FROM STUDENT TO SRE THAT LOVES CNCF IN NO TIME

Jacob Valdemar Andreasen

LUNAR®

Who?

JACOB VALDEMAR

Lunar
Site Reliability Engineer 2020-

Aarhus University
Student 2018-2024

LUNAR®

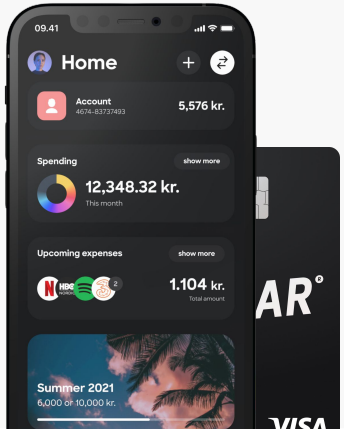
15,000

Total number of Business Customers

650

Employees

European Banking License issued in Denmark



500,000

Customers in total

We have offices in these locations

Company founded in 2015

€345m

Total amount raised

Series D ✓

Recently closed our Series D of €210m

LUNAR TECH AT A GLANCE

More than

40

deployments to production per day

151 FTE's

+80 hires within 12m

24

squads

1000

containers in prod

450

µServices

100

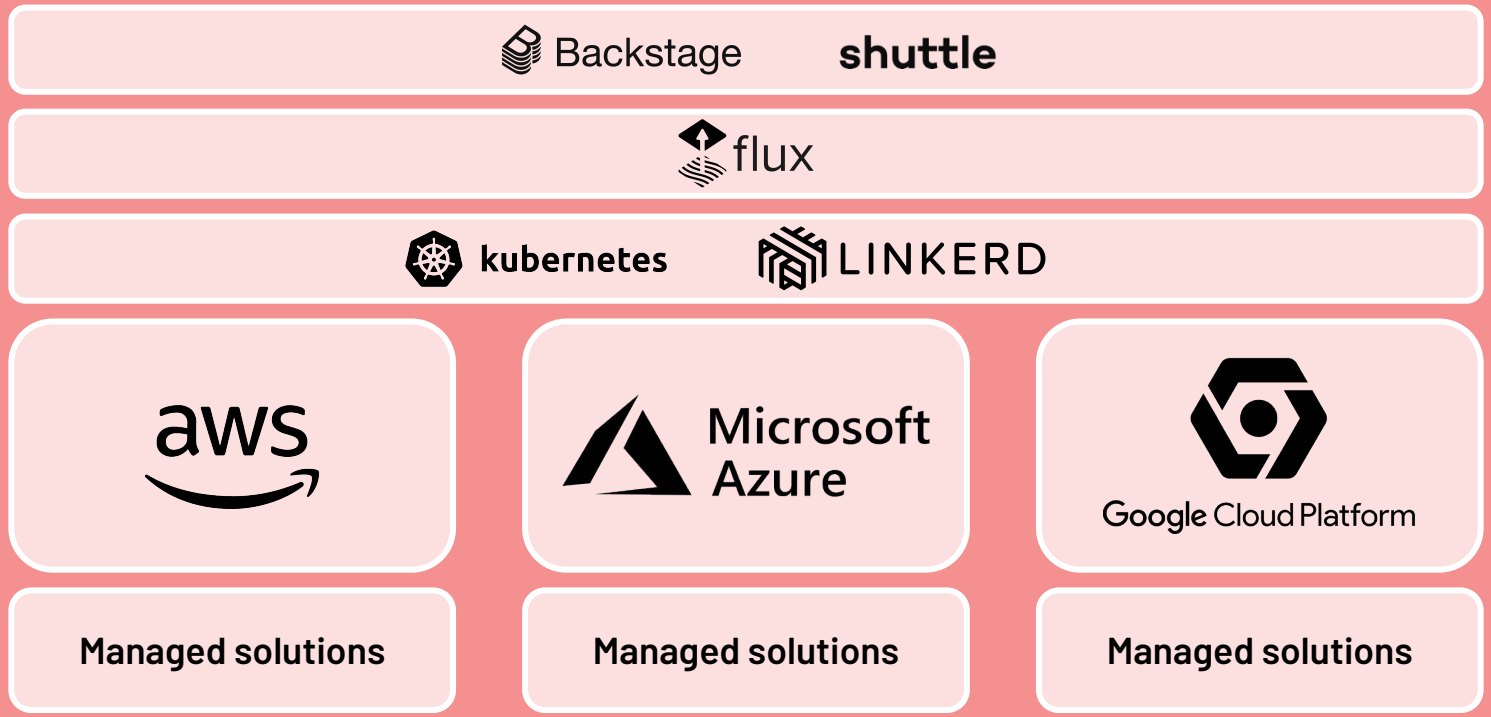
releases per day

Multi-cloud

3

AWS, Azure, GCP

THE PLATFORM (simplified)



HOW MANY ARE STUDENTS?

AARHUS UNIVERSITY
DENMARK

Photos by Lava Paaske (left) and Lars Kruse (right)

INTERNSHIP BEGINS

LUNAR®

WHERE DO WE START?

