

The background features a dark blue gradient with abstract, overlapping shapes in shades of purple and magenta. Two thin, light blue lines intersect to form a large 'A' shape that frames the text on the left.

AWS re:Invent

DECEMBER 2 - 6, 2024 | LAS VEGAS, NV

COP325

Operating your fleet of resources at scale is easier than you think!

Erik Weber

(he/him)

Sr. Specialist Solutions Architect

AWS

Oren Nachman

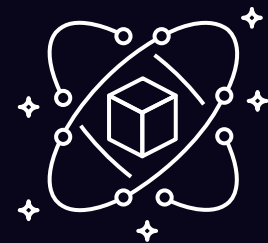
(he/him)

Intelligent Ops Products

AWS



Agenda



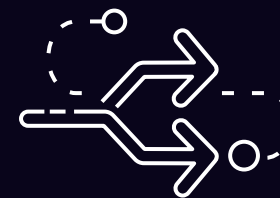
The journey to solid operations



Introducing Banilux!



Making things better



Key takeaways

The no-judgement zone

Who here:

- Uses **multiple systems** to patch nodes?
- **Manually** patches?
- Do you RDP/SSH **directly** into your nodes?
- Does not have a node **inventory**?
- Manually tracks **software licenses**?



The road to solid ops is paved with oopsies



Manual patches

No consistent server inventory

RDP/SSH directly into servers

Manually tracked software licenses

Multiple systems to patch servers



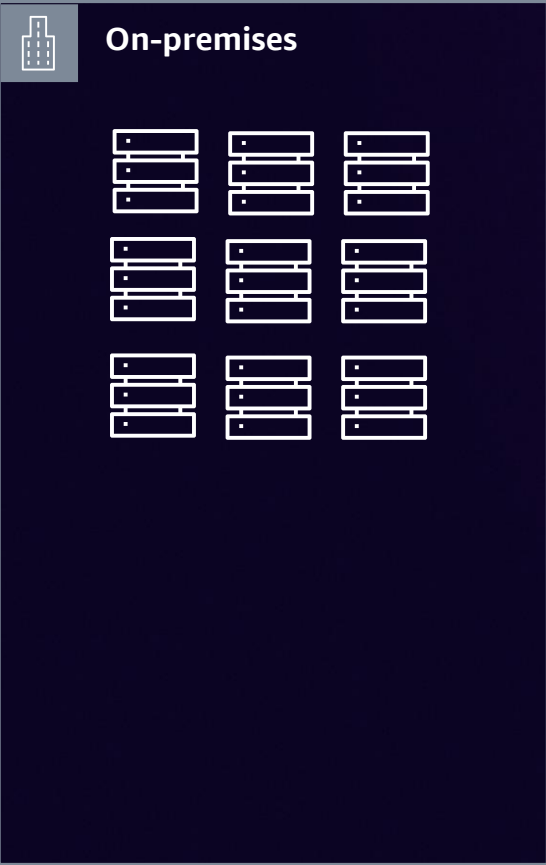
Introducing . . .



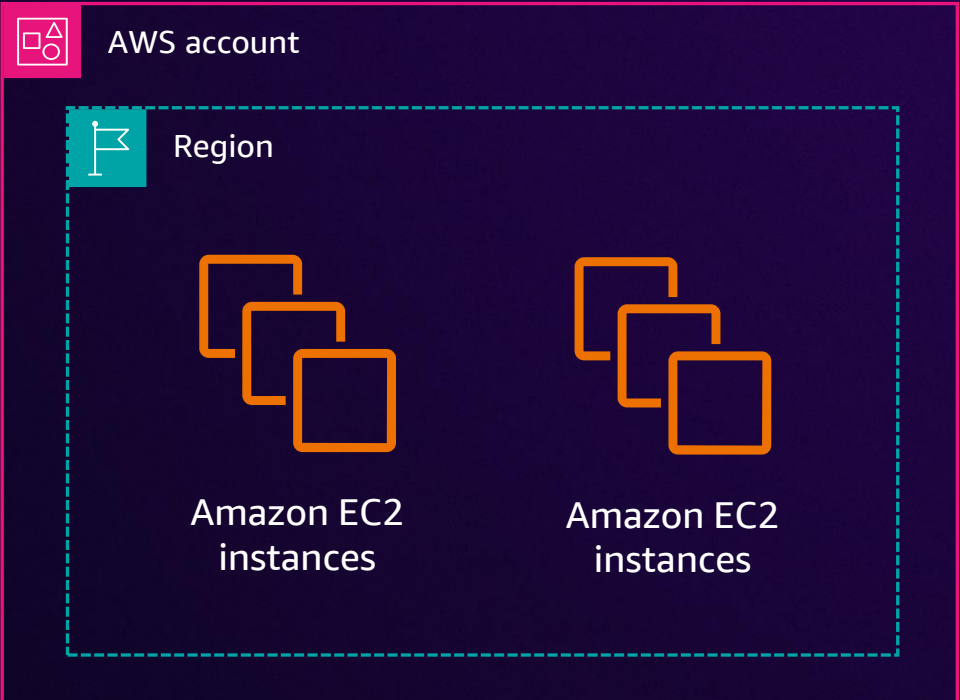
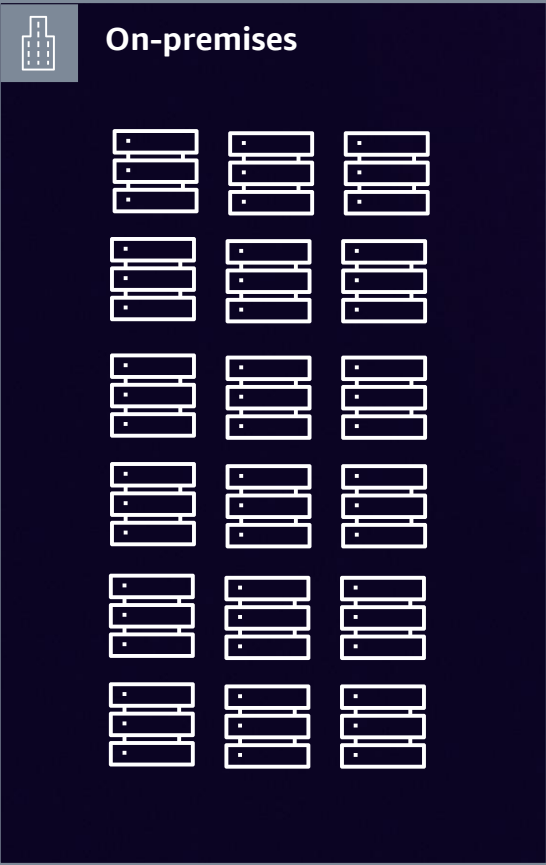
bananas for all your lighting needs . . .



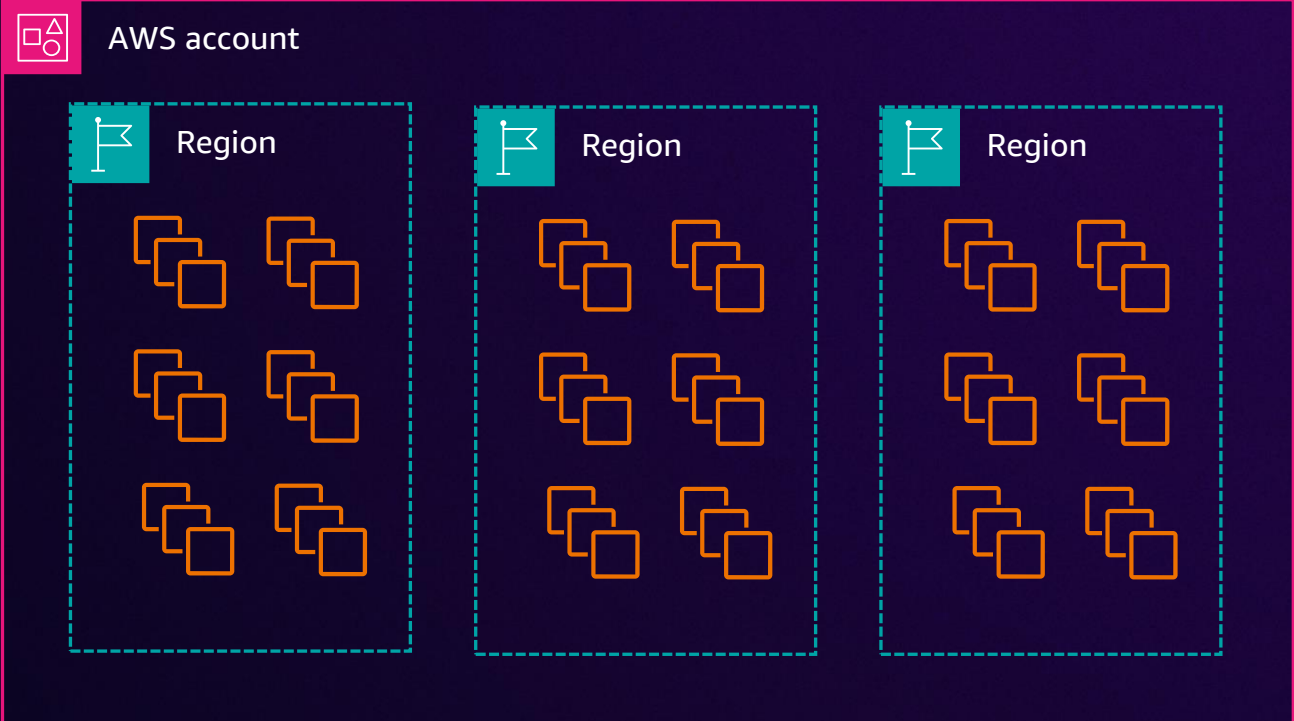
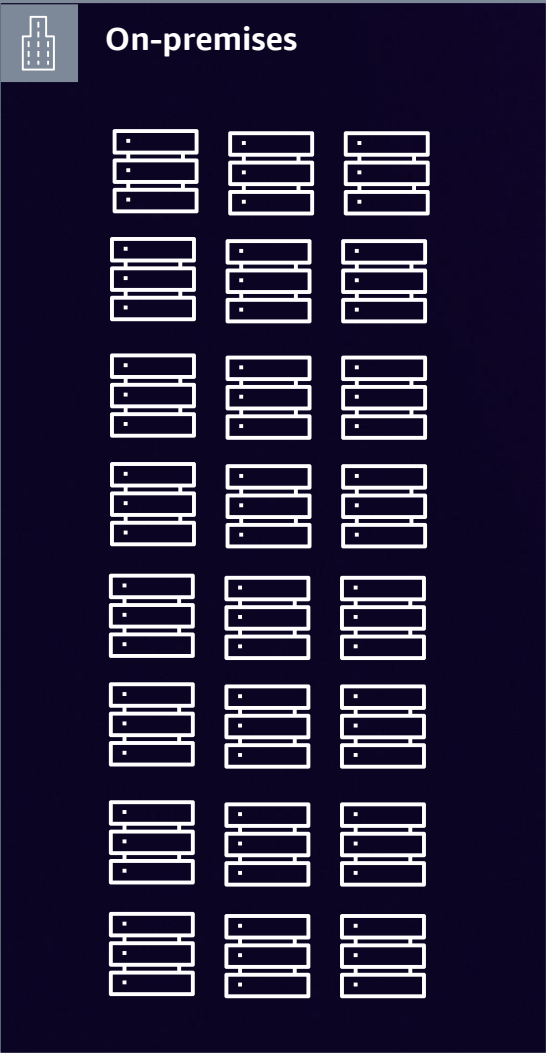
Banilux architecture



