

Tuesday, September 22, 10:30 a.m.-11:00 a.m

DevOps for Heritage & COTS Systems

A Practitioners Perspective
Savinder Puri & Anurag Sharma

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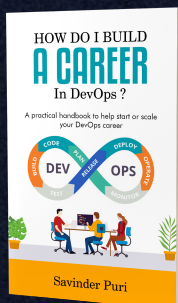
Engineering (Computers),
Class of 2000



Ambassador at DevOps Institute
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Published author



Reiki Grandmaster &
Angelic Healer



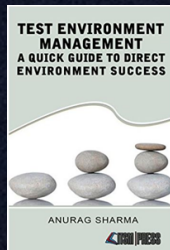
Engineering (Computers),
Class of 2008



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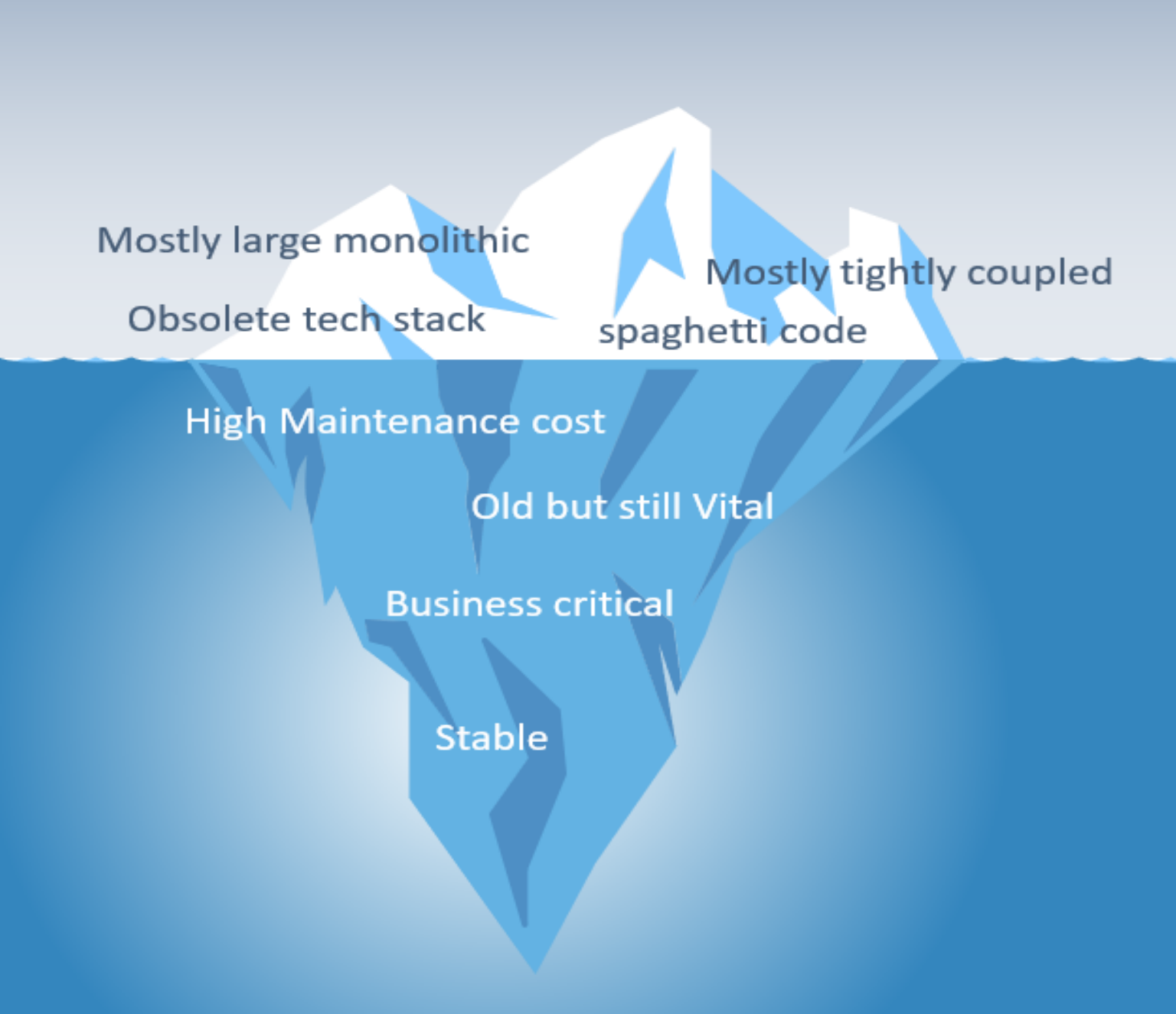


