

# Deploying Straight to Production

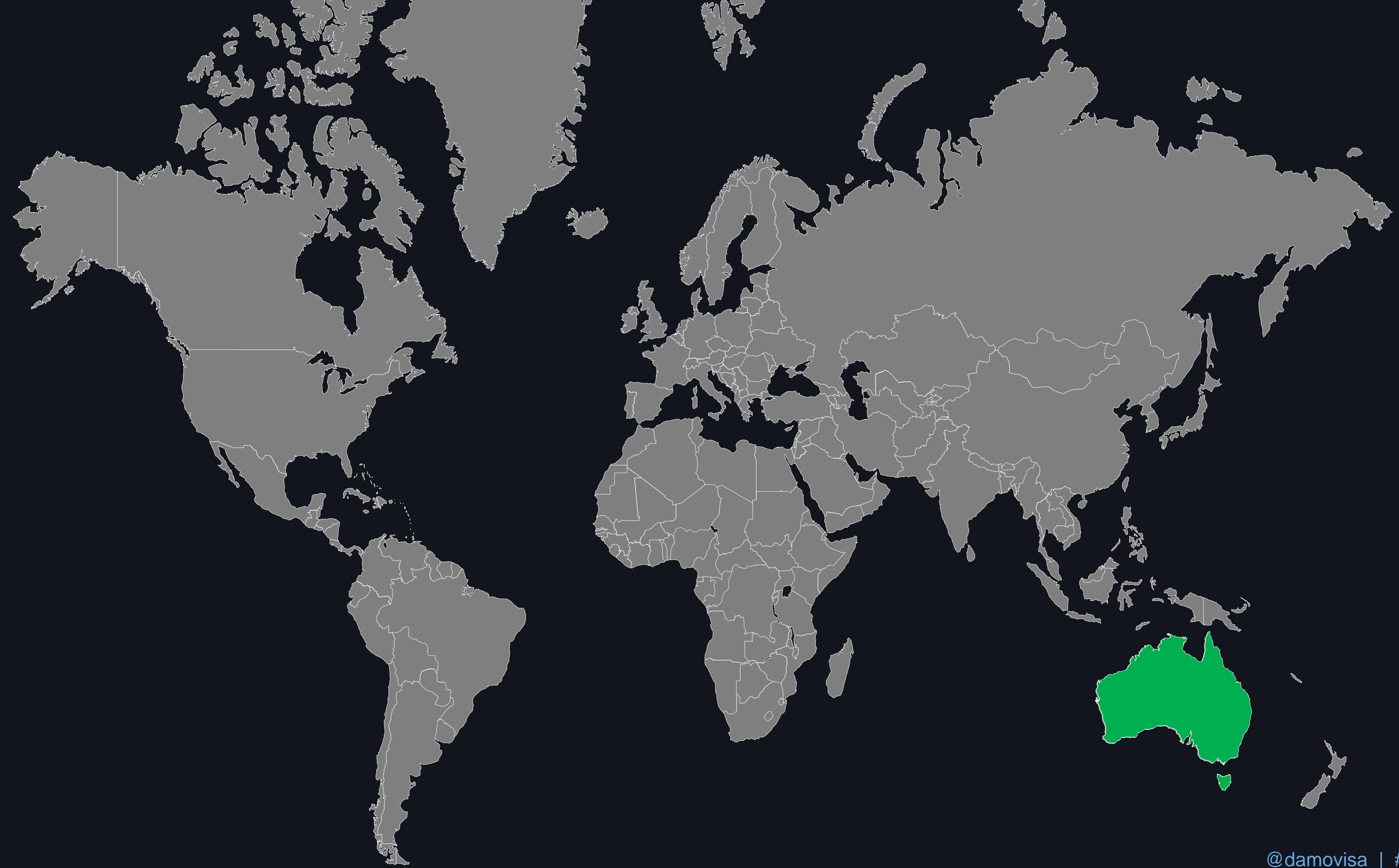
## A guide to the holy grail



Damian Brady

@damovisa

#KCDC16





Damian Brady @damovisa · May 28  
Not a bad place to have a week off...



