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September 29 - October 3 • TAP1, Copenhagen • gotocph.com

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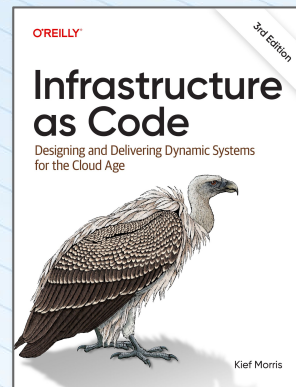


Application-Driven Infrastructure

Enabling More Effective Software Delivery

Kief Morris

<https://thoughtworks.com>



The **promise** of cloud and Infrastructure as Code



The **promise** of cloud and Infrastructure as Code

We can provision the
infrastructure we need
when we need it



The **promise** of cloud and Infrastructure as Code

We can provision the
infrastructure we need
when we need it

Our infrastructure will be
consistent and reliable



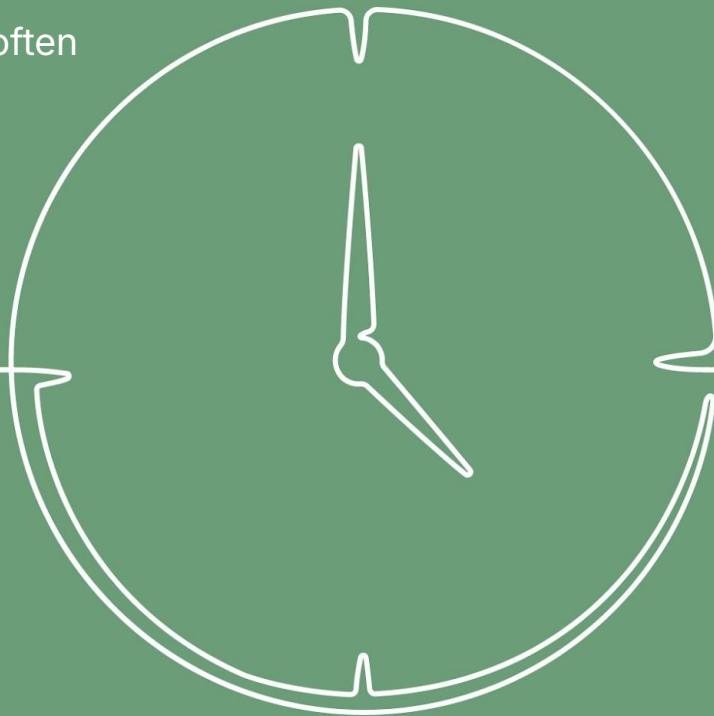
Reality



Deploying takes too long

Deployments fail too often

Reality



Deploying takes too long

Deployments fail too often

Not enough environments

Reality

Spending too much on
environments



Deploying takes too long

Deployments fail too often

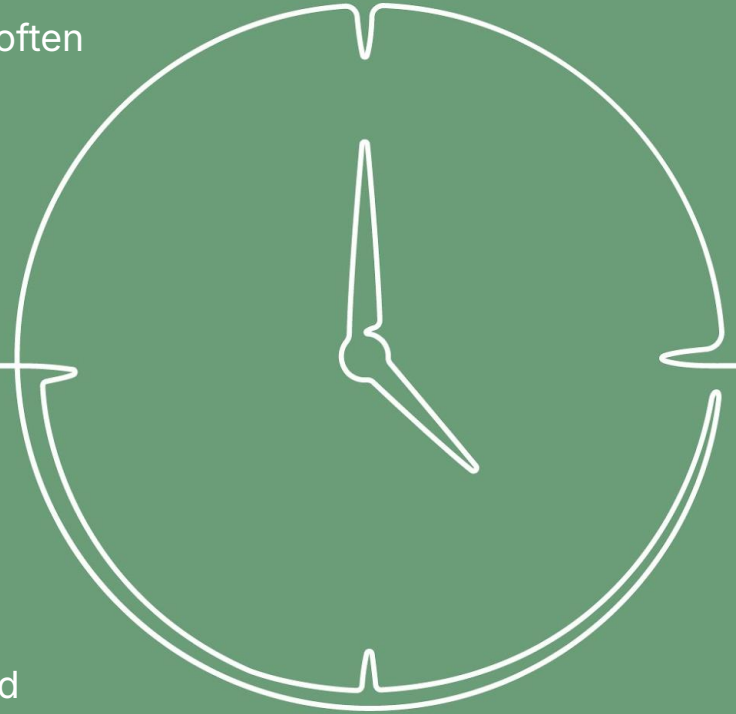
Not enough environments

Reality

Spending too much on
environments

Too much time for routine
tasks and fighting fires

No time to update and
improve systems



What it should be



What it should be

Software teams have the
infrastructure they need when they
need it



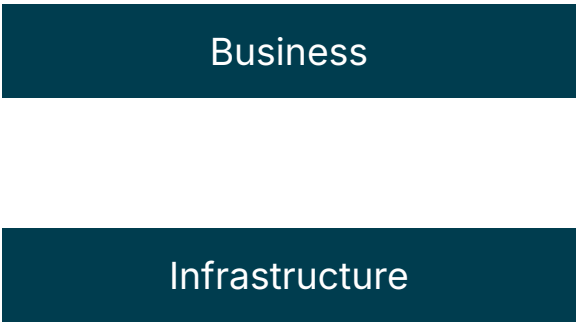
What it should be



**Software teams have the
infrastructure they need when they
need it**

**Infrastructure experts enable
high-quality infrastructure**

Infrastructure disconnect



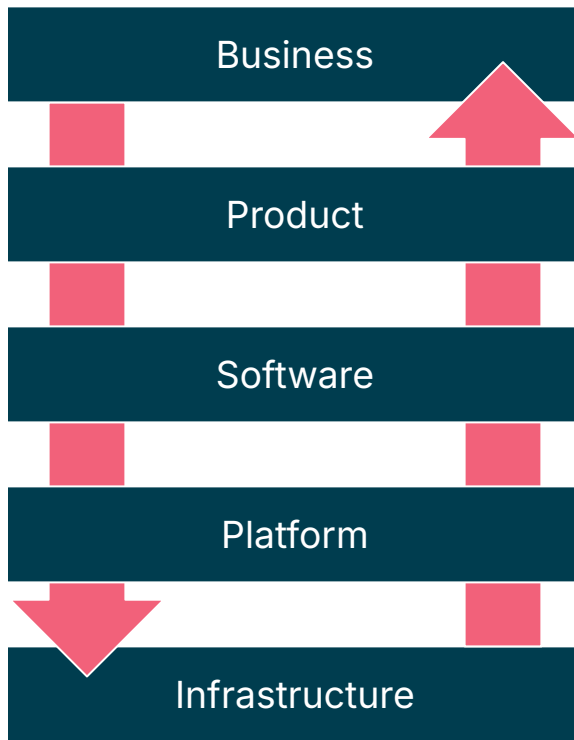
The diagram consists of two dark teal rectangular boxes stacked vertically. The top box contains the word 'Business' and the bottom box contains the word 'Infrastructure'. There is a significant vertical gap between the two boxes, visually representing a disconnect or lack of integration between the business layer and the infrastructure layer.