Blogger and Poet

DevOps for Heritage Systems



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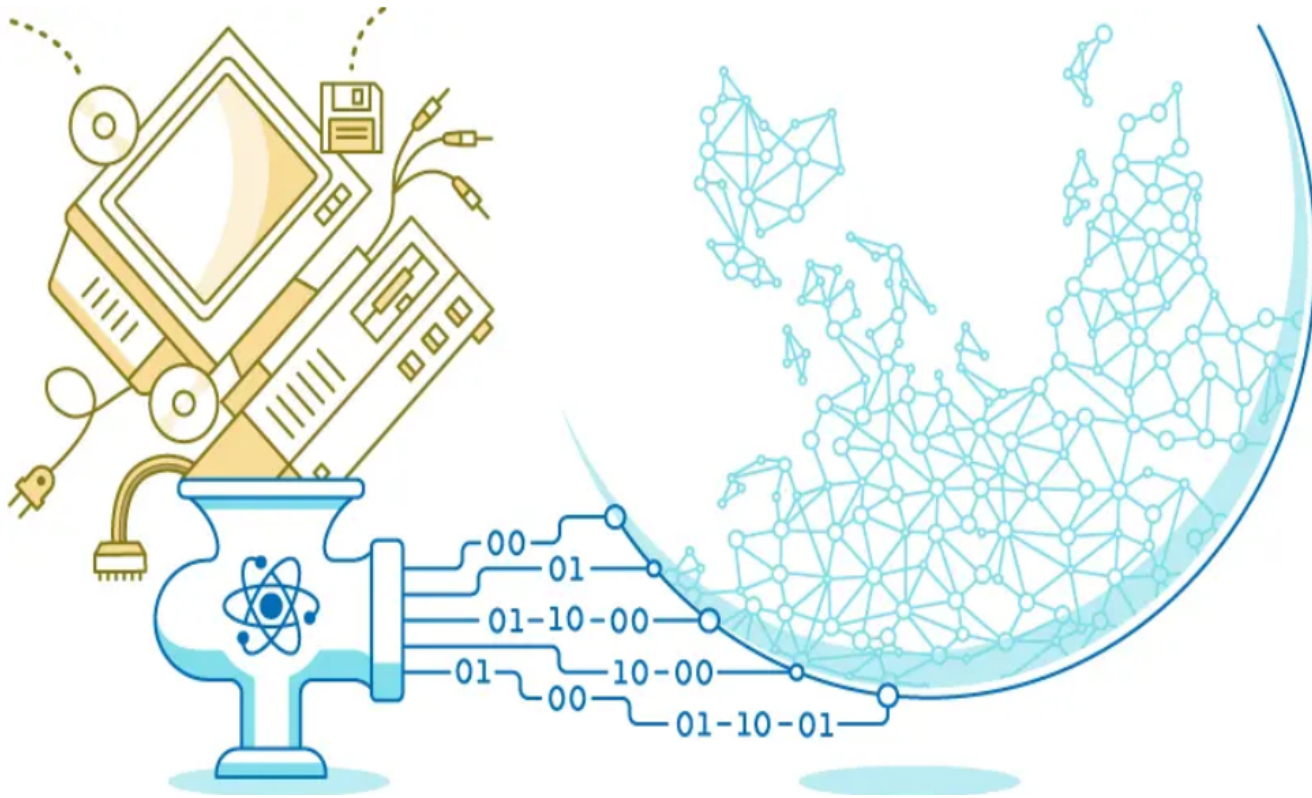


*It's
just a
mindset...*



Should we give skates
to this Dinosaur?