5





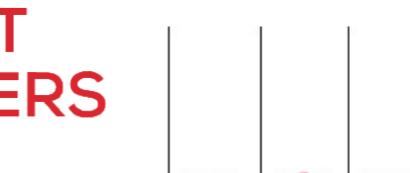
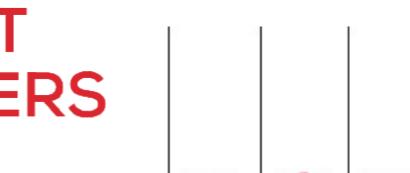
## TITANIUM SPONSORS

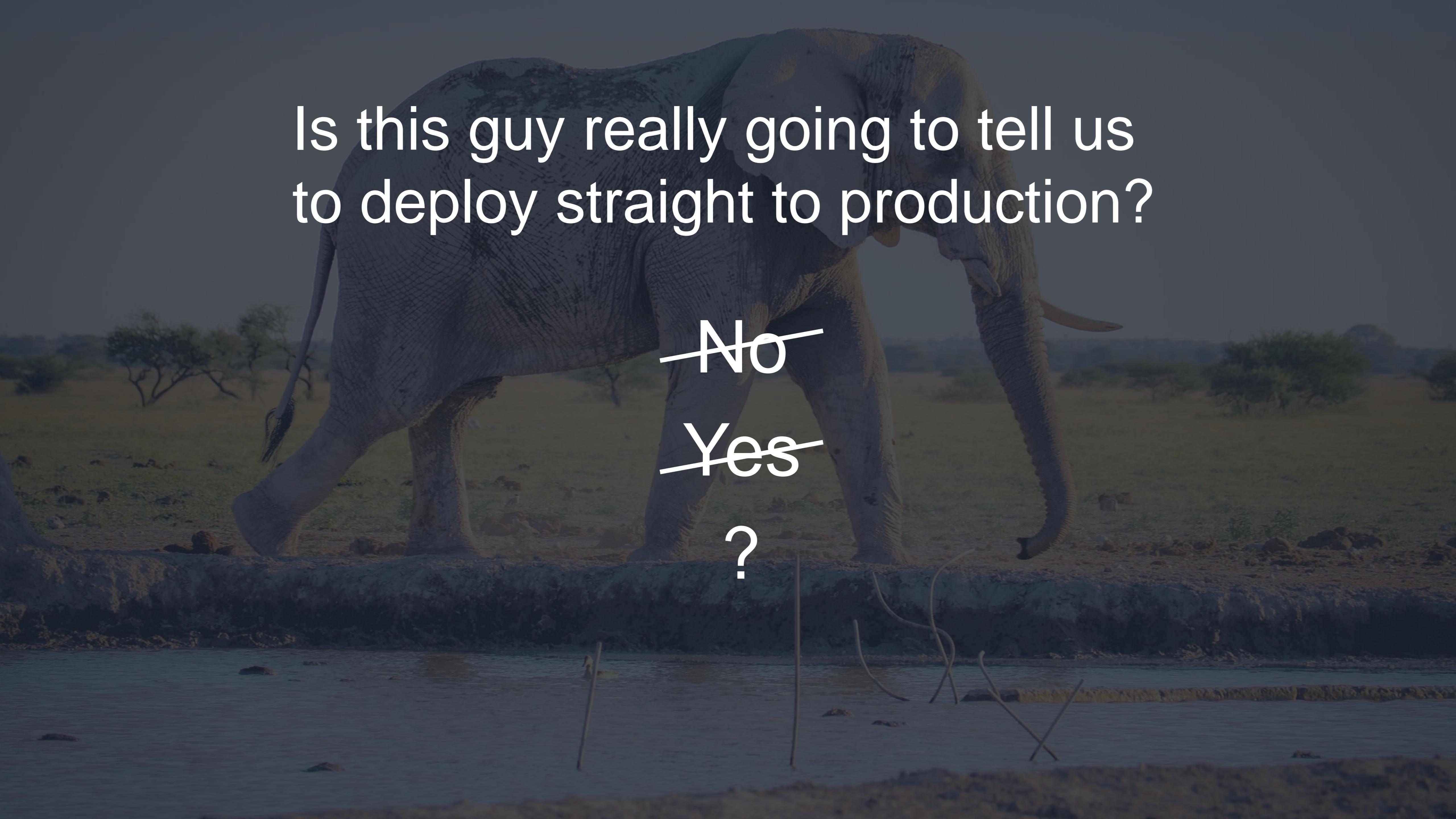


## Platinum Sponsors



Make every connection count.



