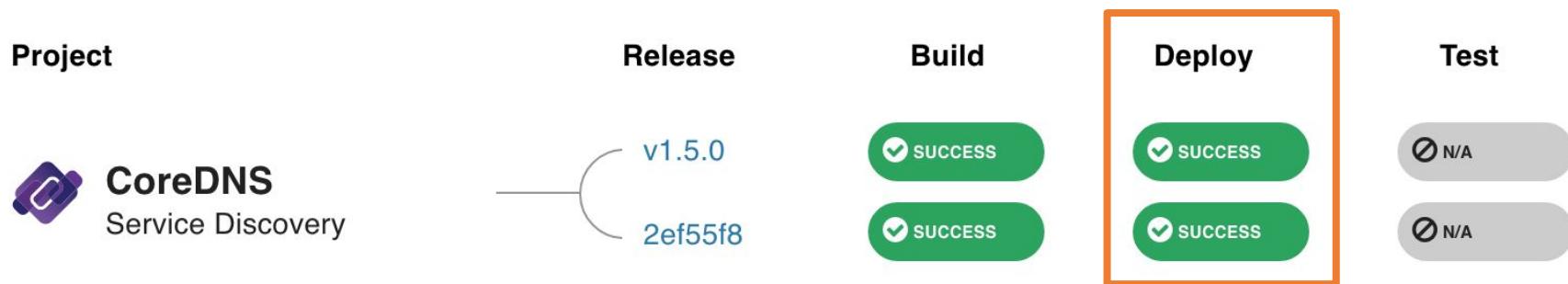
## Build

SUCCESS

SUCCESS

# Overview: App Deployment Stage

- Artifacts:** Collect project artifact pinnings from the previous build stages
- Cross-Project:** Use Helm charts to deploy each project
- 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

- **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)

# Request for Contributions: E2e Tests



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Project	Release	Build	Deploy	Test
 <b>CoreDNS</b> Service Discovery	v1.5.0 2ef55f8	 SUCCESS	 SUCCESS	 N/A
 <b>Envoy</b> Service Mesh	v1.10.0 cbd8d57	 N/A	 N/A	 N/A
 <b>Fluentd</b> Logging	v1.4.2 f3a6066	 N/A	 N/A	 N/A
 <b>Prometheus</b> Monitoring	v2.9.2 0a34399	 N/A	 N/A	 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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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)

# 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!



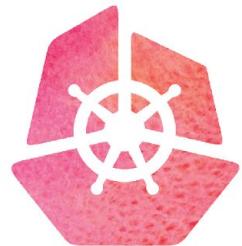
## CNCF CI Team:

[taylor@vulk.coop](mailto:taylor@vulk.coop)

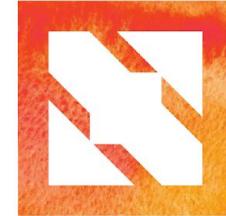
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