



The bridge to possible

# Five Reasons Why DevOps is Like a Luxury Bag

A handy intro to (Net)DevOps

Stien Vanderhallen, Technical Solutions Specialist, IoT  
@StienVDHallen

# Cisco Webex App

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## How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated until February 24, 2023.



**Note:** This space is moderated until February 24, 2023!





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A handy intro to (Net)DevOps

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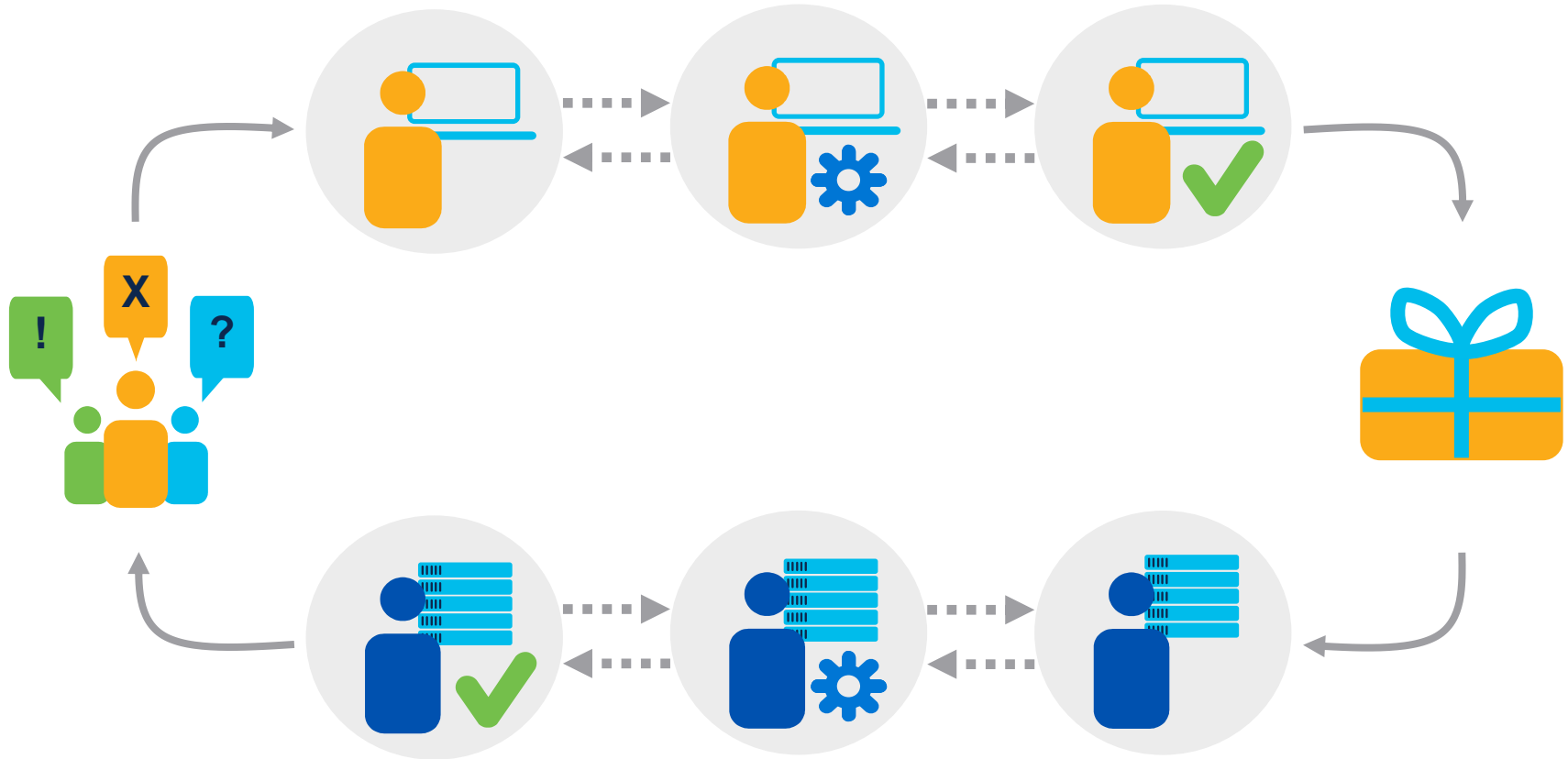
Stien Vanderhallen, Technical Solutions Specialist, IoT  
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# Five Reasons Why DevOps is Like a Luxury Bag

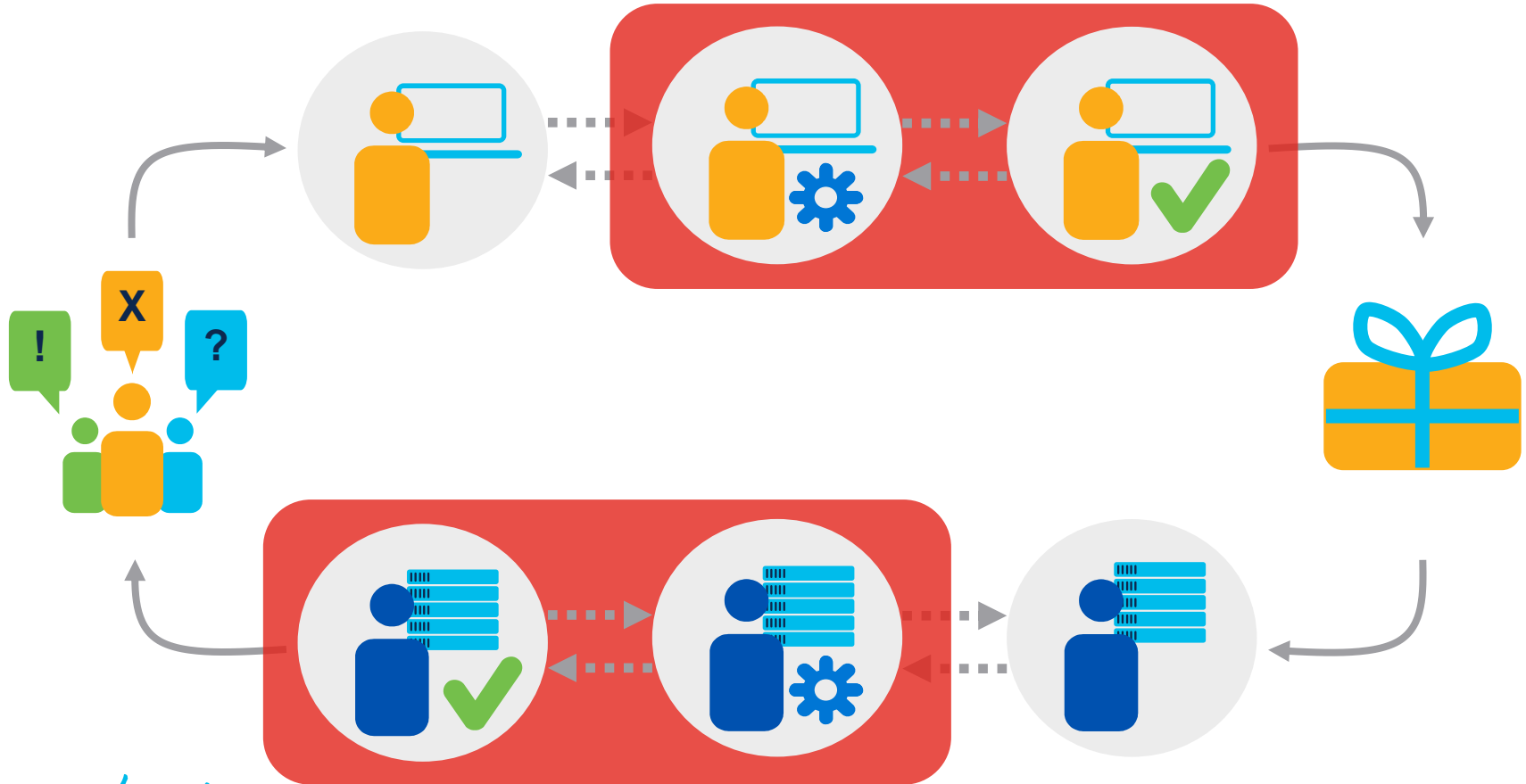
A handy intro to (Net)DevOps

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# A traditional development cycle is long and slow