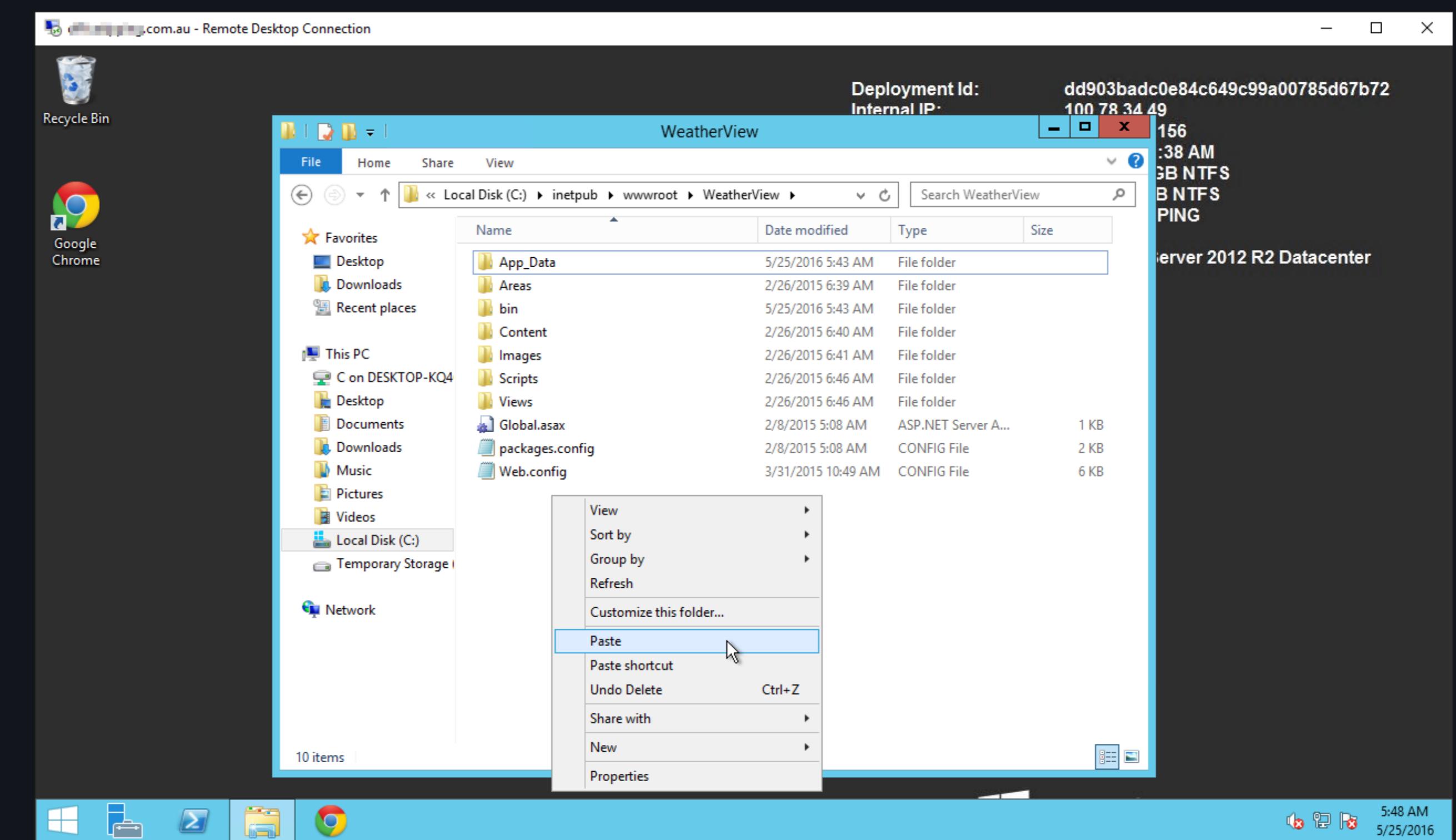
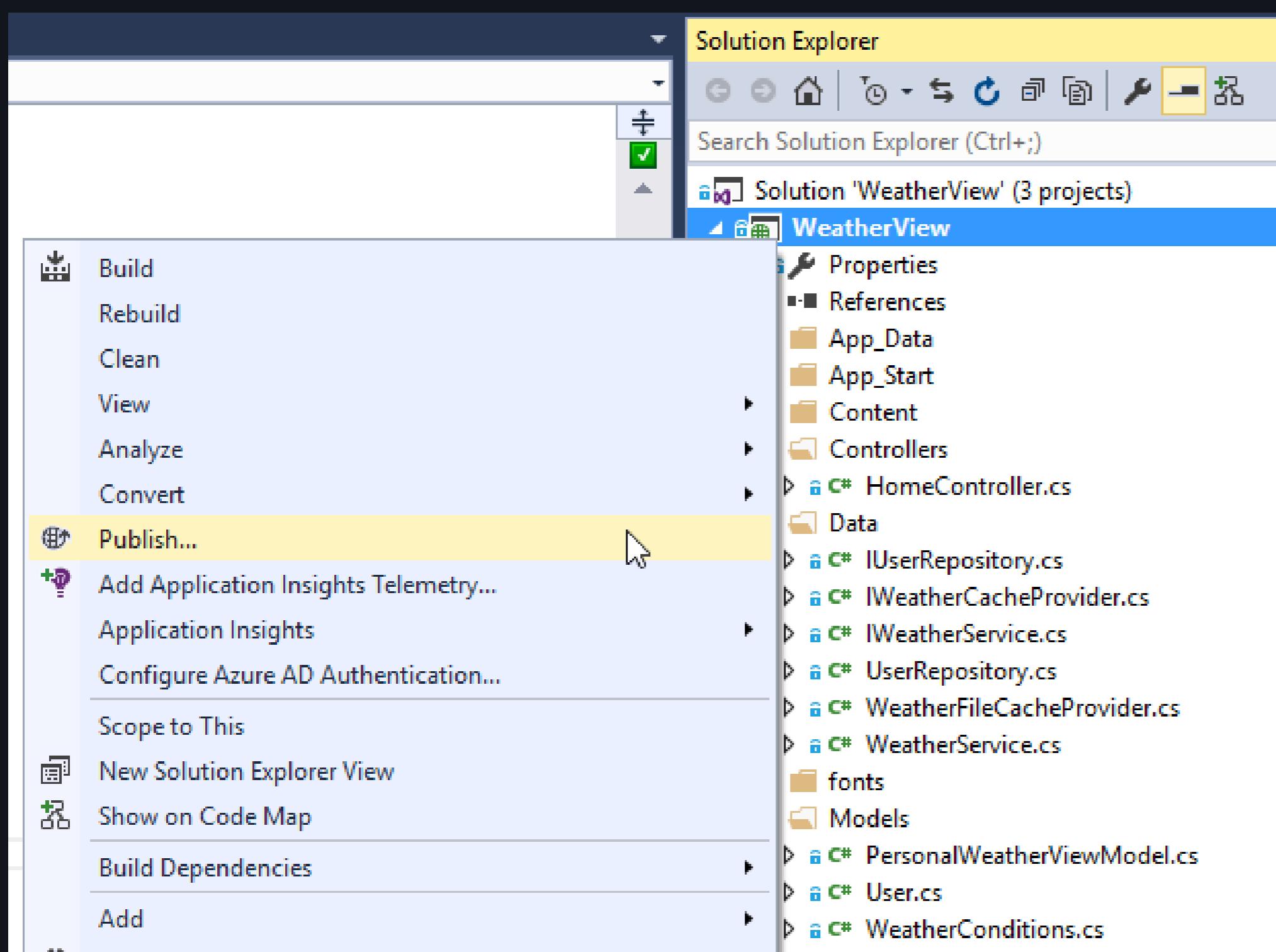
A large African elephant stands in a river, facing right. Its body is mostly submerged, with its head and front legs visible above the water. The background shows a grassy savanna landscape under a clear sky.

