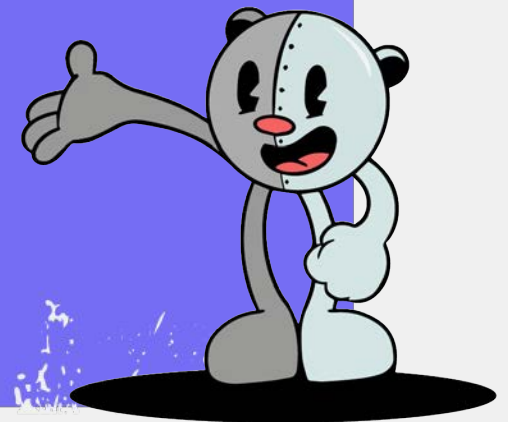




# Cloud Testing Without the Wait: Transforming the Kubernetes Development Experience

Anita Ihuman, MetalBear



# I am...

- **Developer Advocate at MetalBear**
- **Open Source fan girl**
- **DEI Advocate and a member of the Board at CHAOSS**
- **Organiser at KCD Nigeria and CNCF Abuja**



# AGENDA



**Traditional  
development  
workflows**



**Shift left on  
cloud testing**

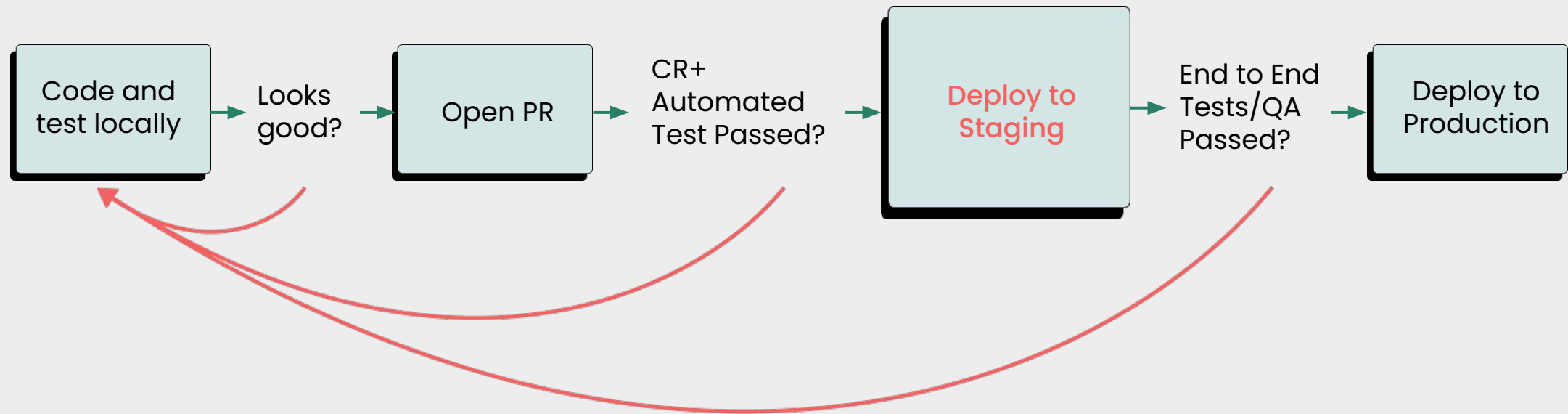


**Benefits of  
shift left on  
cloud testing**



**Live  
demo of  
mirrord**

# The Legacy Dev Workflow



👎 Slow

👎 Fragile

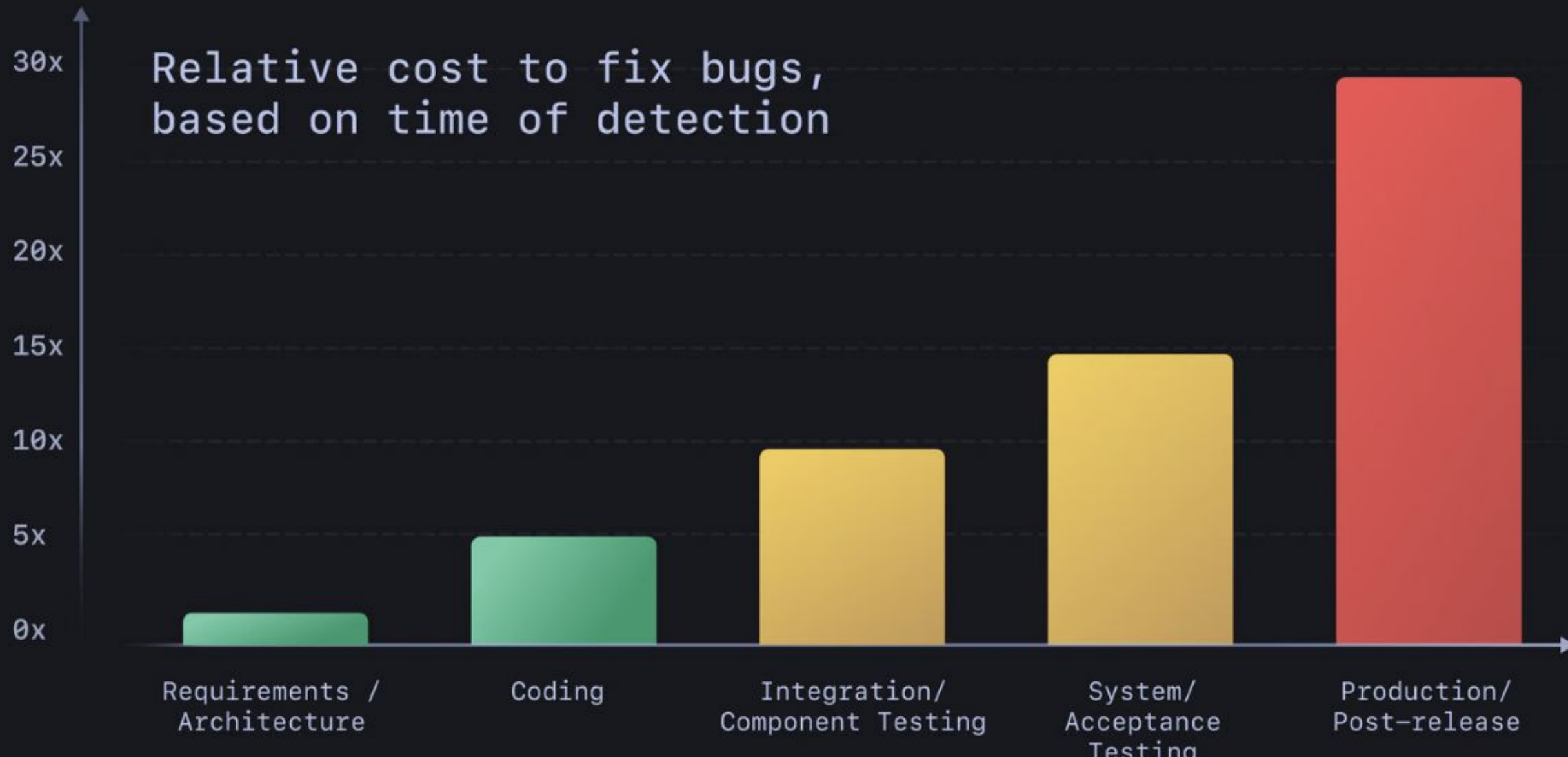
👎 Time to market or quality suffer

👎 Gets worse as org grows

# Issues with this reality are:

- **Difficulty debugging issues**
- **Suboptimal testing conditions**
- **Decreased developer productivity**
- **Increase in cloud cost**
- **Longer time to market**





# What is Shift Left Testing?

- *Pushing testing to earlier in the workflow*
- 

**However, shifting cloud testing left means:**

- *Moving cloud-based testing earlier in the development process*

# The key principles of this are to ensure:

- **Early bug detection**
- **Continuous feedback loops**
- **High-quality application with fewer code patches**
- **Reduce the instances of delay**