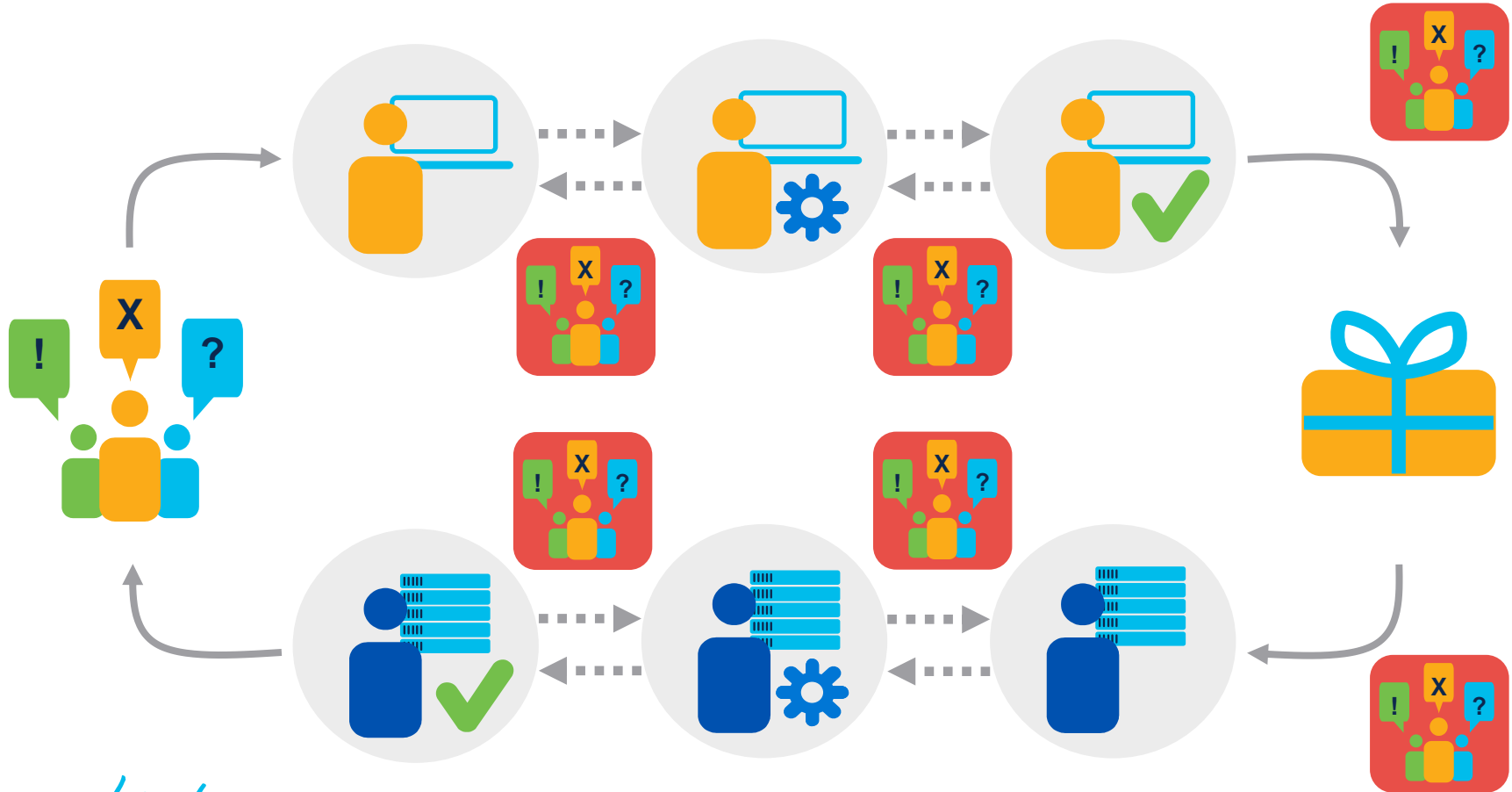


A traditional development cycle is long and slow

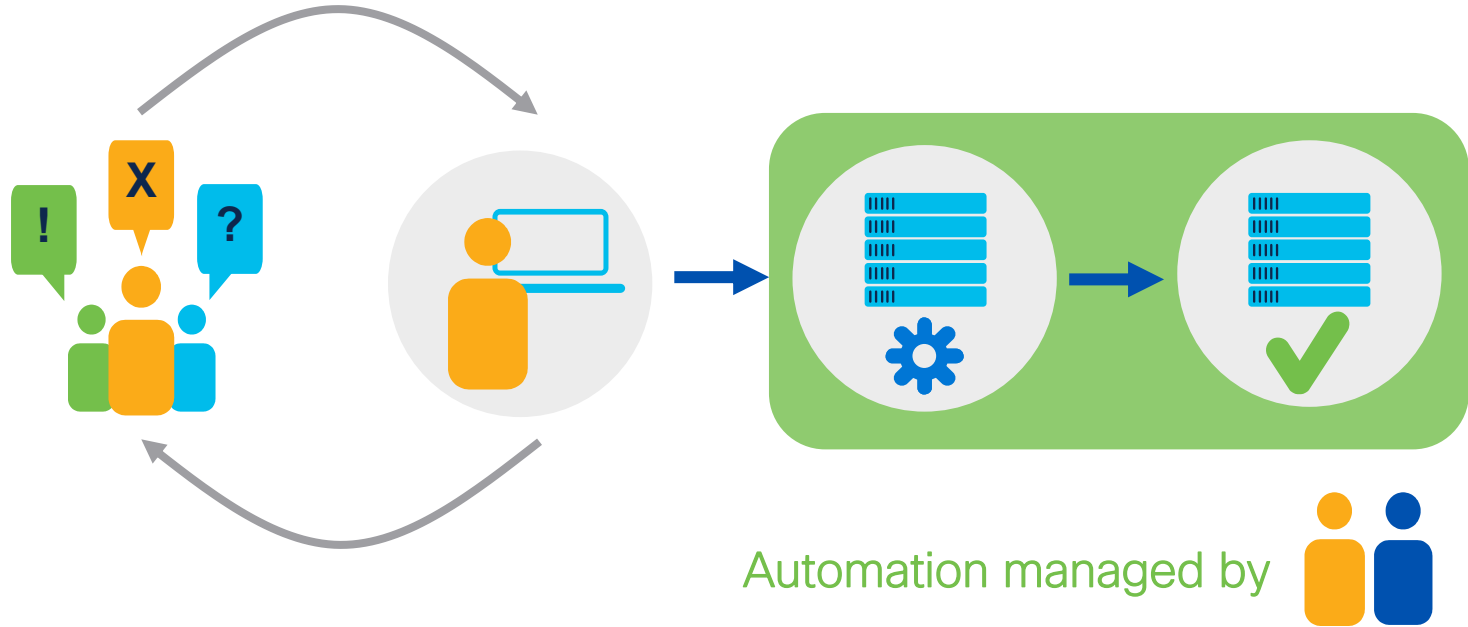




A traditional development cycle is long and **slow**



# (Net)DevOps streamline the development cycle



# (Net)DevOps outcomes at-a-glance



More effective development hours



Timely response to new requirements

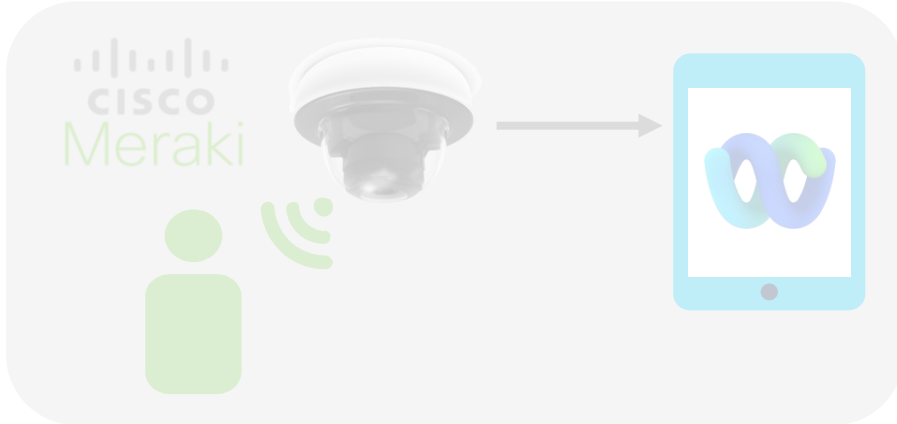
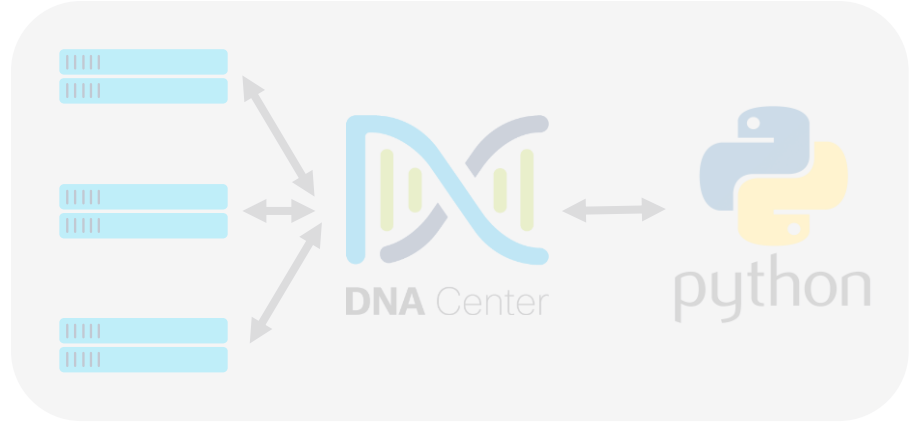
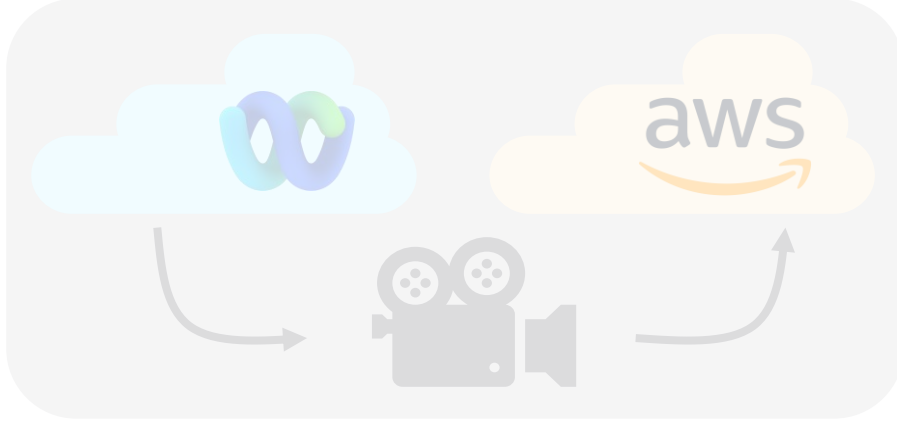


Consistent operational processes



Reason 1:  
It goes with any  
outfit

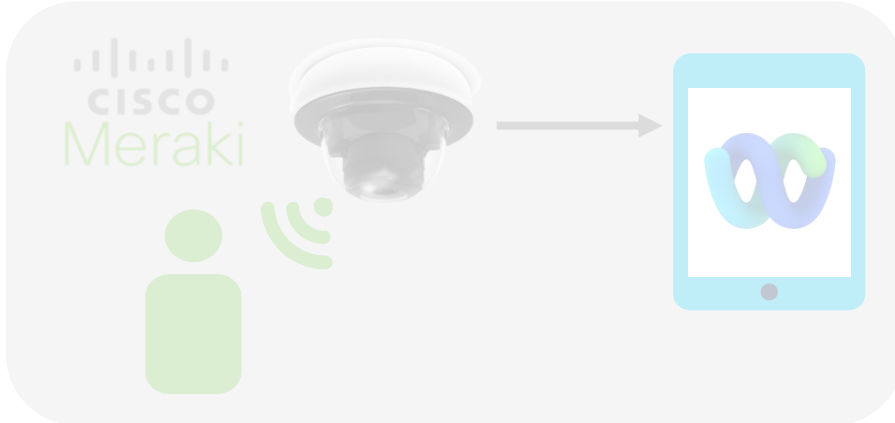
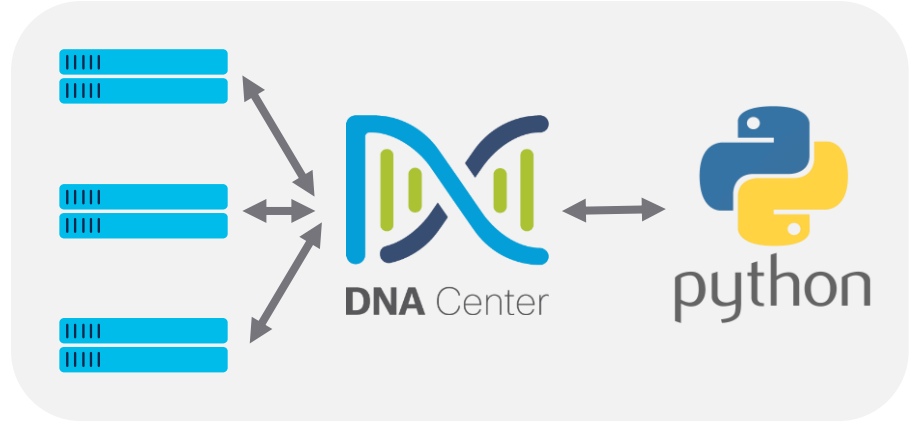
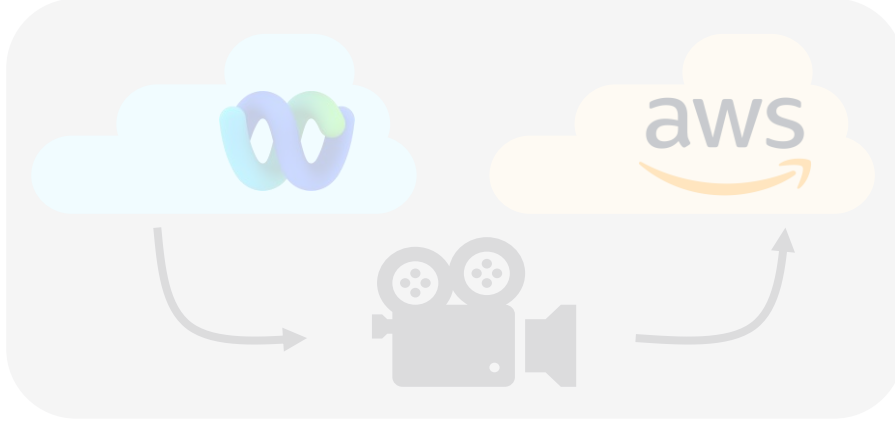
# DevOps practices are multi-applicable



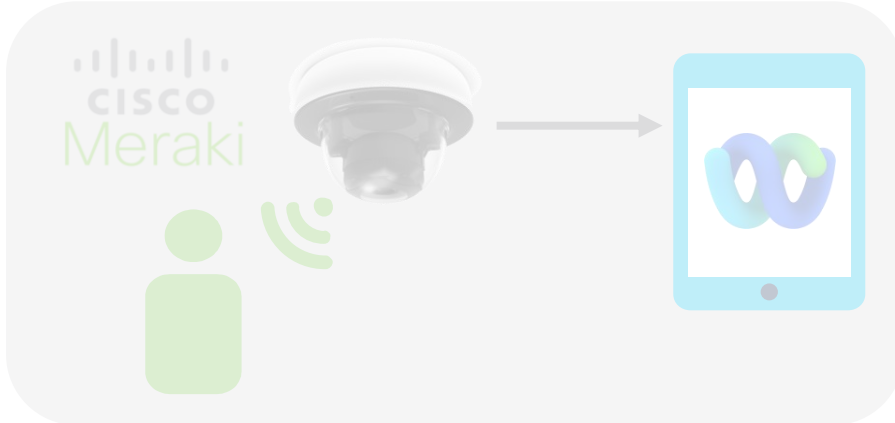
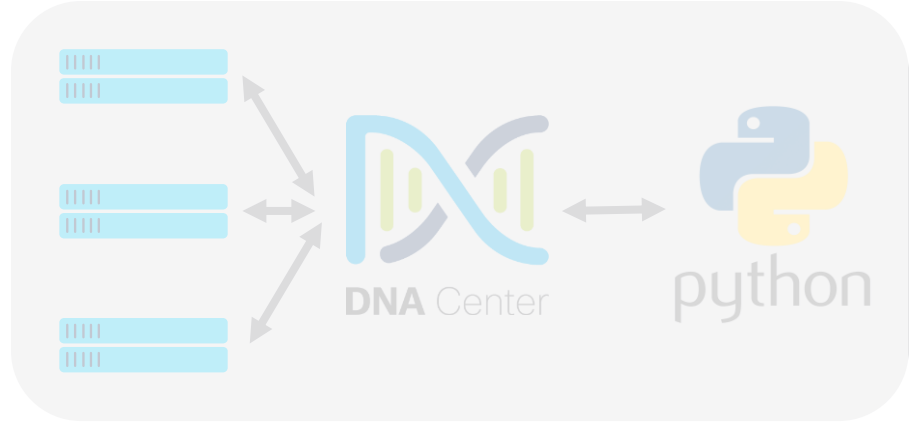
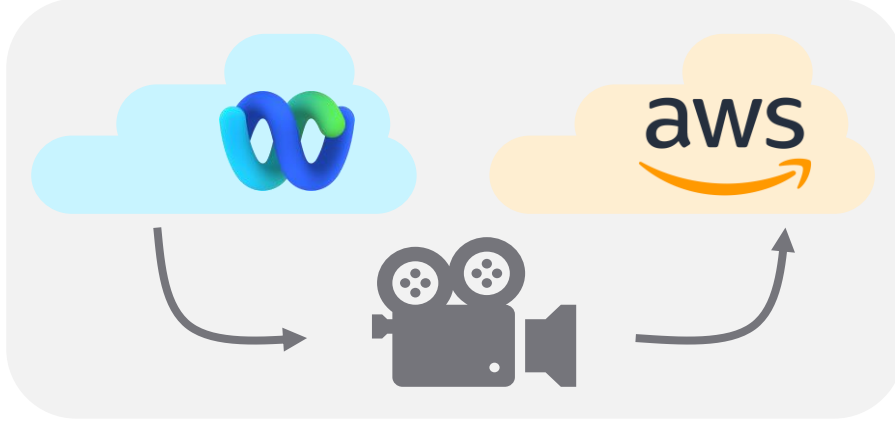
**GVE DevNet**

GLOBAL VIRTUAL SALES & ENGINEERING

# DevOps practices are multi-applicable

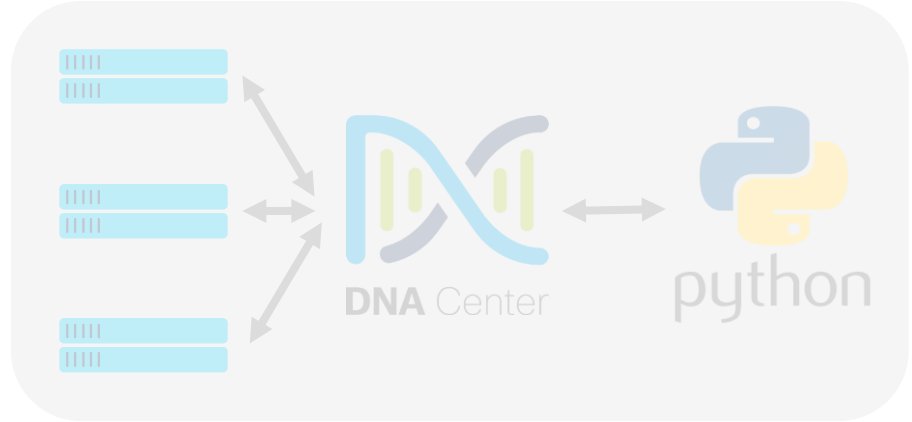
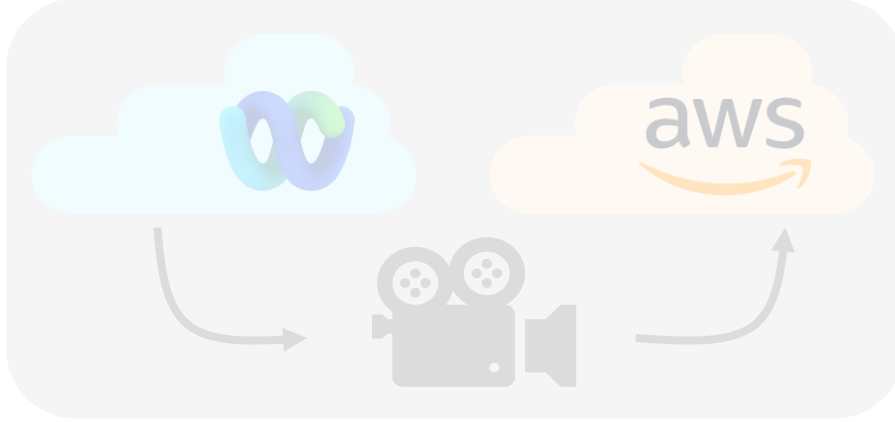