Is this guy really going to tell us  
to deploy straight to production?

~~No~~  
~~Yes~~  
?

# OH NO PLEASE NO

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# AGENDA

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Pipelines

Production?



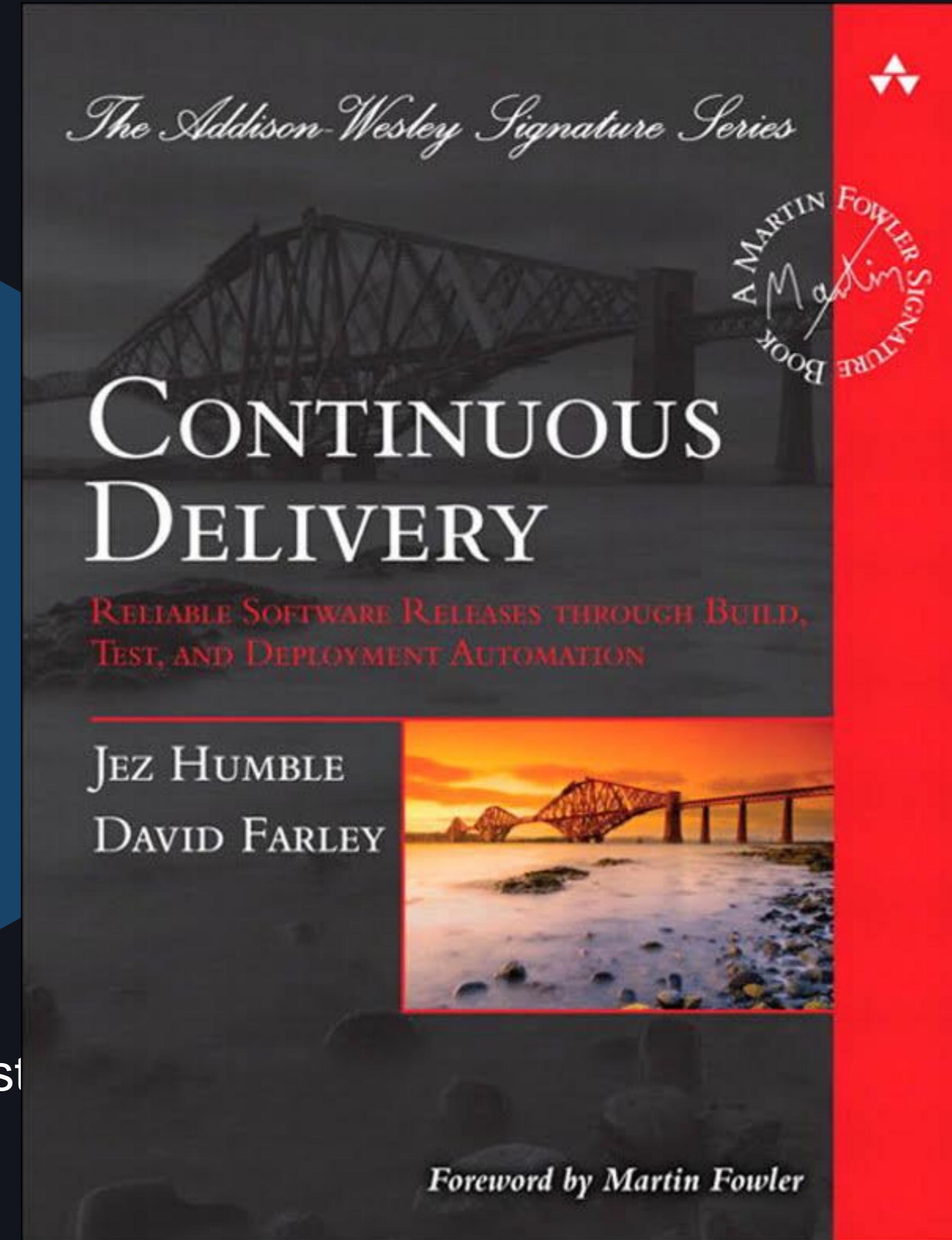
# TERMINOLOGY

---



Continuous  
Integration

merge, build, test



Continuous  
Deployment

Automatically deployed

# TERMINOLOGY

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**Continuous  
Integration**