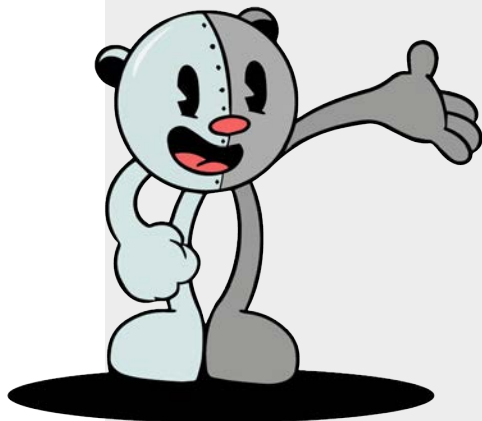


# Benefits of Shifting Cloud Testing Left

**Early Bug Detection**

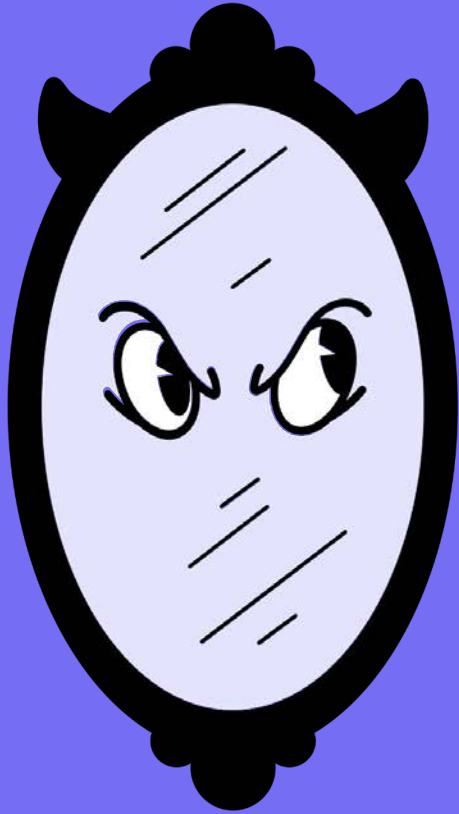
**Increased  
Efficiency**

**Cost Savings**



**Faster Development**

**Developer Wellbeing**



# mirrord

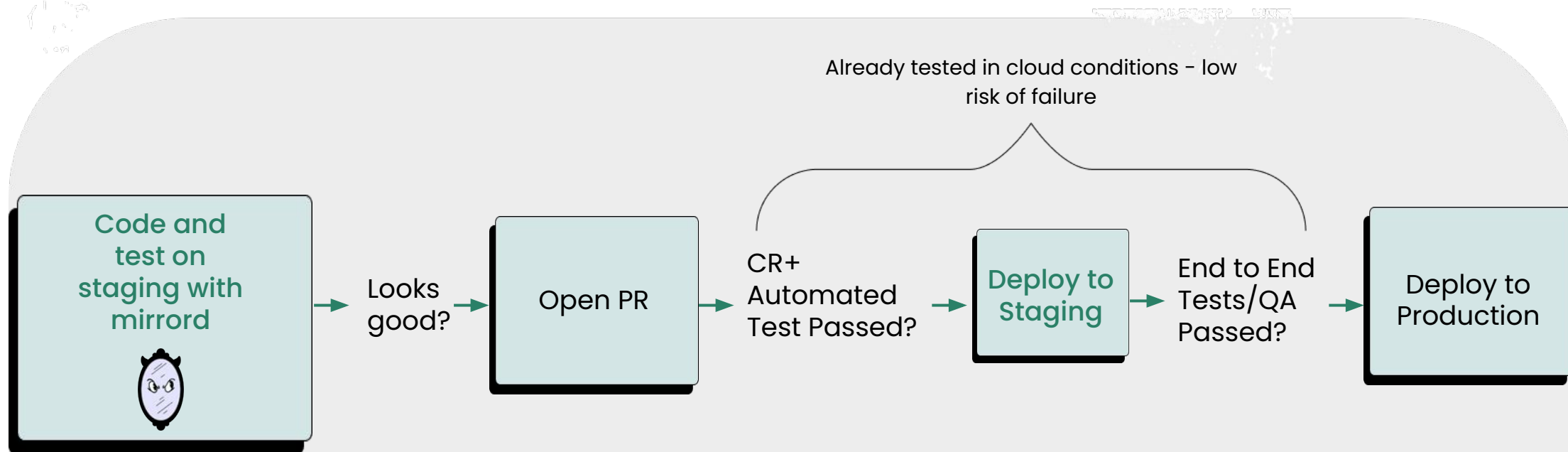
saves the day! 🙌

# What is mirrord?



- Comes as a CLI Tool or IDE Plugin
- Lets developers run a **local process** in the **context of their cloud environment**.
- Enables developers to work locally, but on a remote **shared environment**
- Keep the convenience of local development
- Resulting in: higher **developer velocity**, faster **time to market**, and lower **cloud costs**