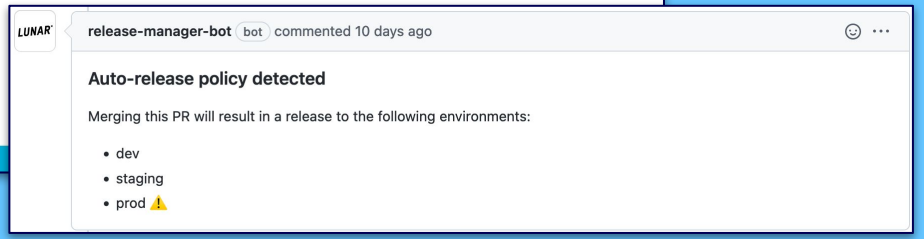
lunarway/**release-manager-bot**

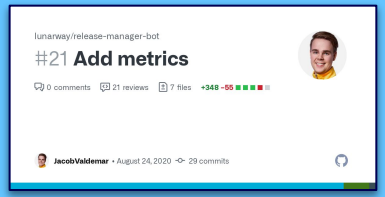
GitHub app for interacting with release-manager

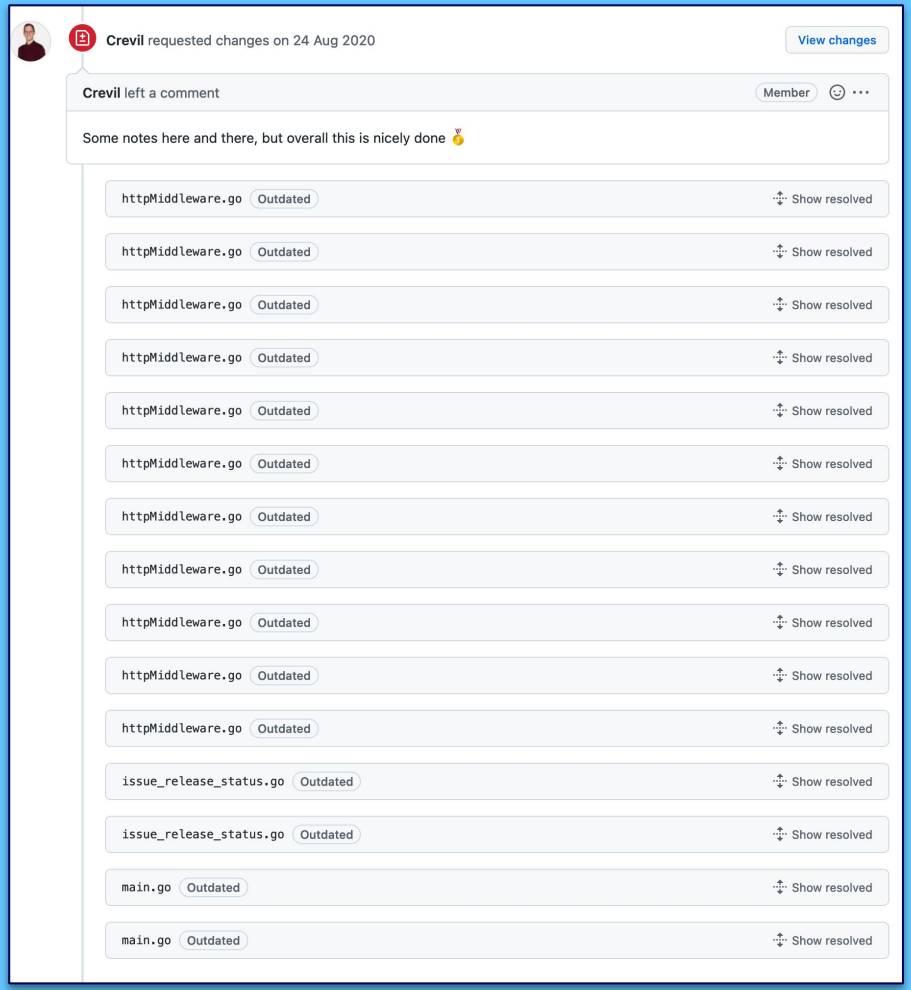
6 Contributors

1 Issue

2 Stars







Showed with permission from Bjørn (Crevil)

HOW MANY HAVE CONTRIBUTED TO A CNCF PROJECT?