merge, build, test



**Continuous  
Delivery**

ready to deploy



**Continuous  
Deployment**

automatically deployed



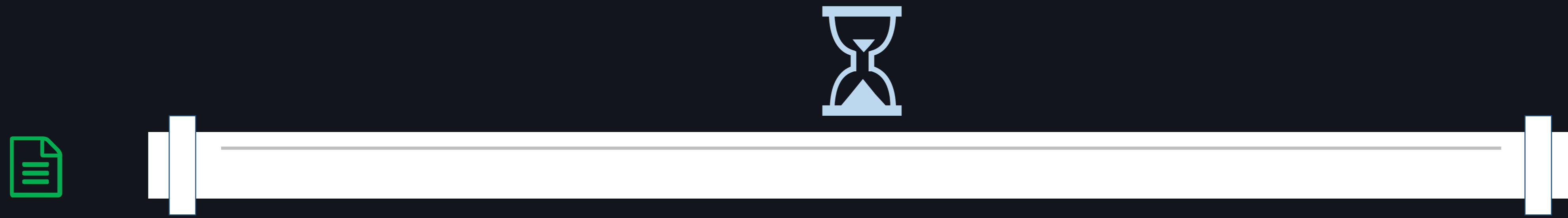
Uhhh, wait a second...

A dark, atmospheric landscape featuring a bridge over a valley with mountains in the background.

# The Pipeline

# THE PIPELINE

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# THE PIPELINE

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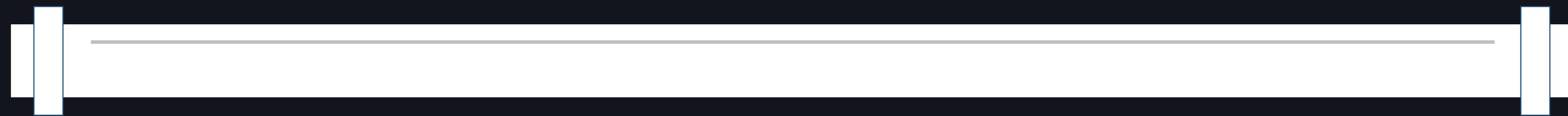
A pipeline is about automation



# THE PIPELINE

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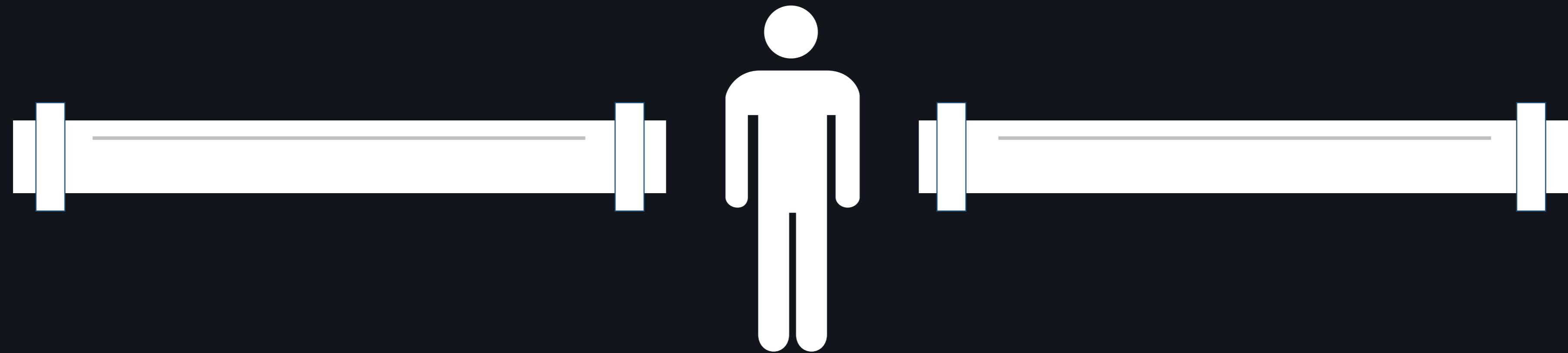
A pipeline is about automation



# THE PIPELINE

---

A pipeline is about automation



# THE PIPELINE

---

A pipeline is about testing



## BUILD

Does it merge?  
Does it compile?

## TEST

Do our tests pass?

## DEPLOY + TEST

Do the tests still pass?  
Does the UI work?  
Can we talk to our DB?  
Did our deployment work?

