

# FUN FACTS FOR EARLY BIRDS

Did you know that:

1. The word "**algorithm**" comes from the name of the Persian mathematician Muhammad ibn Musa **al-Khwarizmi**, who lived in the 9th century. His book on decimal numbers was translated into Latin under the title **Algoritmi de Numero Indorum** (meaning "Al-Khwarizmi on Indian numbers"). The title was misinterpreted to mean "algorithms on Indian numbers".
2. The word **Chess** (as well as **check**) come from the Persian word **shah** which means "king". **Checkmate** means "the king is dead".
3. Not all infinities are the same. There are more real numbers than natural numbers, but natural numbers and rational numbers have the same cardinality.
4. The word **tulip** comes from the Persian word **dulband** meaning "turban", a headwrap worn by men.
5. The word **magic** comes **magh**, a Persian word for the priests of Zoroastrianism, an Iranian religion practiced since 16th century BCE.
6. Speaking of Zoroastrianism, the word **Paradise** comes from Old Iranian word **paridaiza**, meaning "enclosed garden". This word was loaned in Greek as **paradeisos** and was used by Xenophon and others for an orchard or royal hunting park in Persia, and it was taken in Septuagint to mean "the garden of Eden," and in New Testament translations of Luke xxiii.43 to mean "the Christian heaven, place where the souls of the righteous departed await resurrection".
7. Al-Khwarizmi has another book called **al-mukhtasar fi hisab al-jabr wa al-muqabala** meaning "the compendium on calculation by restoring and balancing". **Al-jabr** "restoring" became **algebra** in Europe.



# Test in Production with Kubernetes and Telepresence

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Mohammad-Ali A'râbi

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# TL;DR



What?

I'm going to introduce  
Telepresence



Whom?

For people who deploy to  
Kubernetes for testing

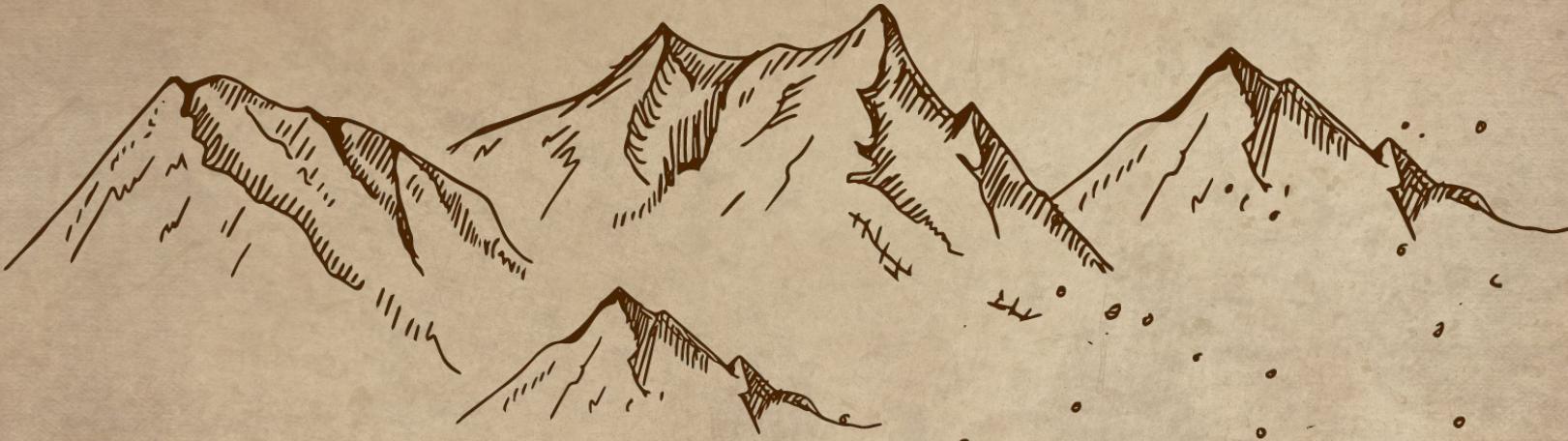


Why?

