

whoami

- Debian Contributor since 2019
- Debian Maintainer
- Systems Development Eng @ AWS
- arthurbdiniz
- Born in Brazil
 - Living in Ireland 📕 📙
- Kite Surfing



Slides



https://arthurbdiniz.com/slides/kubernetes-in-debian-a-call-to-support.pdf

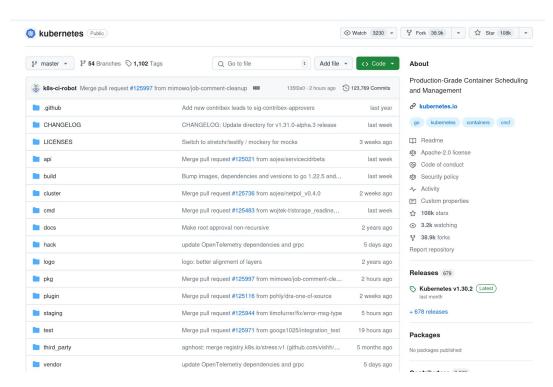
Agenda

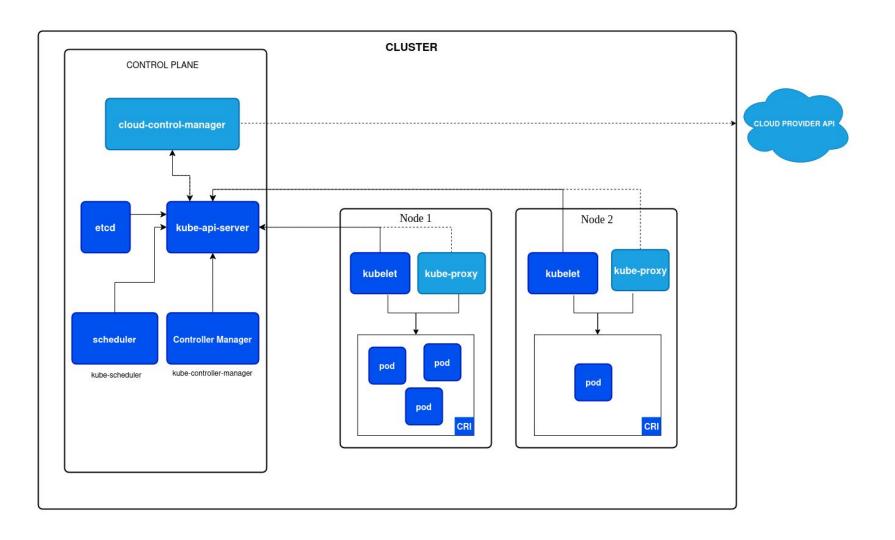
- Kubernetes Ecosystem
- Release Lifecycle
- Other K8S based orchestrators
- What we have on debian
- Kubernetes Team
- Backlog

Kubernetes

- Created by Google
- Borg
- Apache License Version 2.0
- Big ecosistem and monorepo
- A lot of dependencies



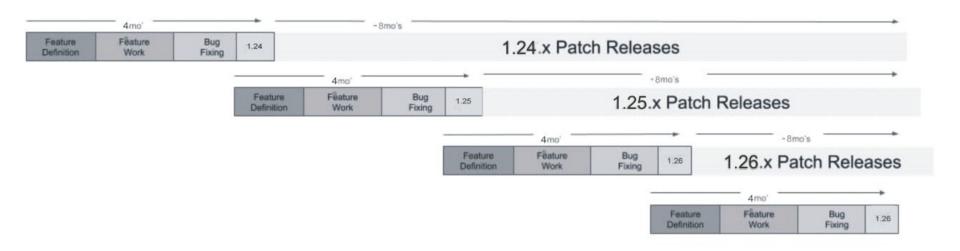




Release Cycle



Release Cycle



Edge/Minimal K8S distributions





Package

First attempt in Debian



testing:

unstable:

kubernetes

Kubernetes client binary (kubectl)

| \$ V/A | | | | | | | |
|---|-------------------------|--|--|--|--|--|--|
| general | | | | | | | |
| source: | kubernetes (main) | | | | | | |
| version: | 1.20.5+really1.20.2-1.1 | | | | | | |
| maintainer: Janos Lenart (DMD) | | | | | | | |
| arch: amd64 arm64 armel armhf i386 s390 | | | | | | | |
| std-ver: | 4.5.0 | | | | | | |
| VCS: | unknown | | | | | | |
| | | | | | | | |
| versions 🗈 | | | | | | | |
| oldstable: | 1.20.5+really1.20.2-1 | | | | | | |
| stable: | 1.20.5+really1.20.2-1.1 | | | | | | |