Backstage

Backstage

Search

Home

APIs

Docs

Explore

Tech Radar

Cost Insights

GraphiQL

Settings

Backstage Catalog

Components

SUPPORT

TYPE

All

PERSONAL

Owned 3

Starred 0

BACKSTAGE

All 15

OWNER

LIFECYCLE

TAGS

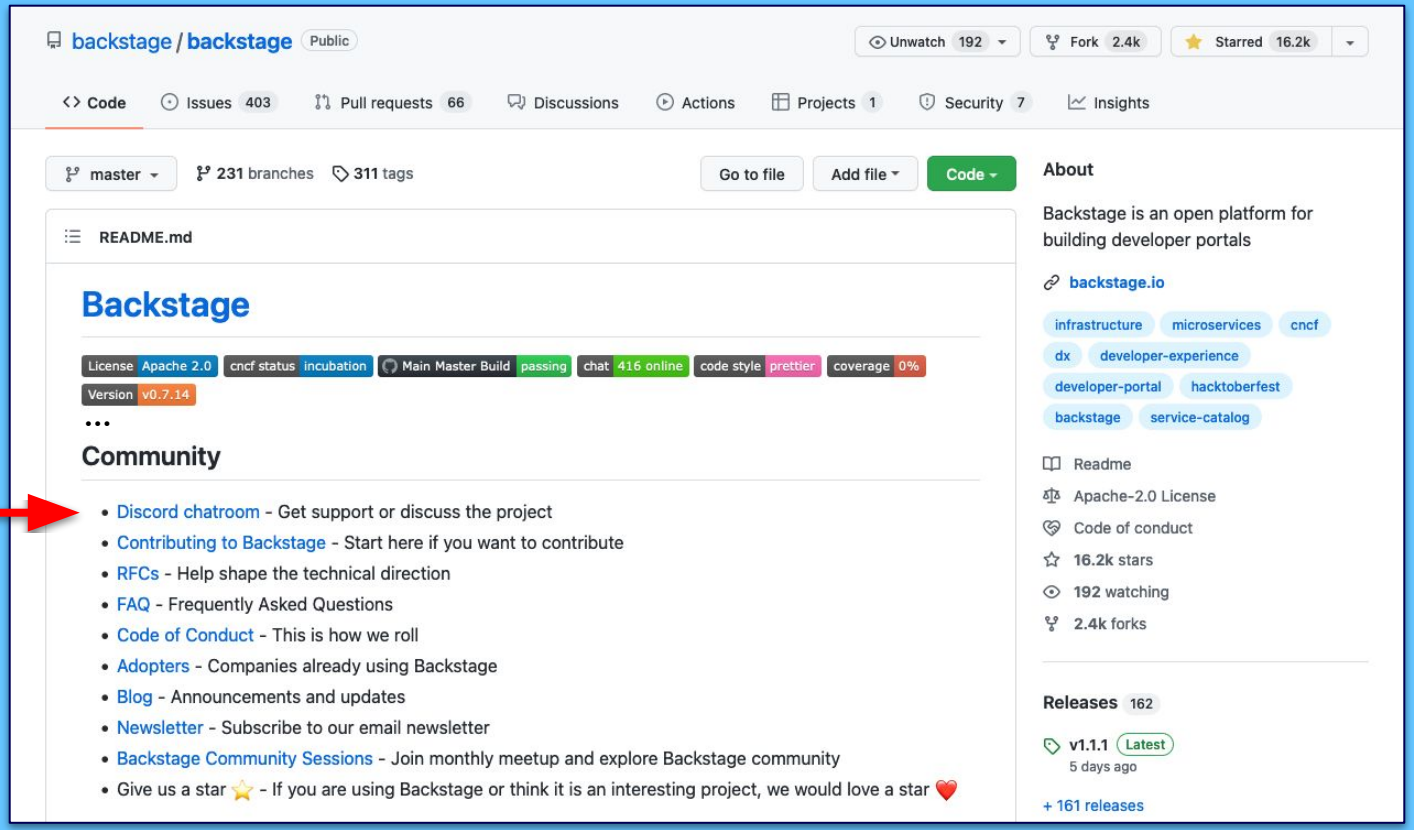
Owned (3)

Filter

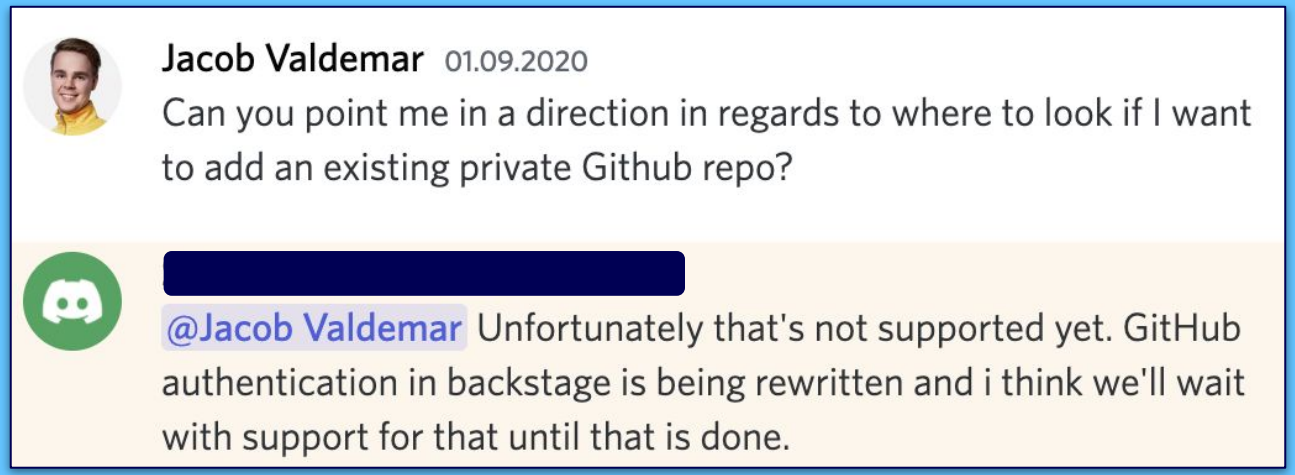
NAME	SYSTEM	OWNER	TYPE	LIFECYCLE	DESCRIPTION	TAGS	ACTIONS
playback-order	audio-playback	user:guest	service	production	Playback Order	java, playback	
searcher		user:guest	service	production	Searcher	go	
shuffle-api	audio-playback	user:guest	service	production	Shuffle API	go	