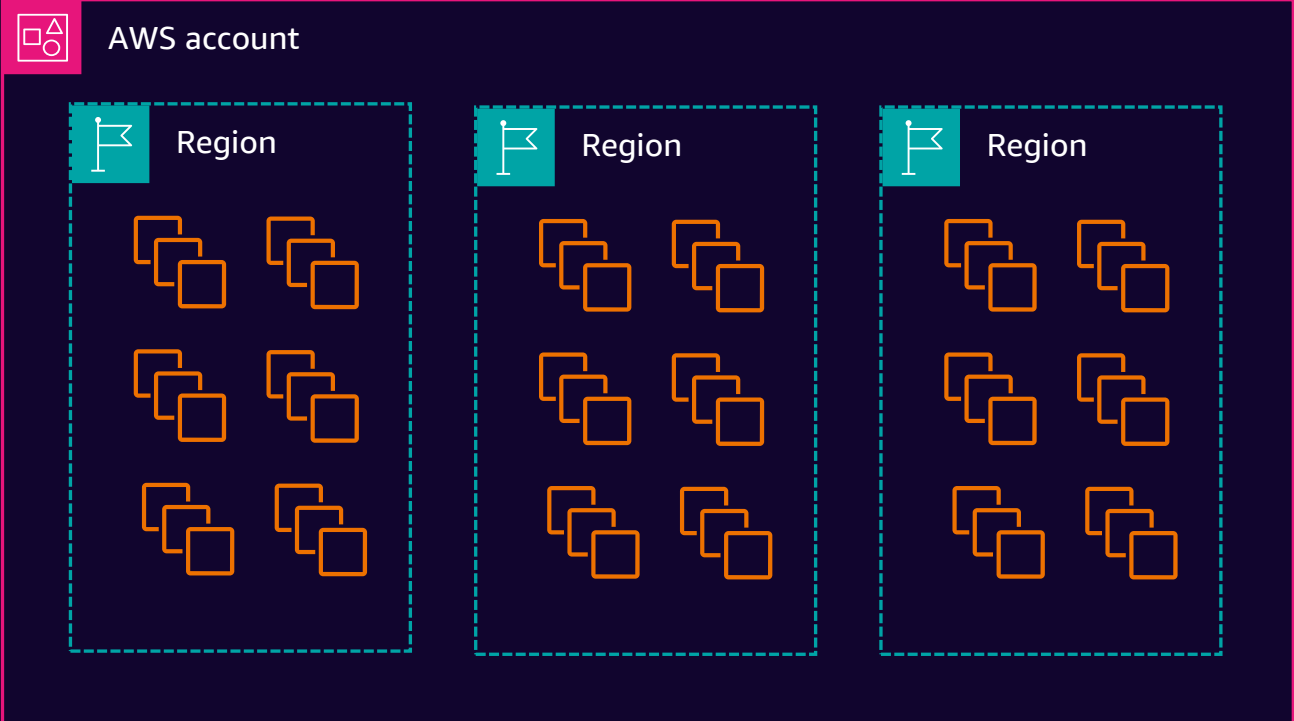
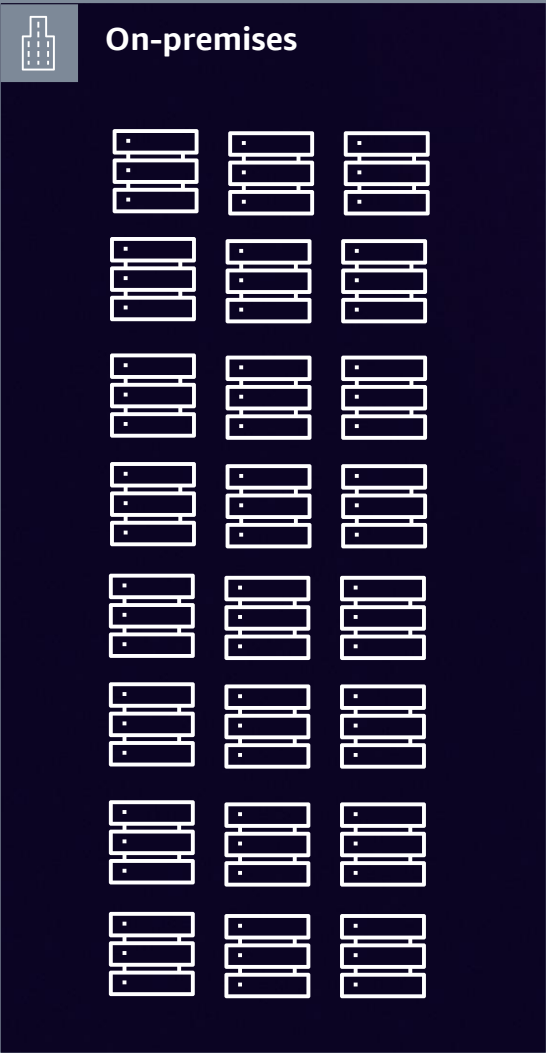
Banilux architecture



