

Marisa Smith

Faster, Better, Stronger with Ephemeral Environments



**Agile** ORLANDO  
JULY 24-28 **2023**

#AGILE2023

# About me

## Developer Advocate

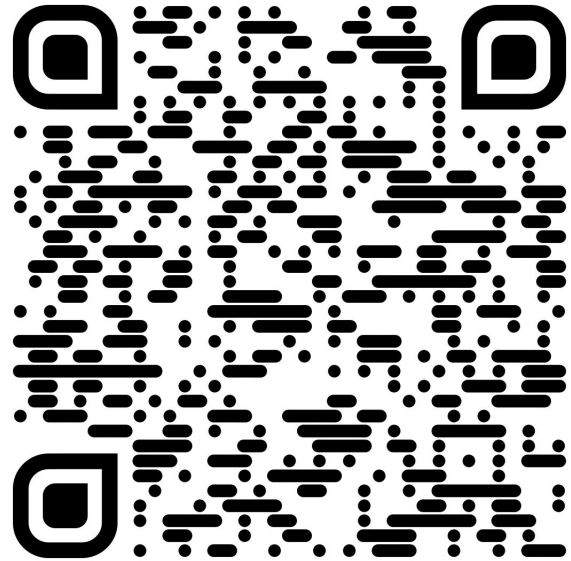
- Marketing & SEO
- Code examples
- Tutorials (Docs & Youtube)