Business

Infrastructure

Infrastructure disconnect

Drive design and
implementation



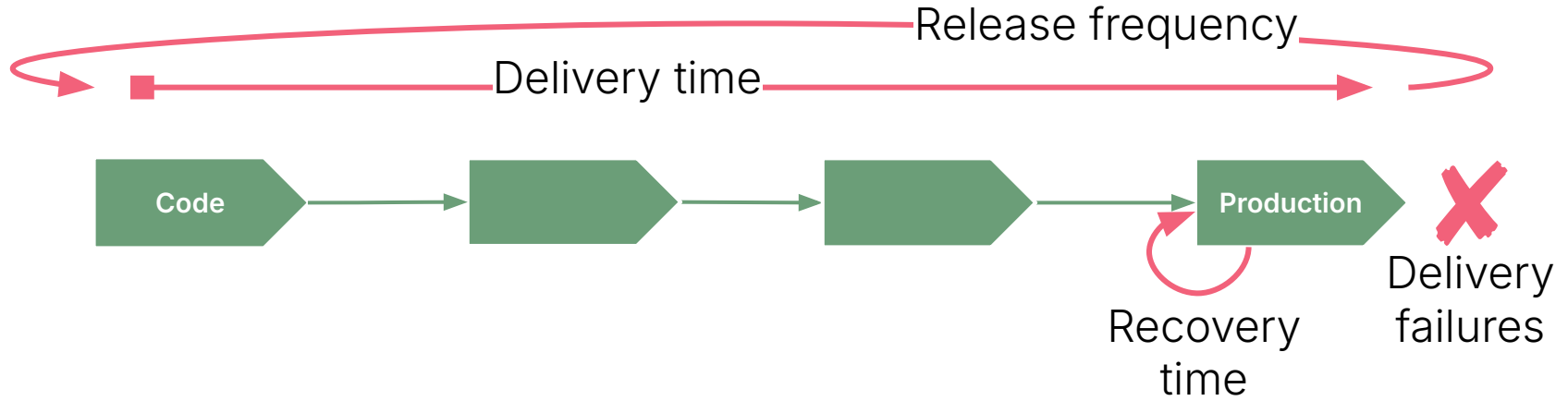
Enable value

Measuring effectiveness

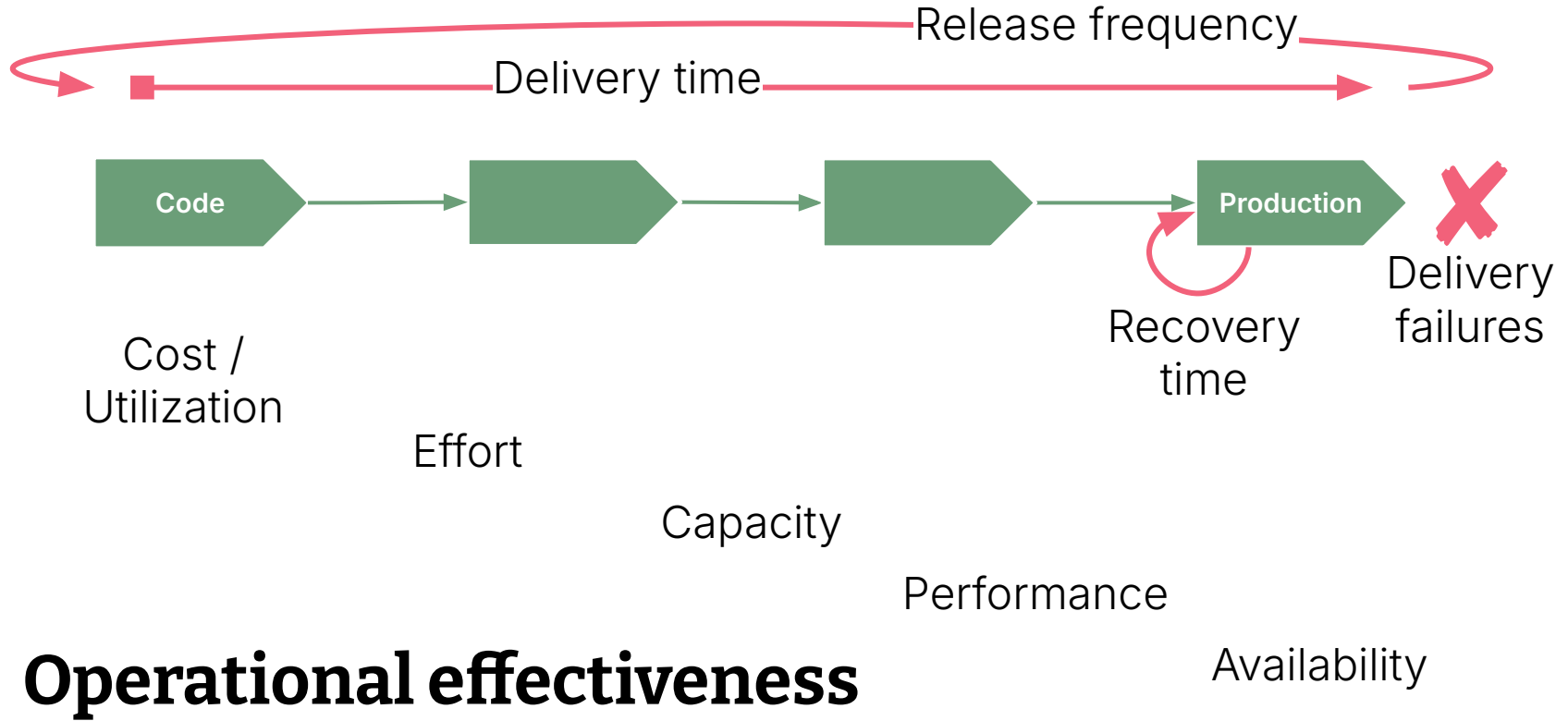




Software delivery effectiveness



Software delivery effectiveness



Infrastructure and software delivery



Infrastructure capabilities for software delivery

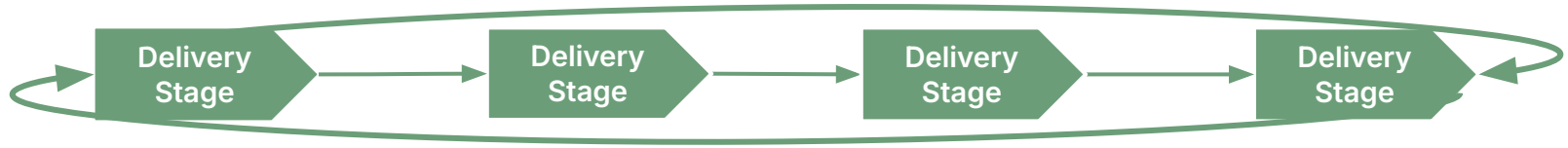


Provide an environment
to deploy a build