Because, good stuff



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01 Test in prod  
02 Staging  
environment

03 Telepresence

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# Mohammad-Ali A'rabi

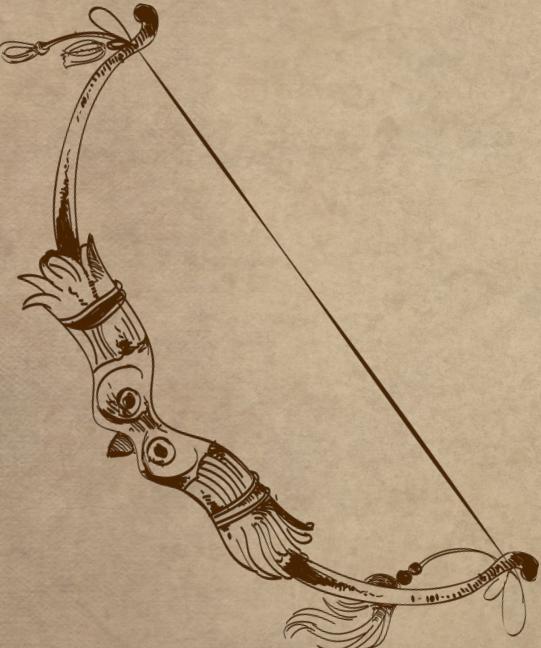
Software Engineer @ Jodel  
Docker Captain

Based in Freiburg, Germany

**aerabi** @ GitHub, Medium,  
LinkedIn, Telegram, GoodReads  
**aerabi.com** @ BlueSky  
**MohammadAliEN** @ Twitter



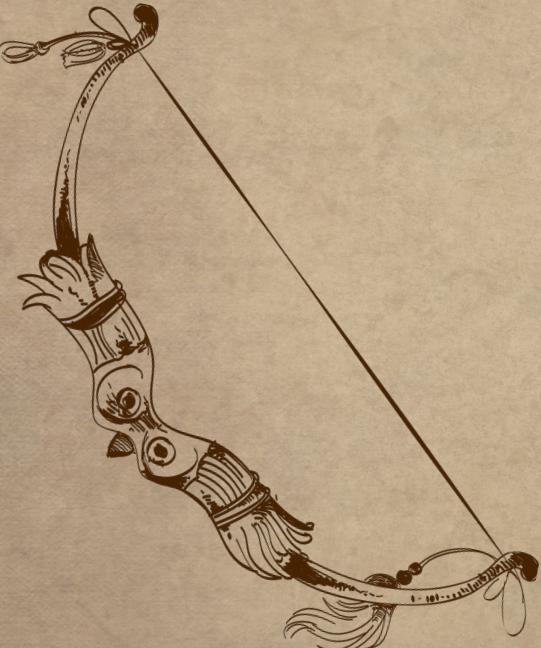
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01