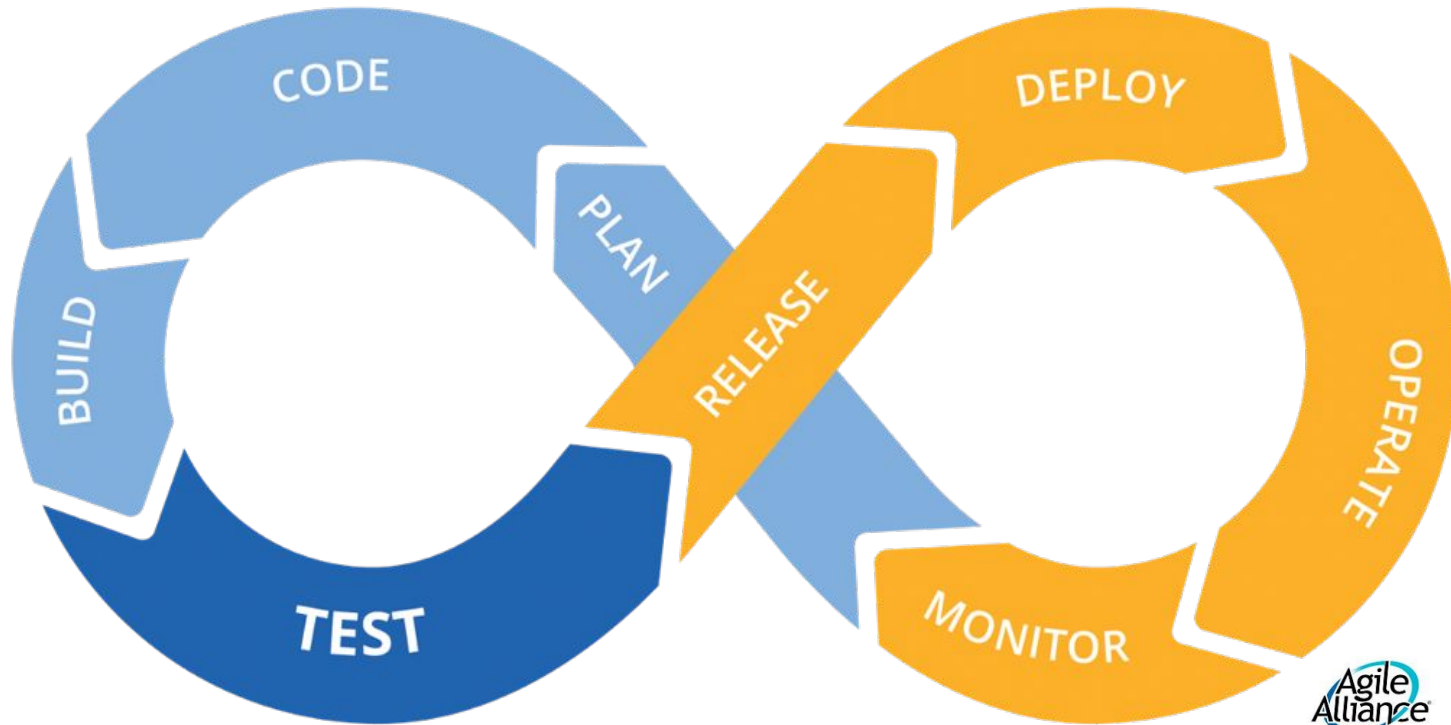
@MarisaDataNerd



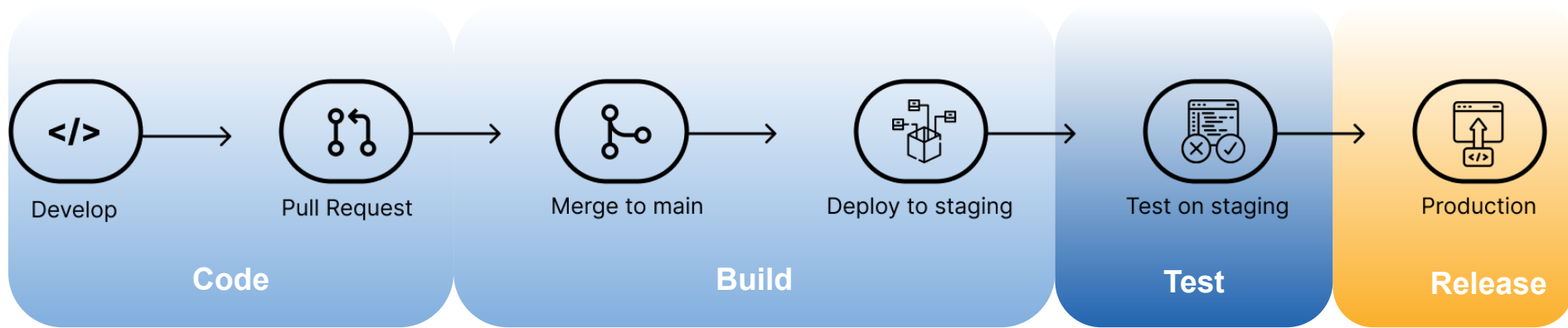
marisa-smith-datanerd



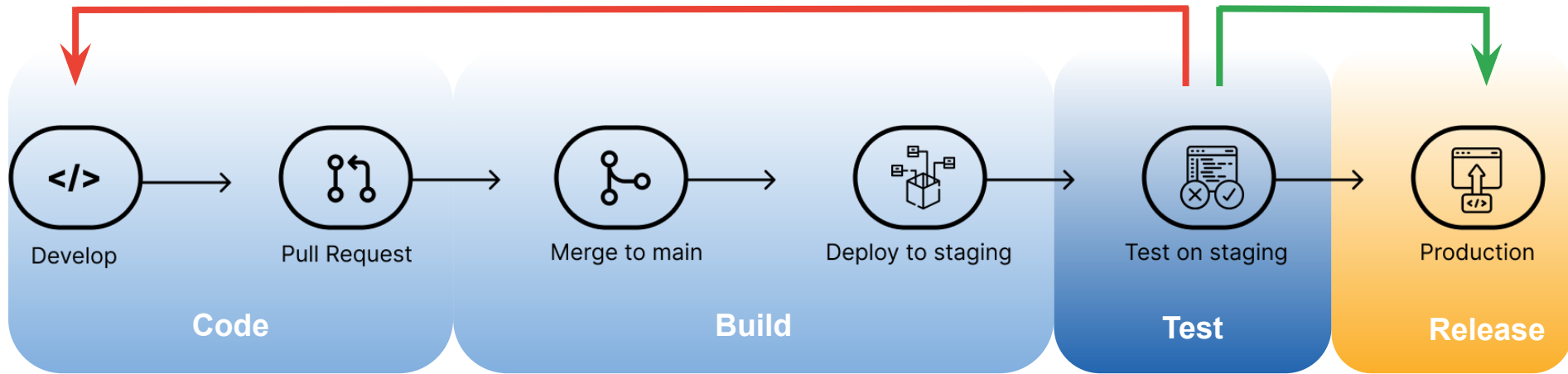
# The CI/CD pipeline



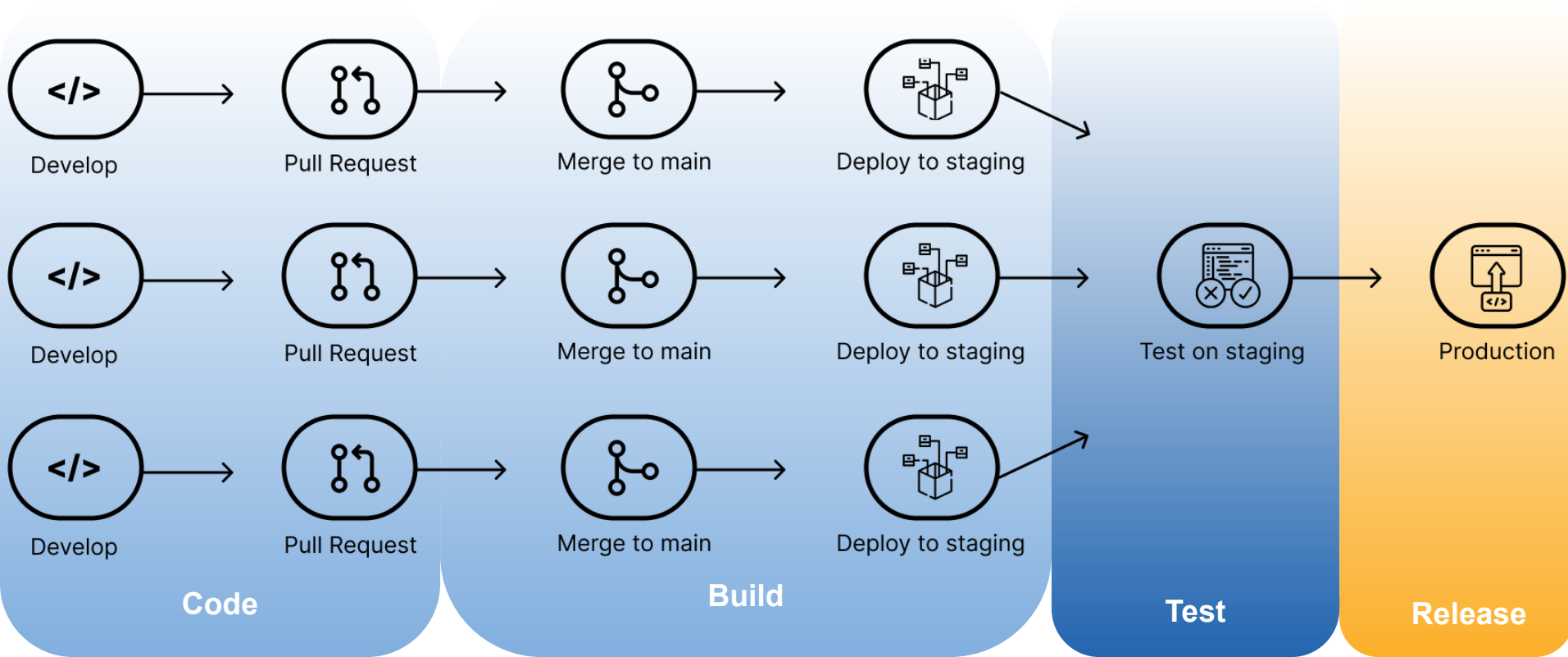
# A look at the developer side



# A look at the developer side



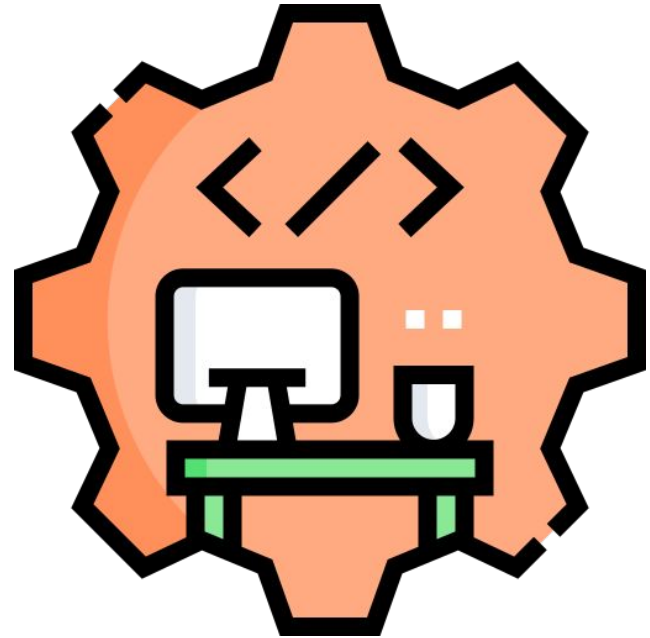