# DevOps practices are multi-applicable

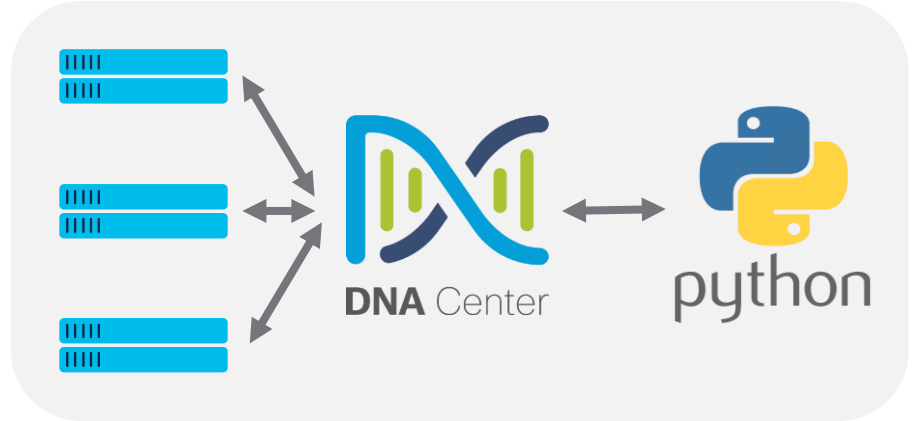
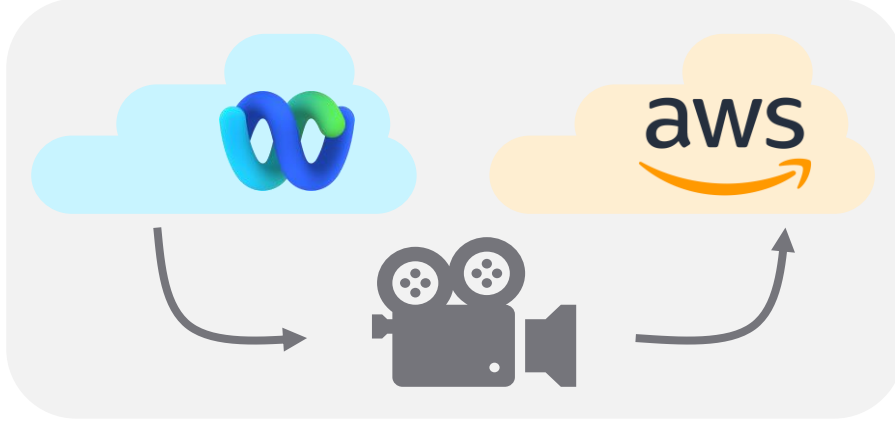




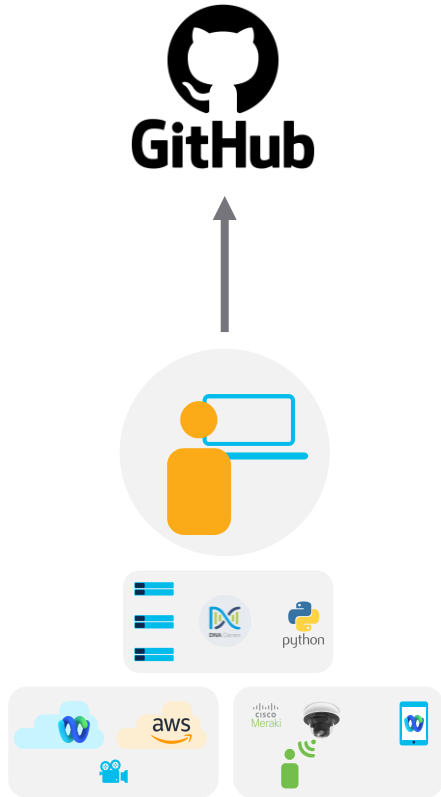
# DevOps practices are multi-applicable



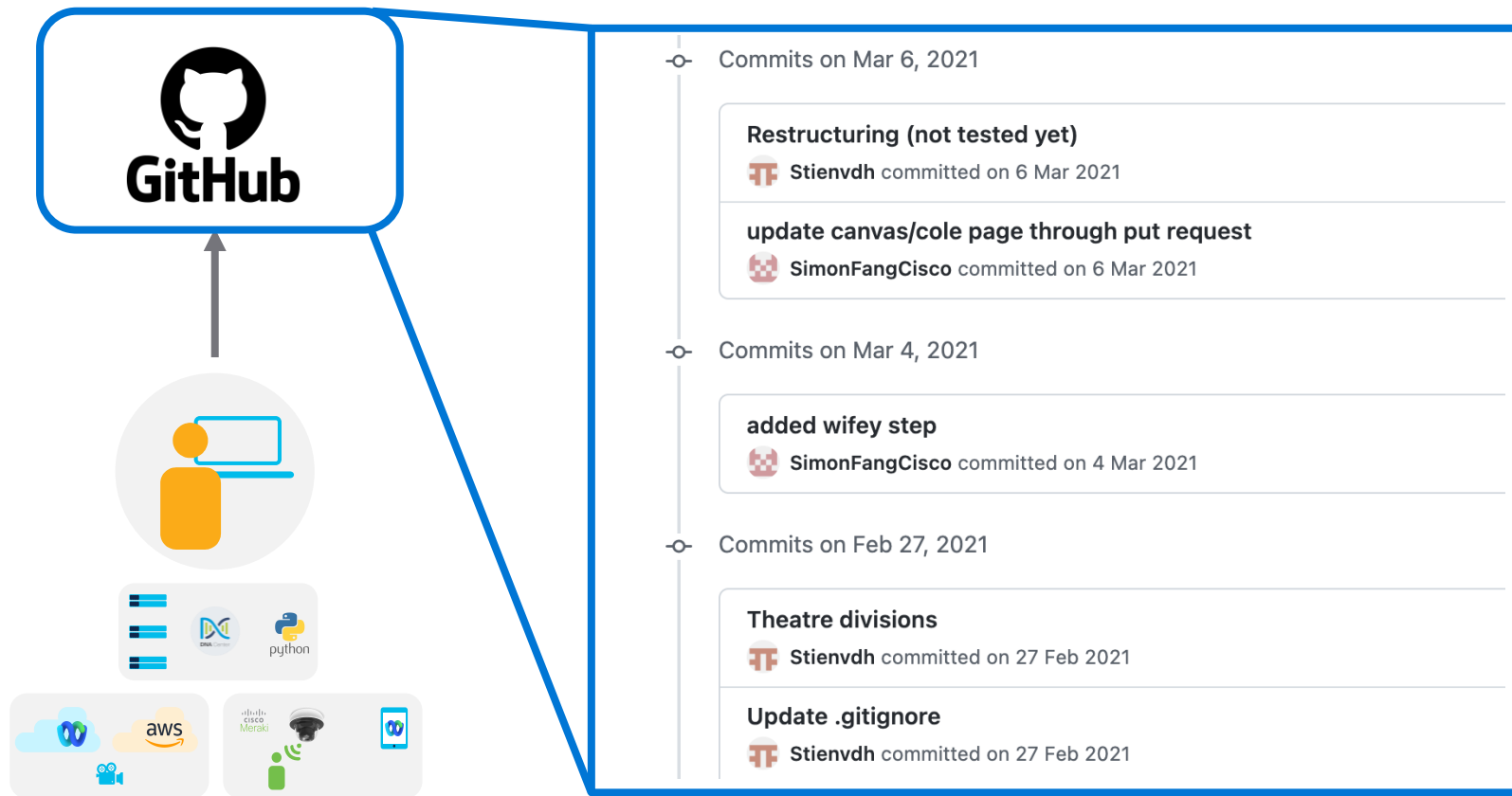
# DevOps practices are multi-applicable



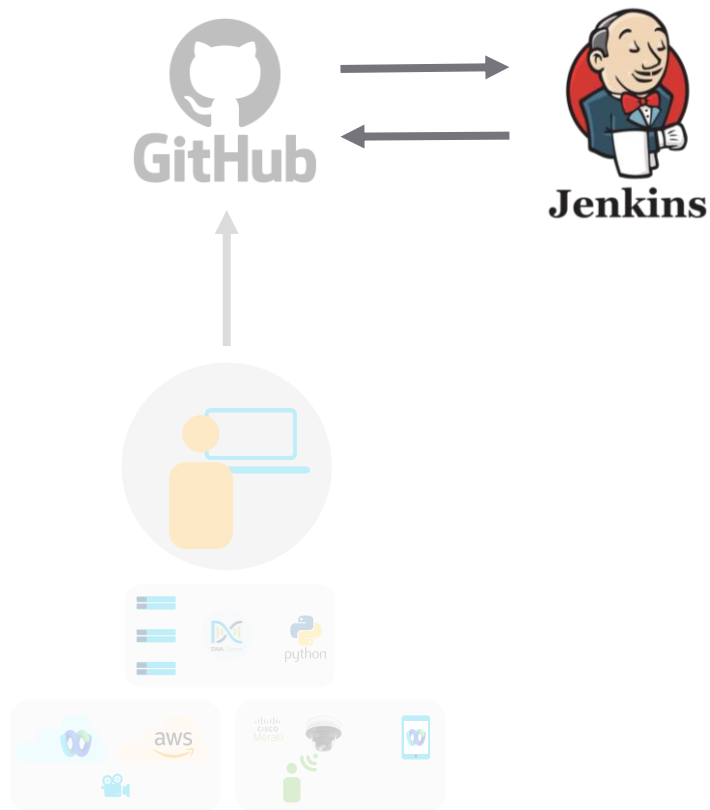
# A generic DevOps-driven development cycle



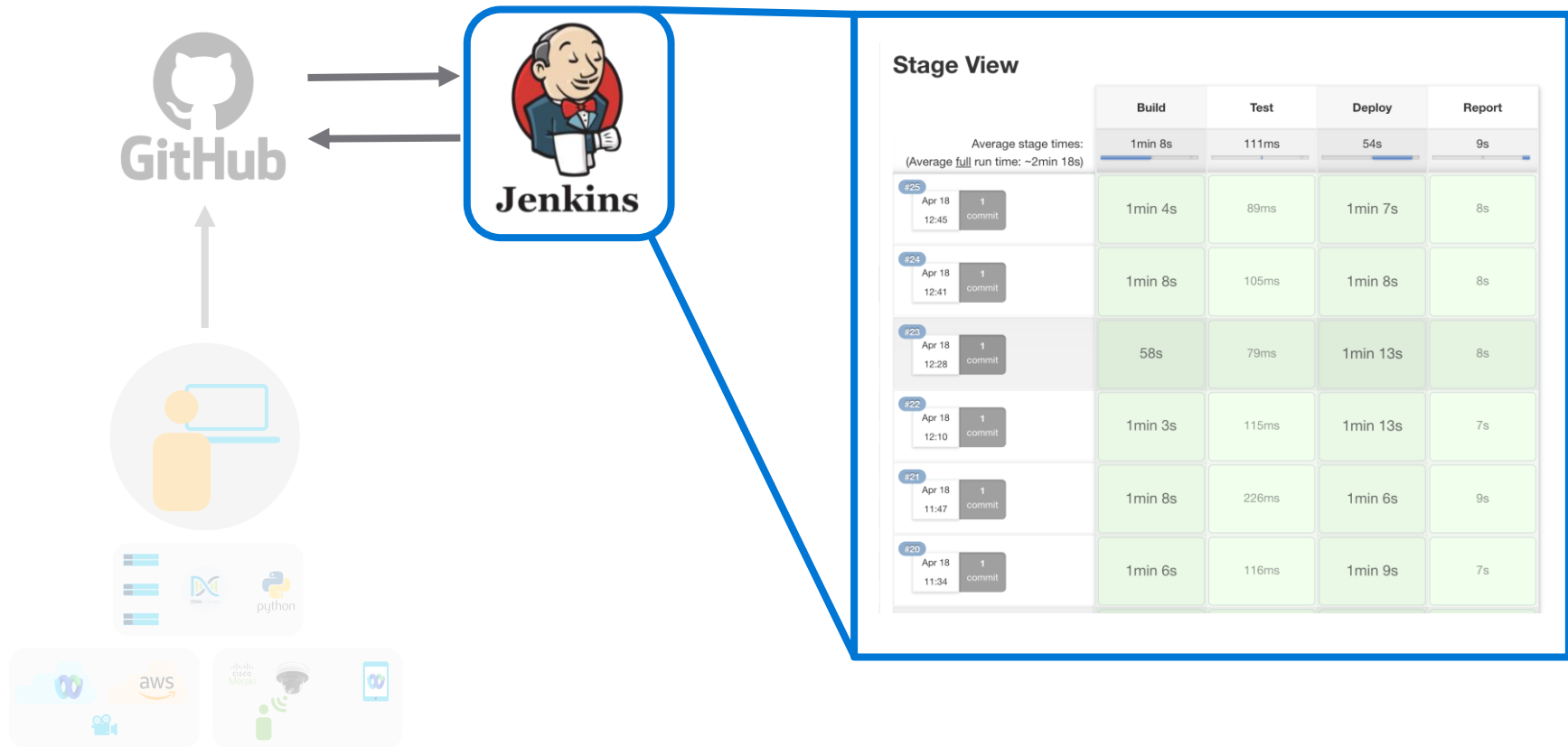
# A generic DevOps-driven development cycle