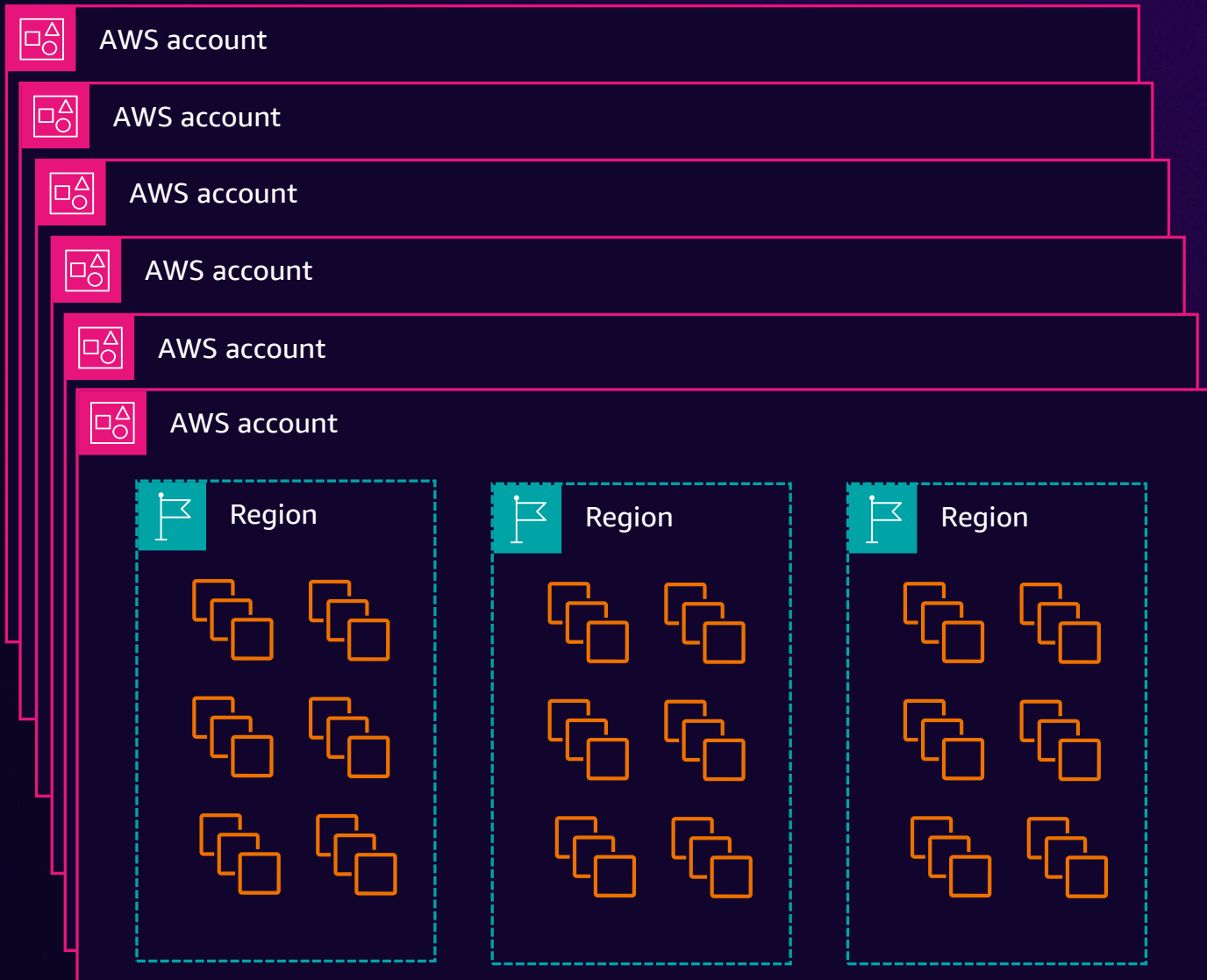
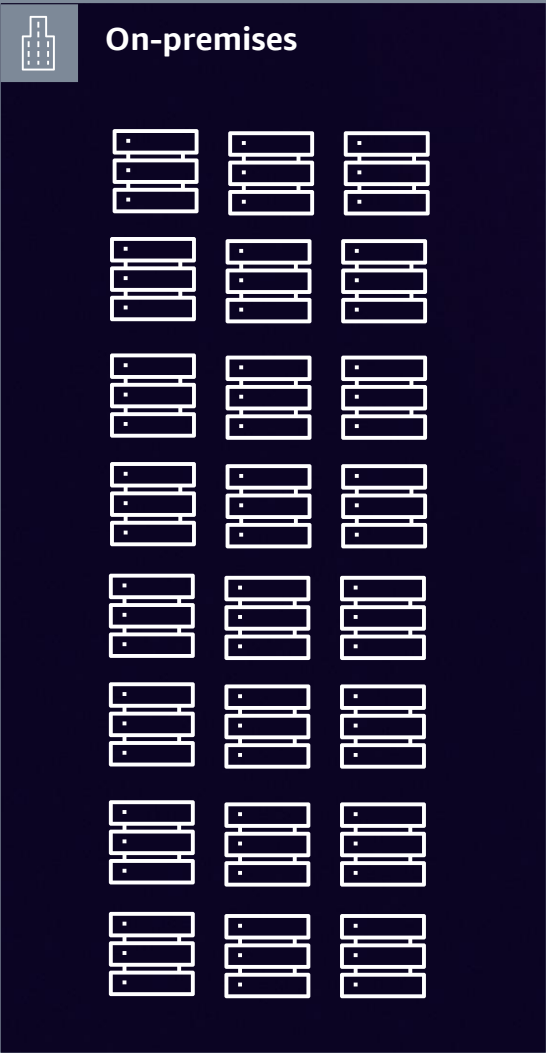
Banilux architecture



Banilux architecture



Banilux architecture



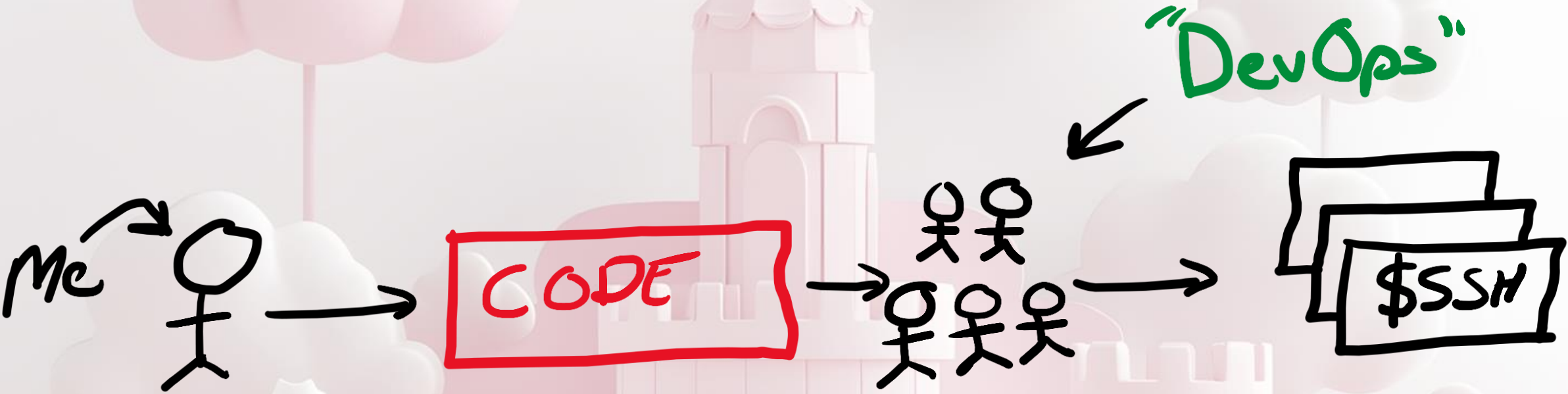
Story time . . .