# A look at the developer side



# The Solution: Ephemeral Environments!

are short-lived, fully functional instances of your production environment

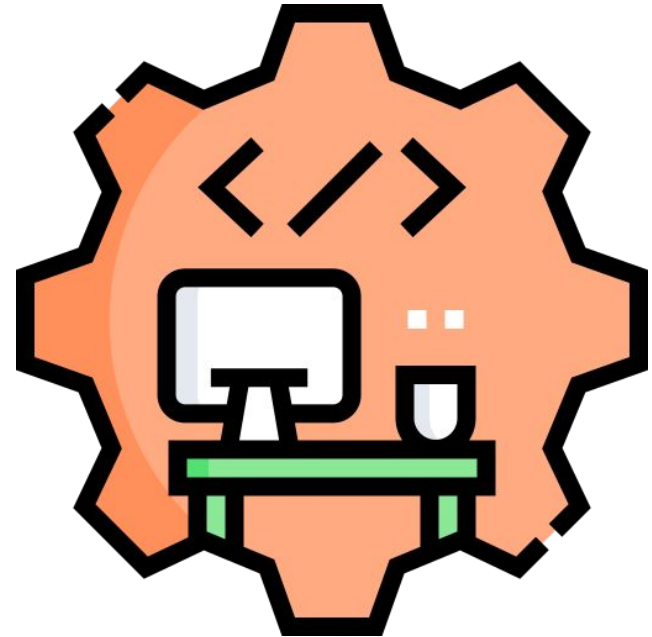
Also known as: "on-demand," "preview," or "dynamic" environments