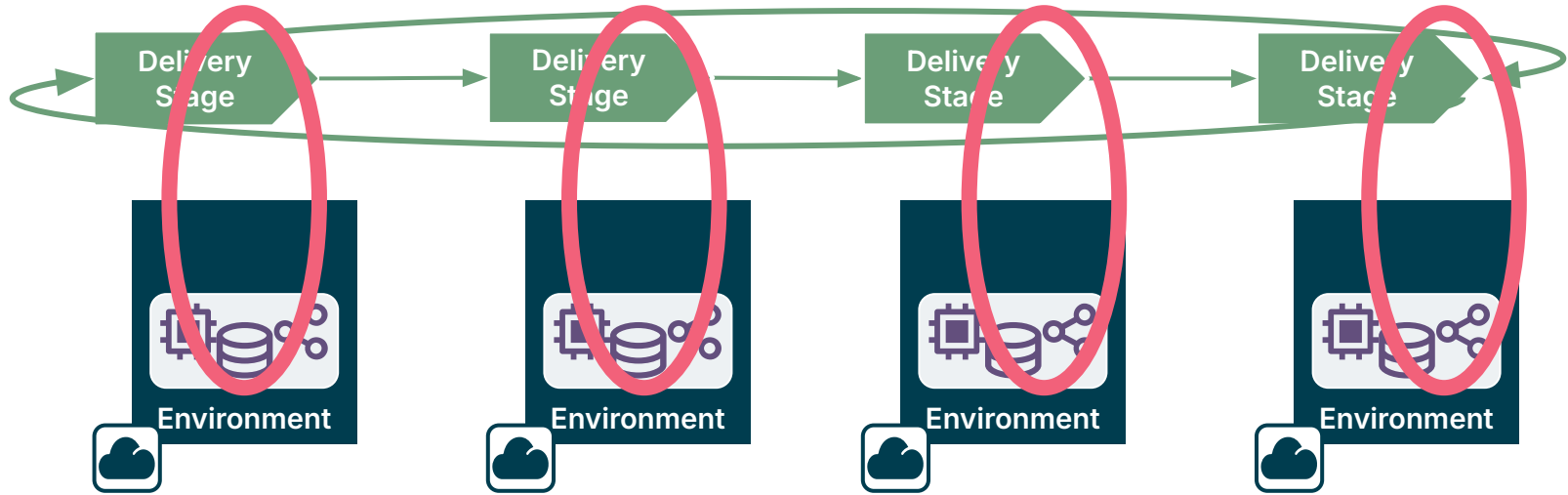
Deliver an infrastructure
change

Ensure consistency
across environments

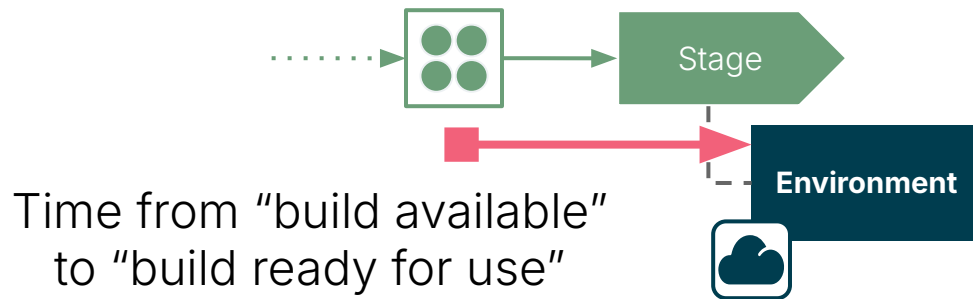
Provide infrastructure to deploy a build



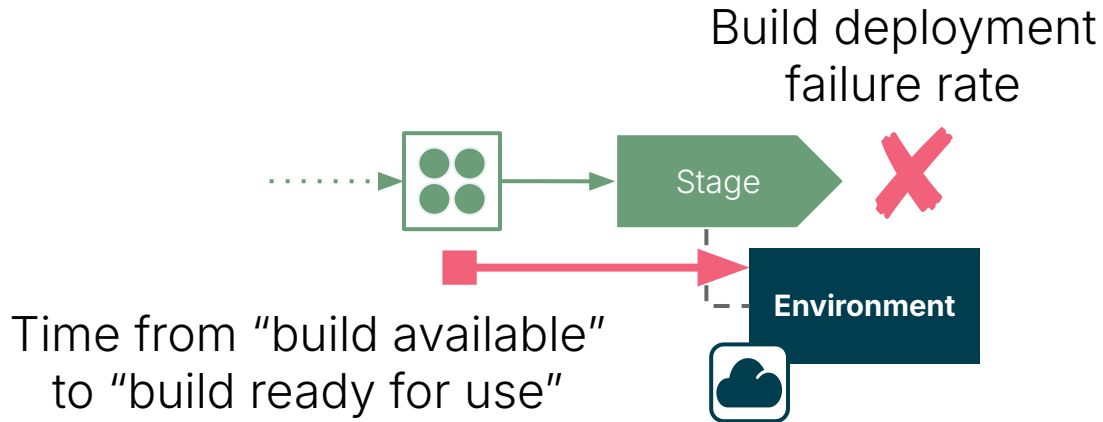
Provide infrastructure to deploy a build



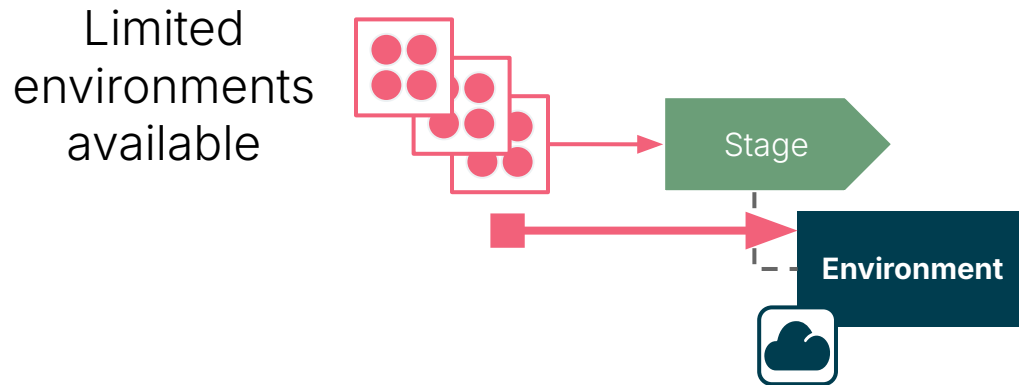
Measuring "providing infrastructure"



Measuring "providing infrastructure"

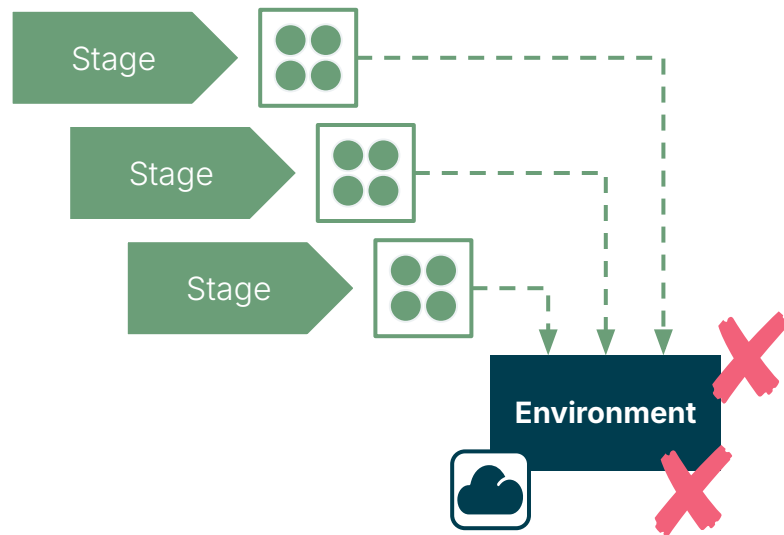


Common challenge



Solution?

