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Docs Drive Adoption

Help Wanted!

Divya Mohan, SUSE and Natali Vlatko, Cisco

Hi there, we're (some of) SIG Docs!

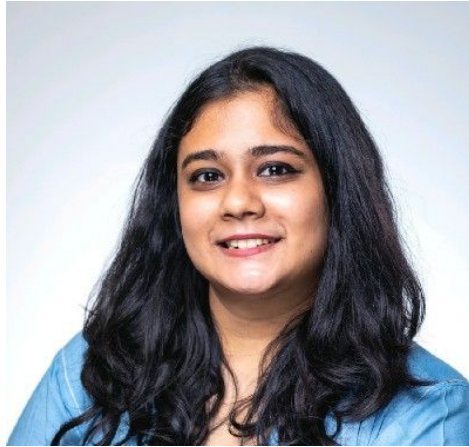


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Divya Mohan

Senior Technical Evangelist,
SUSE
Co-Chair, SIG Docs



Natali Vlatko

Open Source Architect,
Cisco
Co-Chair, SIG Docs

What will we learn today?



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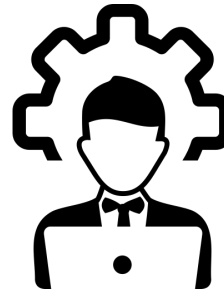
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Where we need help

- Netlify build issues
 - Improving Prow utilization
 - Reference documentation generation
 - Web Development
 - Issue Triaging
- ...and more!



How 🙋 YOU 🙋 can help



Where you can find us

Let's talk about scale!



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**1,30,000+ pages of
documentation**

- in 15 different languages (including English)
- across 4 subprojects
 - Blog
 - Reference Docs
 - Localization
 - Website



**20k - 100k users/day
globally**



**2500 voluntary
contributors**

And some more stats...



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Three minor releases every year

- Average of 45 enhancements per release
- Average of 12 feature blogs per release
- Semi manual reference docs generation

What does this mean?



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(Some of) our pain points



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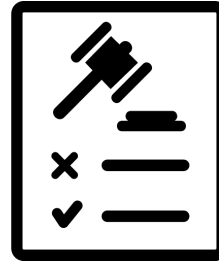


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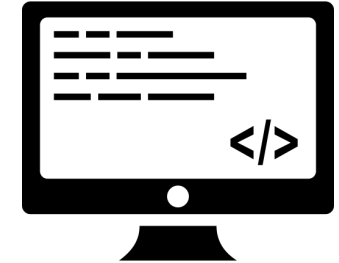
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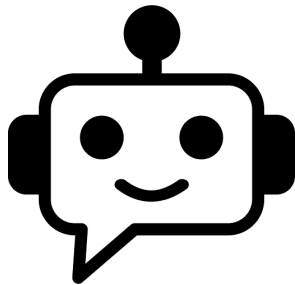
**Reference doc
generation**



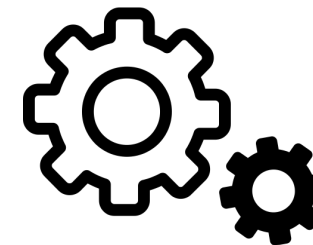
Issue triaging



Web Development



**Improving PROW
utilization**



Netlify errors

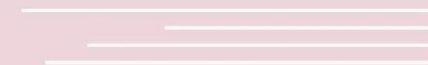


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 **Netlify errors** 

- Kubernetes project uses Netlify to stage PR content
 - **What this means:** We use Netlify to **preview** changes suggested by a PR before merging it.
- As of Feb 2022, some deploy previews are failing with the error message

```
12:31:26 AM: $ git submodule update --init --recursive --depth 1 && make deploy-preview
12:31:26 AM: GOMAXPROCS=1 hugo --cleanDestinationDir --enableGitInfo --buildFuture --environment preview -b https://deploy-preview-43702--kubernetes-io-main-staging.netlify.app
12:31:27 AM: Start building sites ...
12:31:27 AM: hugo v0.111.3-5d4eb5154e1fed125ca8e9b5a0315c4180dab192+extended linux/amd64 BuildDate=2023-03-12T11:40:50Z VendorInfo=gohugoio
1:03:04 AM: Failed during stage "building site": Command did not finish within the time limit
1:03:04 AM: Execution timed out after 31m40.000962935s
1:03:04 AM: Error running command: Command did not finish within the time limit
1:03:04 AM: Failing build: Failed to build site
1:03:04 AM: Finished processing build request in 32m7.209s
10:32:58 AM: [ERROR] Deploy logs are currently unavailable. We are working on resolving the issue.
```

How does this impact us?



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- Documentation PRs take longer to merge because of delayed approvals & reviews.
- Can be a red herring *some* times and mask an actual issue with the PR.
- Email deluge addressed to the Kubernetes SIG Docs leadership

Email hell



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Your recent deploy for kubernetes-io-main-staging did not complete

Here's more information about what happened:

Failed during stage 'building site': Build script returned non-zero exit code: 2

[See full deploy logs](#)

In accordance with your sensitive variable policy, this deploy was built without detected sensitive environment variables. You can [learn more in the docs](#).