# The Solution: Ephemeral Environments!

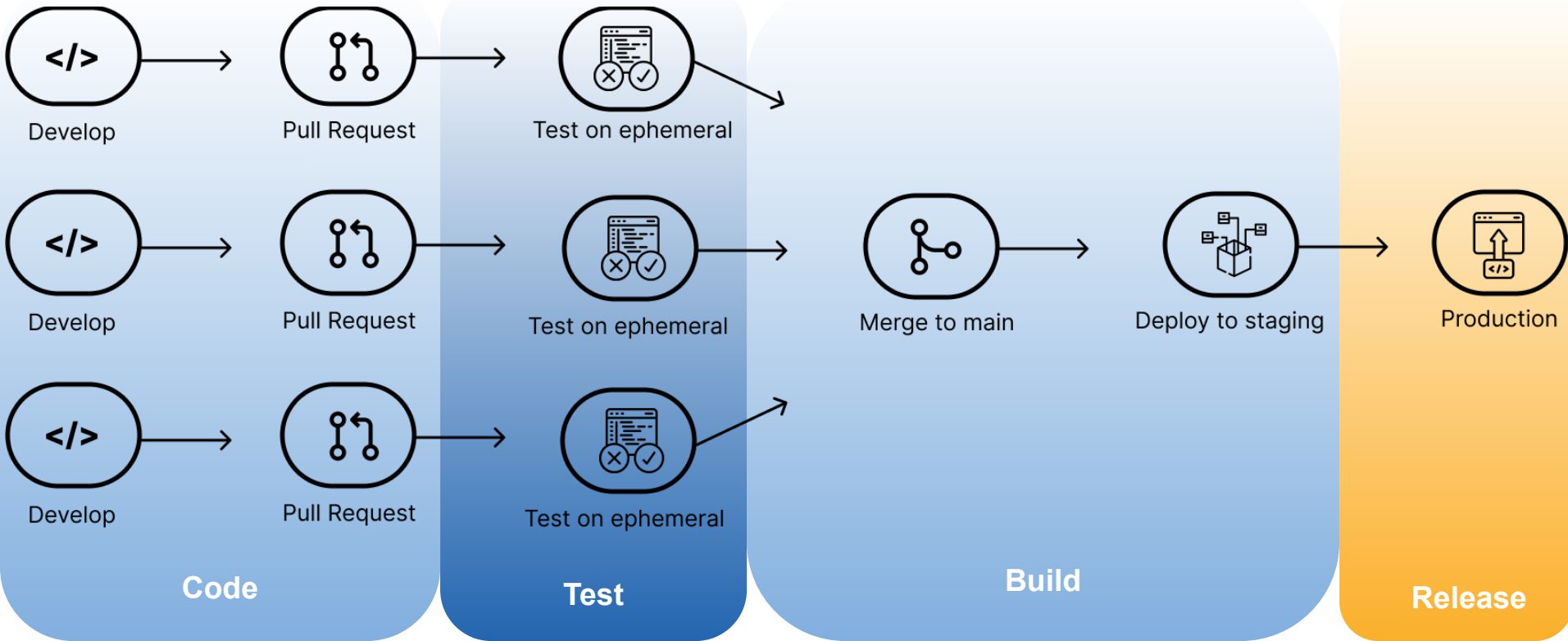
## Key Factors:

- Full Stack
- Short Lived
- Isolated
- Easy to access





# Ephemeral environments in the pipeline



# Case studies

- Company in the study
- Size of the company
- Ephemeral environment provider
  - EaaS

Company	Size	EaaS
Slai	1-10	Okteto
Piana	1-10	Quovery
Privacy Dynamics	11-50	Okteto
Noteable	11-50	Release
Tilled	11-50	Uffizzi
Tint	11-50	Quovery
Syment	11-50	Quovery
Healthie	51-100	Shipyards
MaestroQA	51-100	Shipyards
Replicated	51-100	Okteto
Homa Games	101-500	Okteto
Chipper cash	101-500	Release
<a href="#">Flat.mx</a>	101-500	Quovery
<a href="#">Monday.com</a>	500+	Okteto
Backstage	500+	Uffizzi

# Case studies

- Increase in developer velocity
- Saved engineering time
- Increase in features per release
- Reduced Bugs in Production
- Money Saved