# The Dev Workflow with mirrord



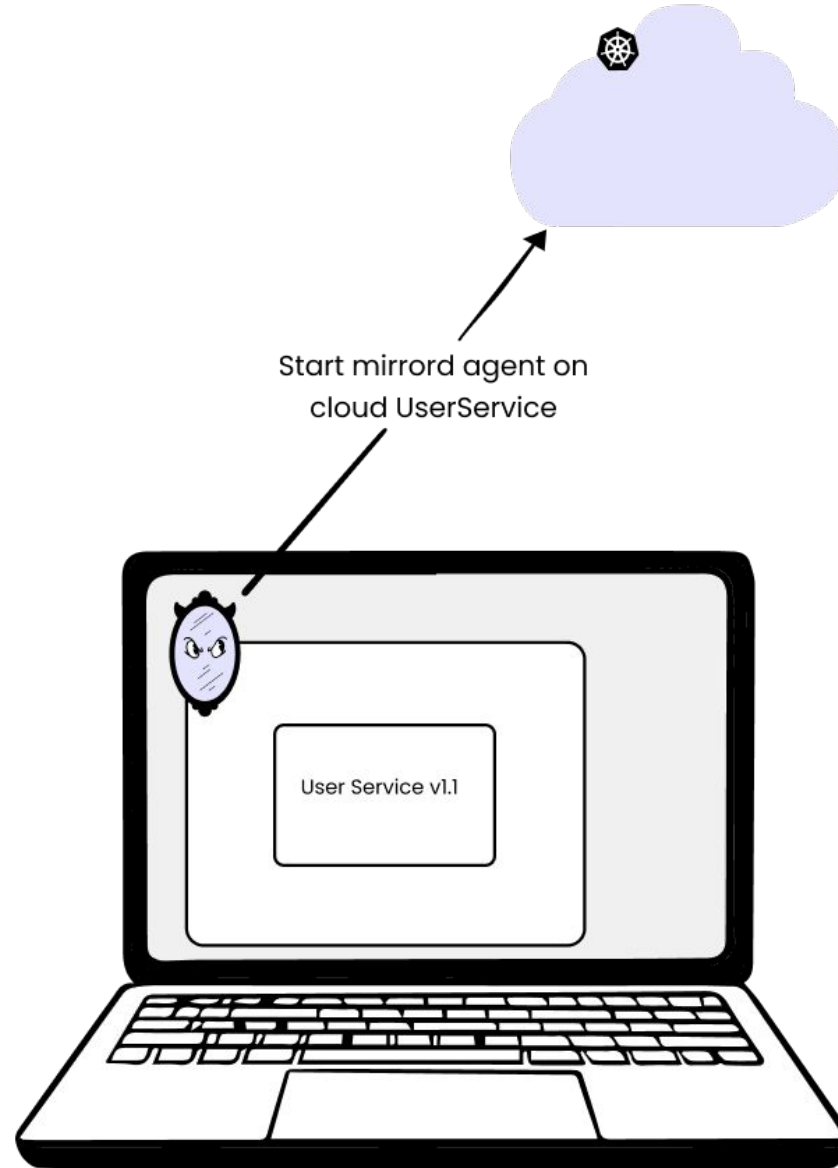
Immediately test in