HOW DO WE REACH THE MAINTAINERS?

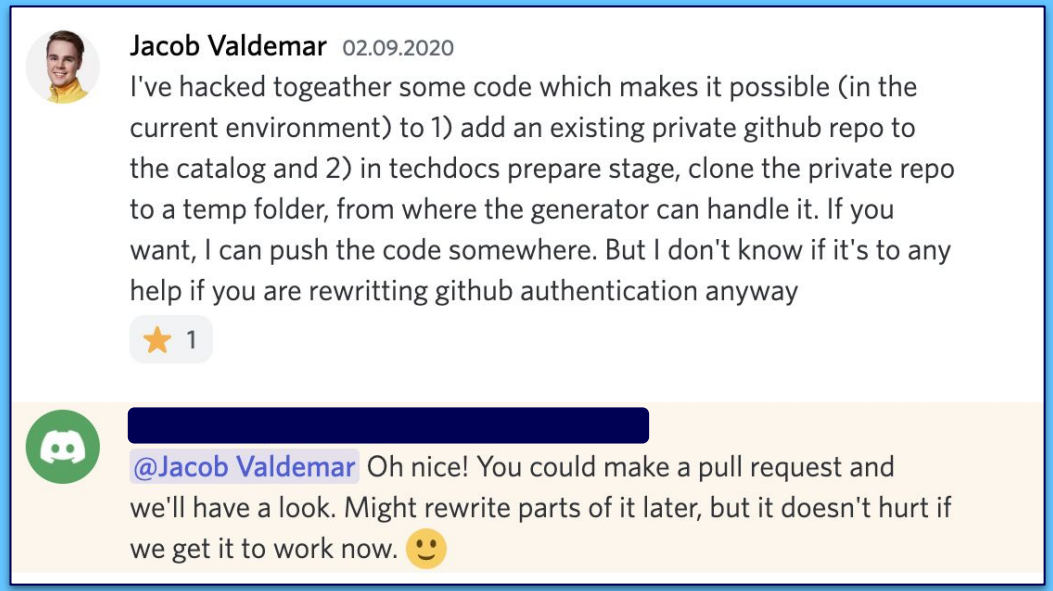
Backstage


backstage / backstage
Public
Unwatch 192
Fork 2.4k
Starred 16.2k
Code
Issues 403
Pull requests 66
Discussions
Actions
Projects 1
Security 7
Insights
master
231 branches
311 tags
Go to file
Add file
Code
README.md
Backstage
License Apache 2.0
cncf status incubation
Main Master Build passing
chat 416 online
code style prettier
coverage 0%
Version v0.7.14
Community
Discord chatroom - Get support or discuss the project
Contributing to Backstage - Start here if you want to contribute
RFCs - Help shape the technical direction
FAQ - Frequently Asked Questions
Code of Conduct - This is how we roll
Adopters - Companies already using Backstage
Blog - Announcements and updates
Newsletter - Subscribe to our email newsletter
Backstage Community Sessions - Join monthly meetup and explore Backstage community
Give us a star ⭐ - If you are using Backstage or think it is an interesting project, we would love a star ❤️
About
Backstage is an open platform for building developer portals
backstage.io
infrastructure
microservices
cncf
dx
developer-experience
developer-portal
hacktoberfest
backstage
service-catalog
Readme
Apache-2.0 License
Code of conduct
16.2k stars
192 watching
2.4k forks
Releases 162
v1.1.1 Latest
5 days ago
+ 161 releases

