

FROM STUDENT TO SRE THAT LOVES CNCF IN NO TIME

Site Reliability Engineer

Jacob Valdemar Andreasen



LUNAR®

Who?

JACOB VALDEMAR

Lunar

Site Reliability Engineer

2020-

Aarhus University

Student

2018-2024



LUNAR®



15,000

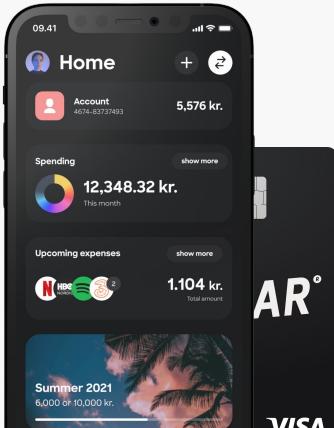
Total number of Business Customers



Company founded in 2015

650

Employees



€345m

Total amount raised



European Banking License issued in Denmark

500,000

Customers in total

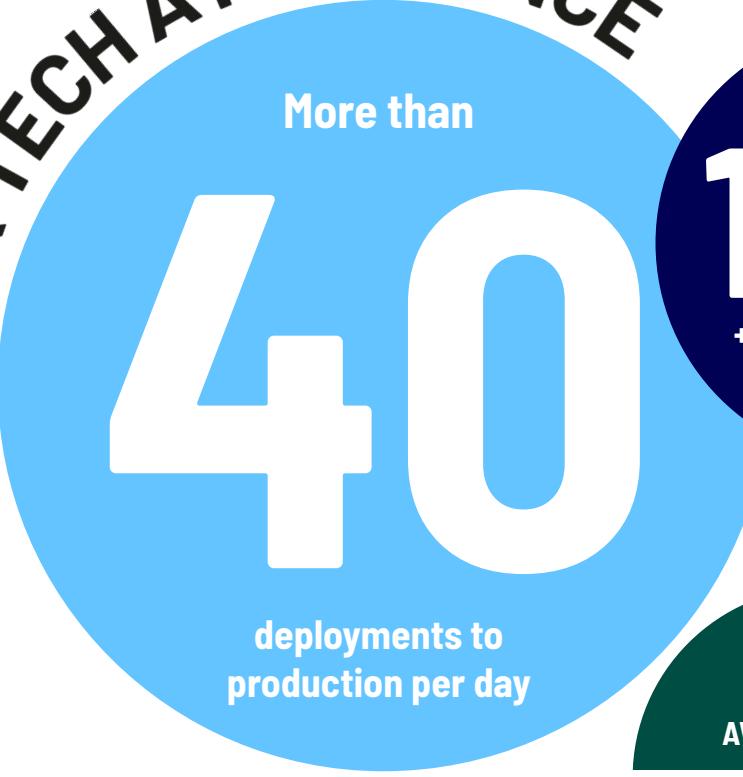
Series D ✓

Recently closed our Series D of €210m

We have offices in these locations



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



Multi-cloud
3
AWS, Azure, GCP



100 releases per day

THE PLATFORM (simplified)



Backstage

shuttle



flux



kubernetes



LINKERD



Microsoft
Azure



Google Cloud Platform

Managed solutions

Managed solutions

Managed solutions



HOW MANY ARE STUDENTS?



AARHUS UNIVERSITY

DENMARK





A circular inset image showing a modern interior space. The room features a large, glowing white neon sculpture of an astronaut in a spacesuit, standing upright. The room has light-colored walls, a dark wooden ceiling with horizontal beams, and two sets of double doors. A grey sofa is positioned in front of a window, and a large potted plant sits on the floor to the left. The floor is made of light-colored tiles. The entire inset is framed by a green border containing the word "SECTION" repeated in white.

INTERNSHIP BEGINS

LUNAR®

WHERE DO WE START?

lunarway/release-manager-bot

LUNAR°

GitHub app for interacting with release-manager

6

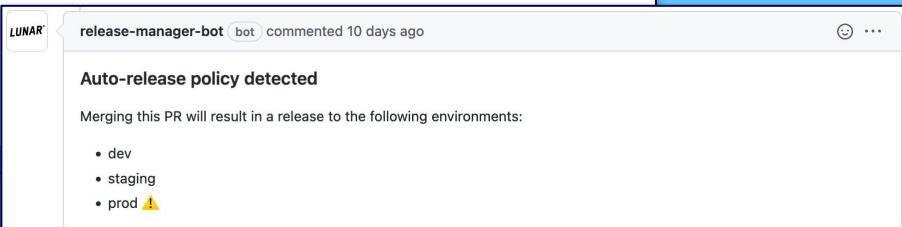
Contributors

1

Issue

2

Stars





Crevil requested changes on 24 Aug 2020

[View changes](#)

Crevil left a comment

Member ...

Some notes here and there, but overall this is nicely done 🎉

httpMiddleware.go Outdated [Show resolved](#)

issue_release_status.go Outdated [Show resolved](#)

issue_release_status.go Outdated [Show resolved](#)

main.go Outdated [Show resolved](#)

main.go Outdated [Show resolved](#)



HOW MANY HAVE CONTRIBUTED TO A CNCF PROJECT?