cloud conditions

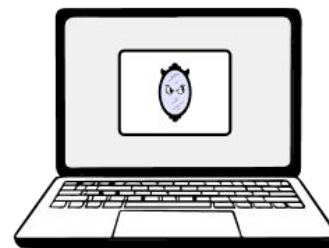
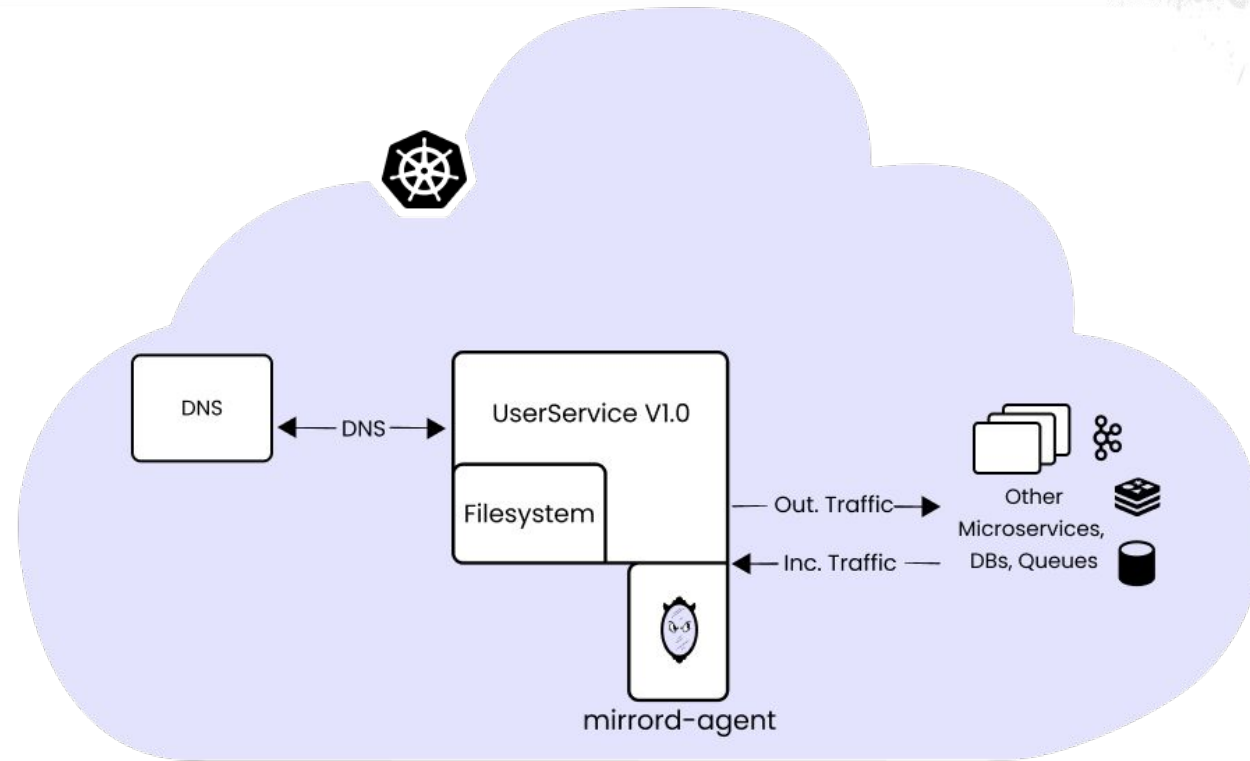