Backstage

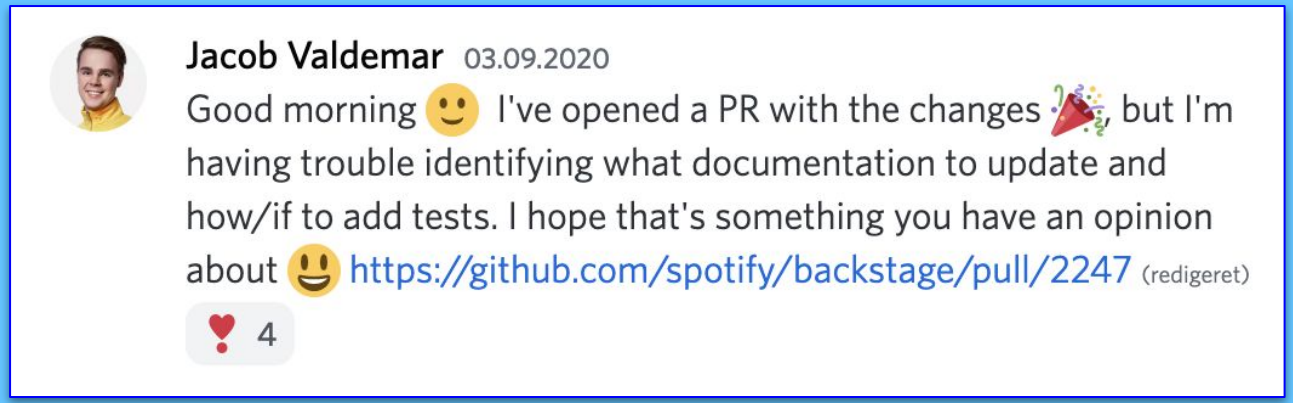

Jacob Valdemar 01.09.2020
Can you point me in a direction in regards to where to look if I want to add an existing private Github repo?
[redacted]
@Jacob Valdemar Unfortunately that's not supported yet. GitHub authentication in backstage is being rewritten and i think we'll wait with support for that until that is done.
Discord

Backstage



Discord

Backstage



Discord

Backstage

plugins/techdocs-backend/src/techdocs/stages/prepare/helpers.ts Outdated Hide resolved

```
114 +     parsedGitLocation.ref,
```

plugins/techdocs-backend/src/techdocs/stages/prepare/helpers.ts Outdated

```
117 +   if (fs.existsSync(repositoryTmpPath)) {
118 +     const repository = await Repository.open(repositoryTmpPath);
119 +     await repository.mergeBranches(
120 +       parsedGitLocation.ref,
```

hooloovooo on 3 Sep 2020 Contributor

It's changed how we get this ref so that should probably be updated here as well. Problem was that `parsedGitLocation.ref` doesn't always contain a branch name

JacobValdemar on 3 Sep 2020 Contributor Author

I was also just investigating why I, in some cases, was getting a `Error: could not use 'origin/' as valid reference name` error. How are you doing this now **@hooloovooo**?

emmaindal on 4 Sep 2020 Member

You can find how its changed in this PR https://github.com/spotify/backstage/pull/2242/files or rebase on top of master and you will get the changes

JacobValdemar on 4 Sep 2020

Thank you! I only changed `checkout`

plugins/techdocs-backend/src/techdocs/stages/prep

```
123 +     return repositoryTmpPath;
124 +   }
125 +
126 +   if (user !== '' && token !== '')
```

freben on 3 Sep 2020

in general, don't be too specific - just do `if (use`

JacobValdemar on 3 Sep 2020

Thanks for the advise! I'm new to TypeScript

plugins/techdocs-backend/src/techdocs/stages/prepare/github.test.ts Hide resolved

```
20  20
21  21   jest.mock('./helpers', () => ({
22  22     ...jest.requireActual<{}>('./helpers'),
23      -  checkoutGitRepository: jest.fn(() => '/tmp/backstage-repo/org/name/branch'),
```

plugins/catalog-backend/src/ingestion/processors/GithubReaderProcessor.ts Outdated Hide resolved

```
30 +       this.privateToken =
31 +         config.getOptionalString('catalog.processors.github.privateToken') ??
32 +         '';
33 +     }
```

freben on 3 Sep 2020 Member

could have been shortened to `this.privateToken = config?.getOptionalString(...) ?? ''` with the new fanciness :) But no biggie

Member

We might want to use a temp

Member

yeah we should probably use a

Contributor Author

this context? :) Solved by `0a7b442`

Member

`d` directly without calling `(config === undefined)` check, as it's

Contributor Author

Member

emmaindal approved these changes on 4 Sep 2020

OrkoHunter commented on 4 Sep 2020

Happy first contribution **@JacobValdemar** ! 🎉

🎉 5 ❤️ 3 🚀 4

emmaindal merged commit **`01f4563`** into `backstage:master` on 4 Sep 2020

3 checks passed

WHAT IS A CONTRIBUTION?

Backstage

backstage/backstage

#2752 [RFC] Squad/Group page

18 comments

JacobValdemar opened on October 5, 2020

Backstage

backstage/backstage

#2752 **[RFC] Squad/Group page**

18 comments

JacobValdemar opened on October 5, 2020

[RFC] Squad/Group page #2752

Closed **JacobValdemar** opened this issue on 5 Oct 2020 · 18 comments

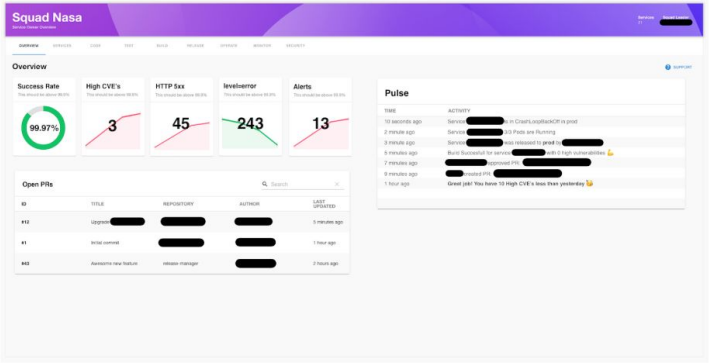
JacobValdemar commented on 5 Oct 2020 • edited — Contributor

Status: Open for comments

Need

With the implementation of #1401 it should be possible to create a page for squads (technical groups). This comes from a need to make it possible for a squad to get a holistic overview in regards to what the squad owns and has responsibility for.