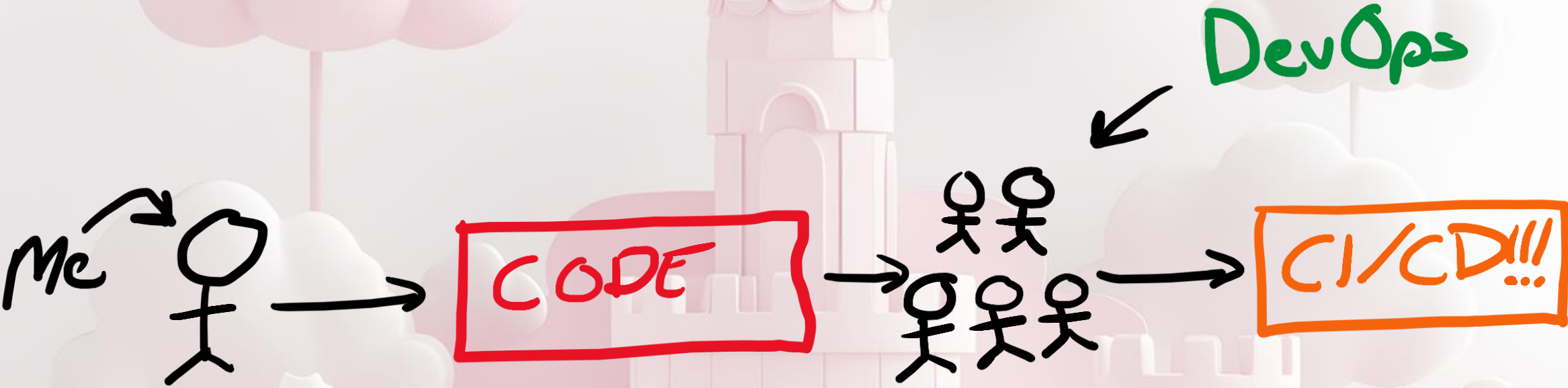
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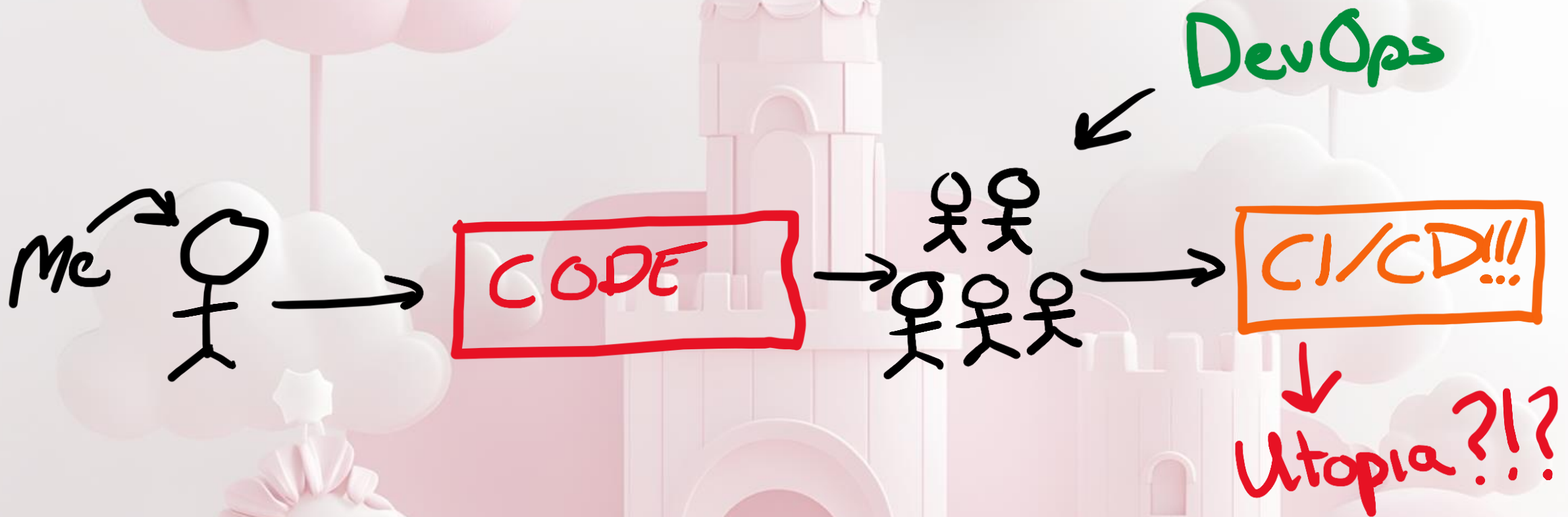
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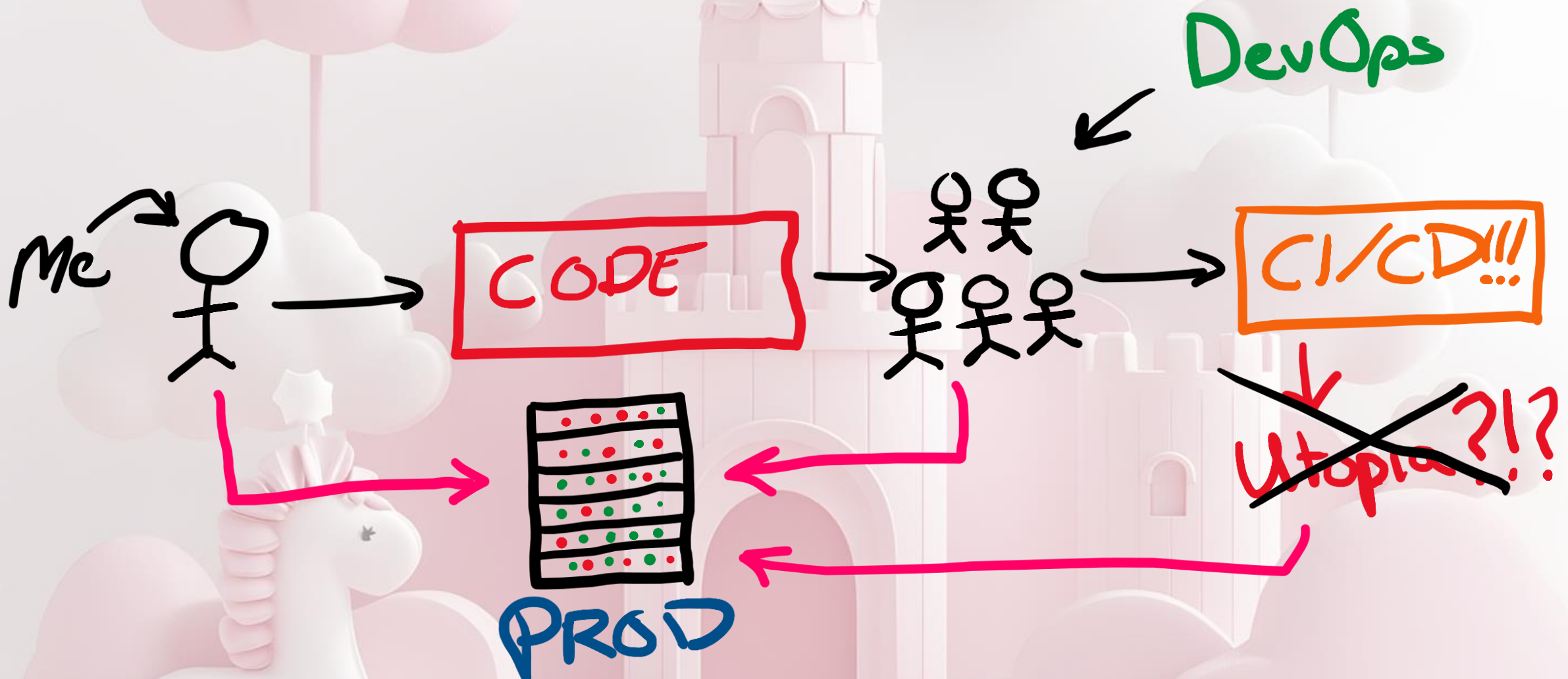
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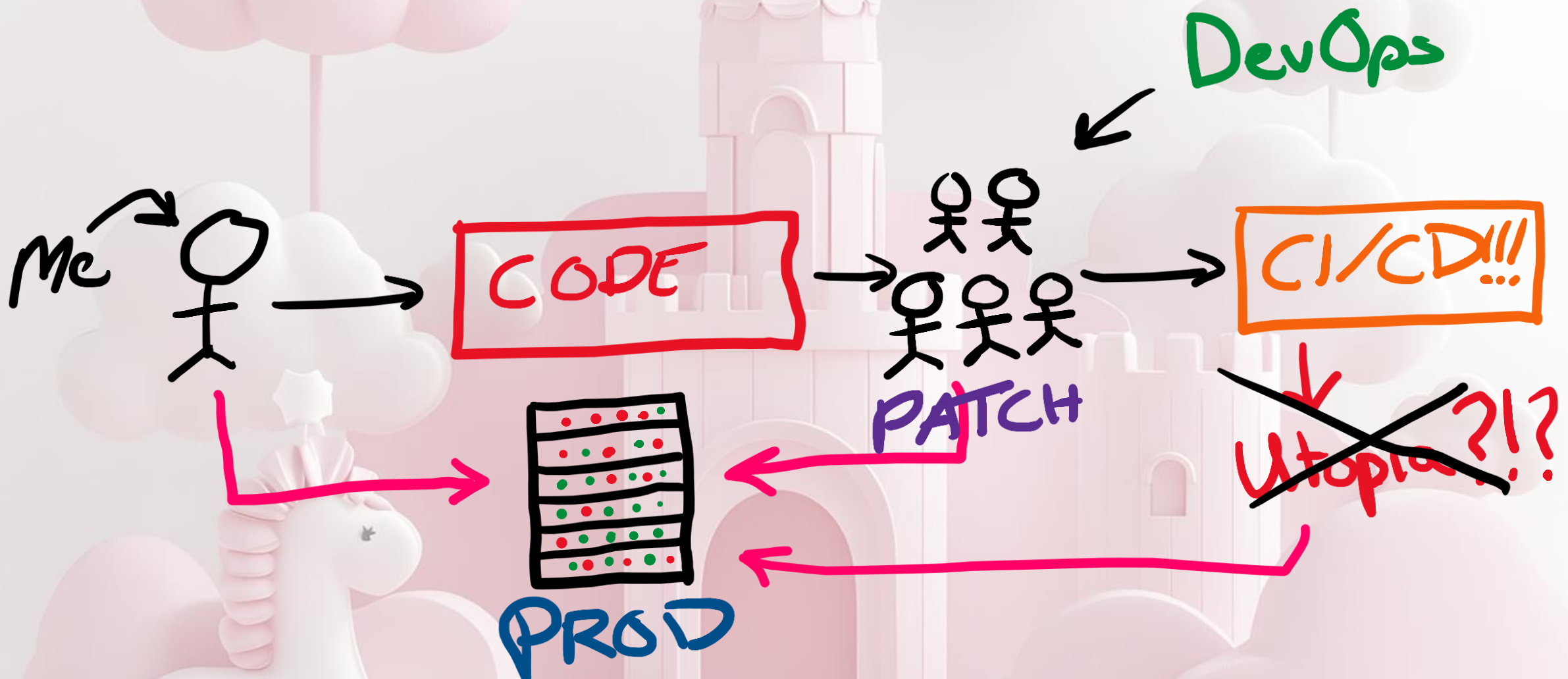
Story time . . .



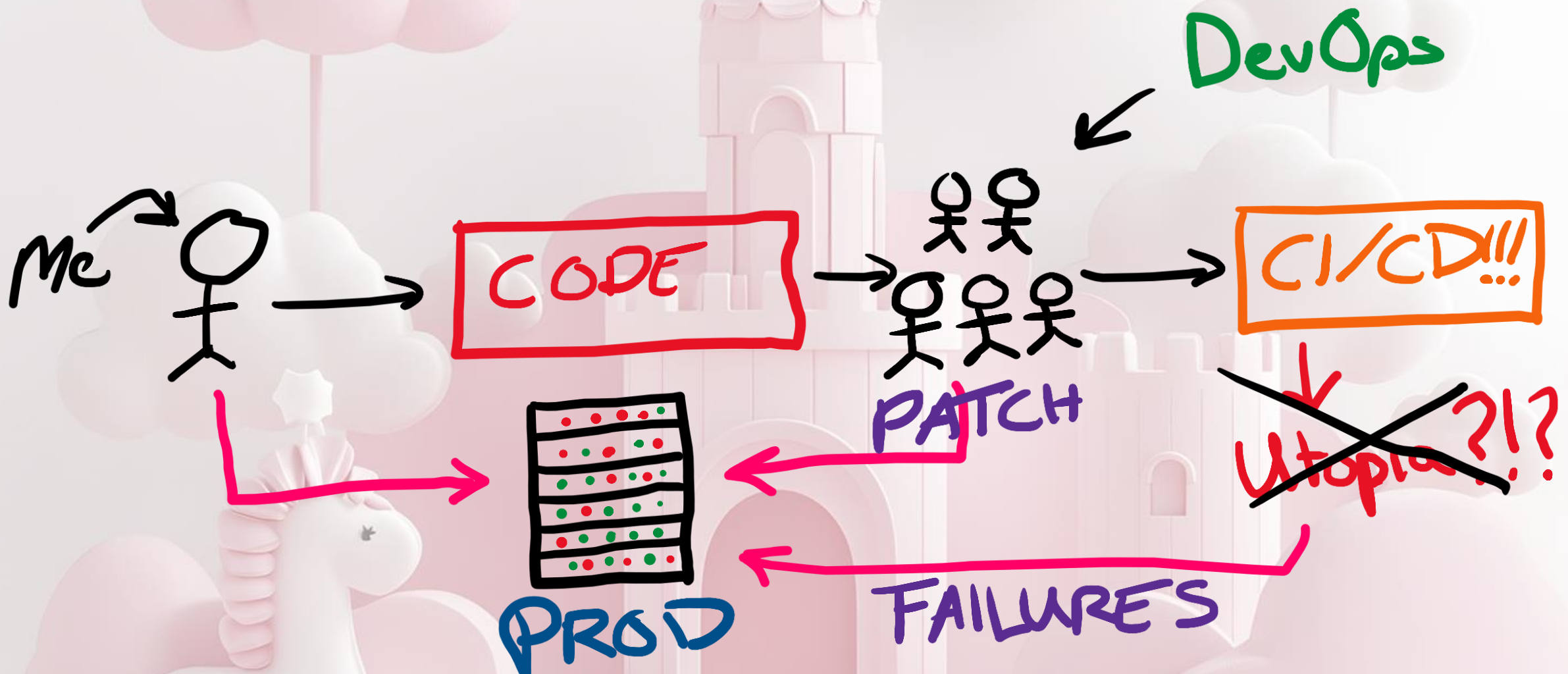
Story time . . .