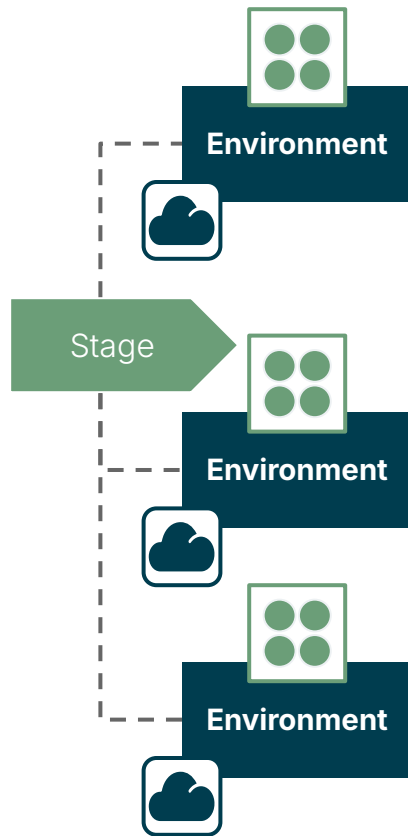
Share
deployment
environments



Increased
failure rates

Solution?

Multiple
deployment
environments



Higher hosting
costs

Lower utilization

Increased
maintenance
effort

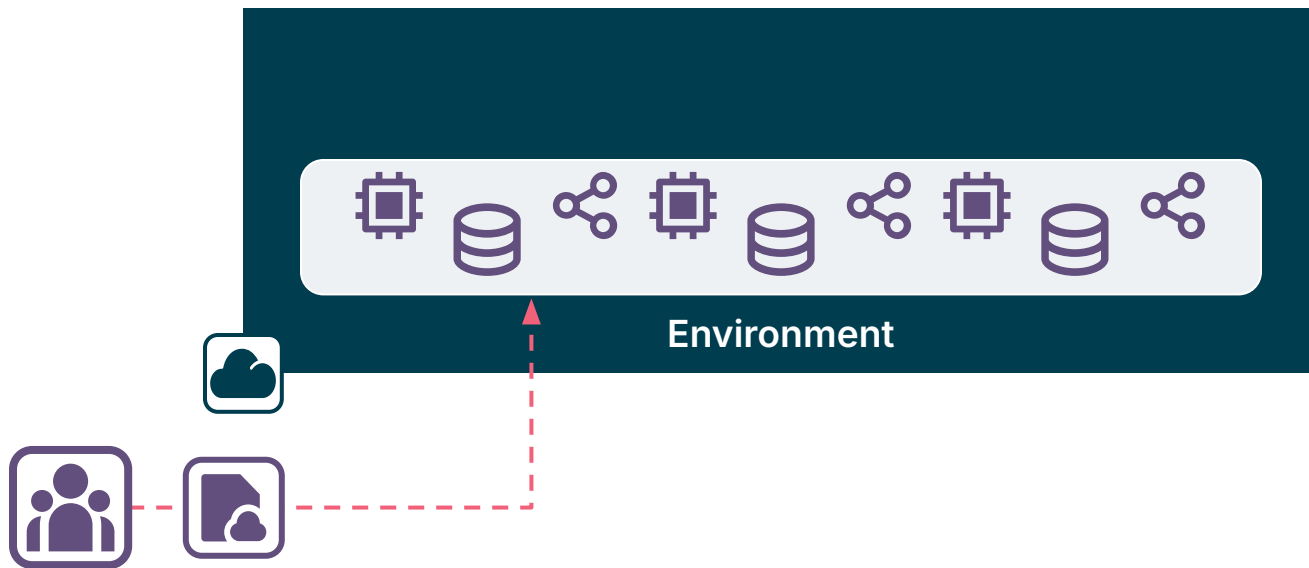
Pre-poured Infrastructure



Pre-poured infrastructure