Company	Size	EaaS
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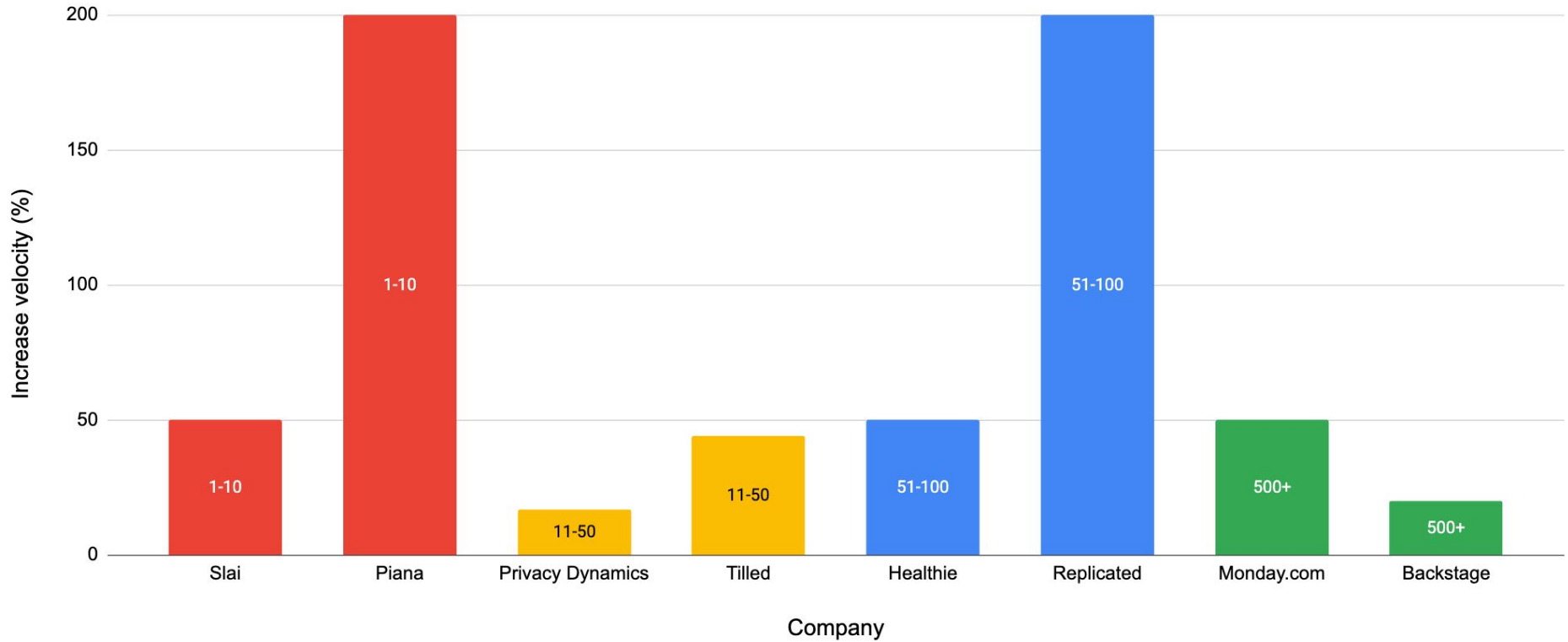
# Faster