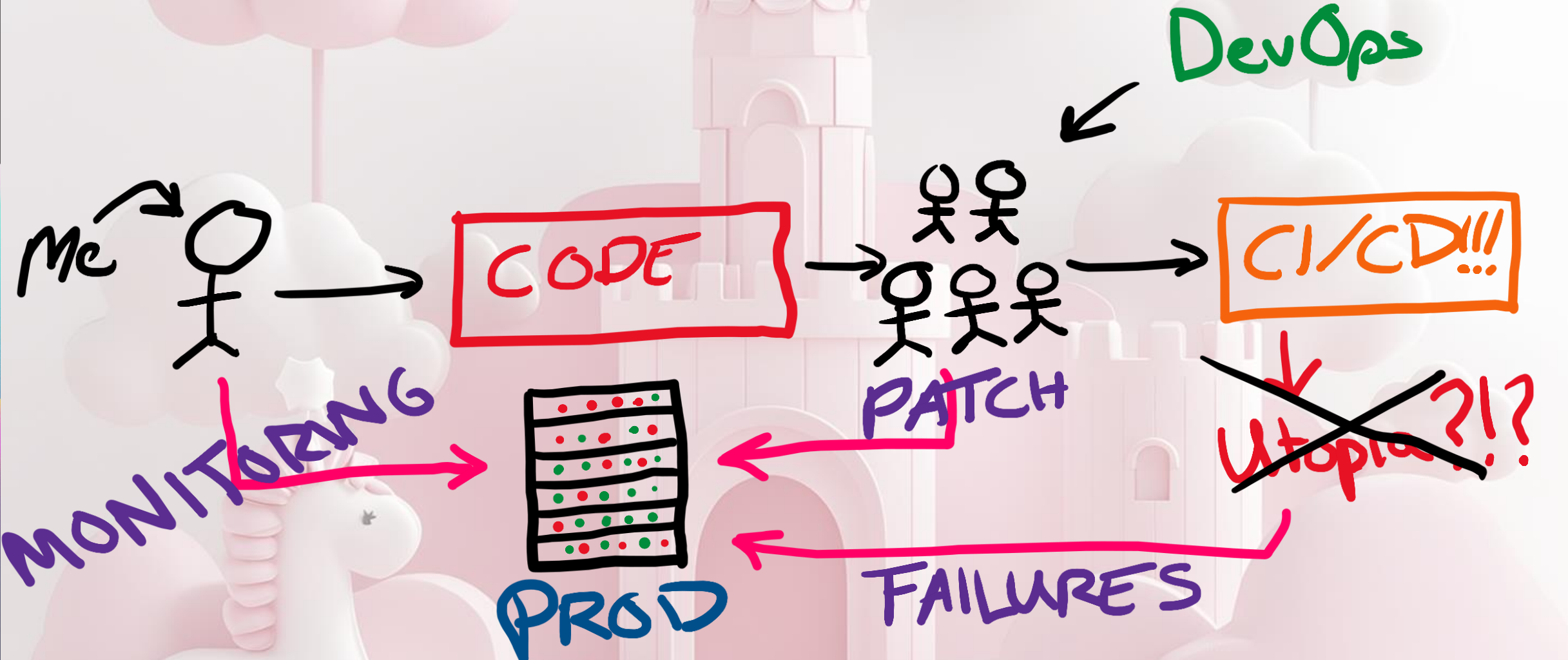
Story time . . .



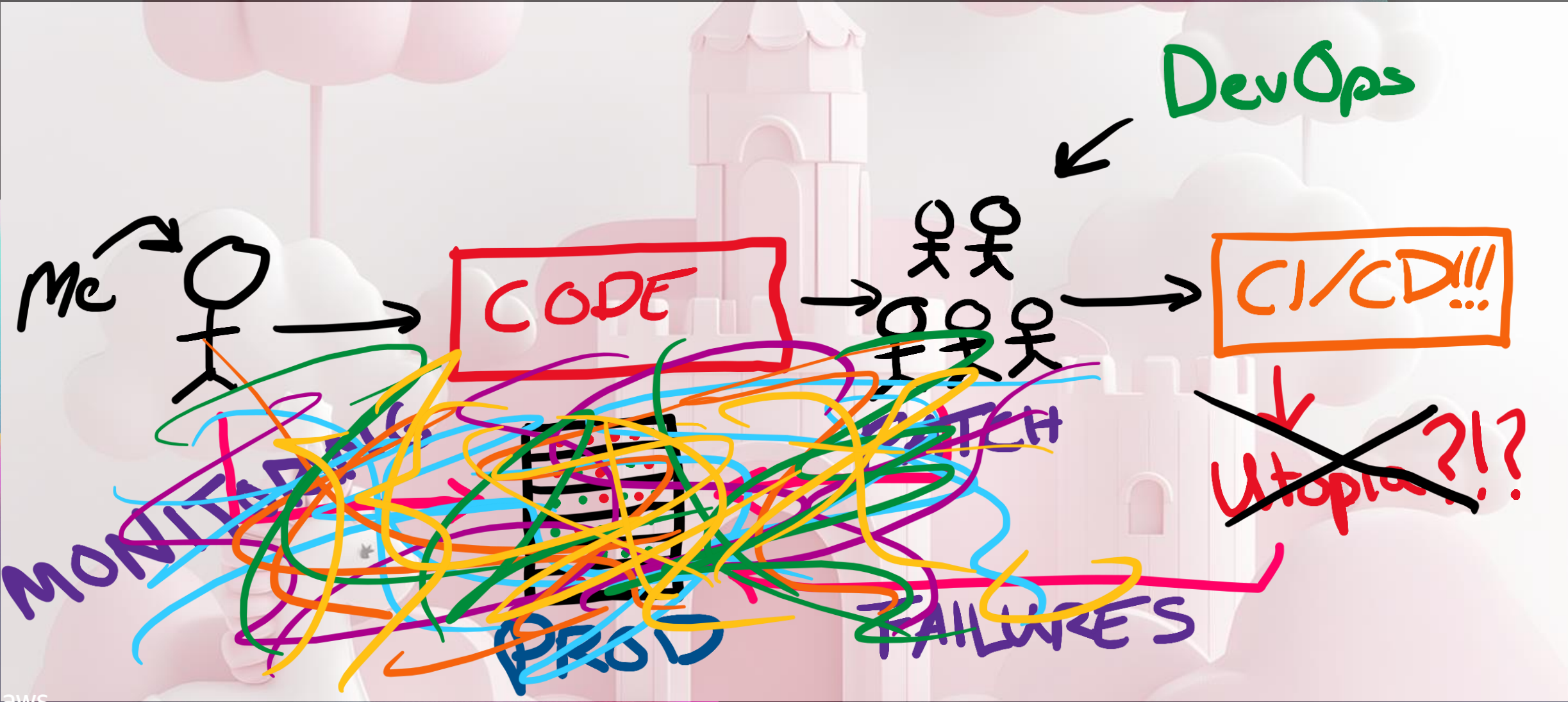
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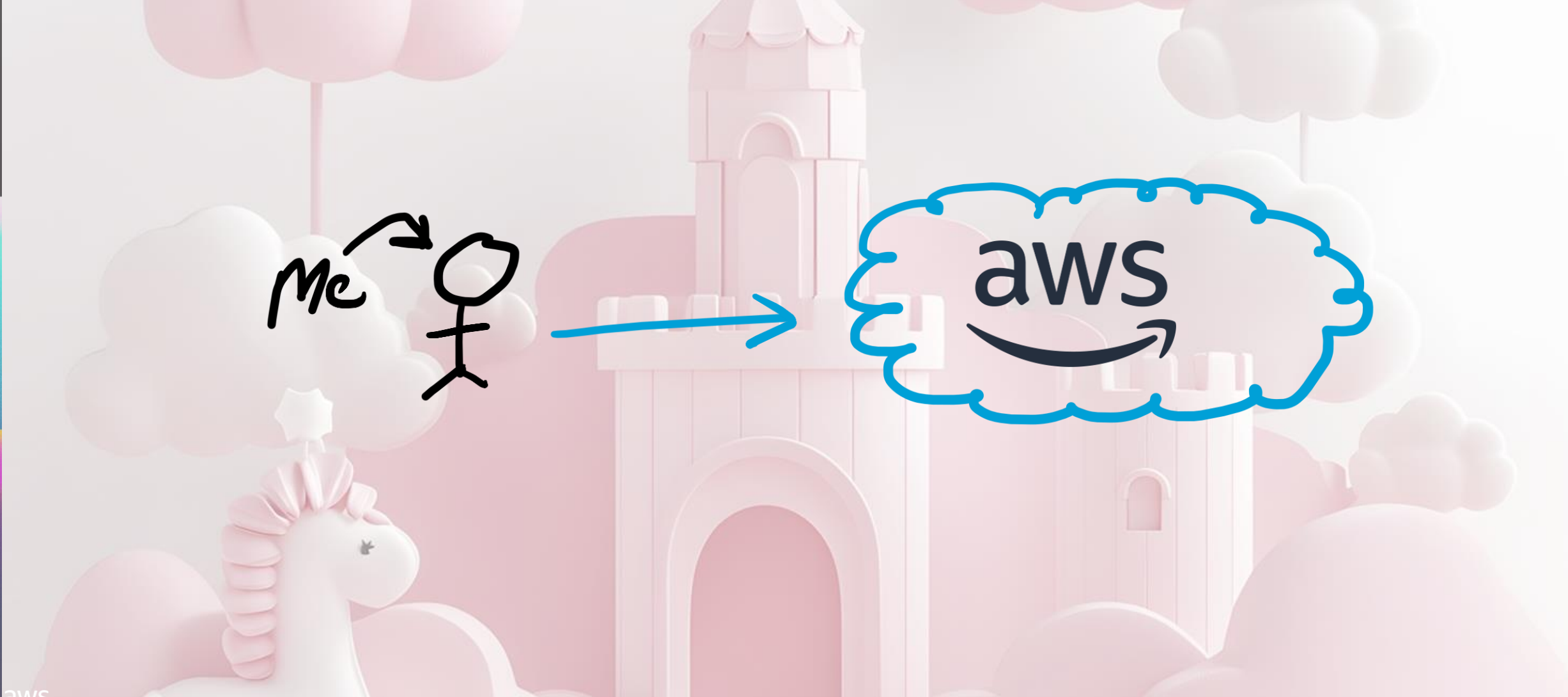
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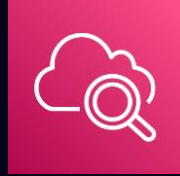
Story time . . .