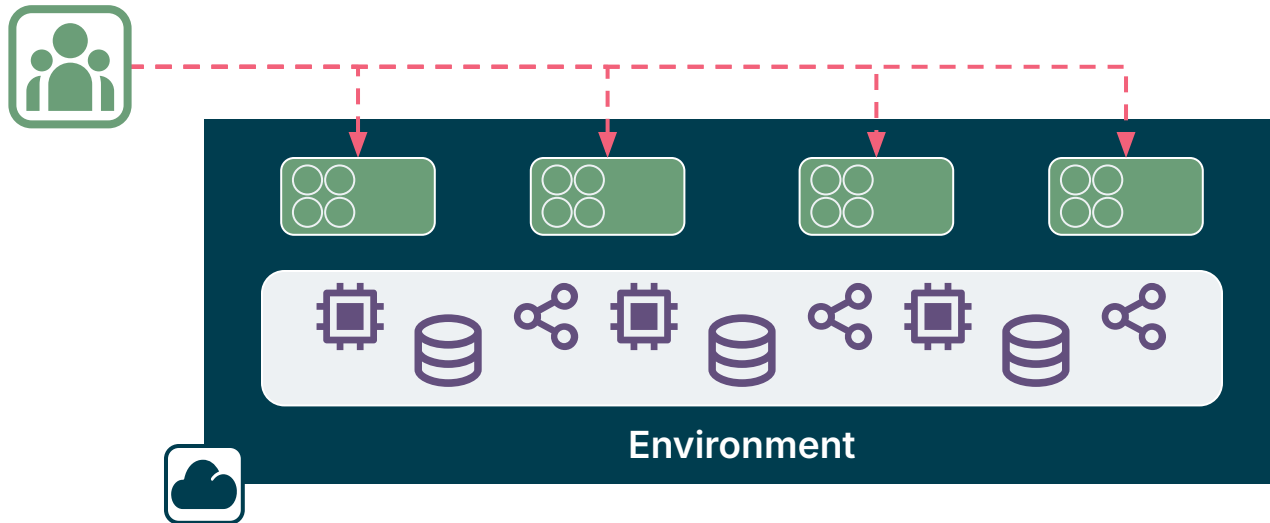
Pre-poured infrastructure



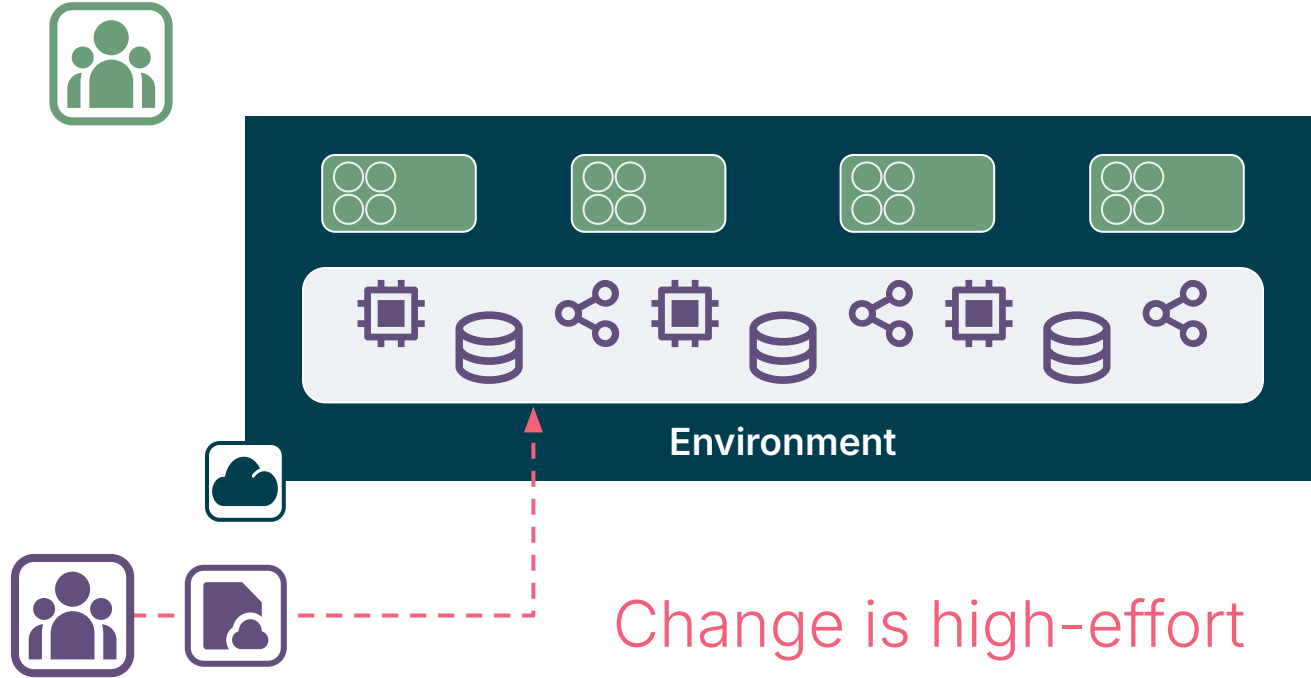
Pre-poured infrastructure



Pre-poured infrastructure



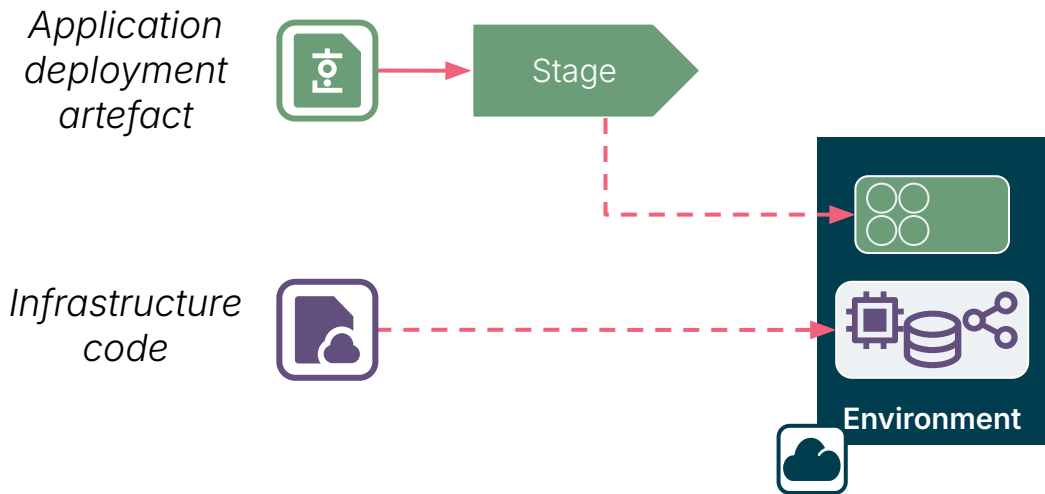
Pre-poured infrastructure



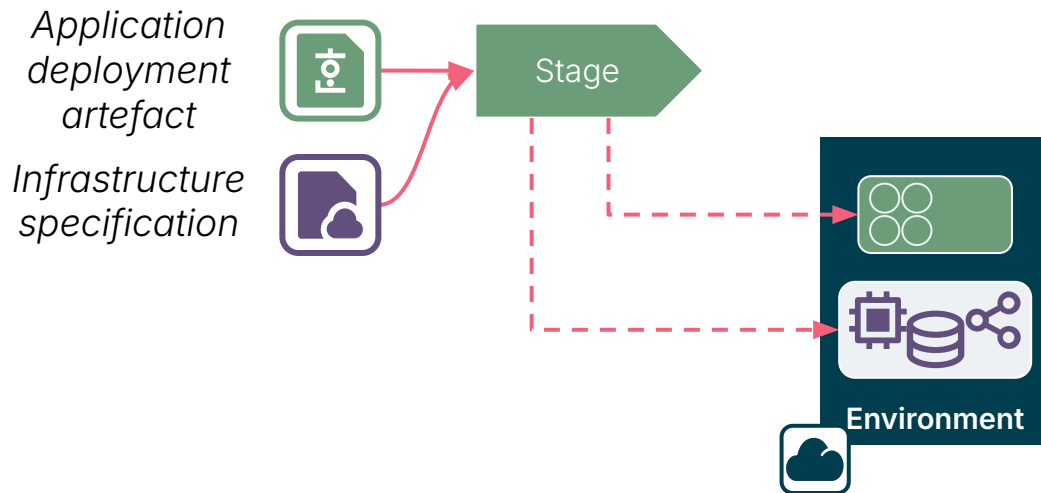