# Test in prod

I don't always test, but when I  
do, I do in prod



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# 2015

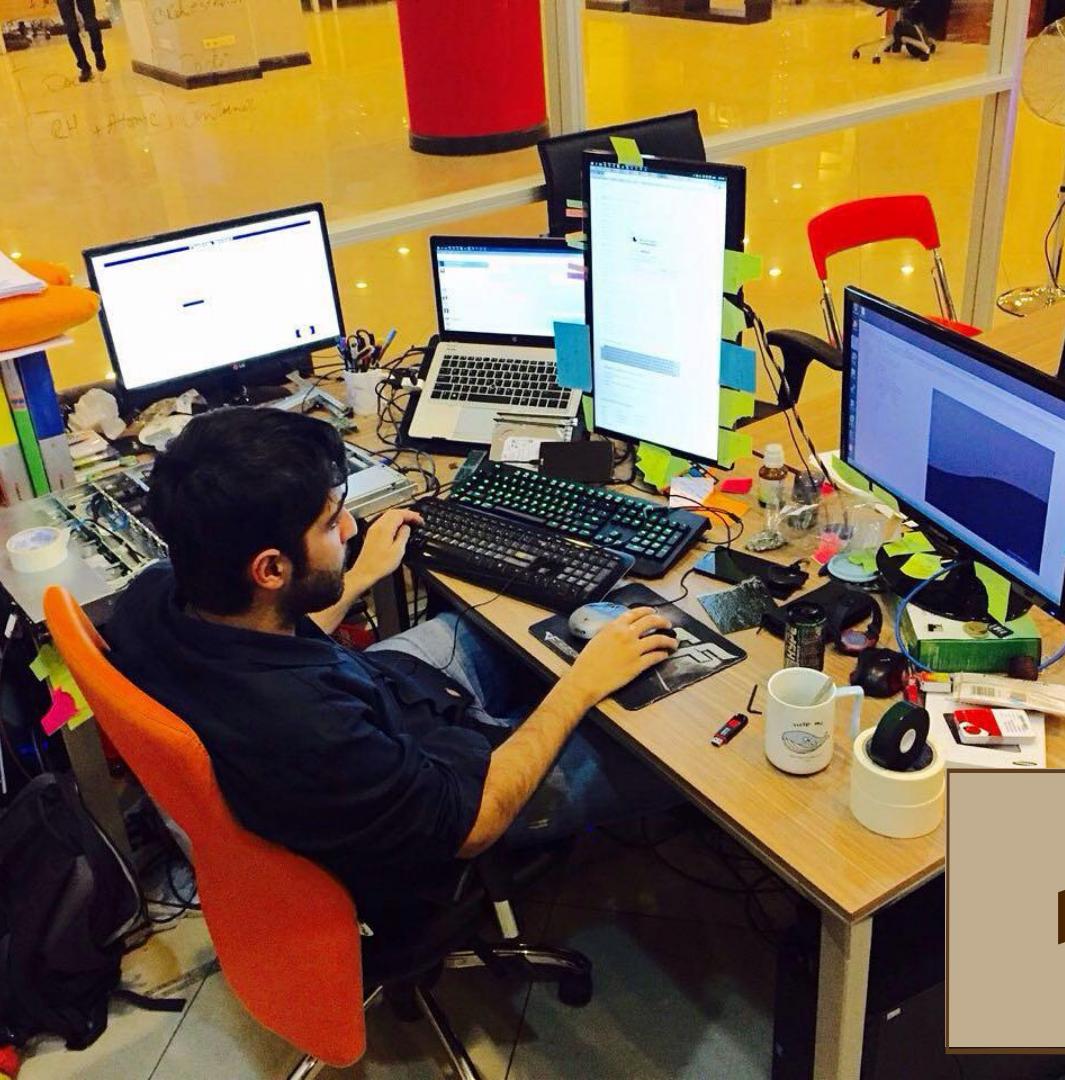
Tehran



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“Don’t test in prod.”

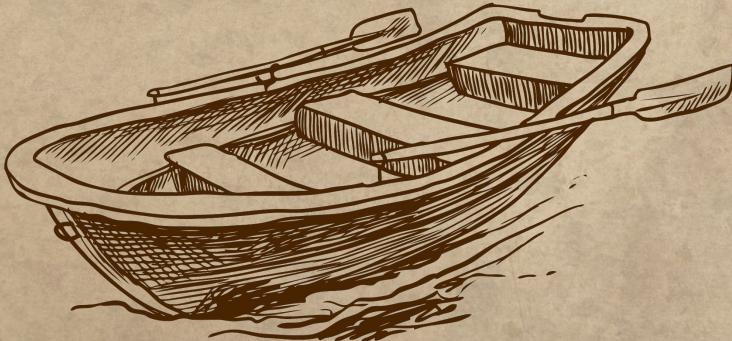
—SOMEONE FAMOUS

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02

# STAGING ENVIRONMENT

Great! Now it takes even  
longer to deploy to prod!