1.20.5+really1.20.2-1.1

1.20.5+really1.20.2-1.1

| Problems while searching for a new upstream version | high |
|---|----------|
| 2 security issues in trixie | high |
| 2 security issues in sid | high |
| ▼ lintian reports 1 error and 228 warnings | high |
| 1 bug tagged patch in the BTS | normal |
| Does not build reproducibly during testing | normal |
| → 1 low-priority security issue in bullseye | low |
| 1 low-priority security issue in bookworm | low |
| ✓ Issues found with some translations | low |
| Standards version of the package is outdated. | wishlist |

versioned links 1.20.5+really1.20.2-1: 山 乍 本 火 🗈 1.20.5+really1.20.2-1.1: 也 生 本 火 🗈 binaries

kubernetes-client (2 bugs: 0, 1, 1, 0)

action needed

news

[2021-06-13] Accepted kubernetes 1.20.5+really1.20.2-1 (source) into unstable (Janos Lenart) [2021-03-31] Accepted kubernetes 1.20.5-1 (source) into unstable (Janos Lenart) [2021-01-23] kubernetes 1.20.2-1 MIGRATED to testing (Debian testing watch)

[2022-04-01] kubernetes REMOVED from testing (Debian testing watch)

[2022-04-15] kubernetes 1.20.5+really1.20.2-1.1 MIGRATED to testing (Debian testing watch)

[2021-07-14] kubernetes 1.20.5+really1.20.2-1 MIGRATED to testing (Debian testing watch)

[2022-04-09] Accepted kubernetes 1.20.5+really1.20.2-1.1 (source) into unstable (Florian Ernst)

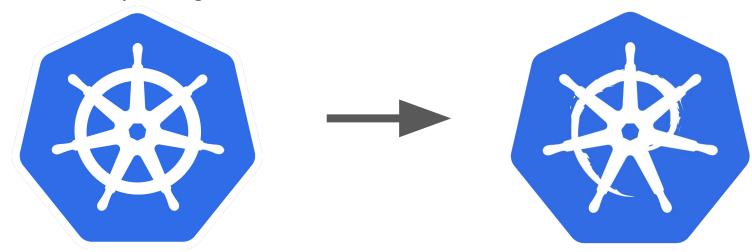
[2021-01-14] Accepted kubernetes 1.20.2-1 (source) into unstable (Janos Lenart)

Challenges

- Upstream Vendoring Folders
- Big Tree of deps for Go packages
- Everyday a new package of a new "V"
 - V2 -> V3
 - GOPATH
- Multiple libraries in the same repository
 - Misleading Debian Version
 - Rework to make GOPATH work
 - Repack each library
- New releases 3 times per year (k8s)
- Fix CVEs and backports

Debian Kubernetes Team

- Have a place for the Ecosystem
- Join effort to create and maintain packages
- Stop vendoring dependencies and work on packaging deps
- Partnership with go-team



Migration

Moving packages to the team.

DONE

- kubectx ChangZhuo Chen @czchen
- <u>kubetail</u> ChangZhuo Chen @czchen

TODO

- <u>kubecolor</u> Stephen Gelman @ssgelm

Migration

Migrating packages from Salsa Debian to Kubernetes group > Inbox x









Arthur Diniz

Hey ChangZhuo, Hope you are doing well, Around 1 year ago I've created the Kubernetes team inside Salsa [1], Tracker [2] and IRC [3]. - [1] https://salsa.debian



ChangZhuo Chen (陳昌倬) czchen@debian.org via gmail.com

to me, czchen -

On Tue, Sep 26, 2023 at 12:48:33AM +0100, Arthur Diniz wrote:

- > So I would like to invite you to first join the Debian Kubernetes team and
- > then if you feel comfortable migrate those 2 packages to the group.

Sound like a good idea. However, I did not find transfer button in Salsa. How can we transfter to the group?

Wed, 27 Sept 2023, 02:22



Tue, 26 Sept 2023, 00:48





Transfer Process

Salsa / support / Issues / #351

Transferring repos from Debian group to kubernetes-team

Edit

Closed Issue created 9 months ago by Arthur Diniz

Would like to request the migration of 2 repositories to kubertes-team group.