Less time spent on mocks and simulations



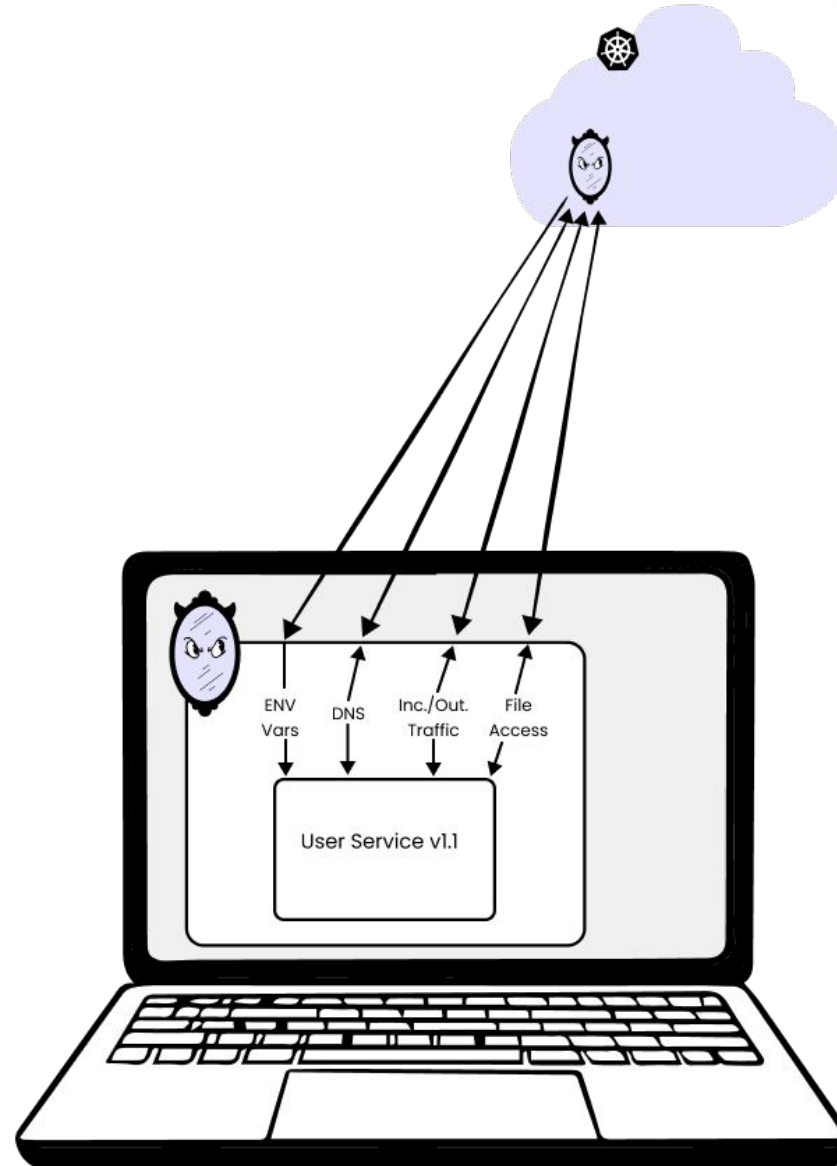
Low chance of failure in later stages

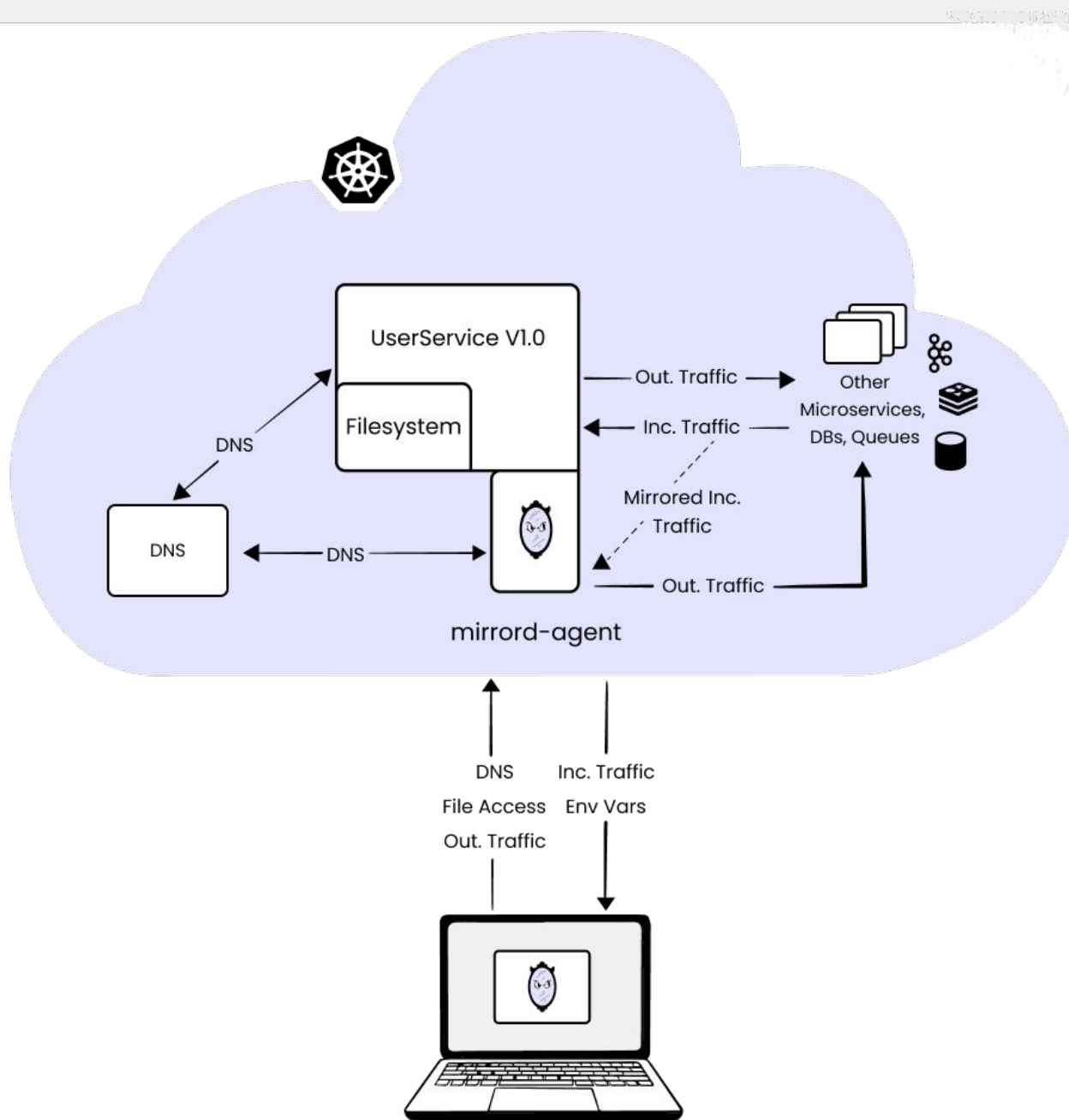