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# 2018

Amsterdam



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*Lovely summer day in Holland*

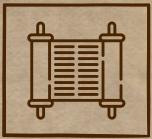


*my face*

*After breaking the prod...*



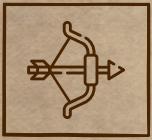
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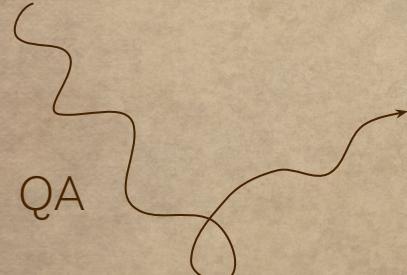
write code



merge



staging



QA



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“Shared staging env  
prolongs review cycles.”

—SOMEONE FAMOUS

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# HALFWAY THERE



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# 2022

Berlin



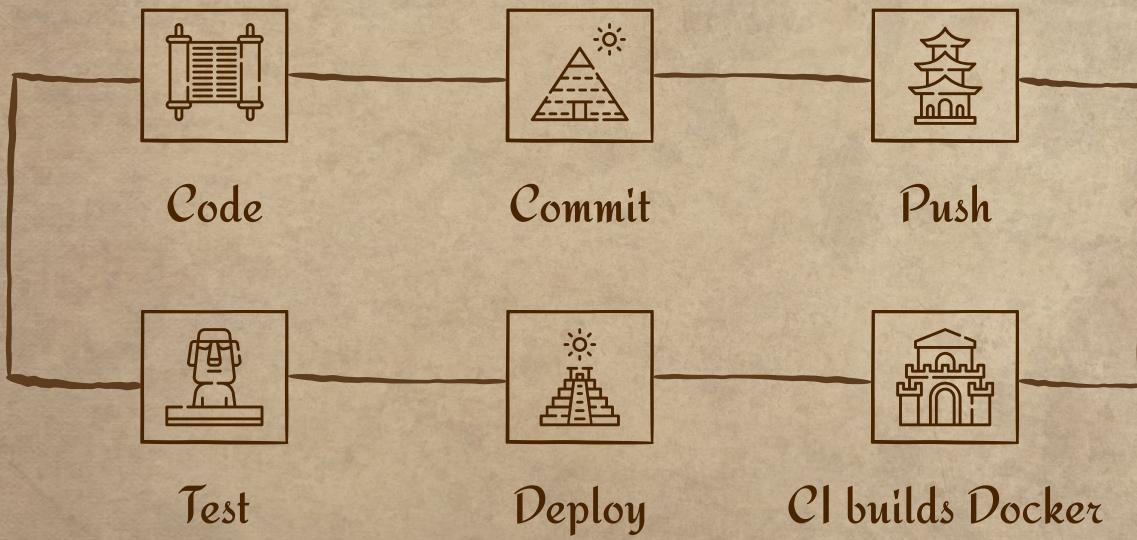
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my face