Yes – You should modernize your vital Heritage

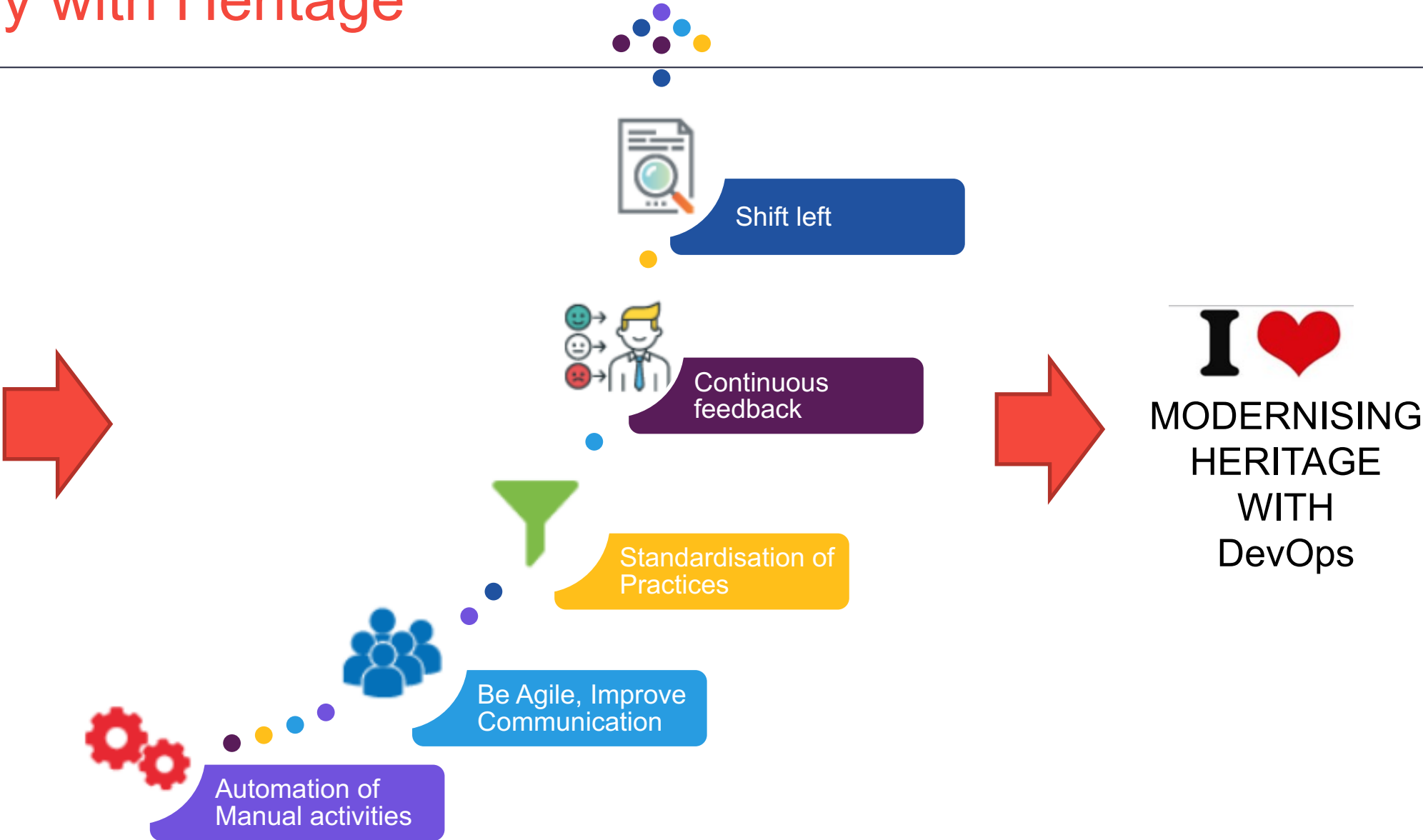


- To improve collaboration between team
- Reduces risk and improves the speed of feature delivery
- To meet security and data compliance
- There is a Return of Investment
- They are still Vital

My Journey with Heritage



Scary game
Started with
DevOps
mindset



Key lessons I learnt from my journey



- Don't skimp on processes or tooling up front, start where you are..
- There is an immense value in communication and communicate to create shared understanding
- Collaboration and Building Up team knowledge around changes
- DevOps significantly changes the way People sees Heritage
- Your Heritage valuable if you modernise, it will be your best friend in transformation journey

DevOps for COTS Systems



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- “Boxed” ecosystems
- In-built Environments
- Integrated Source Code
- Specialised Testing
- They are different !!!