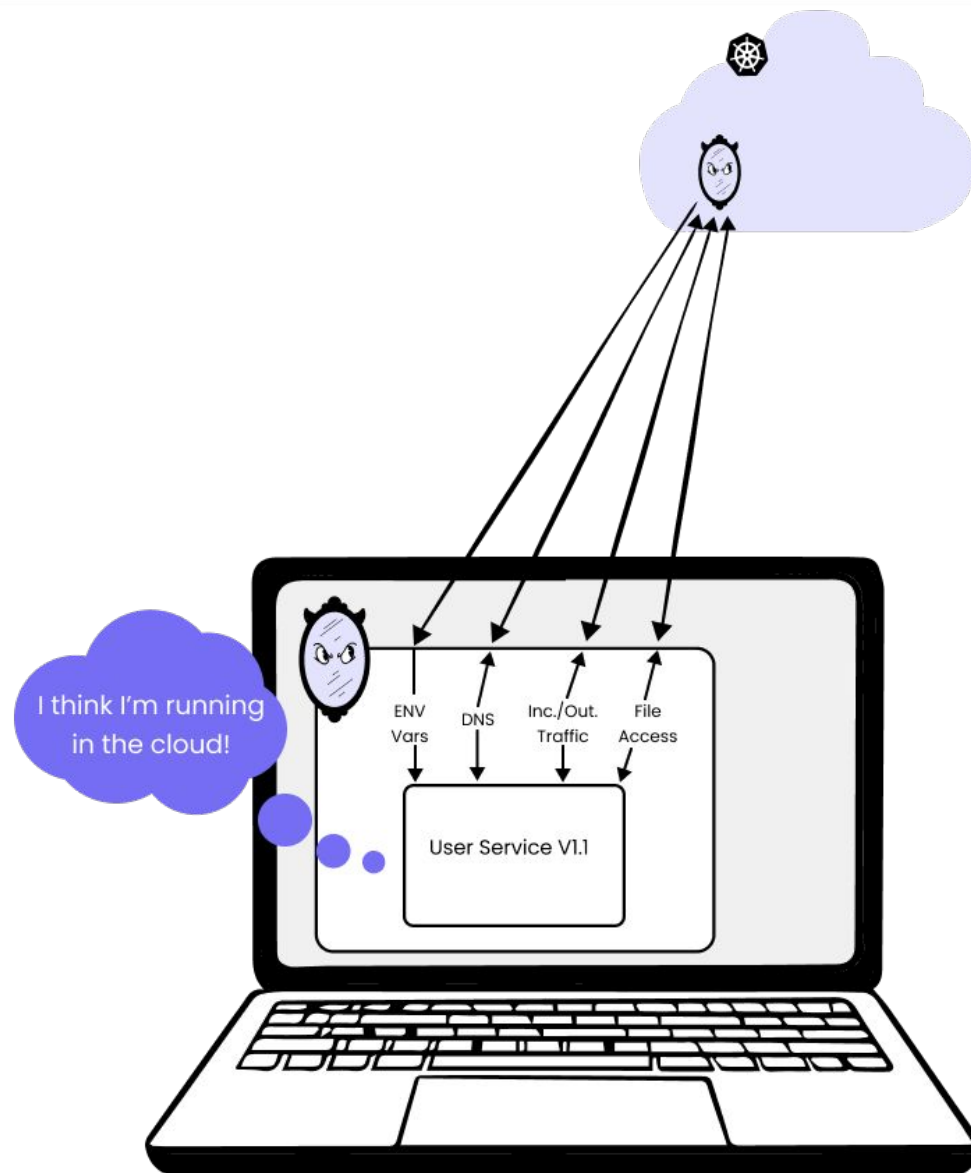


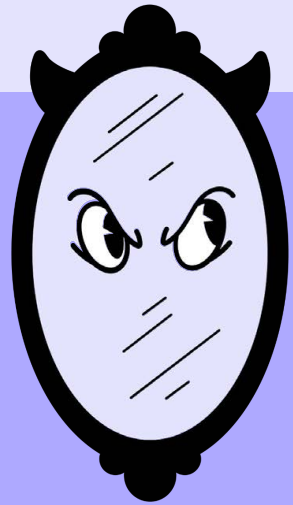
**mirror**d





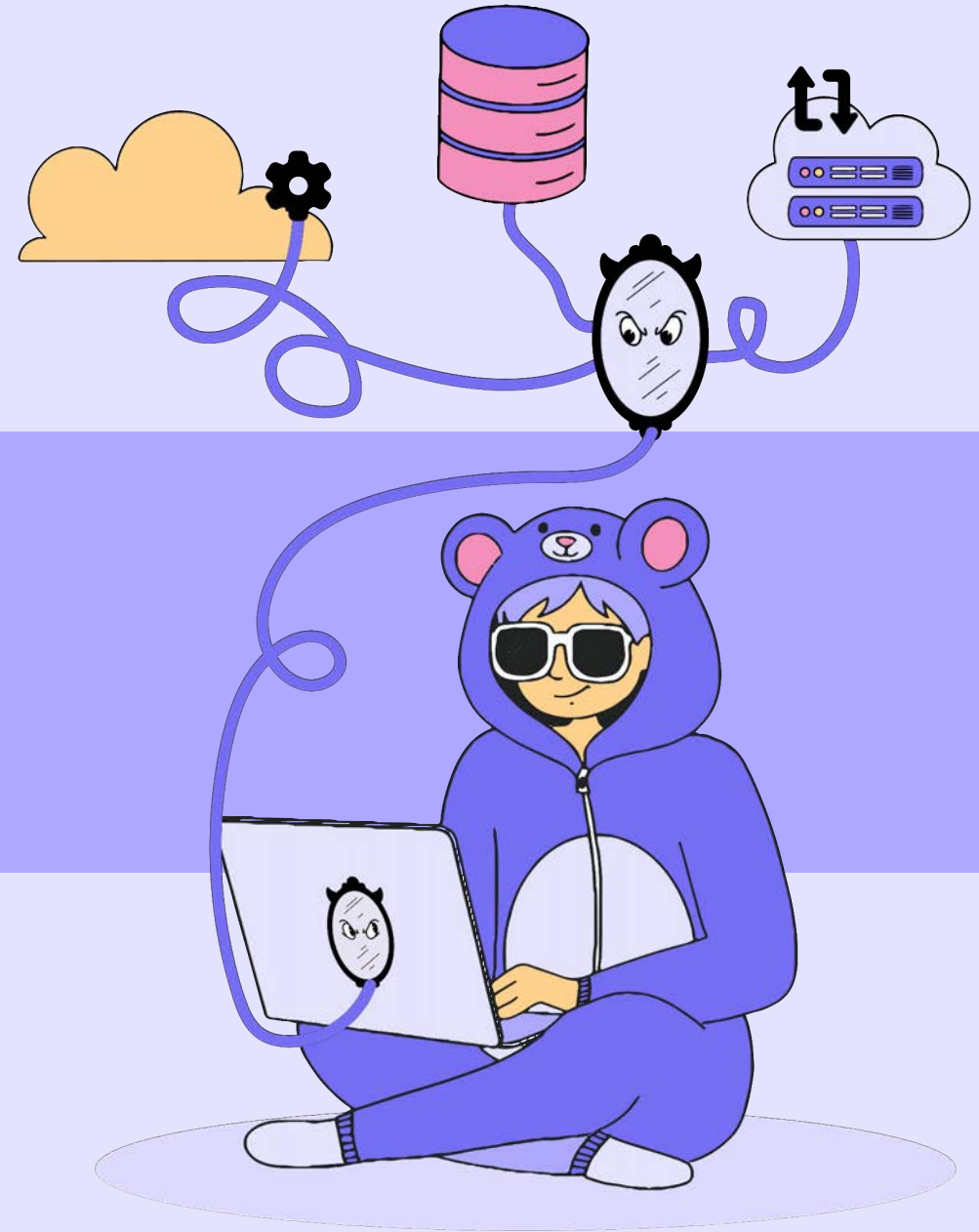






# mirrord

in action





**mirrord**

<https://mirrord.dev/>

<https://github.com/metalbear-co/mirrord>

<https://discord.gg/metalbear>

anitai@metalbear.co