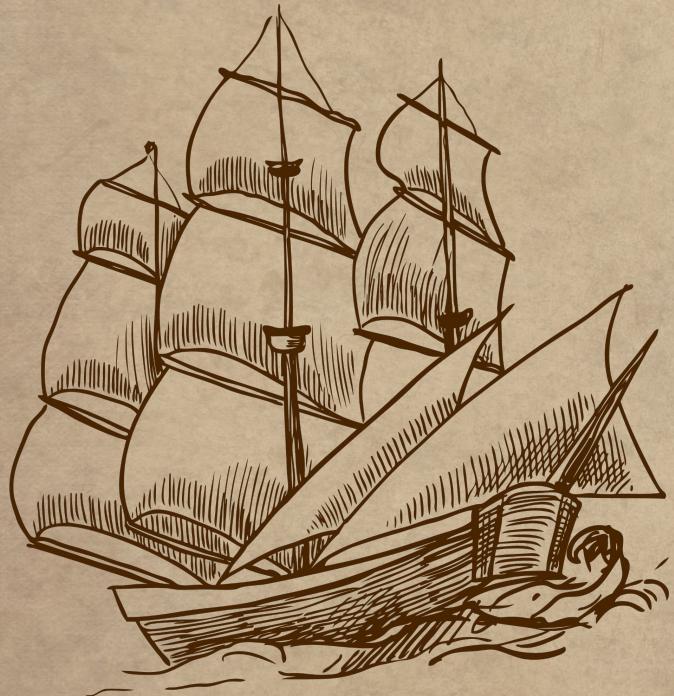
# PERSONAL STAGING ENVIRONMENT



*It's a killer process*



*my face*

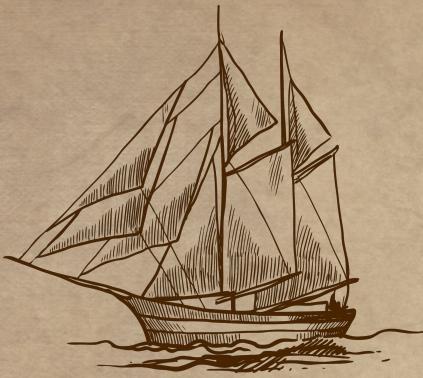


03

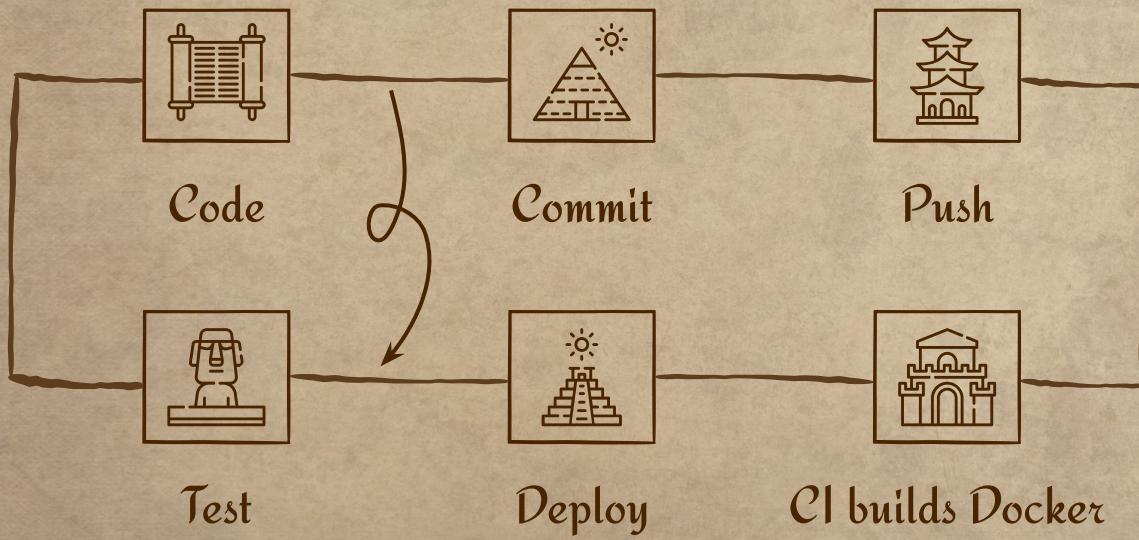
## Telepresence

Telepresence is like a séance,  
except that you're the dead.

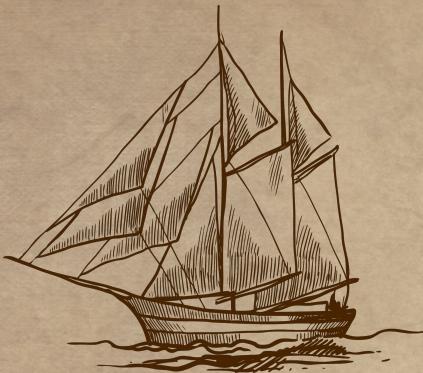
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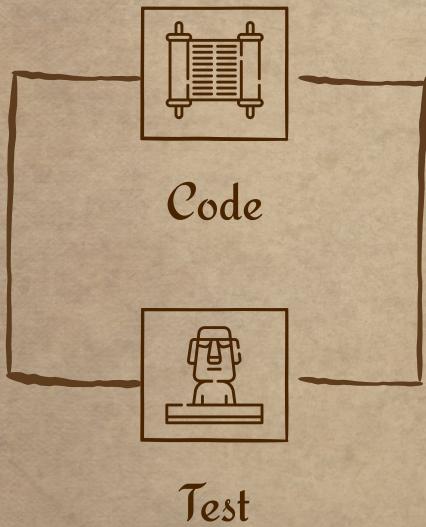
# PERSONAL STAGING ENVIRONMENT