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# Increase in Velocity



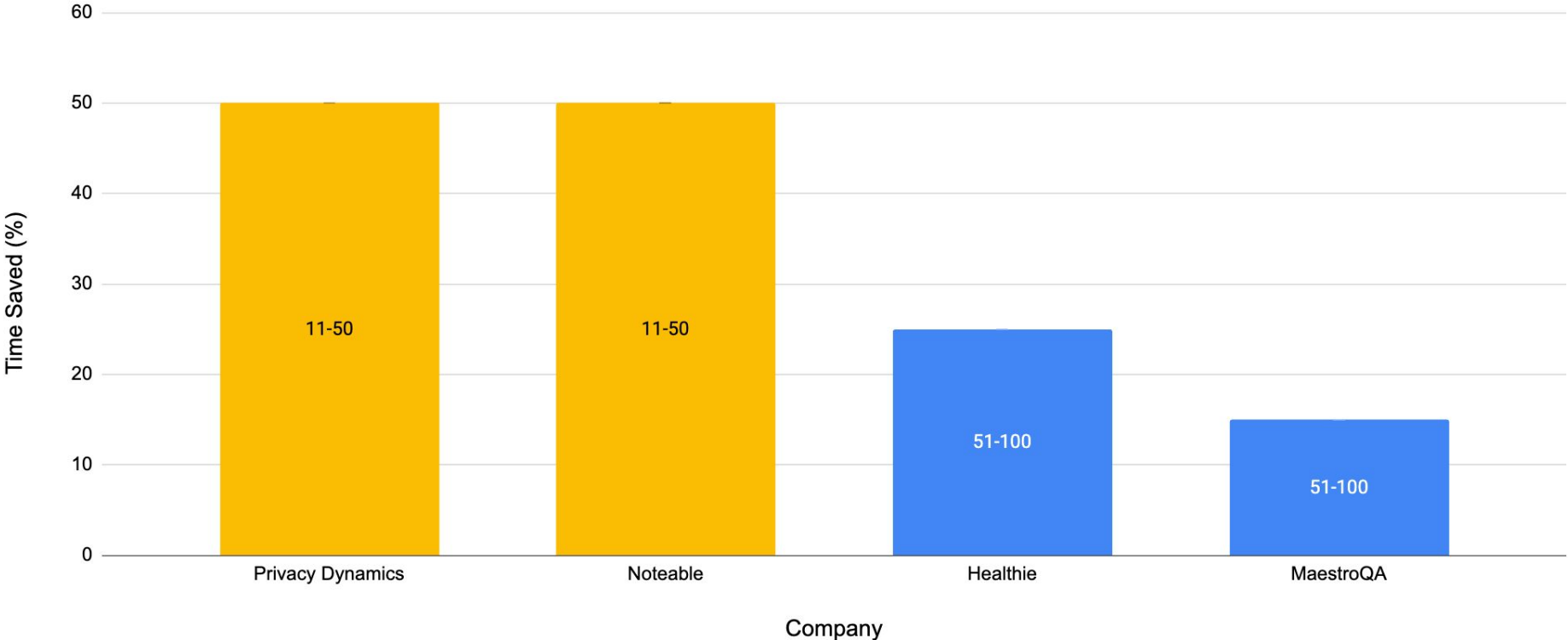
# Better

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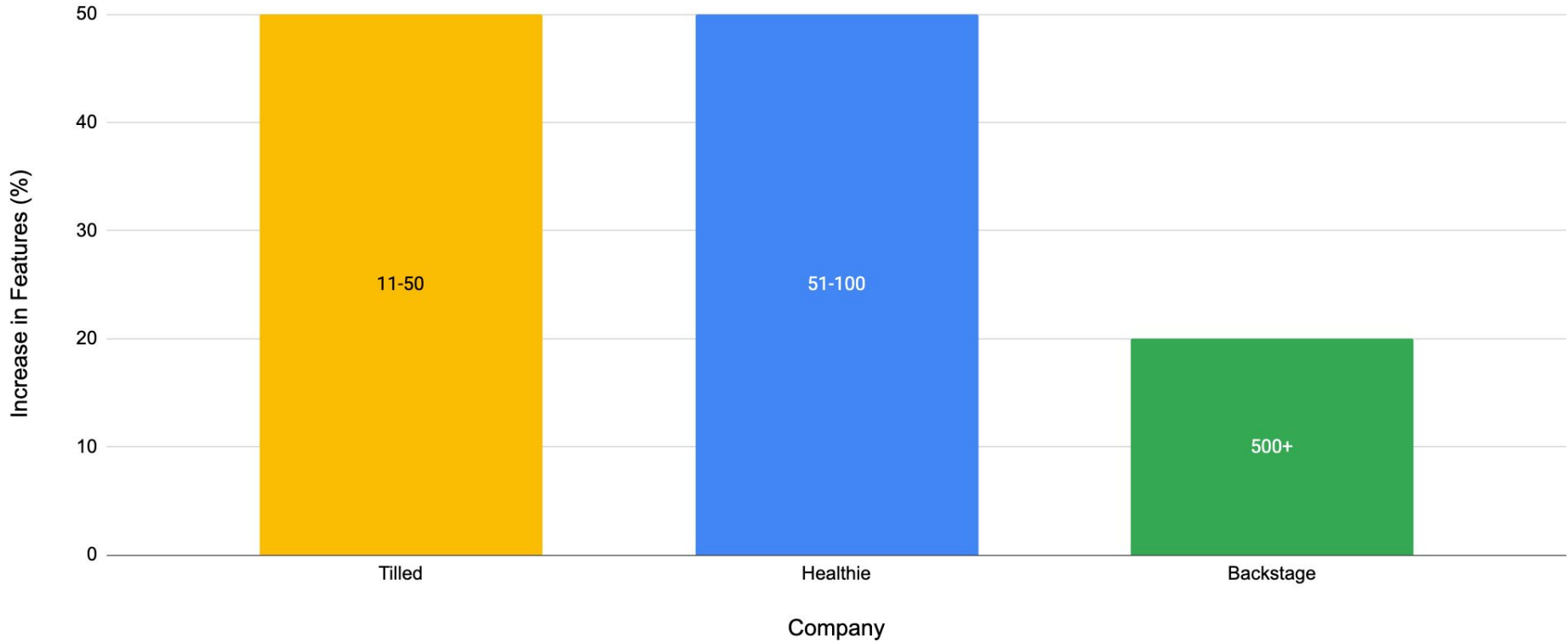
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# Time Saved by Engineers