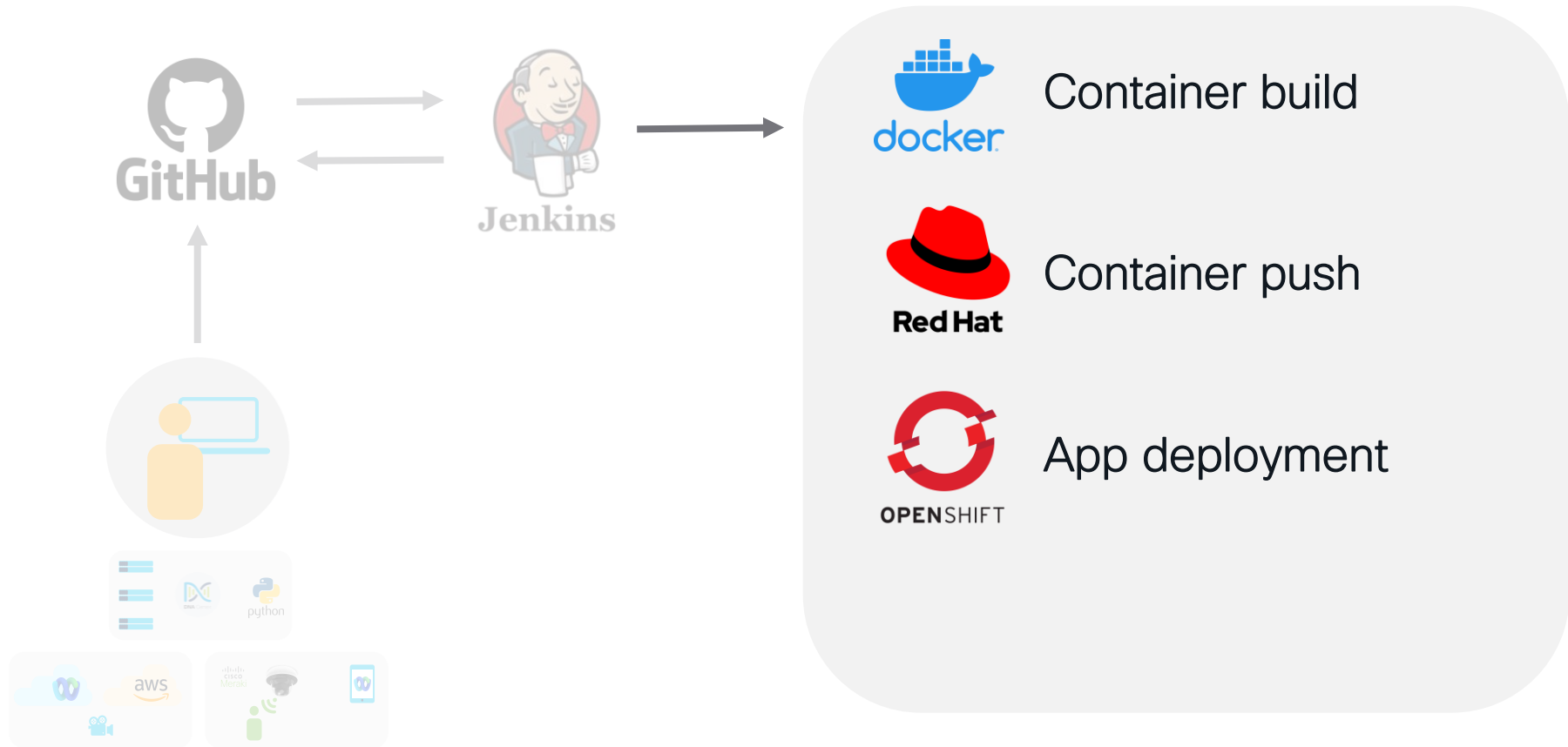
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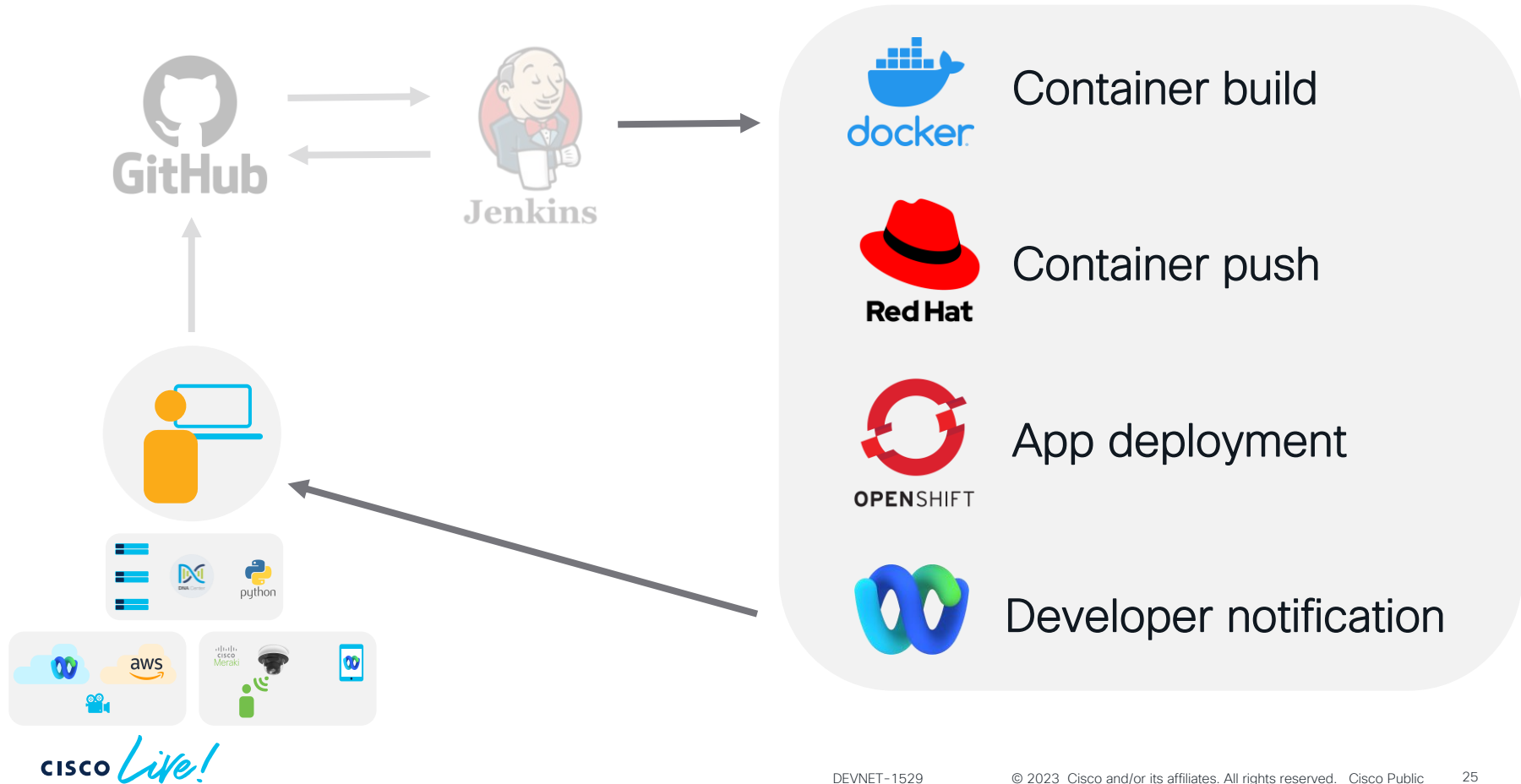
# A generic DevOps-driven development cycle



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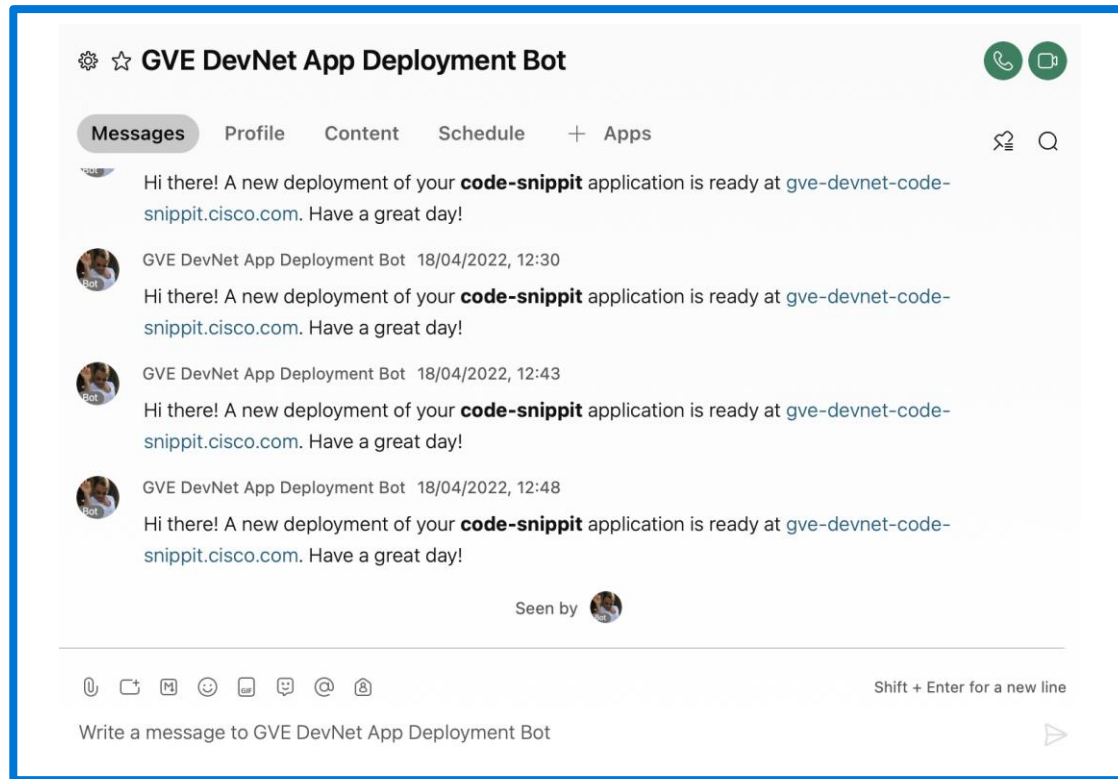


# A generic DevOps-driven development cycle

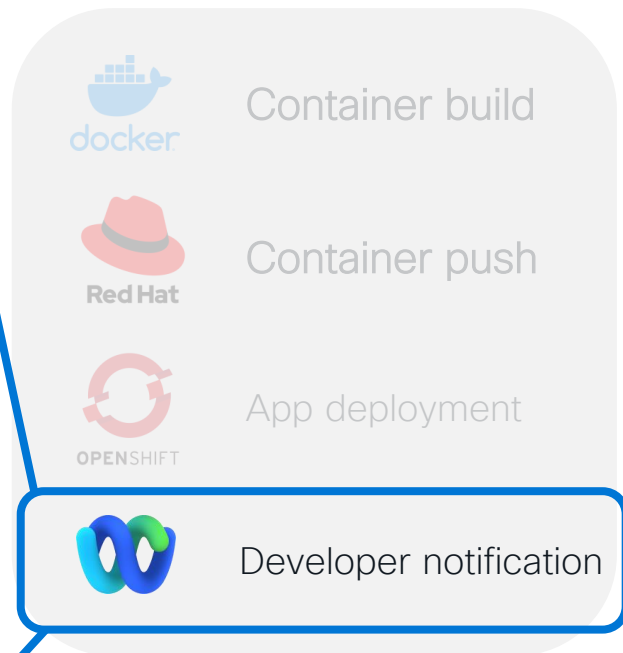




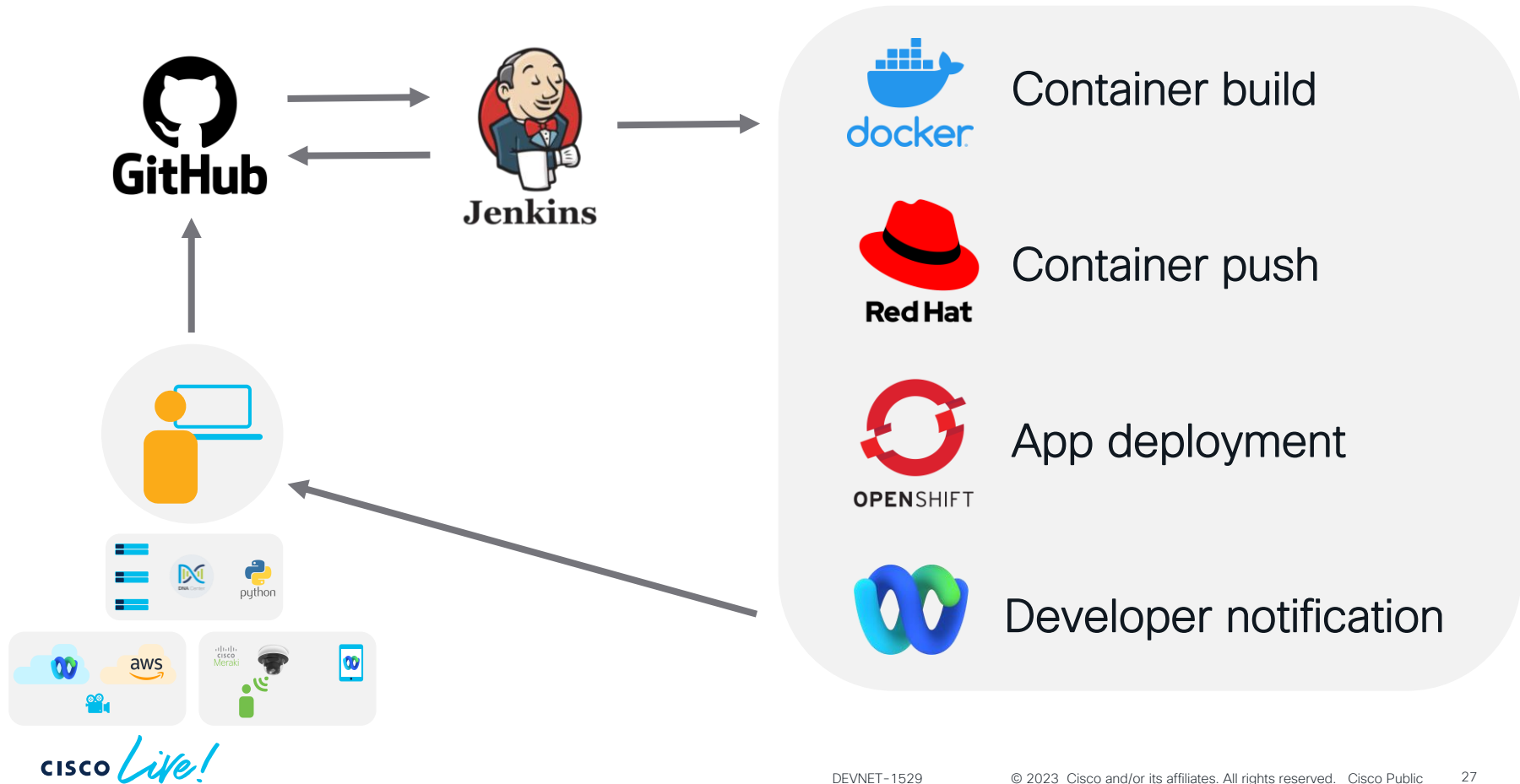
# A generic DevOps-driven development cycle



The screenshot shows a Slack interface for a channel named "GVE DevNet App Deployment Bot". The interface includes tabs for "Messages", "Profile", "Content", "Schedule", and "+ Apps". The "Messages" tab is active, displaying a series of four identical messages from the bot. Each message reads: "Hi there! A new deployment of your **code-snippit** application is ready at [gve-devnet-code-snippit.cisco.com](\"http://gve-devnet-code-snippit.cisco.com\"). Have a great day!". The messages are timestamped "18/04/2022, 12:30", "12:43", and "12:48". At the bottom of the chat window, there is a text input field with the placeholder "Write a message to GVE DevNet App Deployment Bot" and a "Shift + Enter for a new line" instruction. A "Seen by" indicator shows a profile picture.