Proposal



I think the most natural implementation would be to have it as an entity page for the group entity defined in #1401. Thus, the squad page can also be built with tabs in the same way as other entities. These tabs can be plugins or they can be categories in which there are different components belonging to plugins that can be inserted. I think I prefer the last one, which is similar to the vision for the overview page in the service entity. I think it would be an easy solution to reuse a lot of what has already been implemented for entity pages in general.

I imagine that it could be possible for **each squad to customize their own overview page** based on what they would like to see. Maybe this would be configured in the yaml file that contains the group entity, but I'm not quite sure how this should be implemented.

In addition, I think it should be possible to have your **squad page as the "homepage" in Backstage**, but I'm also not quite sure how that would be implemented.

Alternatives

An alternative could be something like what is shown in the Backstage demo of the internal Spotify project - but I don't have any idea how that would be implemented.

WHAT MAKES A CONTRIBUTION VALUABLE?

kubernetes

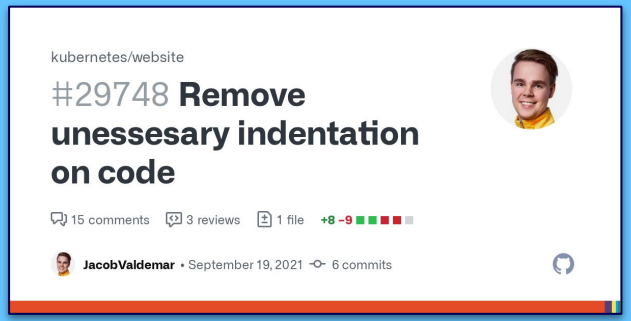
kubernetes/website

#29748 Remove unessesary indentation on code

15 comments 3 reviews 1 file +8 −9

JacobValdemar • September 19, 2021 6 commits

kubernetes



Upgrade kubelet and kubectl

- Upgrade the kubelet and kubectl

Ubuntu, Debian or HypriotOS | CentOS, RHEL or Fedora

```
    # replace x in 1.22.x-00 with the latest patch version
    apt-mark unhold kubelet kubectl && \
    apt-get update && apt-get install -y kubelet=1.22.x-00 kubectl=1.22.x-00 && \
    apt-mark hold kubelet kubectl
    -
    # since apt-get version 1.1 you can also use the following method
    apt-get update && \
    apt-get install -y --allow-change-held-packages kubelet=1.22.x-00 kubectl=1.22.x-00
```

- Restart the kubelet:

Upgrade kubelet and kubectl

- Upgrade the kubelet and kubectl:

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-
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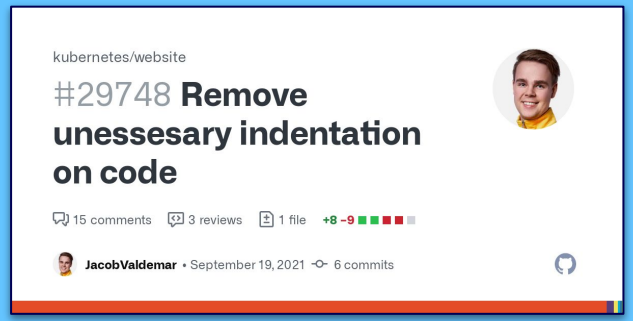
```

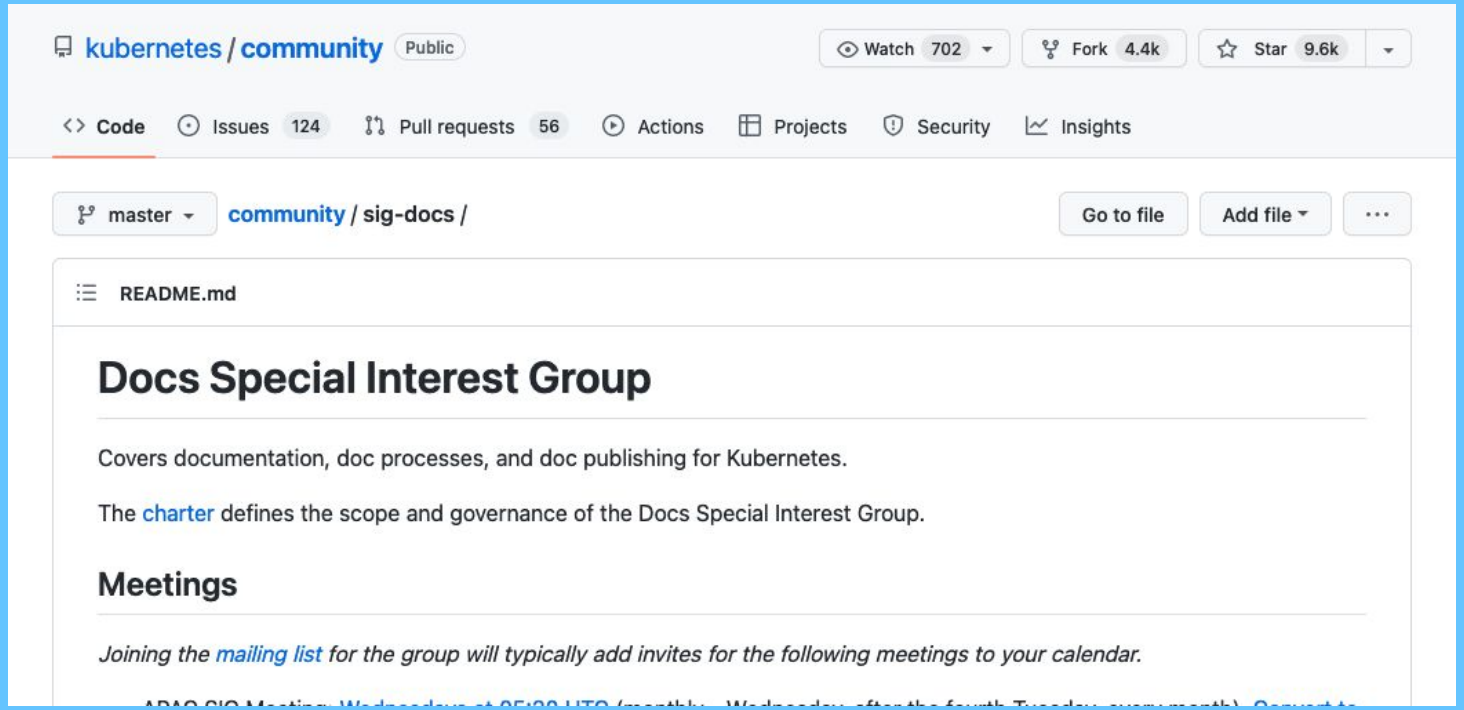
- Restart the kubelet:

kubernetes

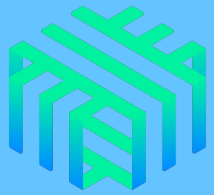



```
169     - -  Upgrade the kubelet and kubectl
    170 + -  Upgrade the kubelet and kubectl:
170 171
171 172   {{< tabs name="k8s_install_kubelet" >}}
172     - {{< tab name="Ubuntu, Debian or HypriotOS" >}}
173     -     <pre>
    173 + {{% tab name="Ubuntu, Debian or HypriotOS" %}}
174 174       # replace x in {{< skew currentVersion >}}.x-00 with the latest patch version
175 175       apt-mark unhold kubelet kubectl && \
176 176       apt-get update && apt-get install -y kubelet={{< skew currentVersion >}}.x-00 kubectl={{< skew currentVersion >}}.x-00 && \
        @@ -179,15 +179,13 @@ Also calling `kubeadm upgrade plan` and upgrading the CNI provider plugin is no
179 179       # since apt-get version 1.1 you can also use the following method
180 180       apt-get update && \
181 181       apt-get install -y --allow-change-held-packages kubelet={{< skew currentVersion >}}.x-00 kubectl={{< skew currentVersion >}}.x-00
182     -     </pre>
183     - {{< /tab >}}
184     - {{< tab name="CentOS, RHEL or Fedora" >}}
185     -     <pre>
    182 + {{% /tab %}}
    183 + {{% tab name="CentOS, RHEL or Fedora" %}}
186 184       # replace x in {{< skew currentVersion >}}.x-0 with the latest patch version
187 185       yum install -y kubelet-{{< skew currentVersion >}}.x-0 kubectl-{{< skew currentVersion >}}.x-0 --disableexcludes=kubernetes
188     -     </pre>
189     - {{< /tab >}}
    186 + {{% /tab %}}
190 187   {{< /tabs >}}
    188 + <br />
```

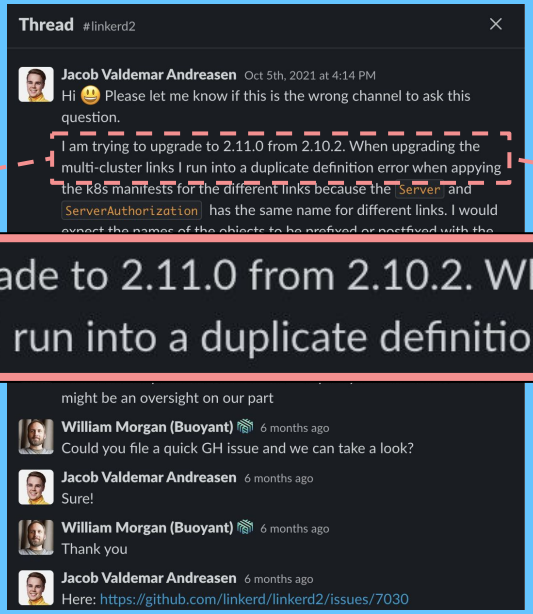
kubernetes



github.com/kubernetes/community/tree/master/sig-docs



LINKERD



I am trying to upgrade to 2.11.0 from 2.10.2. When upgrading the multi-cluster links I run into a duplicate definition error when appying

slack

Showed with permission from William Morgan

LINKERD

linkerd/linkerd2

#7030 Duplicate definitions for multicluster links on...

2 comments

JacobValdemar opened on October 5, 2021

Duplicate definitions for multicluster links on v2.11.0 #7030

Closed **JacobValdemar** opened this issue on 5 Oct 2021 · 2 comments · Fixed by #7060

JacobValdemar commented on 5 Oct 2021 • edited

Bug Report

What is the issue?

I am trying to upgrade to 2.11.0 from 2.10.2. When upgrading the multi-cluster links I run into a duplicate definition error when appying the k8s manifests for the different links because the Server and ServerAuthorization has the same name for different links. I would expect the names of the objects to be prefixed or postfixed with the cluster name to avoid name clashes?

How can it be reproduced?