Story time . . .

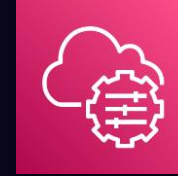


Banilux's Ops building blocks



Amazon CloudWatch

Logs, metrics, alarms,
dashboards



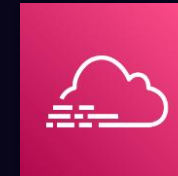
AWS Systems Manager

Node management at scale



AWS Config

Assess, audit, and evaluate
resource configuration



AWS CloudTrail

Record and audit
account activity

Banilux's Ops setup . . . but still



Amazon CloudWatch

Logs, metrics, alarms,
dashboards



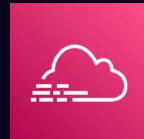
AWS Systems Manager

Node management at scale



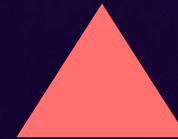
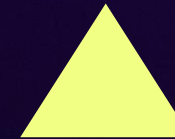
AWS Config

Assess, audit, and evaluate
resource configuration



AWS CloudTrail

Record and audit
account activity



Banilux – Health indicators



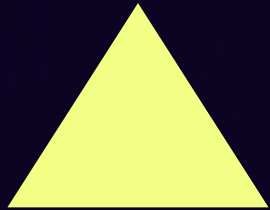
Healthy



Banilux – Health indicators



Healthy



Service issue



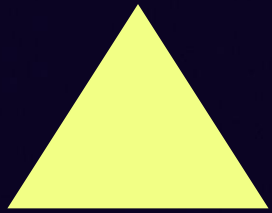
Average range of reactions to an alarm...



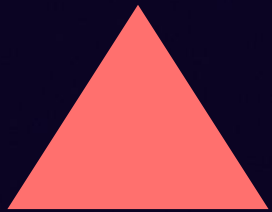
Banilux – Health indicators



Healthy



Service issue



Server offline



Optimizing Ops at scale



Inputs for “making things better”



Data

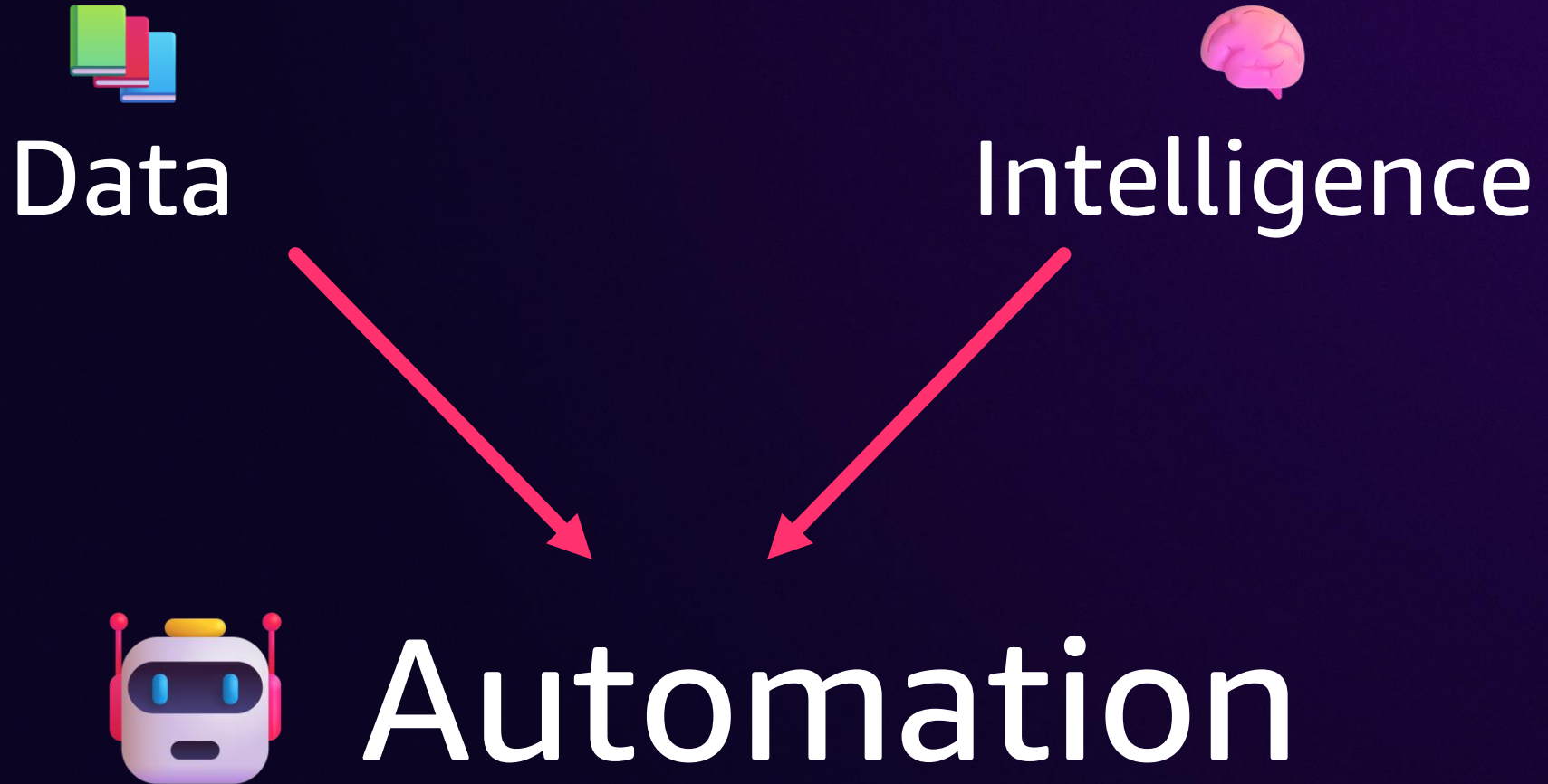
Gather the right data to increase understanding of the environment



Intelligence

Apply the right level of human and AI analysis to distill the data into actionable insights

What does one do with these inputs?