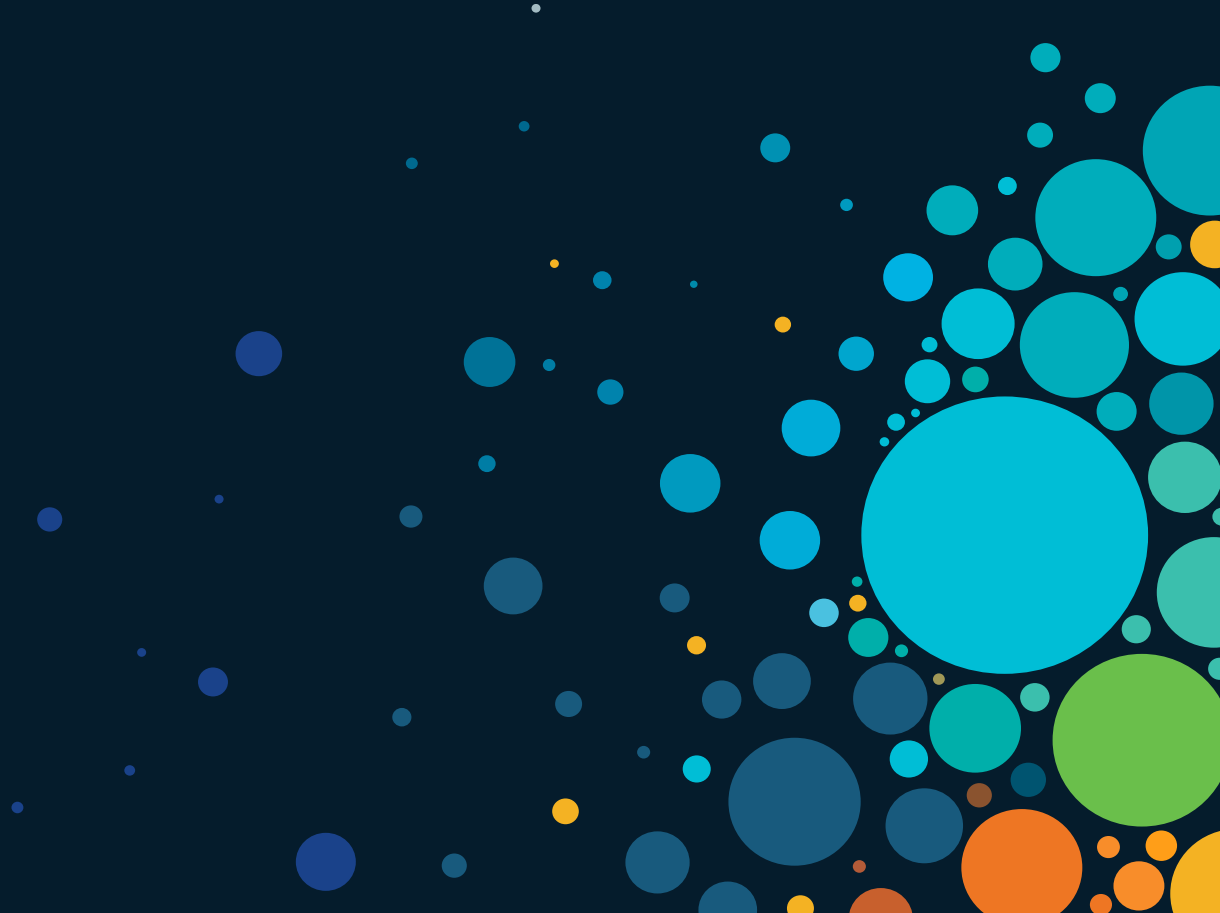
# A generic DevOps-driven development cycle



# Agenda

- Intro
- Reason 1 – It goes with any outfit
- Reason 2 – ??
- Reason 3 – ??
- Reason 4 – ??
- Reason 5 – ??
- Conclusion

Reason 2:  
It's an  
investment



# The ROI of a DevOps culture



231

failed  
application  
builds



361

code pushes



100+

development  
hours

# The ROI of a DevOps culture



**100%**  
automated app  
deployment



**instant**  
“click to demo”



**~30%**  
development  
time reduction

# Agenda

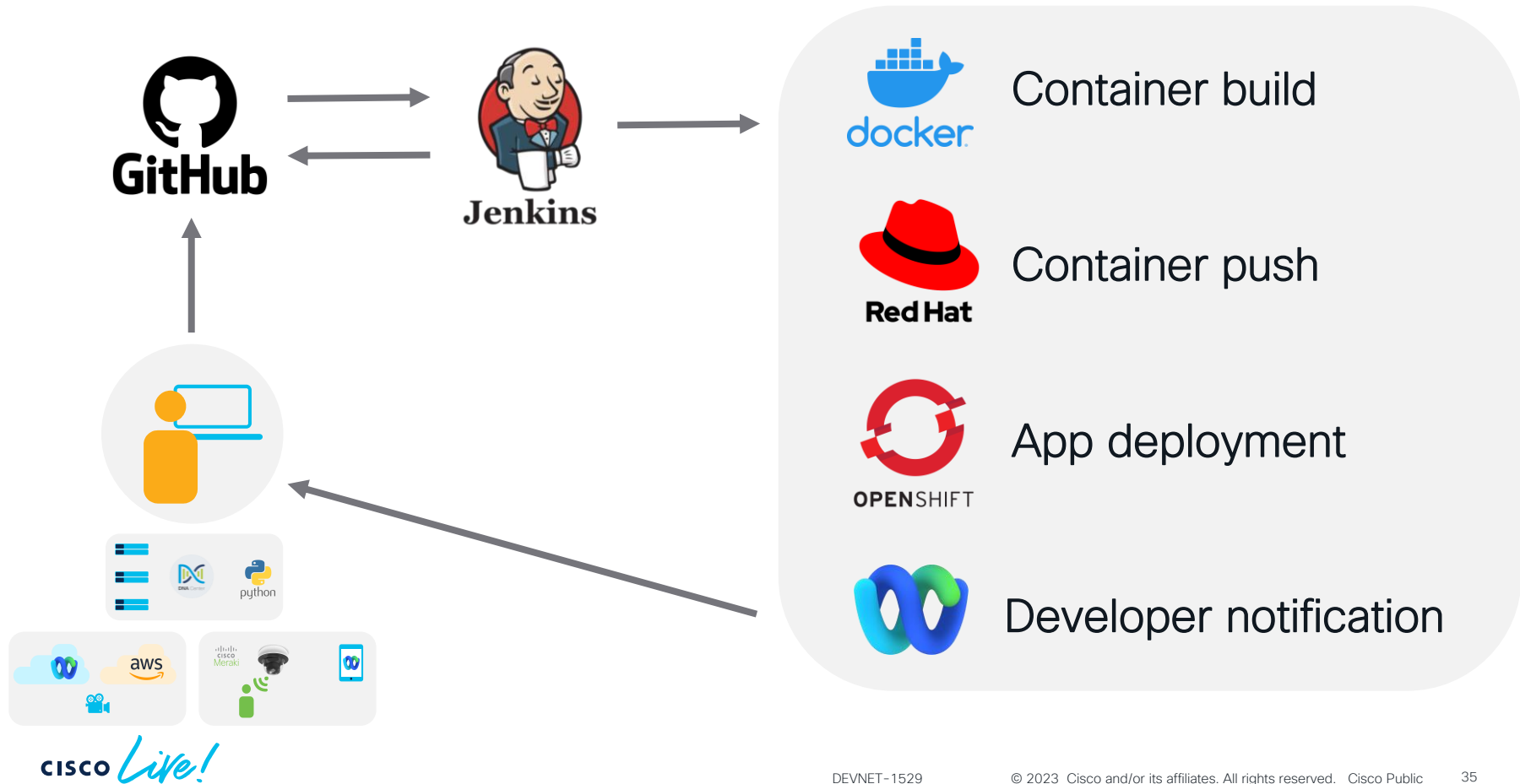
- Intro
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- Reason 3 – ??
- Reason 4 – ??
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- Conclusion