Application- driven Infrastructure



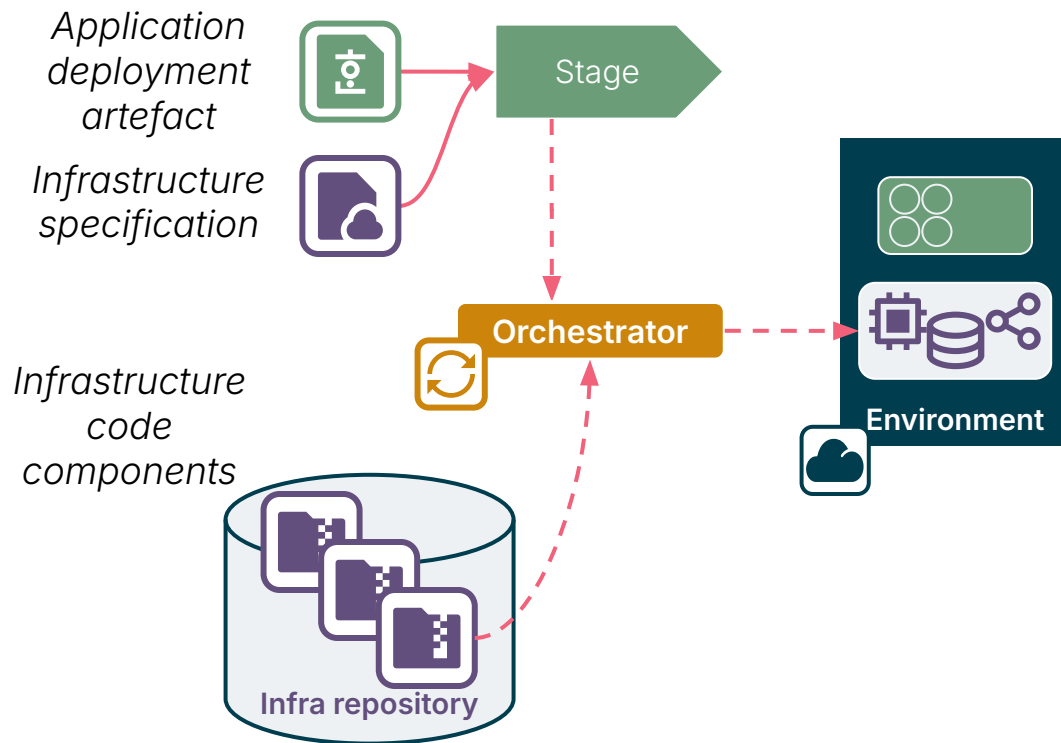
Pre-poured infrastructure



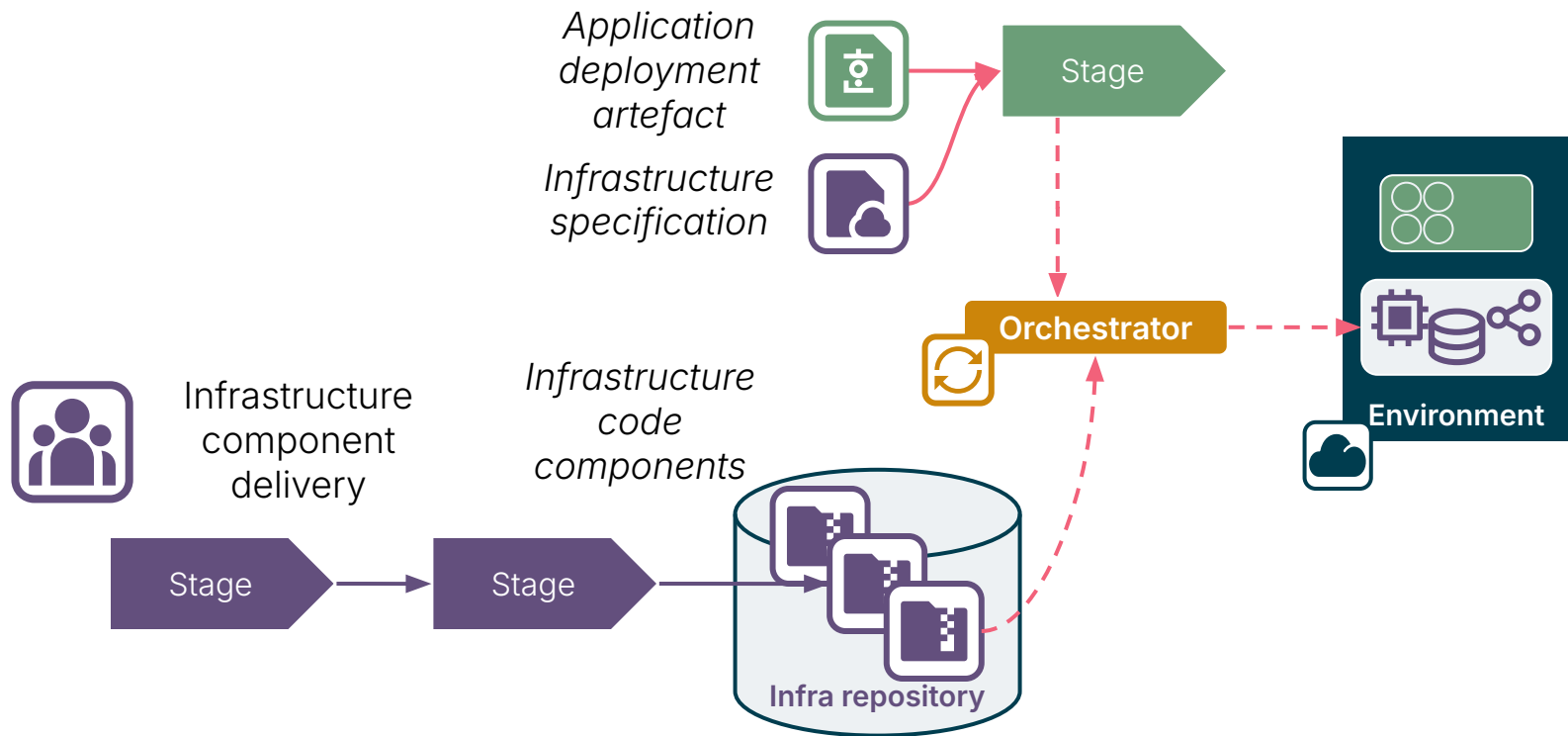
Application-driven infrastructure



Application-driven infrastructure orchestration



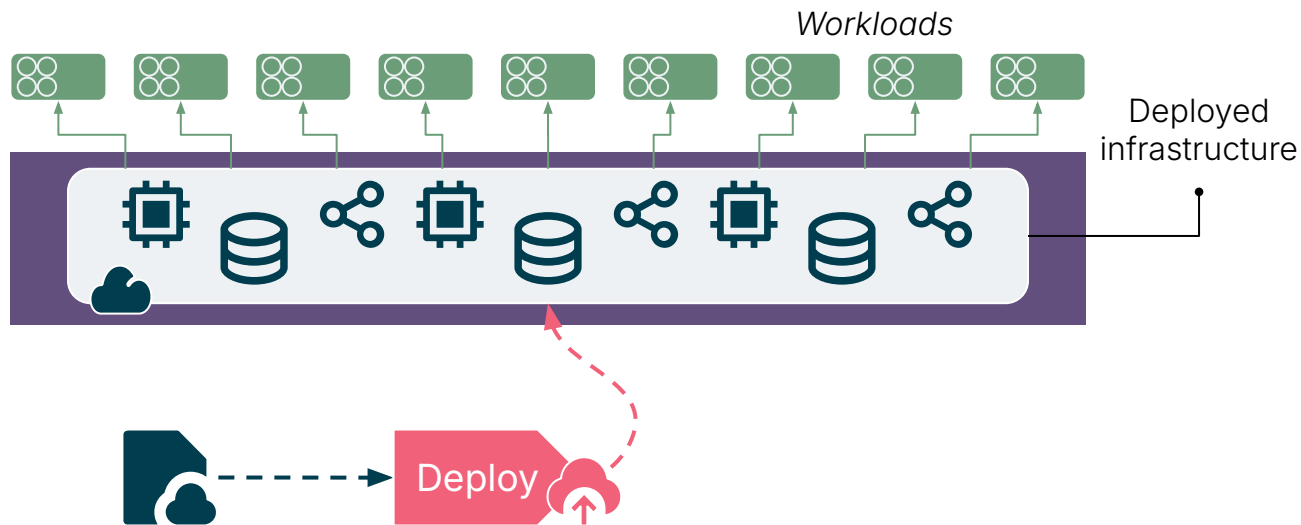
Application-driven infrastructure delivery