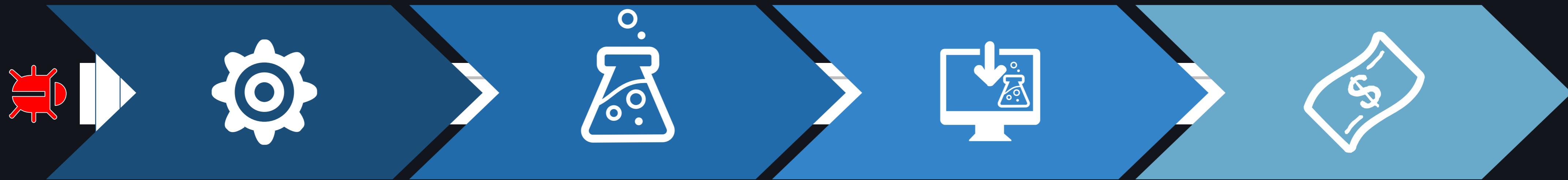
## PRODUCTION

I might buy a yacht.

# THE PIPELINE

---

A pipeline is about testing



## BUILD

Does it merge?

Does it compile?

## TEST

Do our tests pass?

## DEPLOY + TEST

Do the tests still pass?

Does the UI work?

Can we talk to our DB?

Did our deployment work?

## PRODUCTION

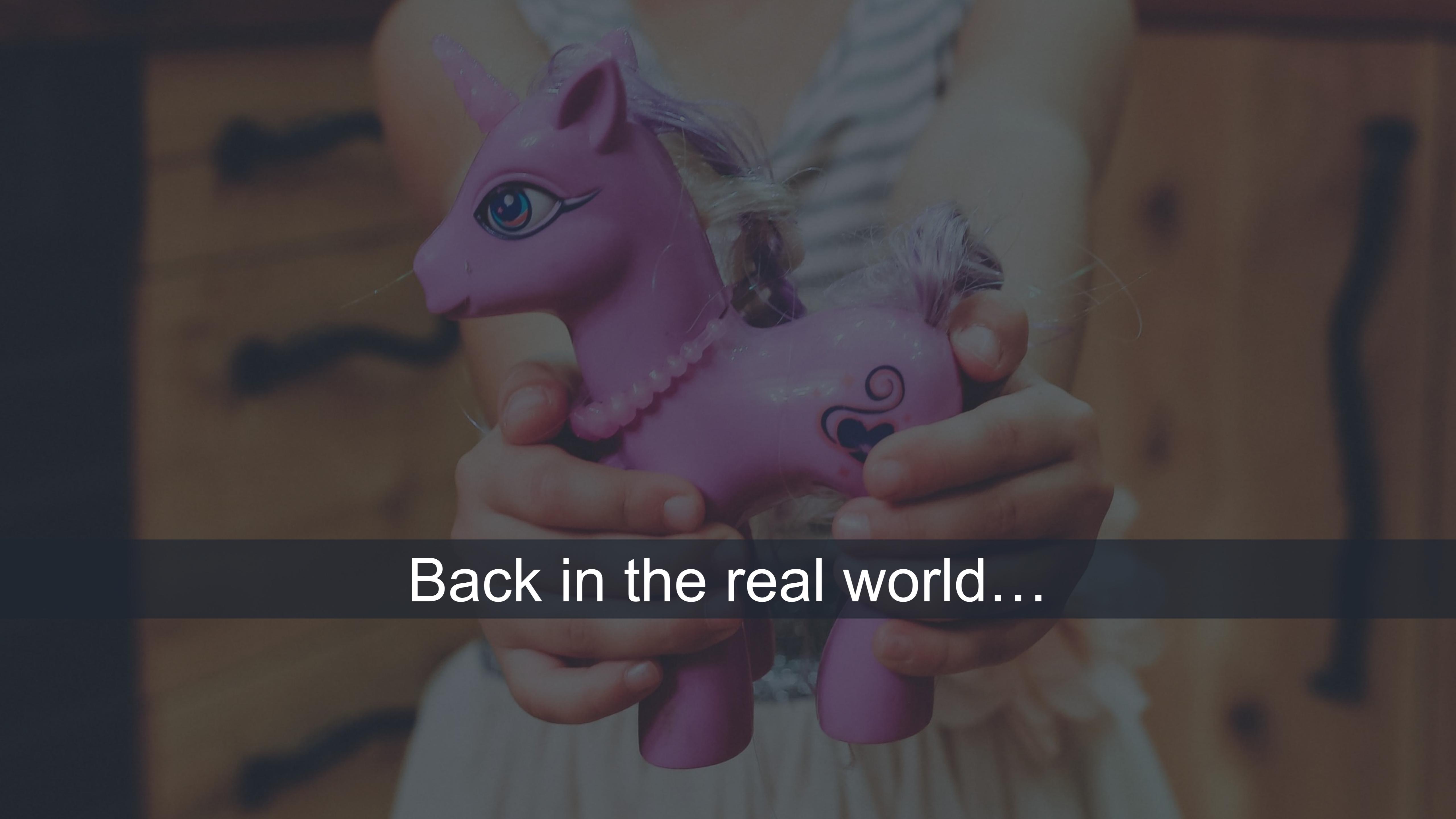
I might buy a yacht.