- Reduce deployment failure/rollbacks
- Increase deployment frequency
- Implement DevOps best practices
- Bring system driven traceability





Closed:

- Little/no customisation to functionality and/or interfaces
- Management consoles & APIs to allow external interactions
- E.g. Microsoft Exchange

- Can configurations be **scripted**?
- Can configuration scripts be in **external version control**?
- How are **updates, patches, service packs** applied?
- What **APIs, SDKs**, etc. are available to extend?
- How much of the above can be **automated**?



Open:

- Allow modifications to functionality, data, and/or interfaces
- Have SDK/API and utilities to modify all layers of applications
- E.g. ERP/CRM platforms (like SAP or Oracle) or Portal platforms (Sharepoint, ServiceNow, or Websphere)

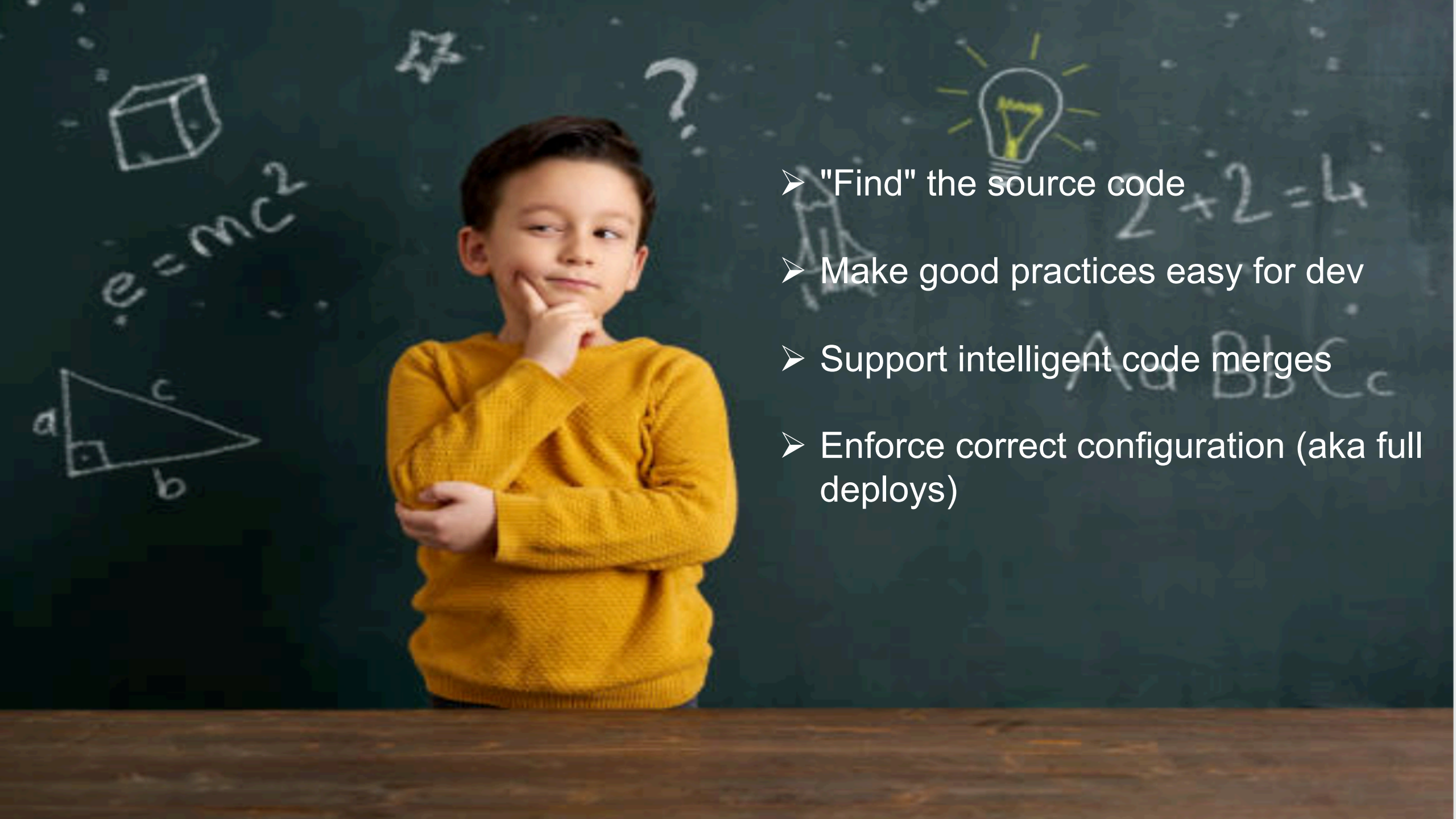
- Can these apps be **run/tested separate** from the underlying COTS application?
- How are **custom applications/applets** embedded in the application packaged, installed, and configured?
- Does the COTS application provide **testing frameworks**, mocks, and/or stubs for testing external dependencies?
- What is the **upgrade path** for customizations? (historically)