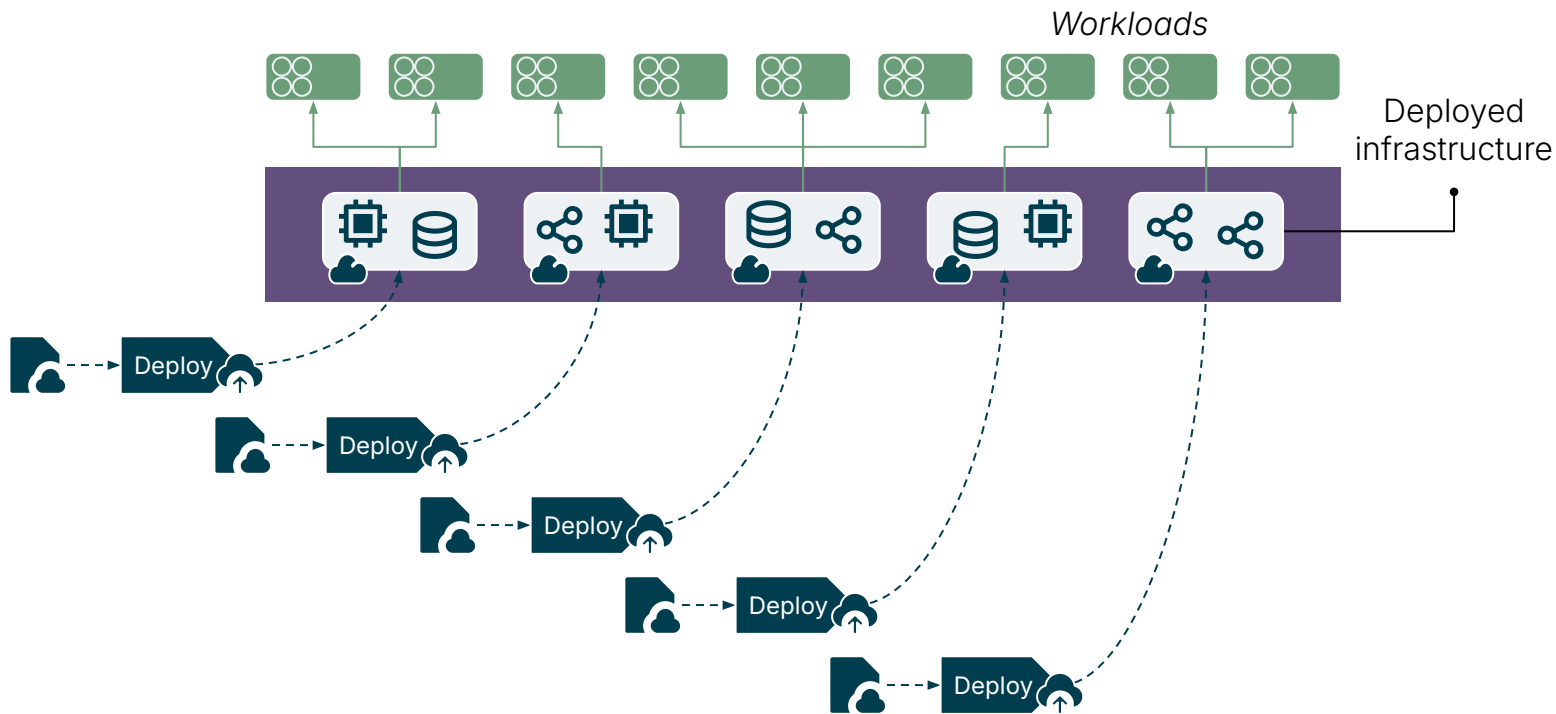
Composable Infrastructure



Challenge: Monolithic infrastructure



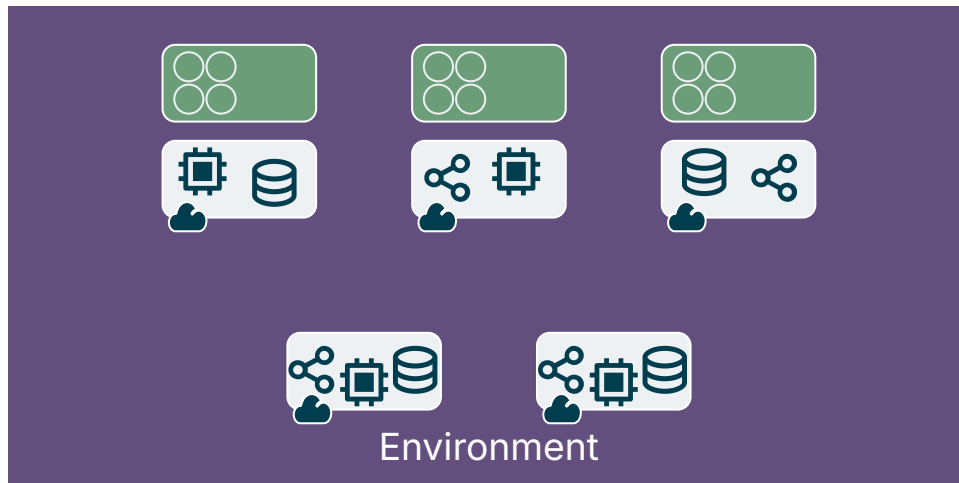
Decompose infrastructure *deployments*



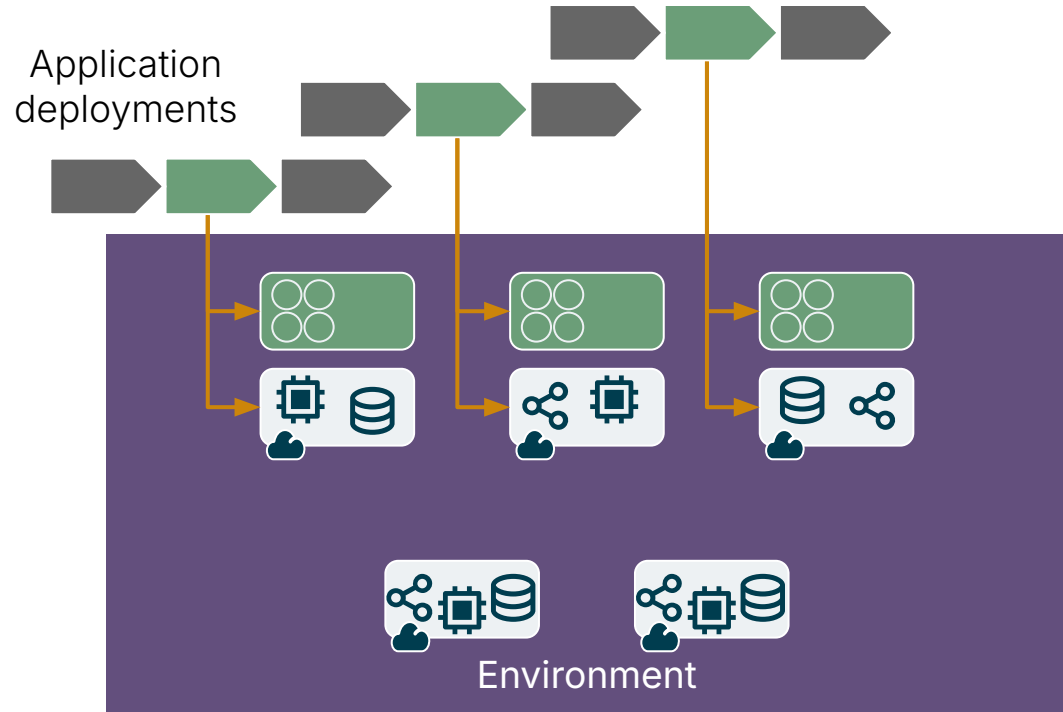
Complex environments

Multiple
applications

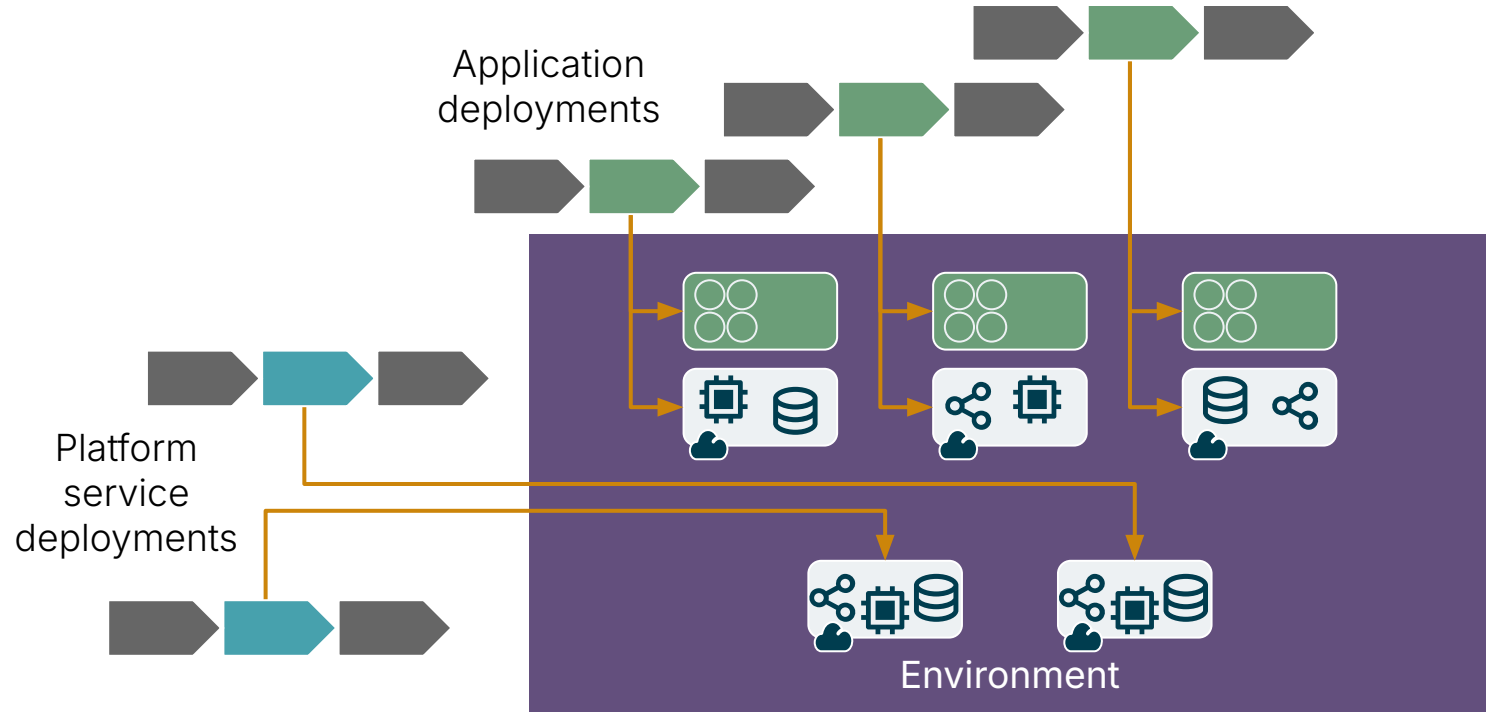
Shared
platform
services



Complex environments

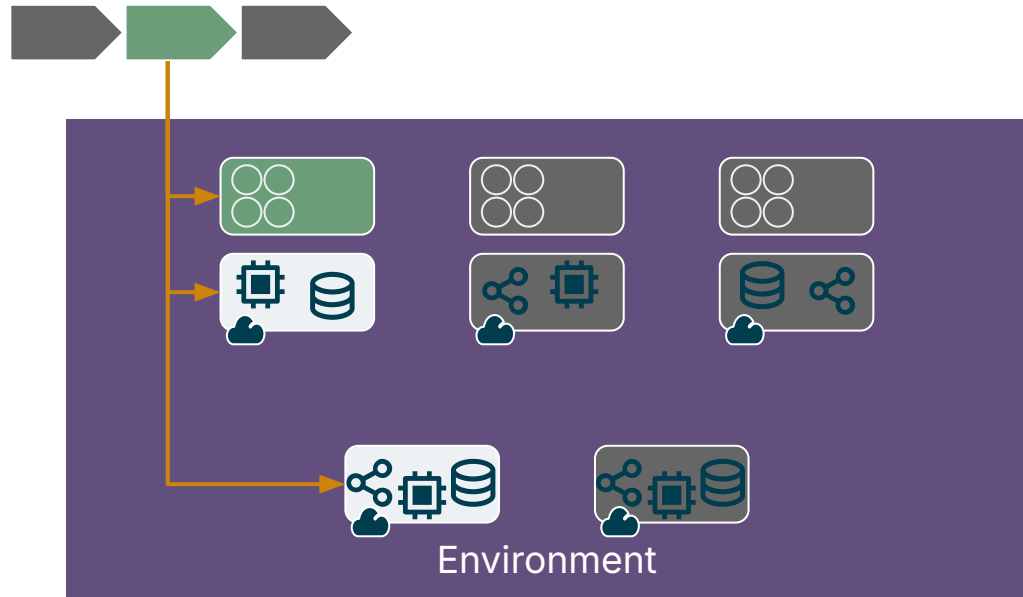


Complex environments



On-demand and "Just enough" environments

Application testing stage



Challenges

Infrastructure component
architecture

Infrastructure component
delivery

Infrastructure deployment
orchestration

<https://infrastructure-as-code.com/resources>

QUESTIONS?

ASK ME IN THE APP

Kief Morris

<https://thoughtworks.com>

RATE THIS SESSION

YES, YOU'LL GET A REWARD