Your recent deploy for kubernetes-io-main-staging did not complete

Here's more information about what happened:

Failed during stage 'building site': Command did not finish within the time limit

[See full deploy logs](#)

In accordance with your sensitive variable policy, this deploy was built without detected sensitive environment variables. You can [learn more in the docs](#).

What needs to be done?



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- Root cause analysis
- Testing
- Actual fixing of the issue

Who can participate?



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- Kubernetes GitHub org membership
- Knowledge of Hugo (particularly the Docsy theme)
- Knowledge of Netlify

Tracking issue



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<https://github.com/kubernetes/website/issues/43736>

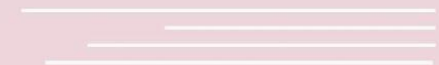


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Issue triaging

- The kubernetes/website repository has 700+ issues.
 - ~300 issues require triage
 - **What this means:** We haven't gotten around to reviewing whether we can open these up for contributions just yet.
 - ~100 issues in backlog
 - **What this means:** These issues are low in priority and some of them haven't found takers.

How does this impact us?



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- Surfacing of issues becomes difficult
- Contributors aren't able to volunteer their time in the best possible way
- Incomplete documentation

What needs to be done?



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The ladder



Who can participate?



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- Kubernetes GitHub org membership
- A minimum of **15 non-trivial** contributions to Kubernetes
 - of which, a certain amount **should be directed** towards **kubernetes/website**
- Ability to work collaboratively

Call for nominations are now open!



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<https://groups.google.com/g/kubernetes-sig-docs/c/Nqhq-Tk9V7U/m/ttXN7ahEAwAJ>

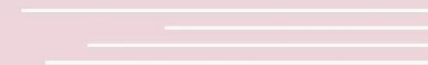


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Reference documentation generation



- Reference documentation isn't a formal subproject, although it is listed as one.
 - **What this means:** Lack of dedicated ownership
- Tooling used within the subproject requires knowledge of Go
 - **What this means:** Relatively steep onboarding curve

How does this impact us?



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- Burden of reference documentation generation falls on a few people every release
- Issues/Pull requests take longer approval/review cycles

What needs to be done?



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- Formalization & staffing of subproject
 - This is work in progress.
- Call-for-contributors to the subproject
 - We need 🖐️YOUR🖐️ help

Who can participate?



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- Anyone with an intermediate level of proficiency in the programming language, Go.
- [Nice-to-have] Kubernetes GitHub org membership
- [Nice-to-have] Previous contributions to the Kubernetes project

Tracking discussion item



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<https://github.com/kubernetes/website/discussions/43767>

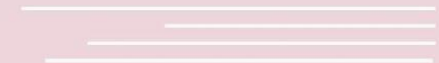


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Web development



- Kubernetes isn't well advertised as being in need of web development help
 - However! We have several websites utilizing Hugo where web dev expertise is wanted
- SIG Docs is one area where web devs could make an impact
 - K8s Contributor Website is also an area that could benefit (SIG Contrib-Ex)

What needs to be done?



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- Improvement of our websites: web design and web programming
 - We need opinionated specialists to help us give a better experience to users of docs

Who can participate?



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- Anyone with an intermediate level of proficiency in web development: HTML, CSS, and JavaScript in particular
- [Nice-to-have] Kubernetes GitHub org membership
- [Nice-to-have] Previous contributions to the Kubernetes project, but this is not required!

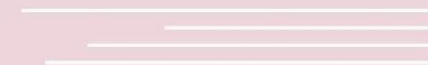


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BONUS: Blog reviewers & approvers

Context



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- ~50 blog posts on the Kubernetes blog annually
- Only four official approvers/reviewers
 - **What this means:** We're short-staffed!

How does this impact us?



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- Backlog of blogs that need to be reviewed and approved
- Onus on a few people leading to:
 - burnout
 - terrible work/life balance

What needs to be done?



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- Increase our stable pool of contributors for the blog subproject
- Help the existing reviewers & approvers initiate a shadow program to:
 - upskill the contributors in an informal capacity
 - balance the burden
 - shoutout to Tim Bannister for already starting some of this process!
- Promote the contributors up the ladder

Who can participate?



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- Kubernetes org member
- Must be willing to shadow and perform the role in an informal capacity (initially)

Where can you find us?



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- [Mailing list](#)
 - **Bonus:** Subscribing also gets you invites to all of our meetings!
- [Kubernetes slack](#)
 - #sig-docs : All things documentation
 - #sig-docs-blog : Blog subproject
 - #sig-docs-localizations: Localization subproject
- GitHub
 - [kubernetes/website](#): Documentation website, blog, localization
 - [kubernetes-sigs/reference-docs](#)

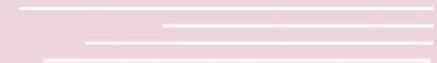


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THANK YOU!