Backstage



Backstage

Backstage

Search

Home APIs Docs Explore Tech Radar Cost Insights GraphQL

Settings

Backstage Catalog

Components ▾

SUPPORT

TYPE

All

PERSONAL

Owned 3

Starred 0

BACKSTAGE

All 15

OWNER

LIFECYCLE

TAGS

Owned (3)							
NAME	SYSTEM	OWNER	TYPE	LIFECYCLE	DESCRIPTION	TAGS	ACTIONS
playback-order	audio-playback	user:guest	service	production	Playback Order	java playback	<input checked="" type="checkbox"/> <input type="button" value="edit"/> <input type="button" value="star"/>
searcher		user:guest	service	production	Searcher	go	<input checked="" type="checkbox"/> <input type="button" value="edit"/> <input type="button" value="star"/>
shuffle-api	audio-playback	user:guest	service	production	Shuffle API	go	<input checked="" type="checkbox"/> <input type="button" value="edit"/> <input type="button" value="star"/>

HOW DO WE REACH THE MAINTAINERS?



Backstage

backstage / backstage Public

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?



@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.





Backstage



Jacob Valdemar 02.09.2020

I've hacked togeather some code which makes it possible (in the current environment) to 1) add an existing private github repo to the catalog and 2) in techdocs prepare stage, clone the private repo to a temp folder, from where the generator can handle it. If you want, I can push the code somewhere. But I don't know if it's to any help if you are rewritingt github authentication anyway



@Jacob Valdemar Oh nice! You could make a pull request and we'll have a look. Might rewrite parts of it later, but it doesn't hurt if we get it to work now. 😊





Backstage



Jacob Valdemar 03.09.2020

Good morning 😊 I've opened a PR with the changes 🎉, but I'm having trouble identifying what documentation to update and how/if to add tests. I hope that's something you have an opinion about 😊 <https://github.com/spotify/backstage/pull/2247> (redigeret)



backstage/backstage

#2247 TechDocs & Catalog: Private Github repository support



4 comments 15 reviews 4 files +75 -7

 JacobValdemar • September 2, 2020 -O- 9 commits





Backstage

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



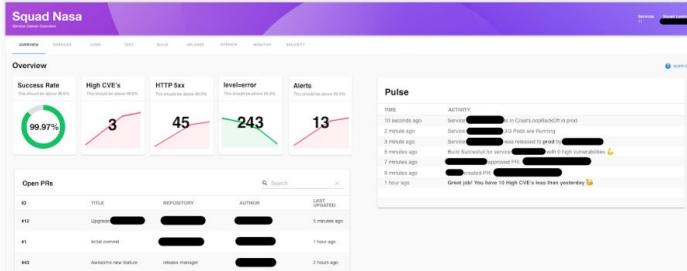
...

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

kubernetes/website

#29748 Remove unessesary indentation on code



15 comments 3 reviews 1 file +8 -9 ● ● ● ●

JacobValdemar · September 19, 2021 · 6 commits



Upgrade kubelet and kubectl

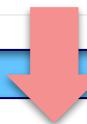
- Upgrade the kubelet and kubectl

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:

Ubuntu, Debian or HypriotOS

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-
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apt-get update && \
apt-get install -y --allow-change-held-packages kubelet=1.22.x-00 kubectl=1.22.x-00
```

- Restart the kubelet:



kubernetes

kubernetes/website

#29748 Remove unessesary indentation on code

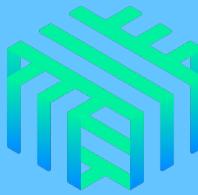


15 comments 3 reviews 1 file +8 -9

JacobValdemar · September 19, 2021 · 6 commits



```
169      - - Upgrade the kubelet and kubectl
170 + - Upgrade the kubelet and kubectl:
171    171
172    172     {{< tabs name="k8s_install_kubelet" >}}
173 - {{< 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
181     kubelet={{< skew currentVersion >}}.x-00
182 -     </pre>
183 -     {{< /tab >}}
184 -     {{< tab name="CentOS, RHEL or Fedora" >}}
184 -     <pre>
185 + {{% /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
187     --disableexcludes=kubernetes
188 -     </pre>
189 -     {{< /tab >}}
186 + {{% /tab %}}
190    187     {{< /tabs >}}
188 + <br />
```



LINKERD

Thread #linkerd2

 Jacob Valdemar Andreasen Oct 5th, 2021 at 4:14 PM
Hi 😊 Please let me know if this is the wrong channel to ask this question.
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

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

might be an oversight on our part

 William Morgan (Buoyant) 6 months ago
Could you file a quick GH issue and we can take a look?

 Jacob Valdemar Andreasen 6 months ago
Sure!

 William Morgan (Buoyant) 6 months ago
Thank you

 Jacob Valdemar Andreasen 6 months ago
Here: <https://github.com/linkerd/linkerd2/issues/7030>





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 applying 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?

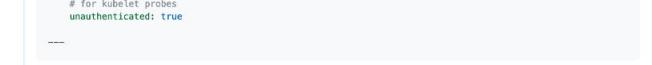
How can it be reproduced?

```
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
```

...

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



adleong added [area/multicluster](#) [priority/P0](#) labels on 5 Oct 2021



oli0r commented on 5 Oct 2021 Member ...

@JacobValdemar Good catch! You can workaround this by stripping out the Server/ServerAuthorization resources from subsequent links; but we'll fix this in 2.11.1 and make sure we test this scenario in our multi-cluster integration tests. Thanks for the bug report :)





KEEP
LEARNING

JOIN CONFERENCES AND LOCAL EVENTS



KubeCon



CloudNativeCon

Europe 2022



CLOUD NATIVE
NORDICS

BE A PART OF THE COMMUNITY



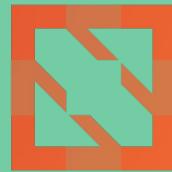


GET
CERTIFIED

PRESENT AT



KubeCon



CloudNativeCon

Europe 2022

SUMMARY

TRY AN INTERNSHIP.

ENGAGE IN OPEN SOURCE.

KEEP LEARNING.

THAT'S ALL FOLKS

QUESTIONS?

Jacob Valdemar Andreasen

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