# Increase in Features per Release







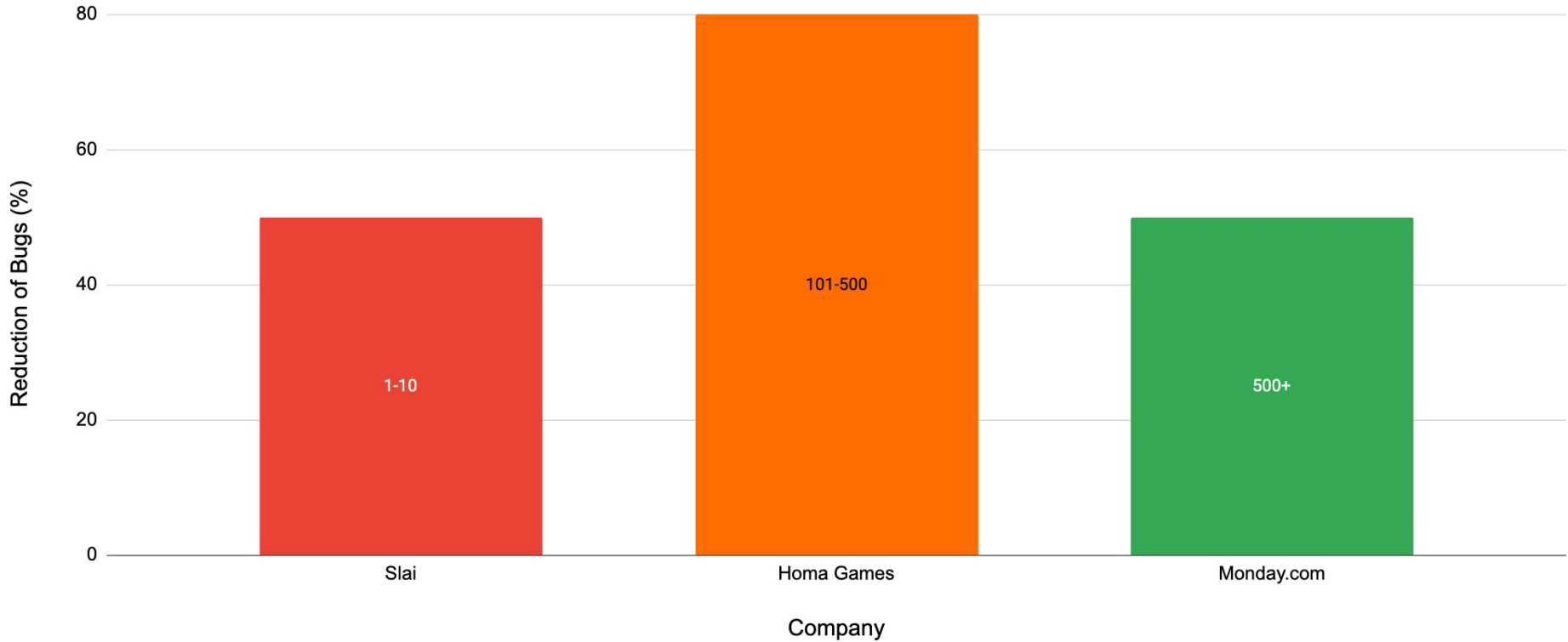
# Stronger

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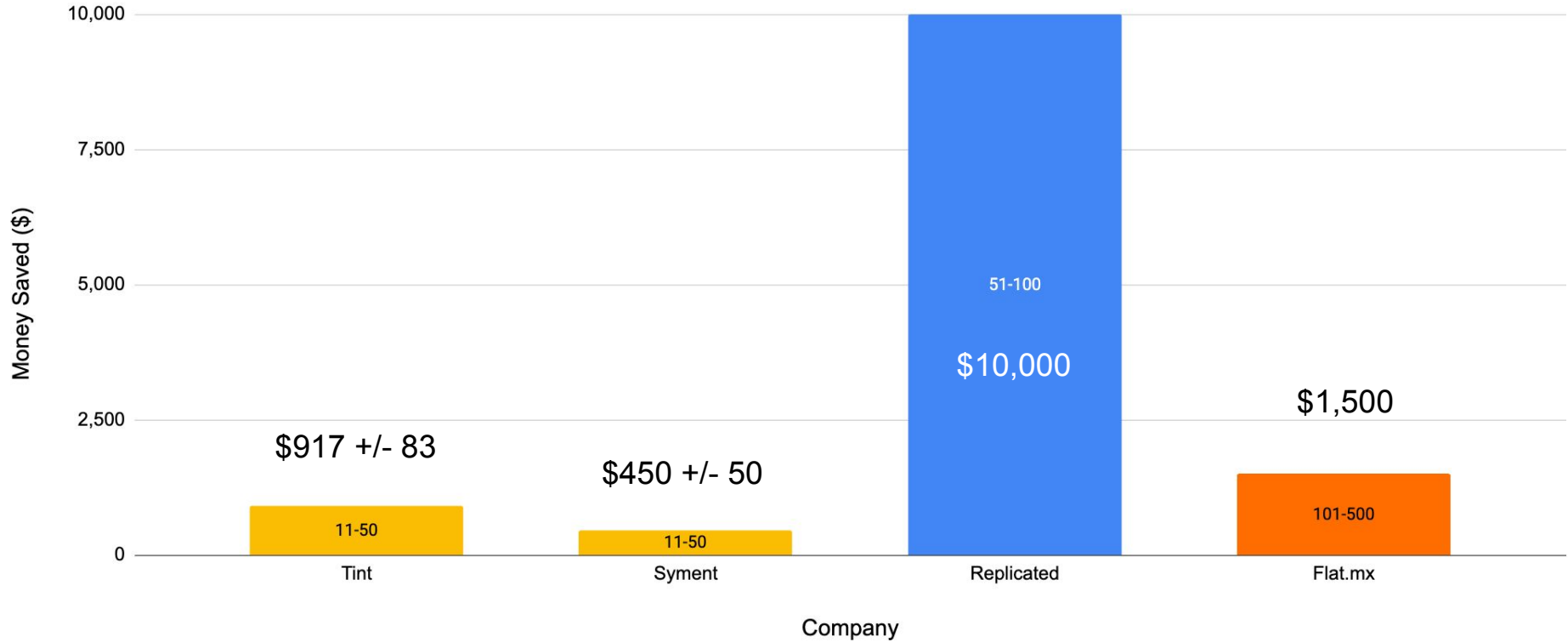
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# Reduced Bugs in Production



# Money Saved in Cloud Costs (per Month)



# Competitors in the space
















**ūffizzi**

 Qovery

 okteto

 Release

 Shipyard

Company	Open Source/ Free version	Git Options	Database Management	Price
		Github, GitLab		\$
		Github, GitLab, Bitbucket		\$\$
		Github		\$\$\$
		Github, GitLab, Bitbucket		\$\$\$\$
		GitHub		\$\$\$\$

