

Your CI/CD Fails at the Database and What You Can Do About It

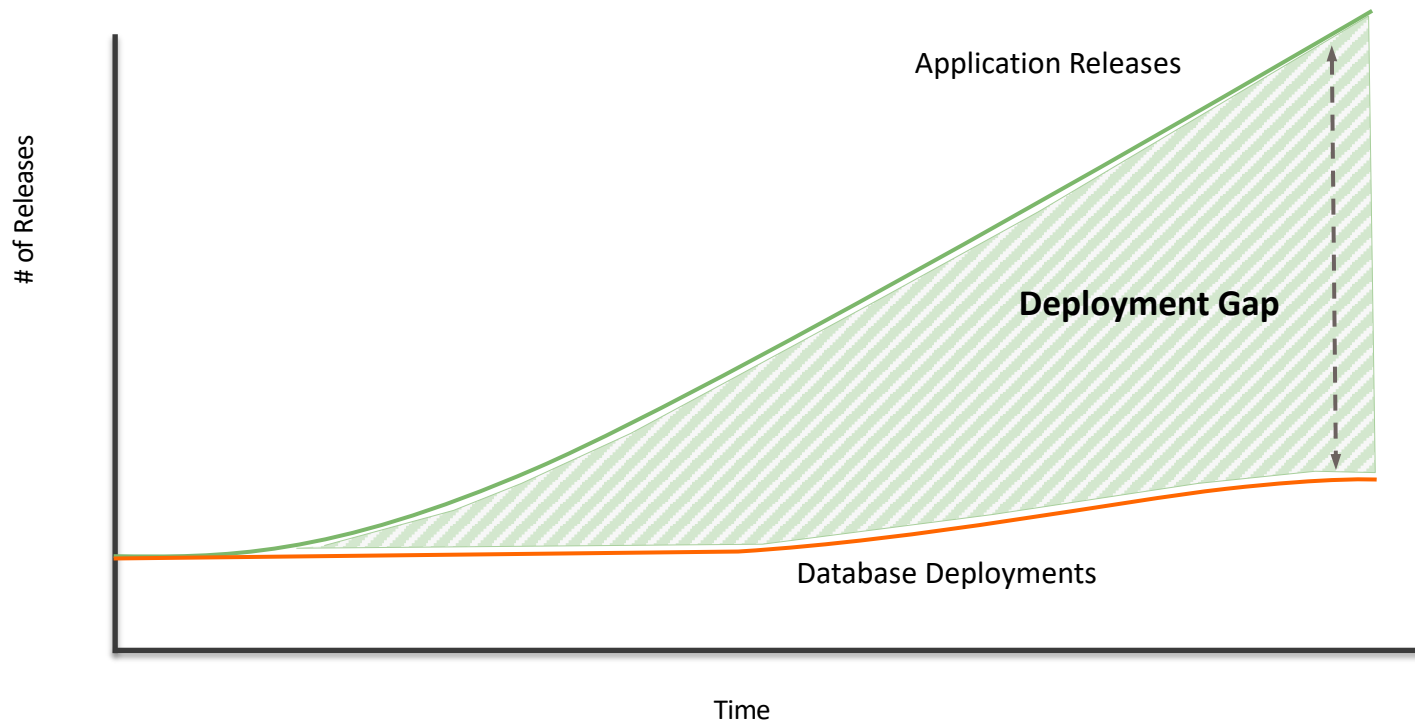
DevOps World 2020

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@robertreeves

**DEVOPS
WORLD**
by CloudBees







How did we get into
this mess?

1979

MICHAEL
JACKSON

OFF
THE
WALL








2002



A background image showing a group of people in a meeting. One person is pointing at a screen or document, while others are looking on. The image is somewhat faded and serves as a backdrop for the text.