Reason 3:  
Cisco doesn't  
sell it, but our  
boxes can keep  
it warm

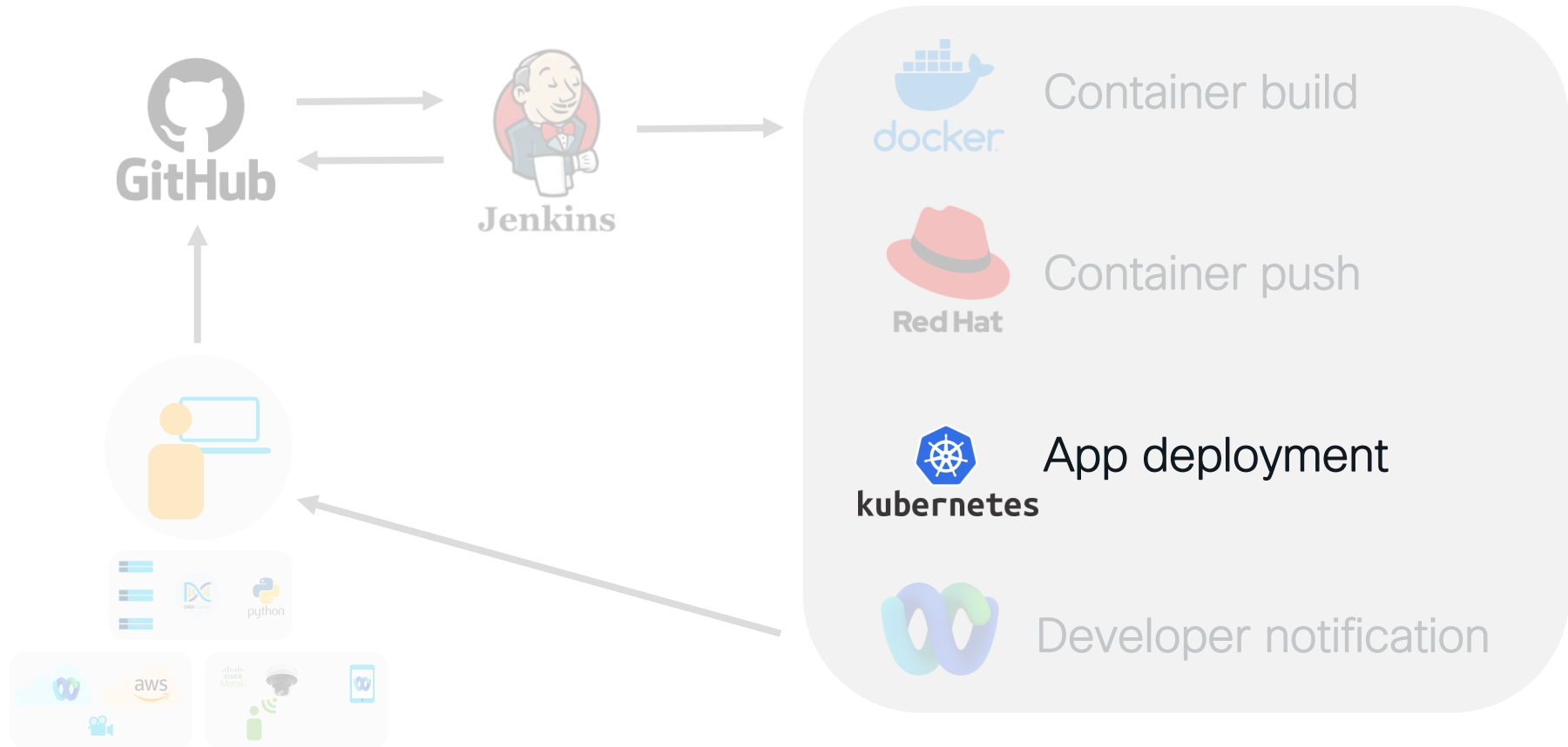


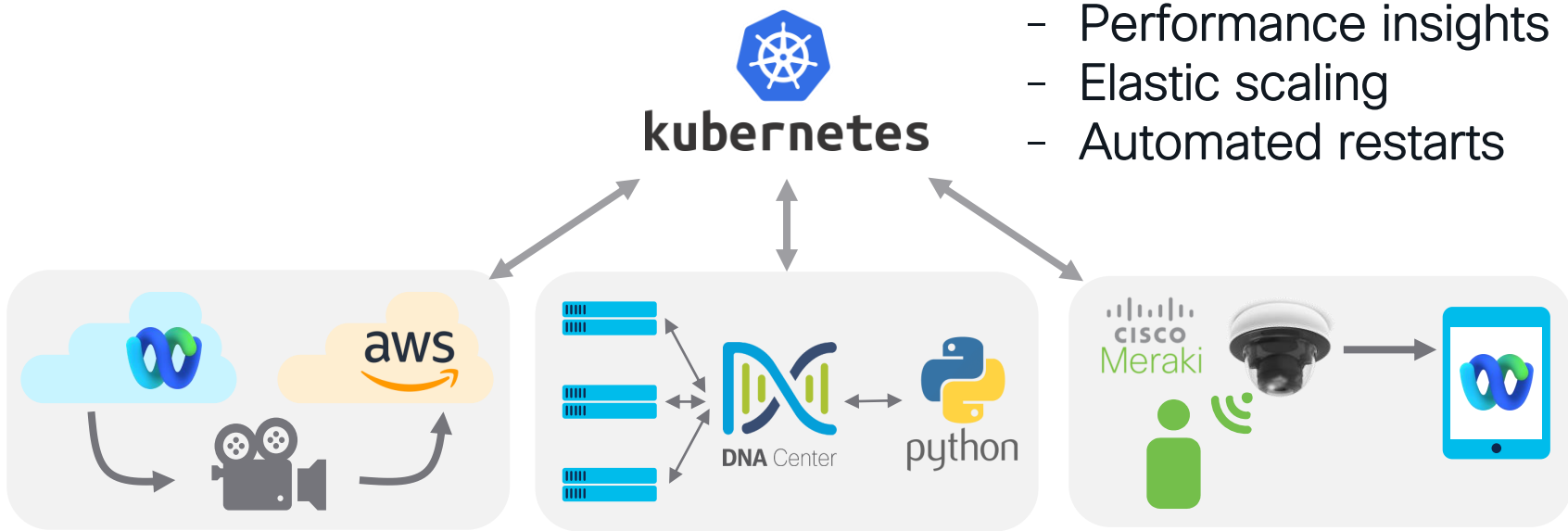


# A generic DevOps-driven development cycle



# A generic DevOps-driven development cycle

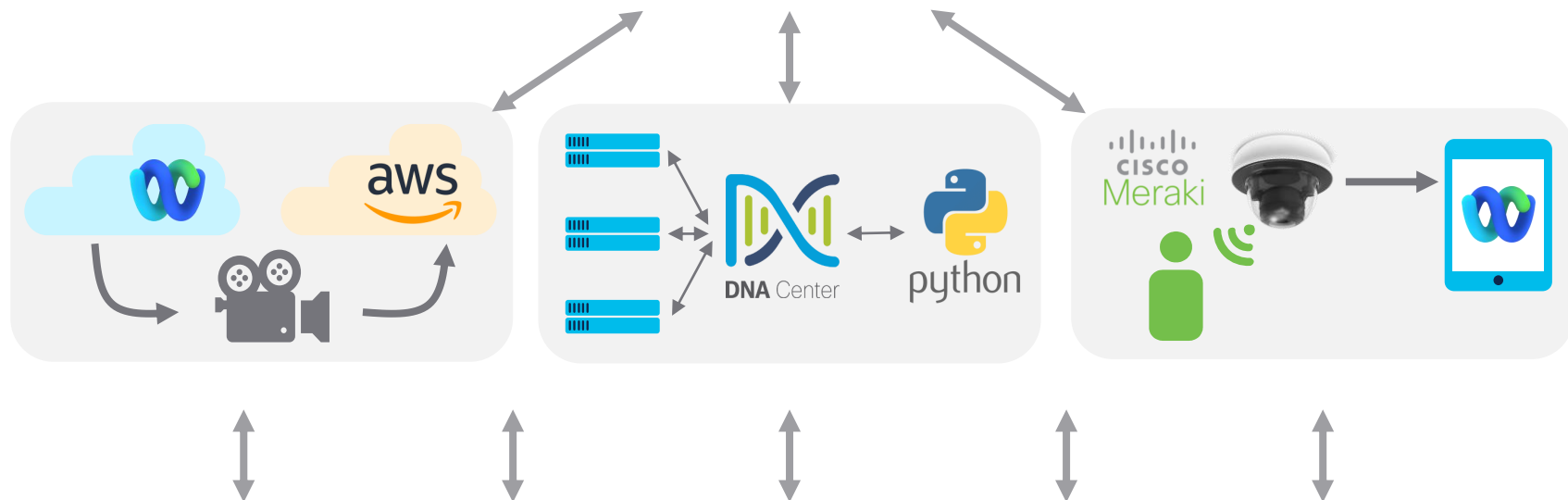




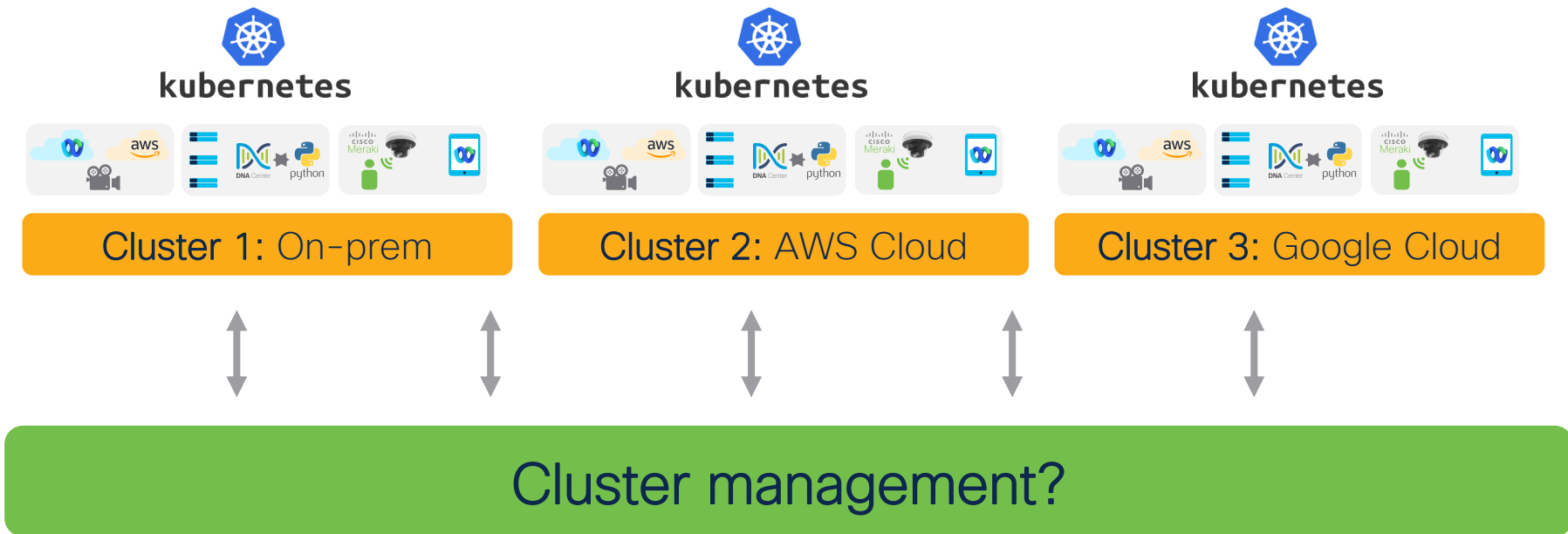


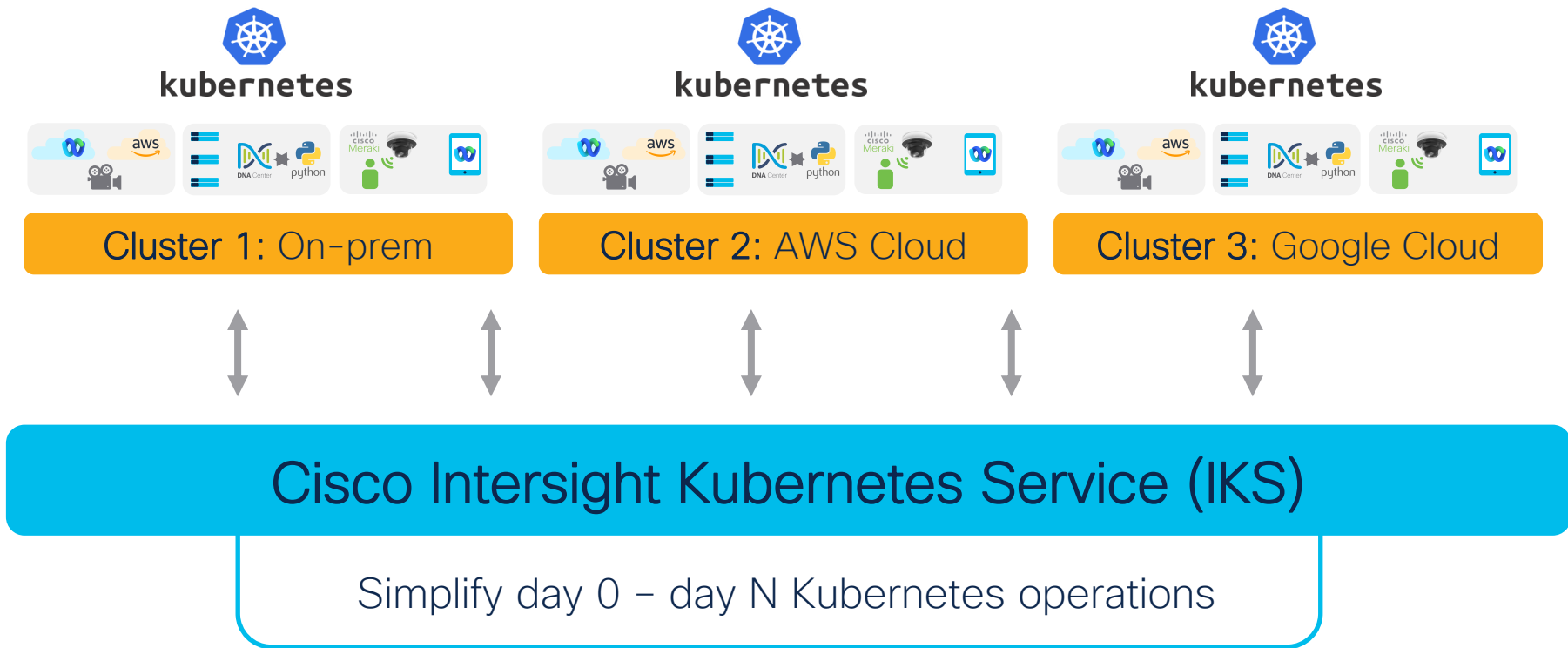
## kubernetes

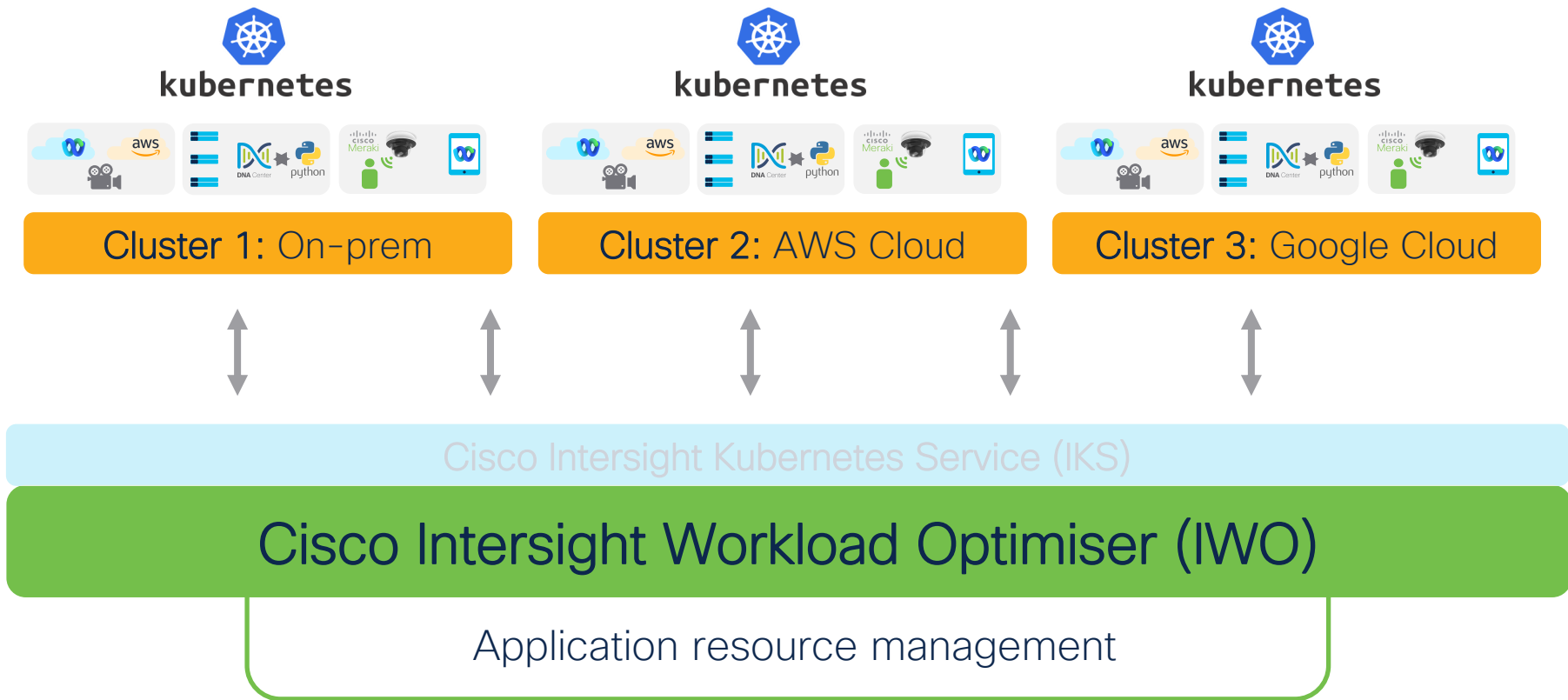
- Performance insights
- Elastic scaling
- Automated restarts

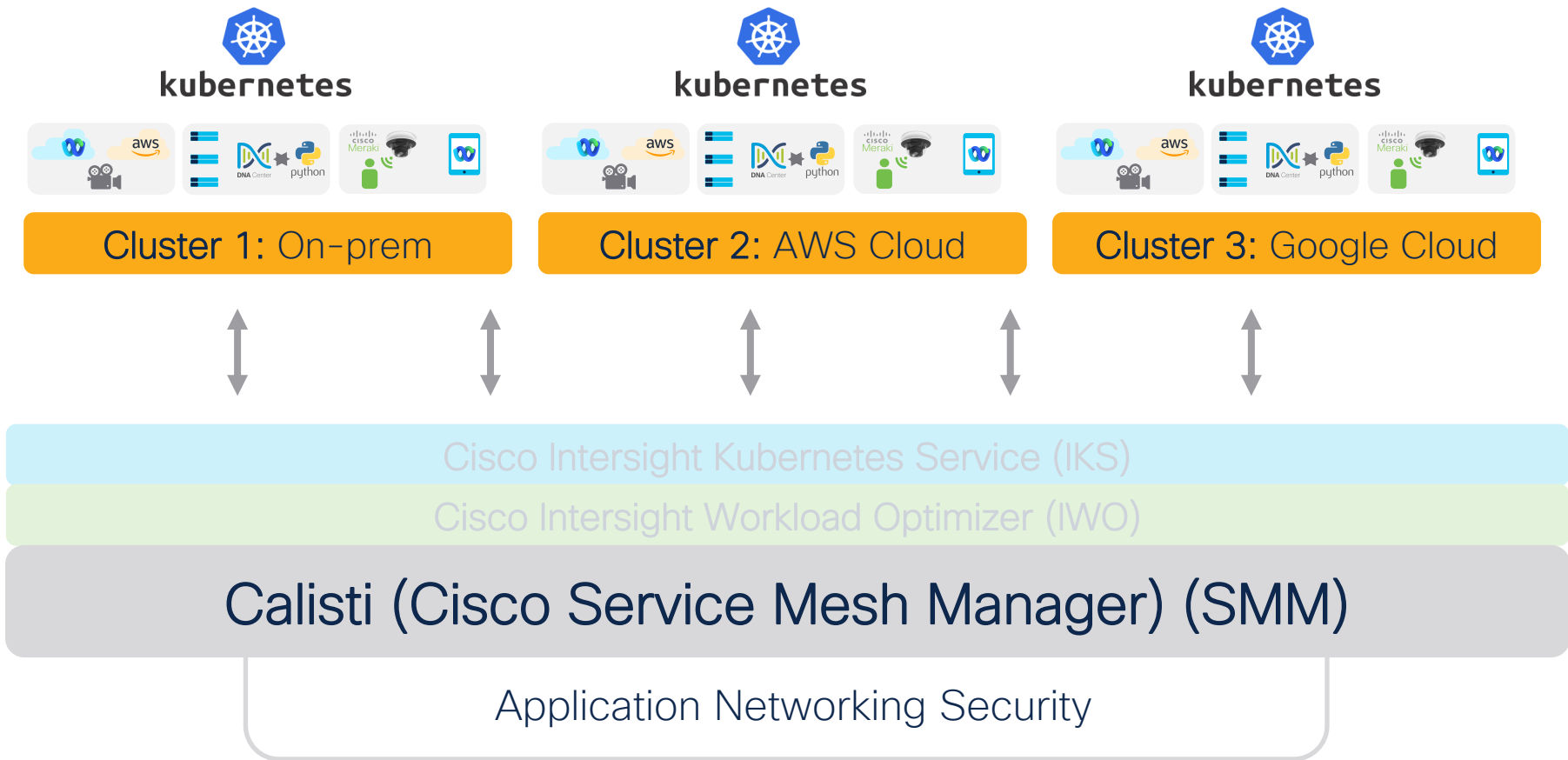


Hardware?