my face

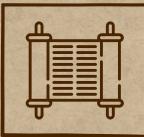
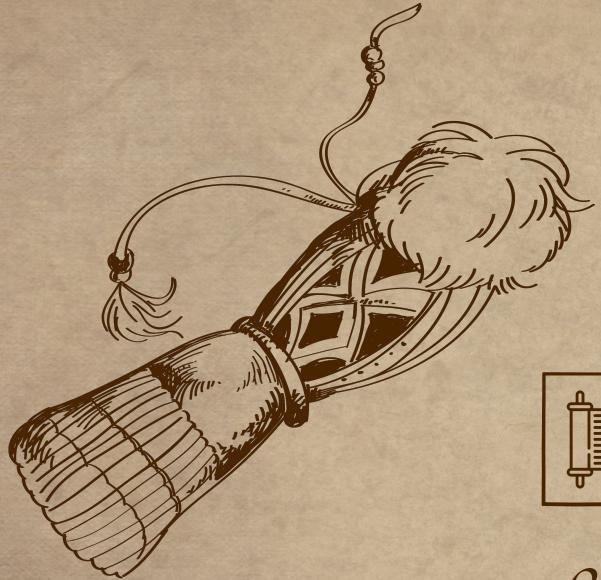


# PERSONAL STAGING ENVIRONMENT



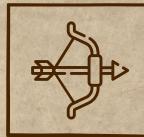
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# TELEPRESENCE



## Code

The service you're working on  
is running on your local  
machine

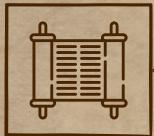


## Deployment

Telepresence  
redirects requests  
to your machine

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# FEATURES



GLOBAL

— global interception mode:  
redirects all the requests to a service



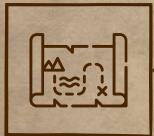
PERSONAL

— personal interception mode:  
redirects only requests with certain header



OPEN SOURCE

— Telepresence is open-source



DOCKER

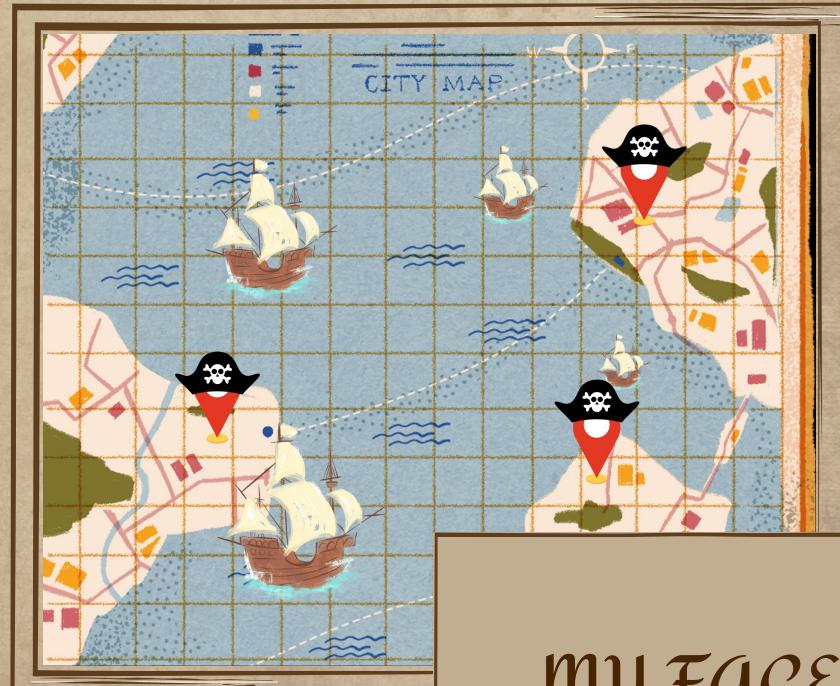
— Docker Desktop  
extension

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# BLOG

Accelerate Kubernetes  
Development and Testing  
with Telepresence

[aerabi.medium.com](https://aerabi.medium.com)