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it.
Through this work we have come to value:

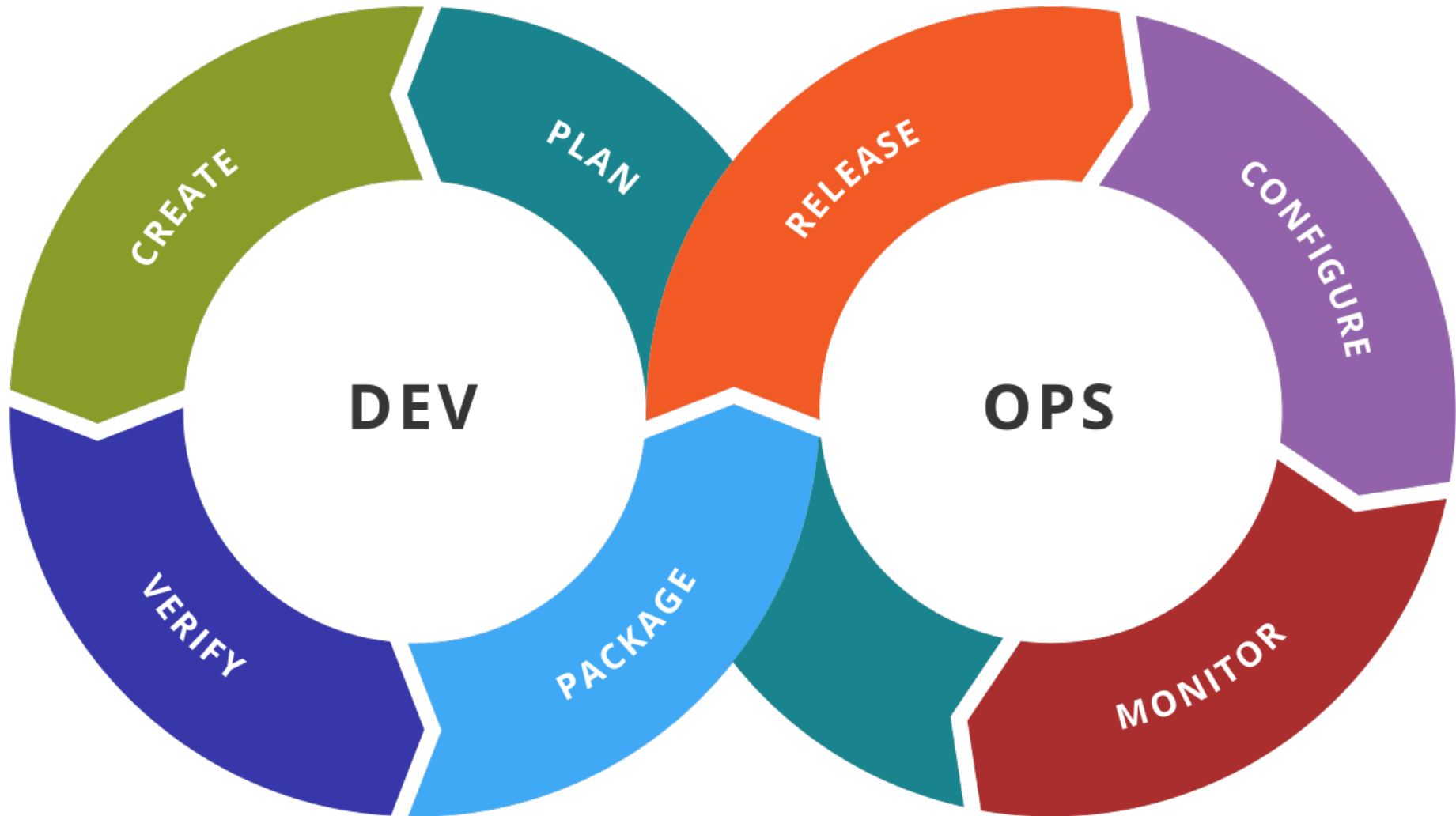
Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.



2009







“The future is already here;
it's just not very evenly
distributed.”

--William Gibson

The Reason We Haven't
Fixed the Database CI/CD
Problem...

“We’ve always done
it that way.”

Here are some things
we used to do, too:

Leaches & Bloodletting

Asbestos

Smoking

Creating a Ticket to Change the Database Schema

5 Ways to Clean This Mess Up

#1

You are not “done” until
it's in Production.

#2

No more tickets for
database changes.

#3

Development must
enforce good database
standards.

#4

Leave it better than you
found it.

#5

Team Work
makes the
Dream Work.

Get Help and Learn More

- [Reddit: /r/Liquibase](#)
- [Stack Overflow \(tag: Liquibase\)](#)
- [@Liquibase](#)
- [@robertreeves](#)