```
linkerd --kubeconfig=$kubeconfig multicluster link --cluster-name link-one > link-one.yaml

linkerd --kubeconfig=$kubeconfig multicluster link --cluster-name link-two > link-two.yaml
```

Logs, error output, etc

Both link-one.yaml and link-two.yaml would contain:

```
apiVersion: policy.linkerd.io/v1beta1
kind: Server
metadata:
  namespace: linkerd-multicluster
```

•••

```
  client:
    # for kubelet probes
    unauthenticated: true

---
```

Environment

- Kubernetes Version: v1.20.8
- Cluster Environment: kops
- Host OS:
- Linkerd version: 2.11.0

Possible solution

prefix or postfix the names of the objects with the cluster (link) names

Additional context

There might be other manifests generated by the multicluster link that also have duplicate definitions. I haven't had time to check it all

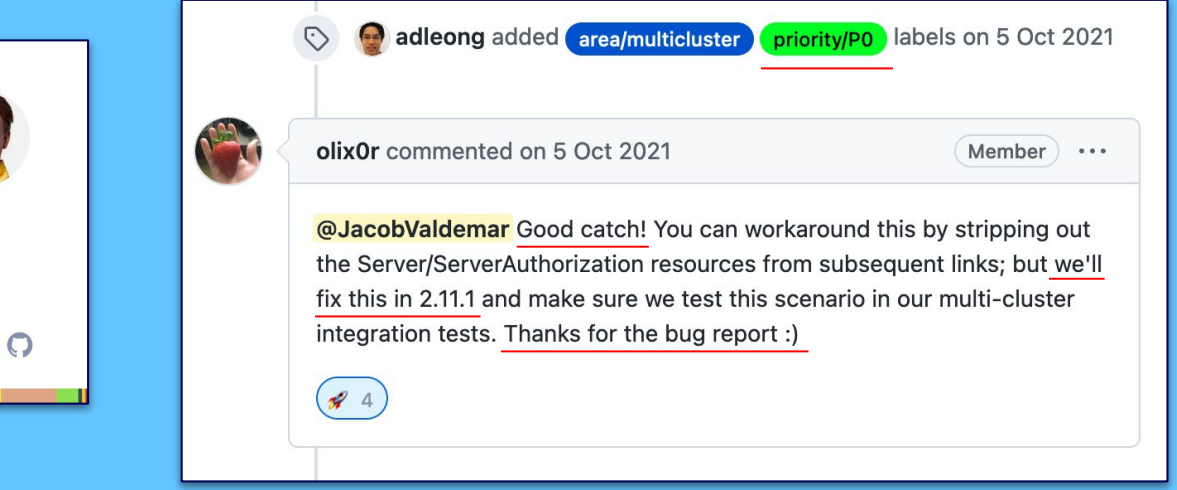
LINKERD

linkerd/linkerd2

#7030 Duplicate definitions for multicluster links on...

2 comments

JacobValdemar opened on October 5, 2021



KEEP LEARNING

Photo by Simon English on Unsplash

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Spain

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Austria

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Sweden

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Germany

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France

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Italy

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Switzerland

NÜRNBERG
Germany

ODESA
Ukraine

OSLO
Norway

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France

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United Kingdom

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Germany

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Bosnia and Herzegovina

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Finland

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Georgia

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Israel

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Italy

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Finland

UMEÅ
Sweden

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Lithuania

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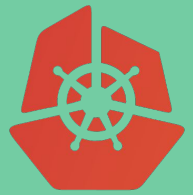

KubeCon | CloudNativeCon

Europe 2022

SUMMARY

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ENGAGE IN OPEN SOURCE.

KEEP LEARNING.

THAT'S ALL FOLKS

QUESTIONS?

Jacob Valdemar Andreasen

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