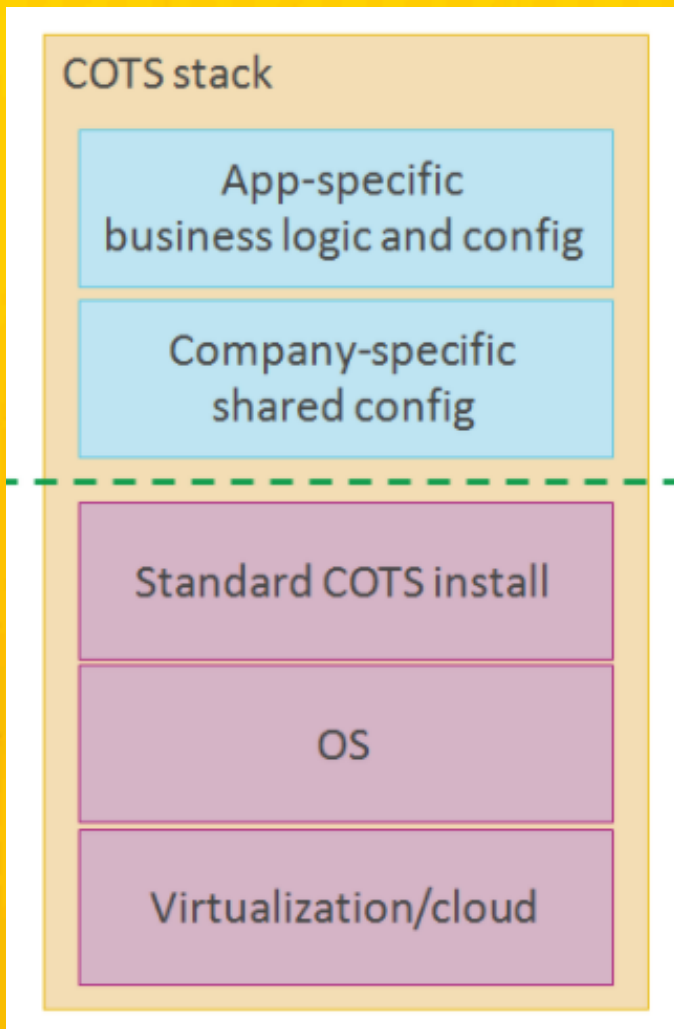
Platform:

- Packaged applications that enable customers to build **applications on top** of base platform
- E.g. Pegasystems, IBM Case Manager, etc.

- Common practices like version control, testing, build, etc. are done **through the platform** rather than from external tools.
- **Most difficult** type of applications to integrate into existing DevOps practices and CD tool chains



- "Find" the source code
- Make good practices easy for dev
- Support intelligent code merges
- Enforce correct configuration (aka full deploys)



*“DevOps
this!”*





Containerise COTS:

- Operational efficiencies
- Infrastructure scaling
- Consistent Environments
- Dynamic routing & start of strangulation, if desired
- Long term resting place, coherent with Cloud

Thank you

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