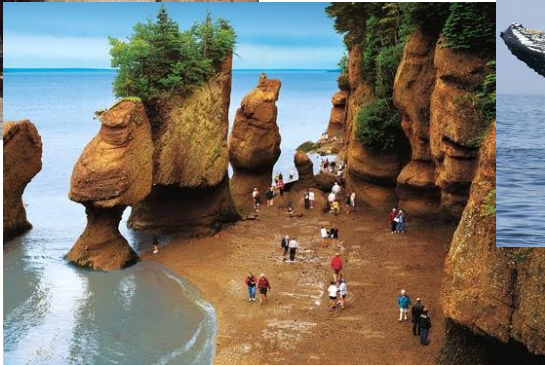
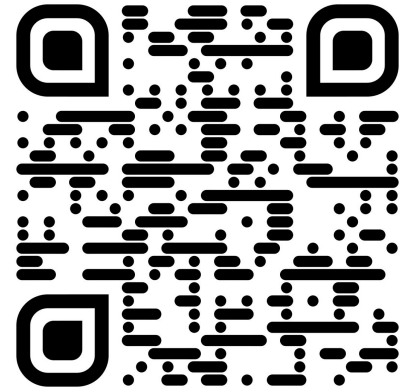
# DevOpsDays Halifax!!!

Where: Halifax, NS, Canada

When: Summer 2024

exact dates TBD

*Tech, Talks and Tides* 





# Agile ORLANDO 2023

JULY 24-28

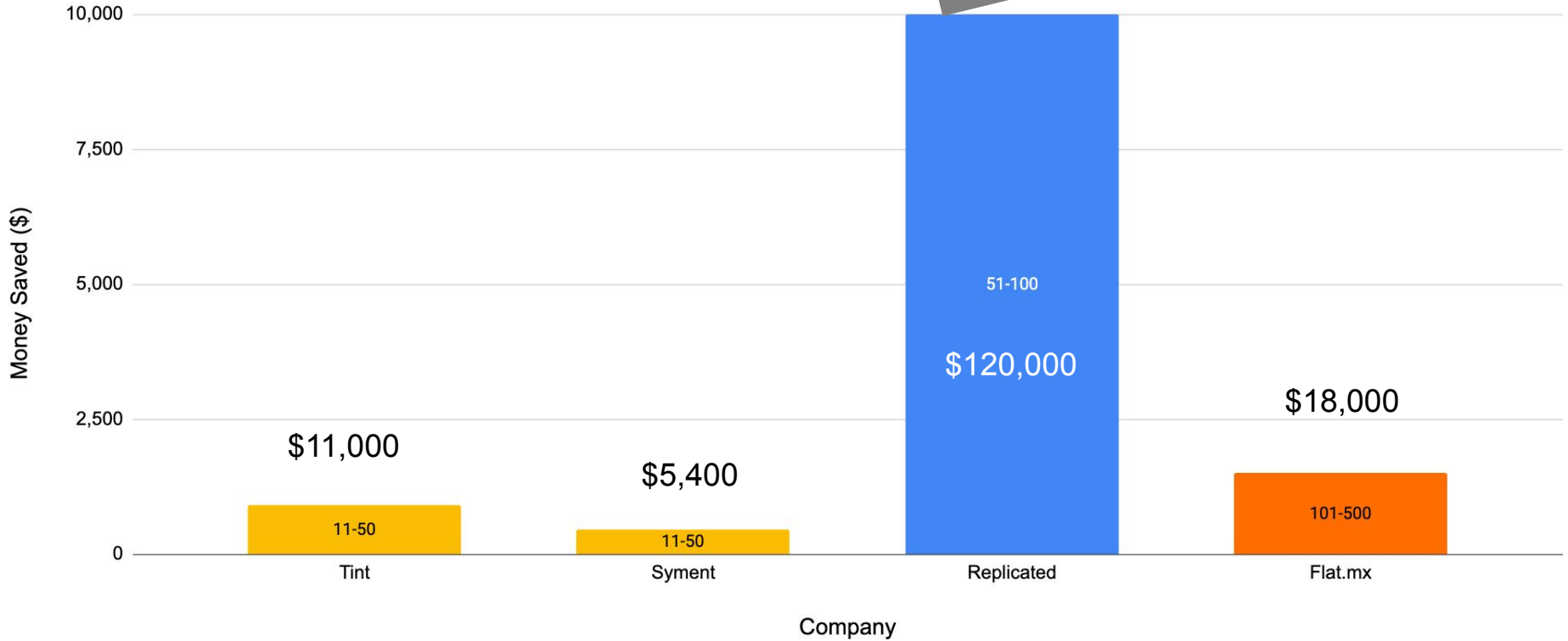
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# Money Saved in Cloud Costs **per year**





# Case studies

	Company	Size	EaaS
Red	Slai	1-10	Okteto
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# ephemeral env clusters

## ephemeral env clusters

- virtual kubernetes clusters
- allow larger & more complex applications
- not docker composed based
  - helm
  - kustomize
  - kubernetes manifests