- https://salsa.debian.org/debian/kubectx
- https://salsa.debian.org/debian/kubetail

Contacted the current maintainer @czchen that apparently have no options on the repository to transfer.

ChangZhuo Chen

I did not find transfer button in Salsa. How can we transfer to the group?

Kubernetes Team Details

- Salsa: https://salsa.debian.org/kubernetes-team
- Tracker: https://tracker.debian.org/teams/kubernetes/
- IRC: #debian-kubernetes

Can anyone help us transfer those repositories to https://salsa.debian.org/kubernetes-team/packages?

Thanks!

QA

main (5)

| Source Package | Bu | gs | | V | ersion | | | Hhuntu | Ubuntu VCS | Buildd | Lintian | Deb | Piu | CI | Popcon | Watch |
|------------------------|-----|-----|------------|---------|---------|----------|-----|----------|-----------------|-----------------------------------|---------|----------|-------|----------|--------|--------------|
| Source Fackage | All | RC | oldstable | stable | testing | unstable | ехр | Obulica | | | E+W | check | parts | Rep | ropcon | waten |
| kind* | - | - | - | | 0.2 | 3.0-1 | 3.= | 0.23.0-1 | <u>Git</u> ✓ | <u> </u> | • | > | / | FTBR | ī | 0.24.0~alpha |
| kubectx* | - 📶 | | - <u>-</u> | 0.9.3-1 | 0.9 |).5-2 | - | 0.9.5-2 | Git ✓ ✓ | <u> </u> | • | <u>S</u> | 1 | 11 | - | 0.9.5 |
| kubernetes-split-yaml* | - 6 | | - | 0.3.0-1 | 0.4 | 1.0-1 | - | 0.4.0-1 | <u>Git</u> ✓ | <u>^</u> ~////∉∉X// ∉/////∉/~ | 1 | > | 1 | 11 | 1 | 0.4.0 |
| kubetail* | 1 м | - | 1.6.5 | -2 | 1.6 | .20-1 | - | 1.6.20-1 | Git failed | 1×✓ | 1 | \ | 1 | | 10 | 1.6.20 |
| tfk8s* | - м | .50 | - | | 0.1 | .10-2 | a=. | 0.1.10-2 | <u>Git</u> ✓ | プペイイイを使 メ イイ 使イペペイイイ使べる | - | 1 | 1 | 11 | - | 0.1.10 |

Salsa

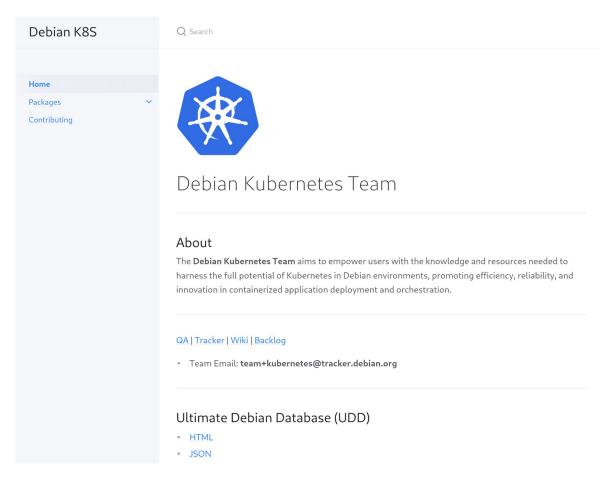


| Subgroups and projects Shared projects Inactive | Q Search | Name v 1= |
|---|------------|--------------|
| | ★ 0 | 1 week ago |
| | ★ 0 | 3 months ago |
| | ★1 | 1 year ago |
| | ★ 1 | 3 months ago |
| ↑ tfk8s ⊕ Tool for converting Kubernetes YAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting Kubernetes TAML manifests to Terraform HCL Tool for converting TAML manifests to Terraform HCL Tool for con | ★ 1 | 9 months ago |

Links

- Tracker: https://tracker.debian.org/teams/kubernetes
- Email list: team+kubernetes@tracker.debian.org
- IRC: #debian-kubernetes on irc.debian.org (OFTC)
- Wiki: https://wiki.debian.org/Teams/pkg-kubernetes
- Salsa: https://salsa.debian.org/kubernetes-team
- Docs: https://kubernetes-team.pages.debian.net/docs/

Docs Demo



https://kubernetes-team.pages.debian.net/docs/

Coming next

- kubectl
- kompose
- kustomize
- k9s
- Helm
- (And more)

Please reach out to us or create issues in Salsa so we can track more tools

Thank You