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# conclusions

## 1. STAGING ENVIRONMENT

Makes your deployments more  
easy-to-test

## 2. TELEPRESENCE

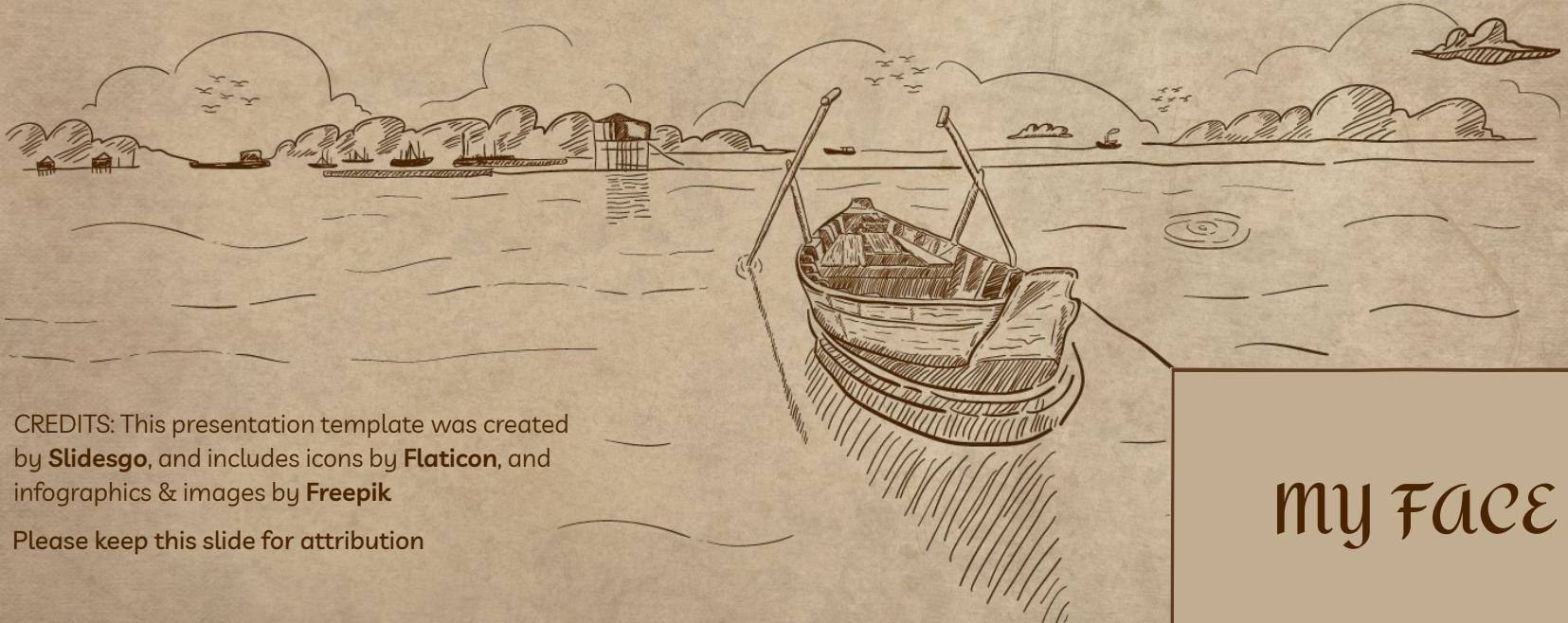
Makes the feedback loop shorter and  
allows you to mock the Kubernetes  
service



# THanks

Please don't forget to like and subscribe

@MohammadAliEN  
aerabi.medium.com





DO YOU HAVE  
any  
QUESTIONS?

The slides are here:  
[github.com/aerabi/talks](https://github.com/aerabi/talks)

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