When do you automate? (or: the stages of denial)



"We've only got one 🍌 cluster"

Cost to automate: 💰

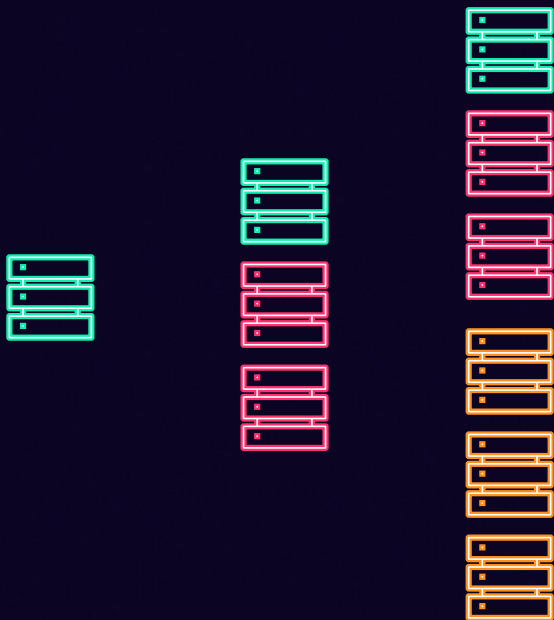
When do you automate? (or: the stages of denial)



"Our 🍌 scripts are super
easy to run"

Cost to automate: 💰

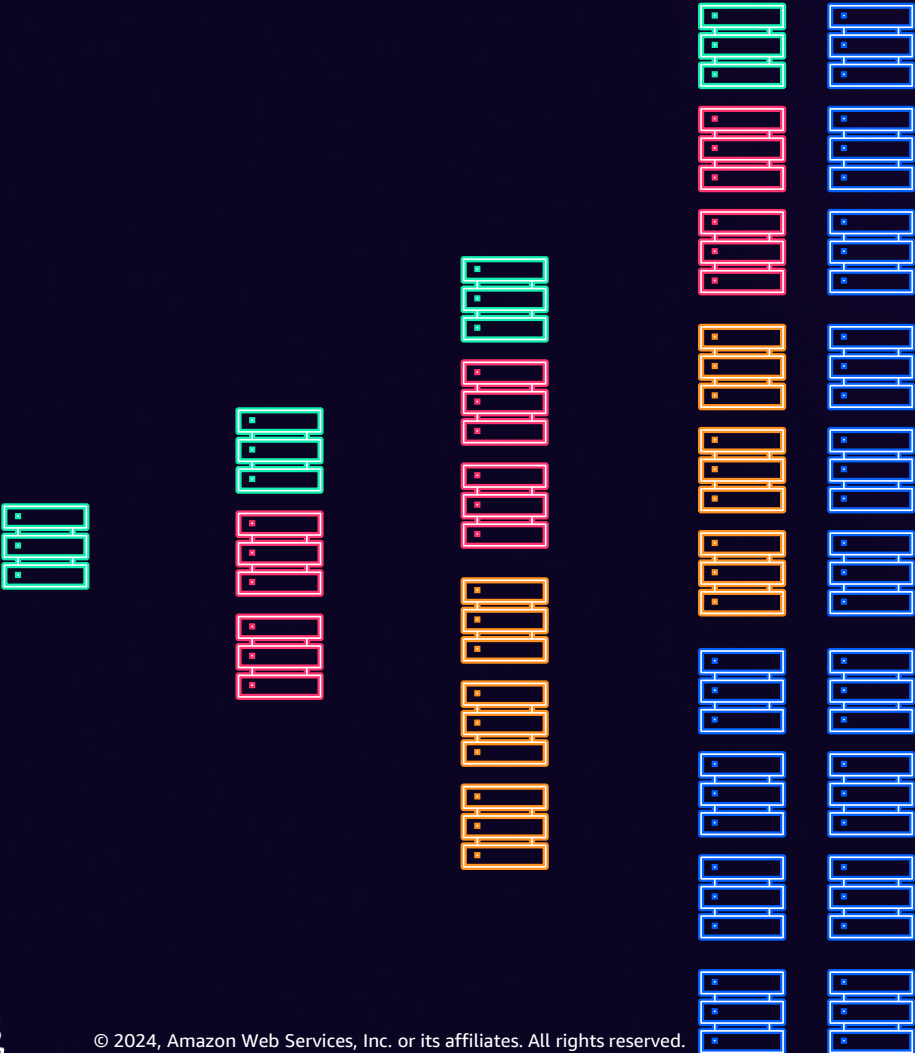
When do you automate? (or: the stages of denial)



“It only takes a few hours to
run the 🍌s”

Cost to automate: 💰

When do you automate? (or: the stages of denial)

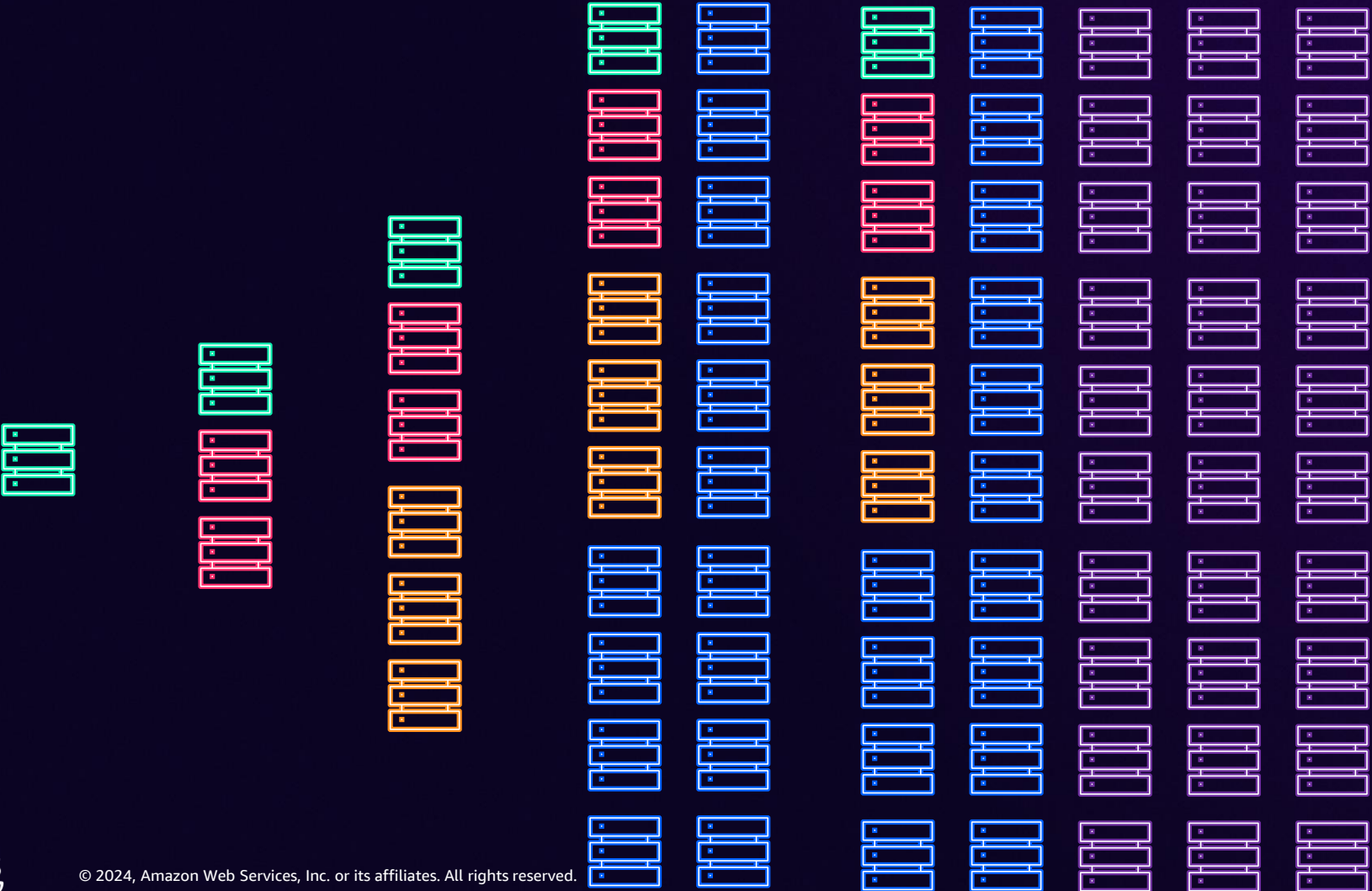


“It’s ok, we just spread the 🍌s across more people”

Cost to automate: 💰 💰



When do you automate? (or: the stages of denial)





“Automated
🍌s actually
sounds
useful”

Cost to automate:

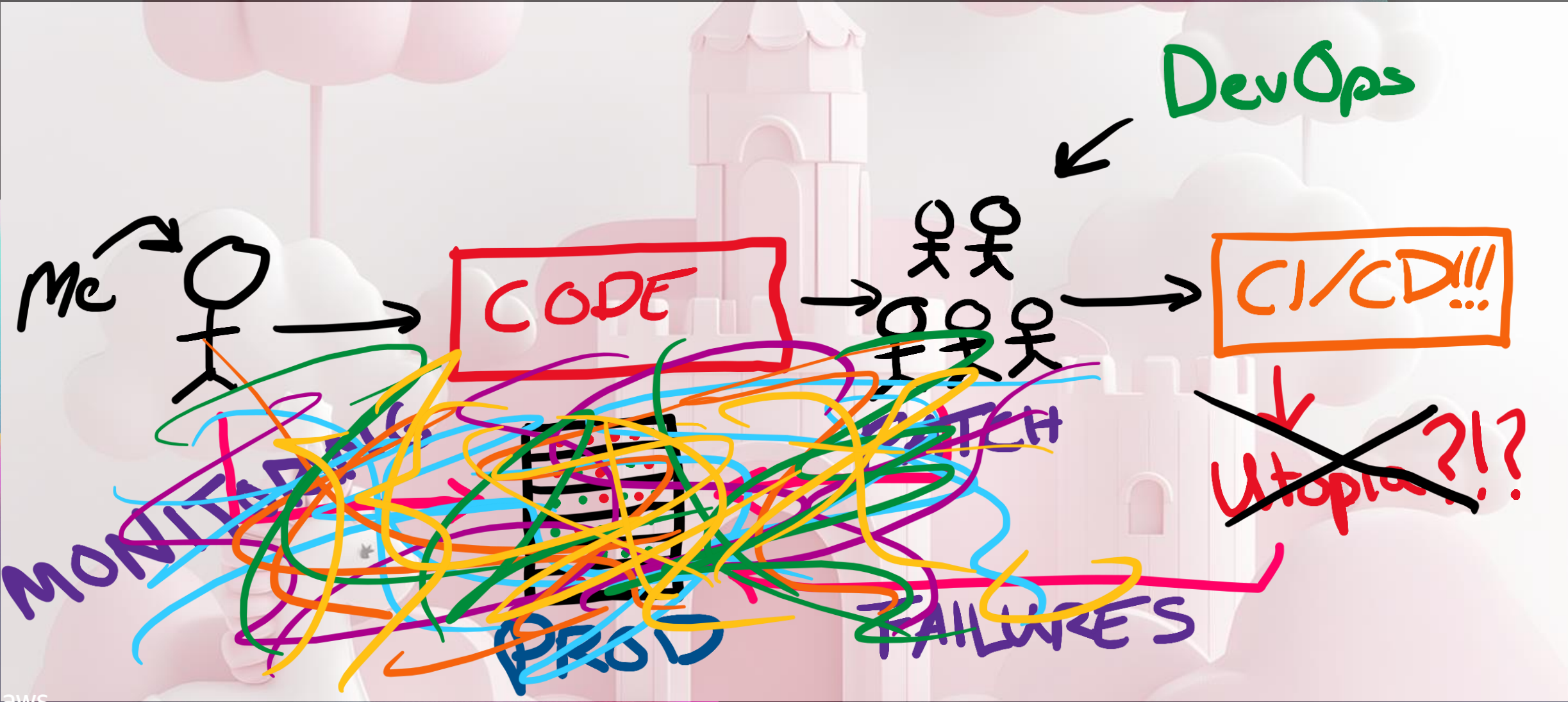


When do you automate? (or: the stages of denial)



 says: "help"
Cost to automate:


So what's the **key** to avoiding this?



Automation is key

Everyone needs automation – from organizations with thousands of applications to a startup with one

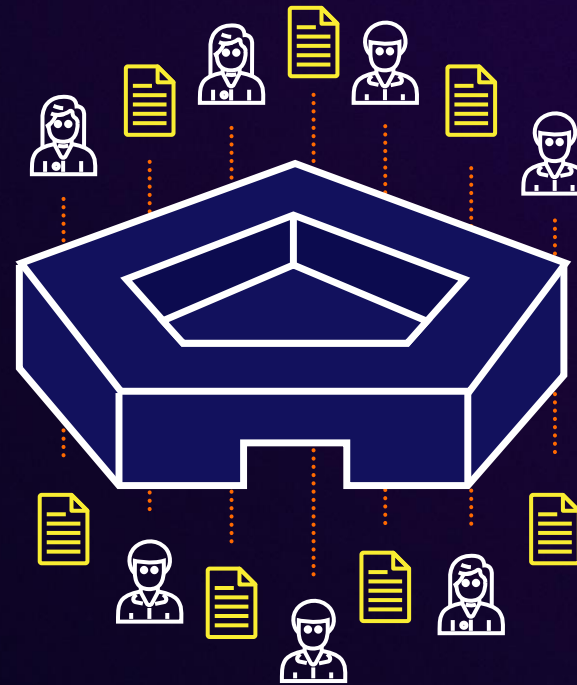


Reduce manual work



Schedule for compliance

AWS has the tools to help you automate – no matter your scale



- Operations
- Compliance
- Reliability
- Resiliency
- Durability
- Security

Need to **automate at scale**? AWS has the scale to back your scale.



Amazon CloudWatch

11 quadrillion (11,000 trillion)

metric observations per month
... that's 4.2 billion each second



AWS Systems Manager

450 million

Unique nodes managed each month



AWS Config

9 billion

compliance checks each month



AWS CloudTrail

850 billion

auditing API events per day

Managing nodes at scale



Simplify and enhance visibility for node management

CENTRALIZE NODE MANAGEMENT TO IMPROVED OPERATIONAL EFFICIENCY



AWS Organizations support



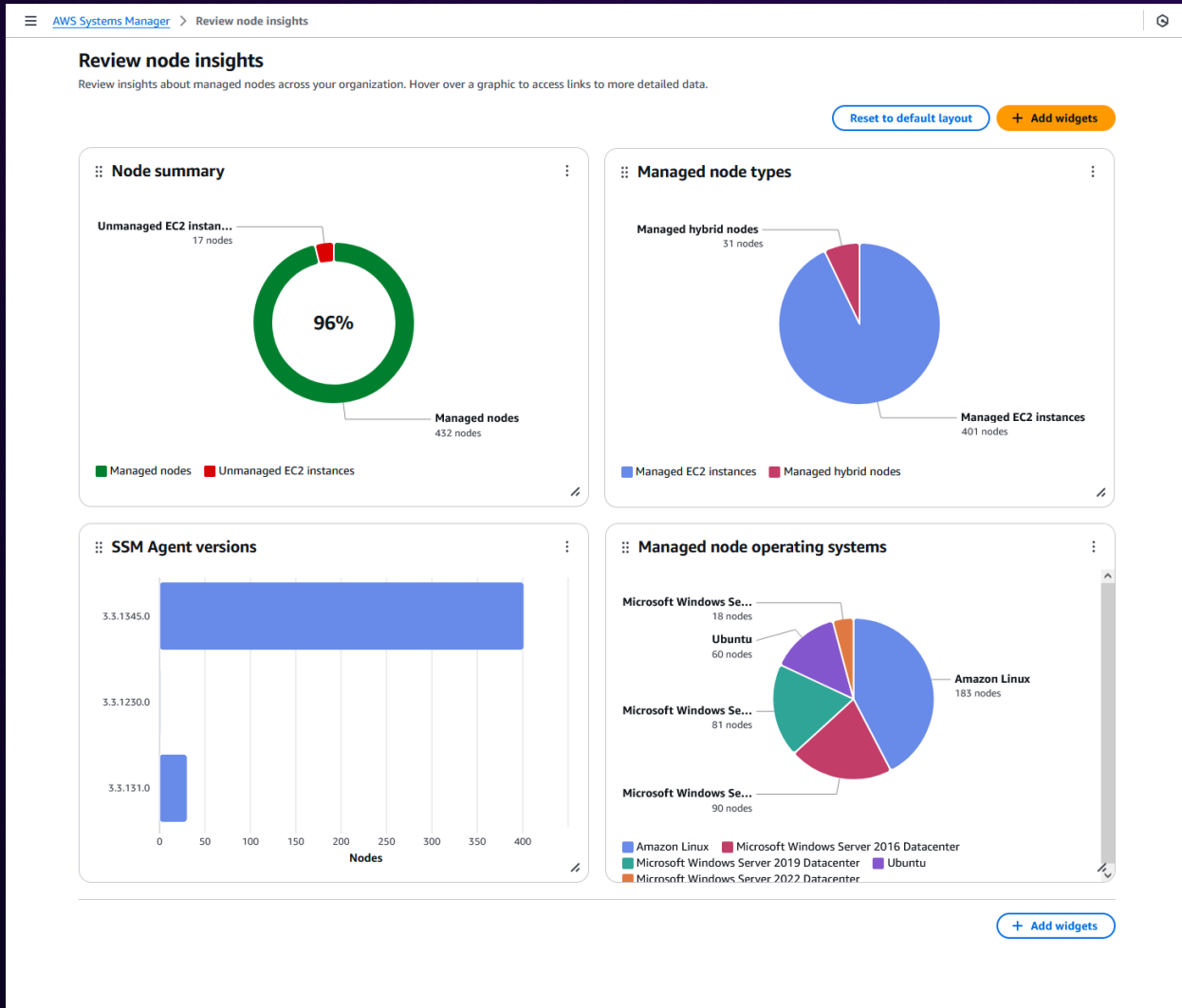
Centralized node management

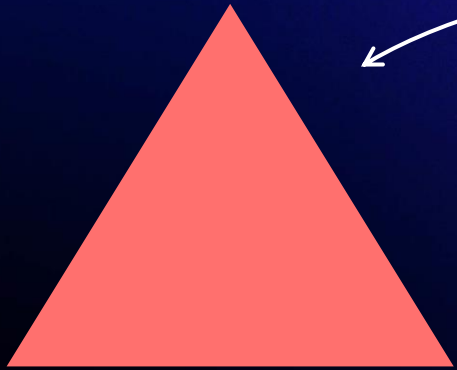


Automate diagnoses



Integration with Amazon Q





... let's fix that

A large, dark teal diamond shape with a smaller, lighter teal diamond inside it, positioned on the left side of the slide. The text 'Key takeaways' is centered within the diamond.

Key takeaways

01

Simplify node management at scale

Manage nodes across AWS, on-premises, and multcloud environments with AWS Systems Manager

02

Intelligent operational investigations

Identify root causes and reduce mean time to resolution with Amazon Q Developer and Amazon CloudWatch

03

Boost operational efficiency with automation

Automate common operational tasks and reduce time and effort required to maintain your systems

What's next?



Introducing a new experience
for AWS Systems Manager



Full visual tour of the
experience



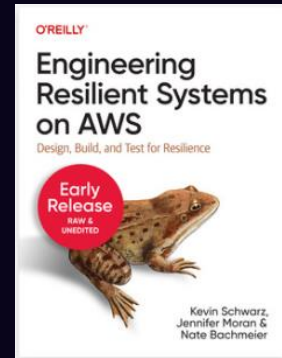
Centralized Operations
Management Workshop

Cloud Ops Kiosks

Cloud Operations | Observability | Governance and Compliance | Resilience



**VR
EXPERIENCE**



**BOOK
GIVEAWAYS**



SWAG

MEET US AT THE KIOSKS IN THE AWS VILLAGE

Thank you!

Erik Weber

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Oren Nachman

[linkedin.com/in/oren-nachman/](https://www.linkedin.com/in/oren-nachman/)



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