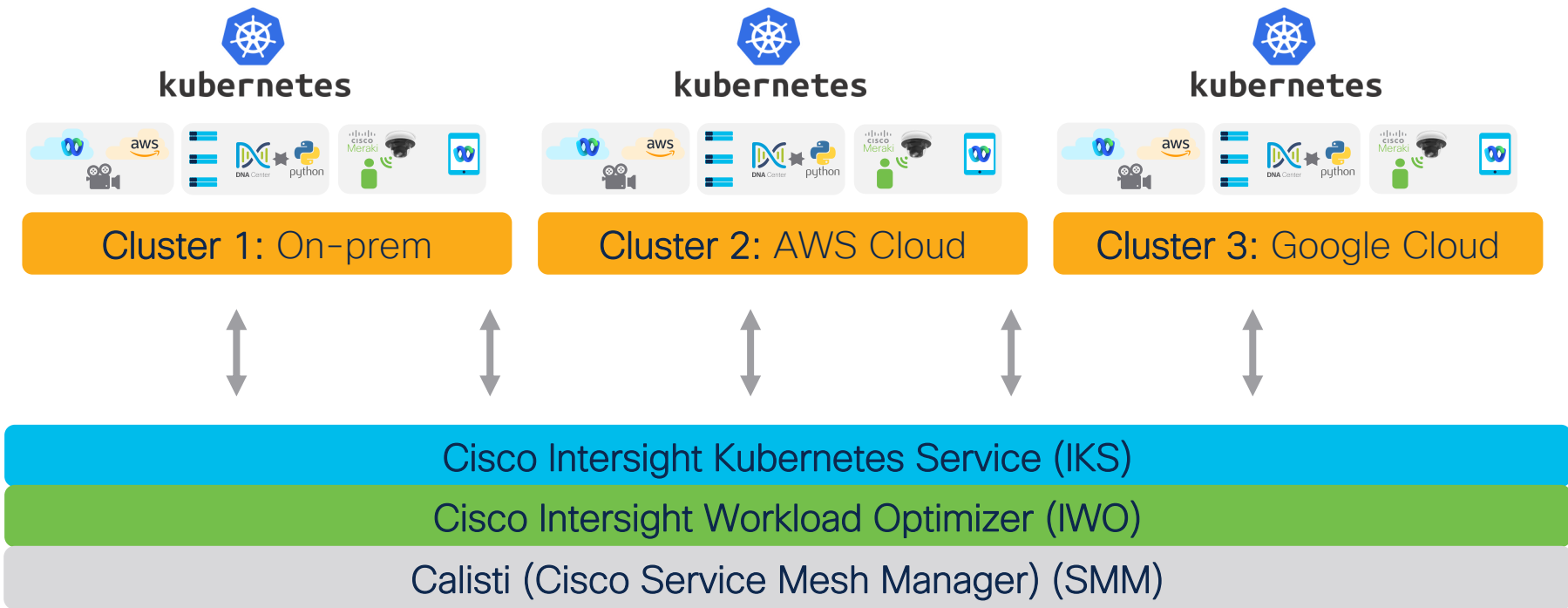












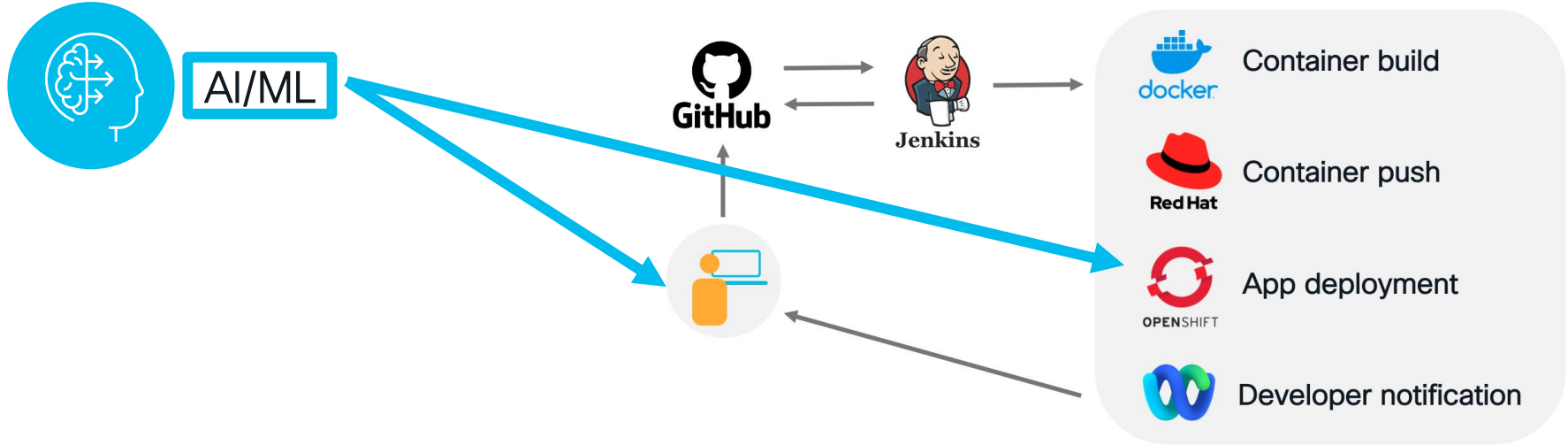
# Agenda

- Intro
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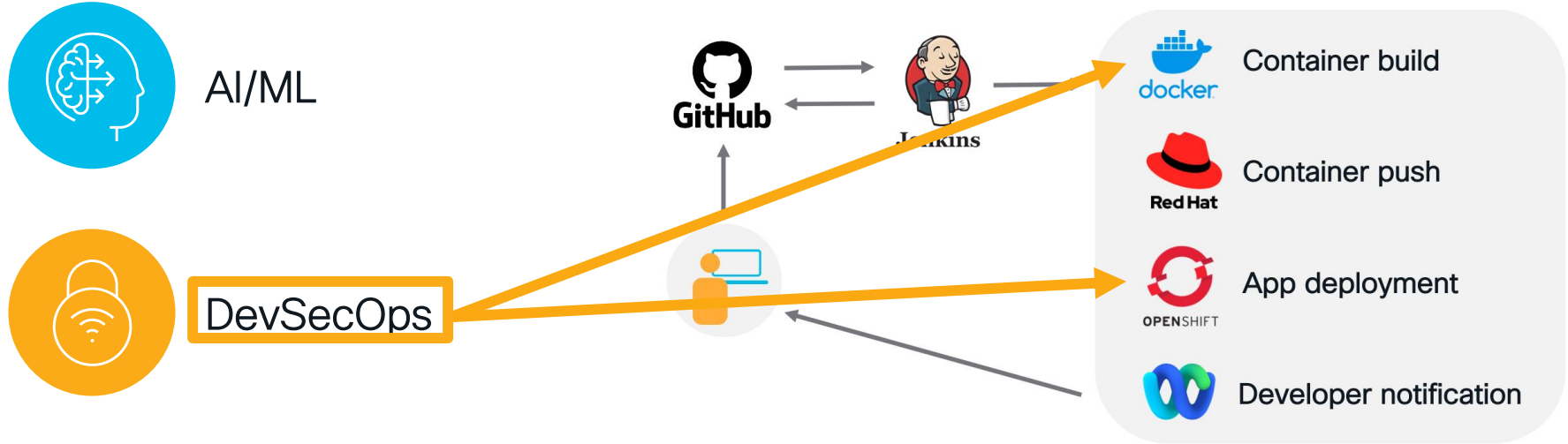
Reason 4:  
With each  
season, a new  
trend rises



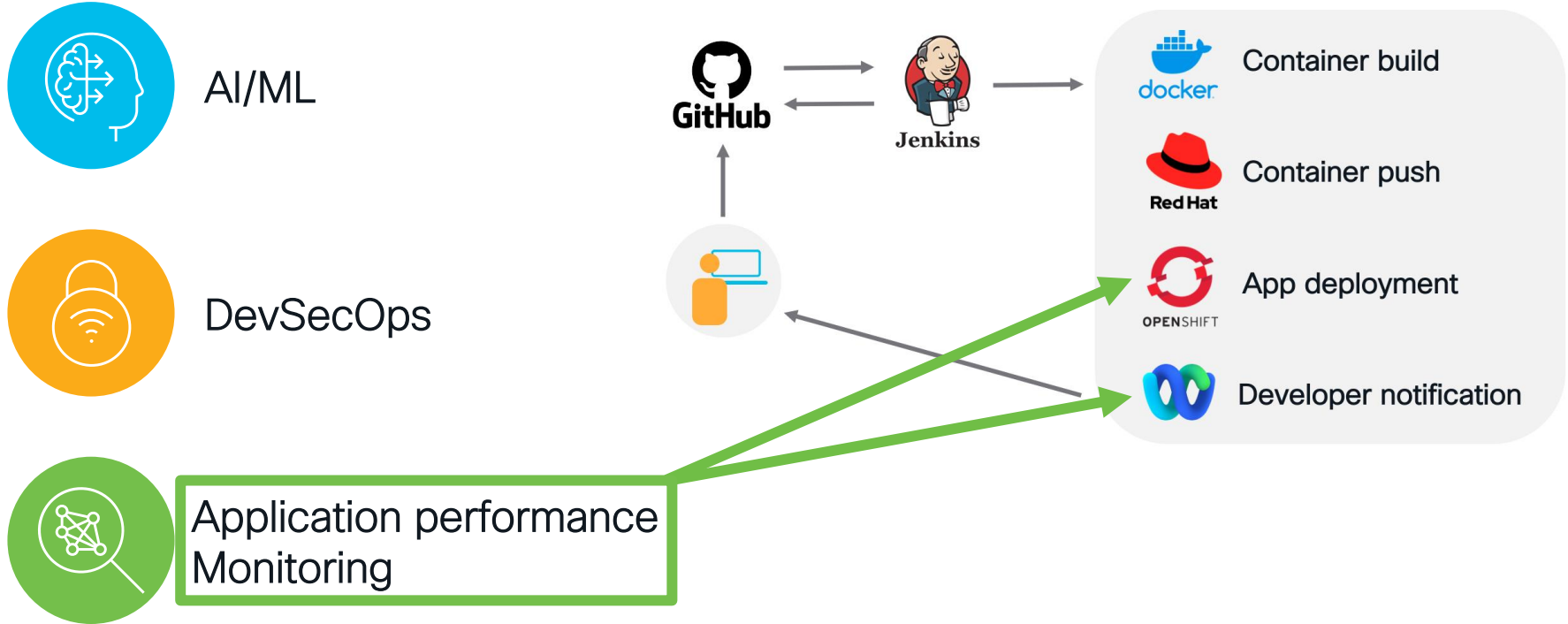
# The DevOps landscape is constantly evolving



# The DevOps landscape is constantly evolving



# The DevOps landscape is constantly evolving



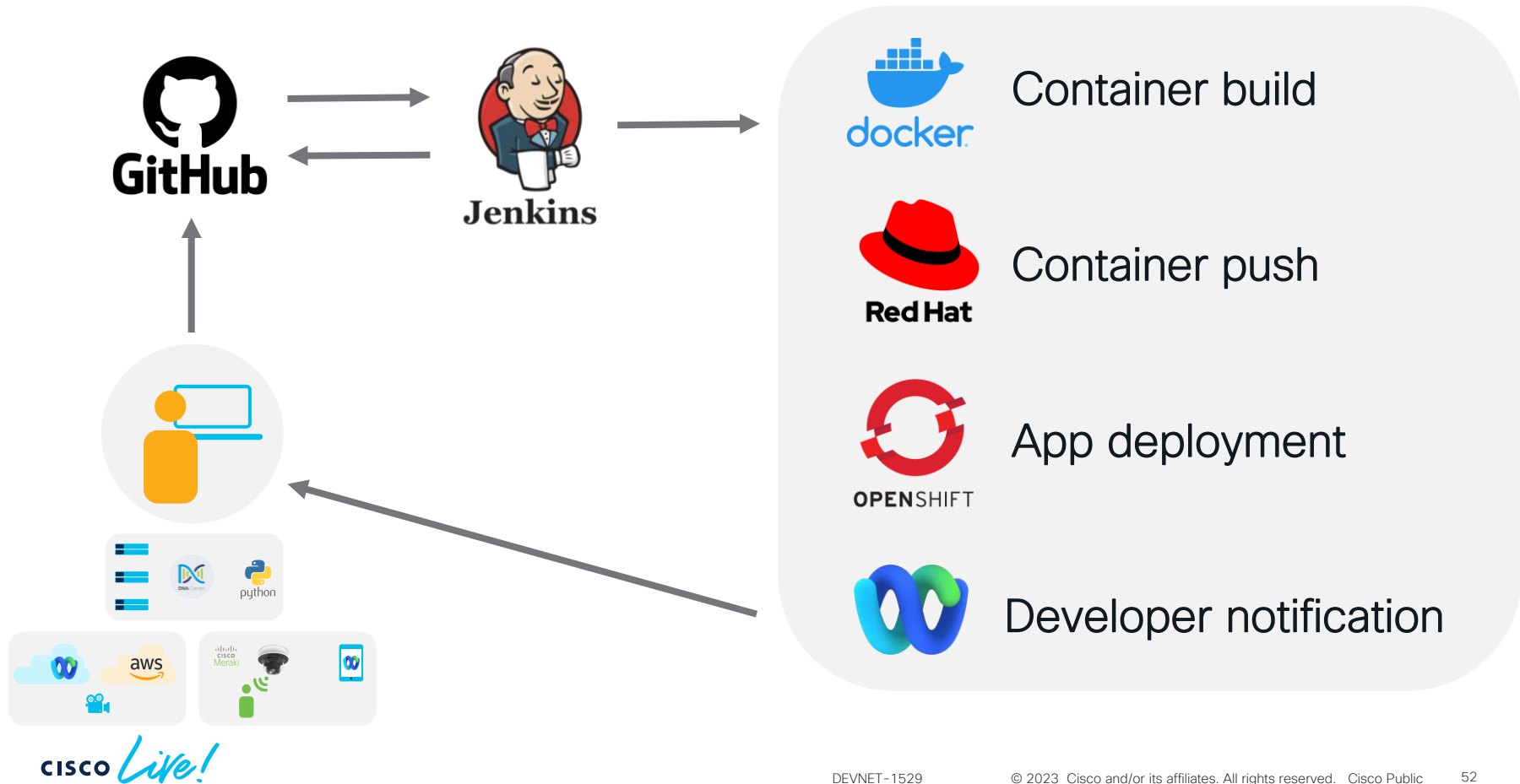
# Agenda

- Intro
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- Reason 3 – Cisco doesn't sell it, but our boxes can keep it warm
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- Conclusion

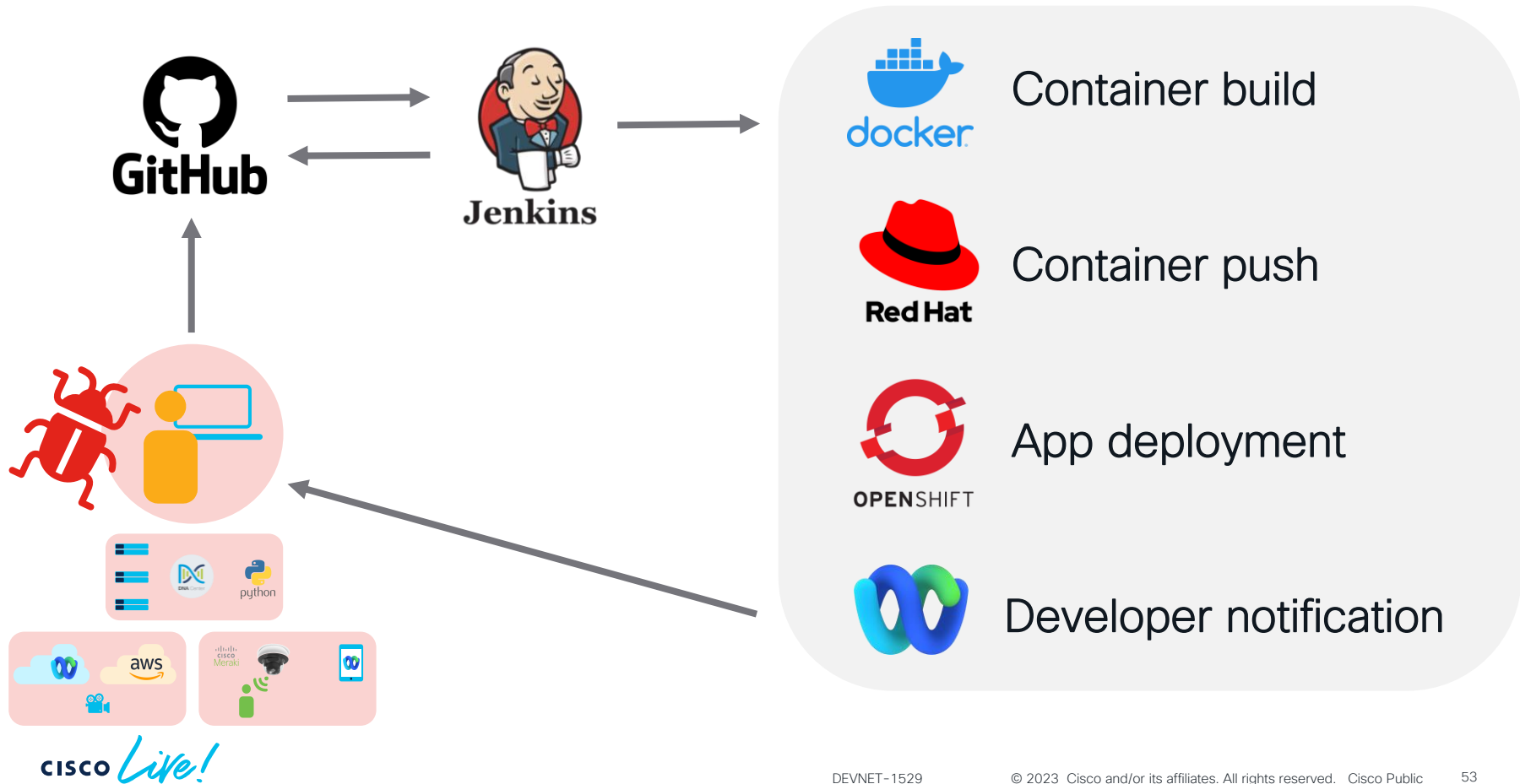
Reason 5:  
You don't want  
to get it dirty



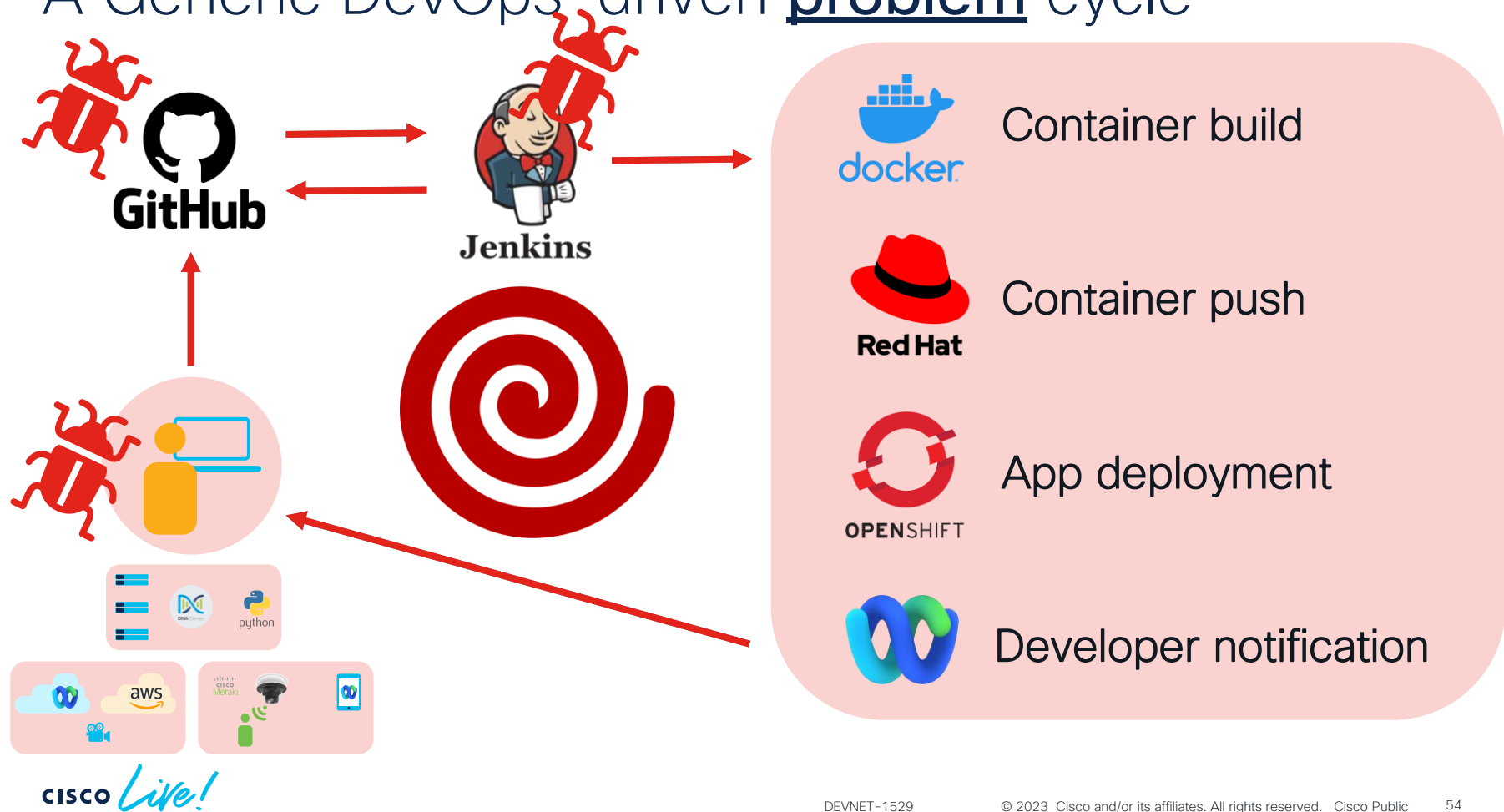
# A Generic DevOps-driven development cycle



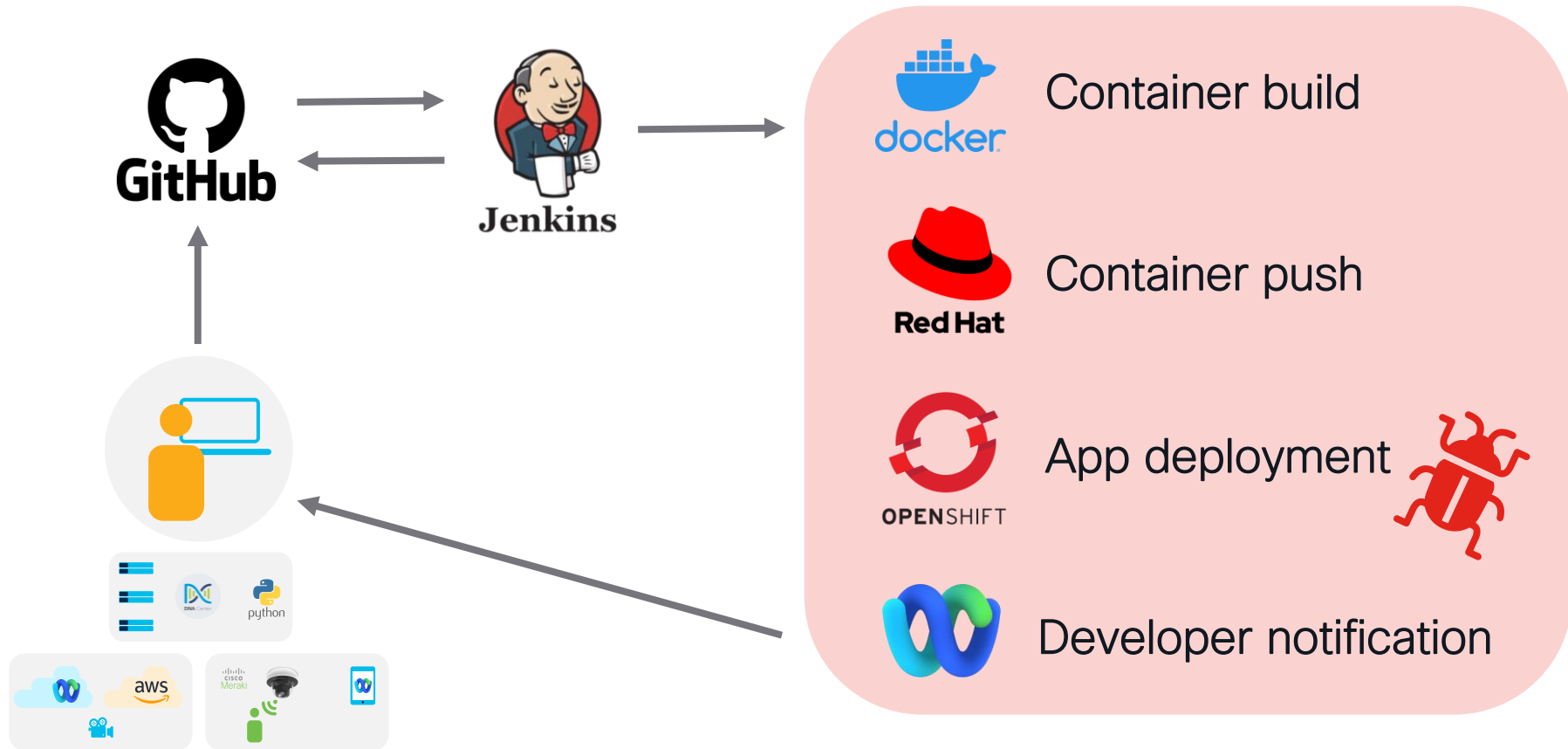
# A Generic DevOps-driven problem cycle



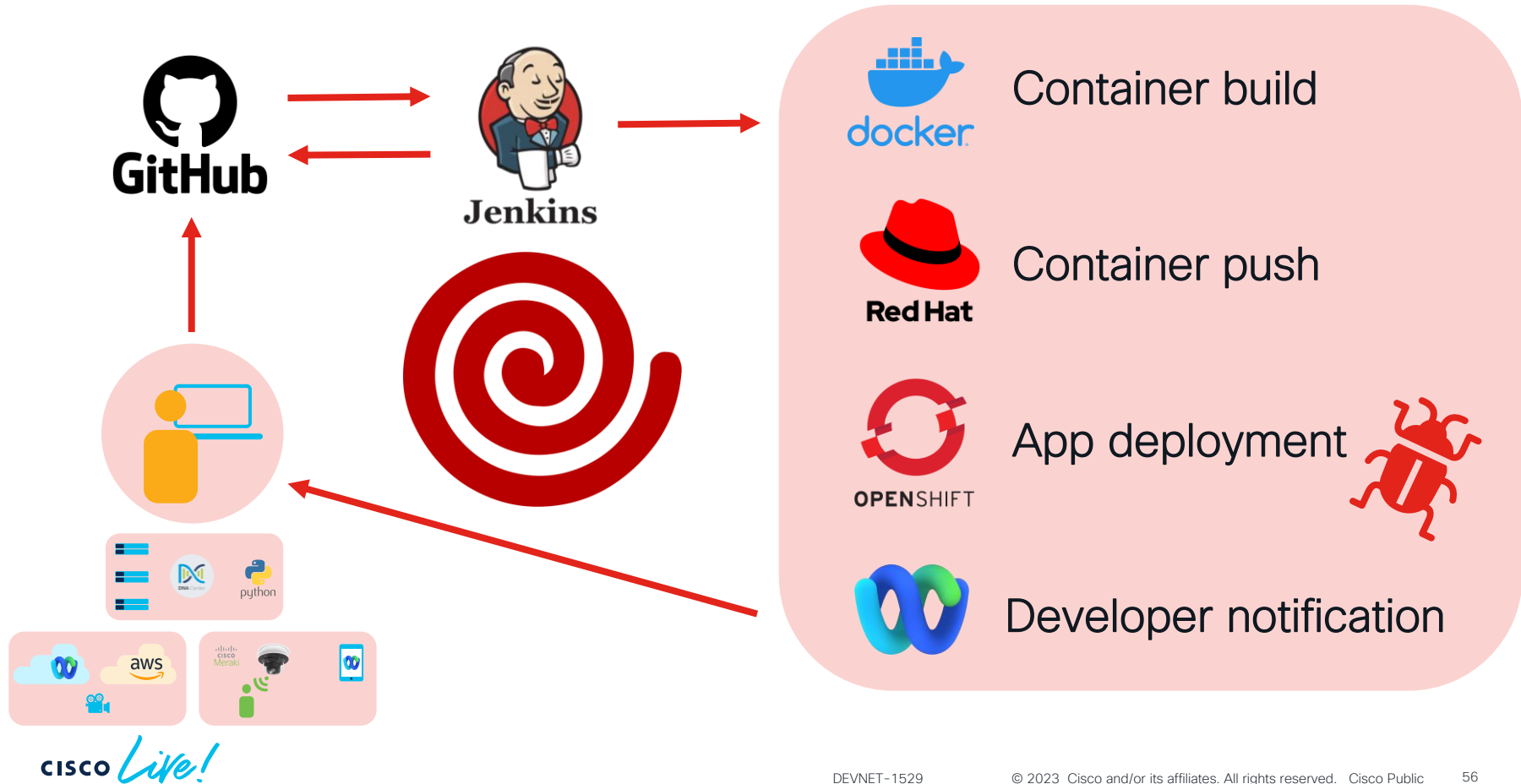
# A Generic DevOps-driven problem cycle



# A Generic DevOps-driven development cycle



# A Generic DevOps-driven problem cycle



# Intellectuals solve problems, geniuses prevent them



**TEST** your changes before using them



**MONITOR** automation progress and outcomes



**MANAGE** teams over tools

# Agenda

- Intro
- Reason 1 – It goes with any outfit
- Reason 2 – It's an investment
- Reason 3 – Cisco doesn't sell it, but our boxes can keep it warm
- Reason 4 – With each season, a new trend rises
- Reason 5 – You don't want to get it dirty
- Conclusion

# A message to bring ba(ck/g) home

WHY?

We strive for  
efficiency, agility and consistency...

HOW?

... by adopting automation and integration in the way  
we manage infrastructure and applications ...

WHAT?

... in setting up a new, cross-departmental  
development cycle that is driven by DevOps  
practices and tools.



We want your feedback!

Answer a few questions in  
a short survey to be  
entered to win a  
DevNet Hoodie!



[cs.co/DNZCLEUR2023](https://cs.co/DNZCLEUR2023)



# Complete your Session Survey

- Please complete your session survey after each session. Your feedback is important.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Session Catalog and clicking the "Attendee Dashboard" at <https://www.ciscolive.com/emea/learn/sessions/session-catalog.html>



# Continue Your Education



Visit the Cisco Showcase for related demos.



Book your one-on-one Meet the Engineer meeting.



Attend any of the related sessions at the DevNet, Capture the Flag, and Walk-in Labs zones.



Visit the On-Demand Library for more sessions at [ciscolive.com/on-demand](https://ciscolive.com/on-demand).

# Where to go from here?

Kubernetes

You are  
here

Automation  
Best Practices

BRKDEV-1533  
Kubernetes and You!

DEVNET-1487  
Intro to Kubernetes

DEVNET-2151  
Jenkins Automations for  
Cisco DNA Center

BRKETI-2003  
Understanding Multicluster  
Kubernetes Connectivity Options

DEVNET-3034  
Your Mess Needs a Mesh

DEWWKS-1950  
Saturday Night and the Network's Alright -  
Network Automation Hacks

DEVNET-1849  
Network Automation - Start Here

DEWWKS-1970  
5 ways to impress your  
colleagues with automation

BRKOPS-1237  
Programmability Skills for Engineers Who  
Don't Want to Code

DEVNET-1529

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# References

- IKS at-a-glance: <https://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/intersight/at-a-glance-c45-744332.html>
- Intro to IKS: <https://blogs.cisco.com/cloud/saas-based-kubernetes-lifecycle-management-an-introduction-to-intersight-kubernetes-service?ccid=cc001268>
- ACI overview: <https://www.cisco.com/c/dam/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/solution-overview-c22-739493.pdf>
- ACI-Kubernetes integration:  
[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b\\_Kubernetes\\_Integration\\_with\\_ACI.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b_Kubernetes_Integration_with_ACI.html)
- IKS customer use case: <https://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/intersight/money-mart-fs-case-study.html?oid=csycsm023781>
- SMM at-a-glance: <https://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/intersight/nb-06-service-mesh-mgr-aag-cte-en.html>
- Agile Manifesto: <https://agilemanifesto.org/>

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