A photograph showing several people working together at a wooden table. In the foreground, a person's hands are visible on a laptop keyboard. To the left, another person is writing in a notebook. On the table are various items: a small jar with a yellow liquid, a pair of sunglasses, a glass of dark liquid with ice, and some books. The scene suggests a collaborative workspace.

DevOps is not a new silo



DEMO

A close-up photograph of a person's hands holding a pink unicorn toy. The unicorn has a purple horn, large blue eyes with black pupils, and a mane made of light-colored hair. It is being held from behind, with the hands visible at the bottom of the frame.

Back in the real world...



Independent Experts.  
Real World Answers.

# MVP Global Summit

Bellevue & Redmond, WA

# Unattended Laptops Will Be Upgraded To Windows 10

#MVPsummit

Advertisement

# PRODUCTION?

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Feature  
Branching

in-progress features  
don't go all the way to  
production



Feature  
Flags

everything goes to  
production, but in-progress  
features are invisible

# TERMINOLOGY

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Release



Deployment



Launch

the artifacts and deployment steps that define a version

putting a release in an environment

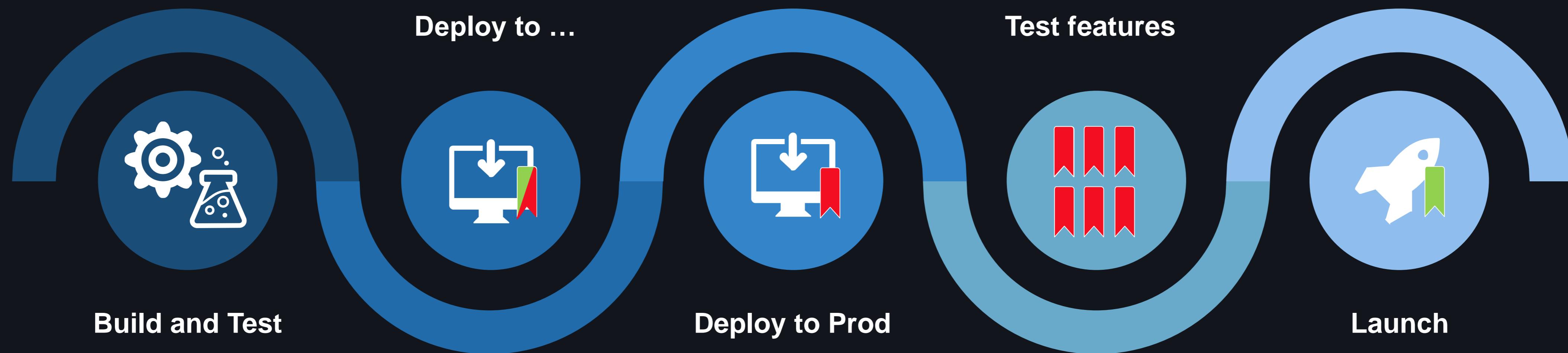
giving a change to the users

A dark, slightly grainy photograph showing a row of approximately ten small, clear glasses filled with a golden-yellow liquid, likely beer. The glasses are arranged in a single row on a dark, textured surface that looks like a wooden table. In the background, several people are visible, though they are out of focus and appear as dark shapes. The lighting is dramatic, with the glasses and their contents being the primary light source.

Deploying a Release is a technical event  
A Launch is a business event

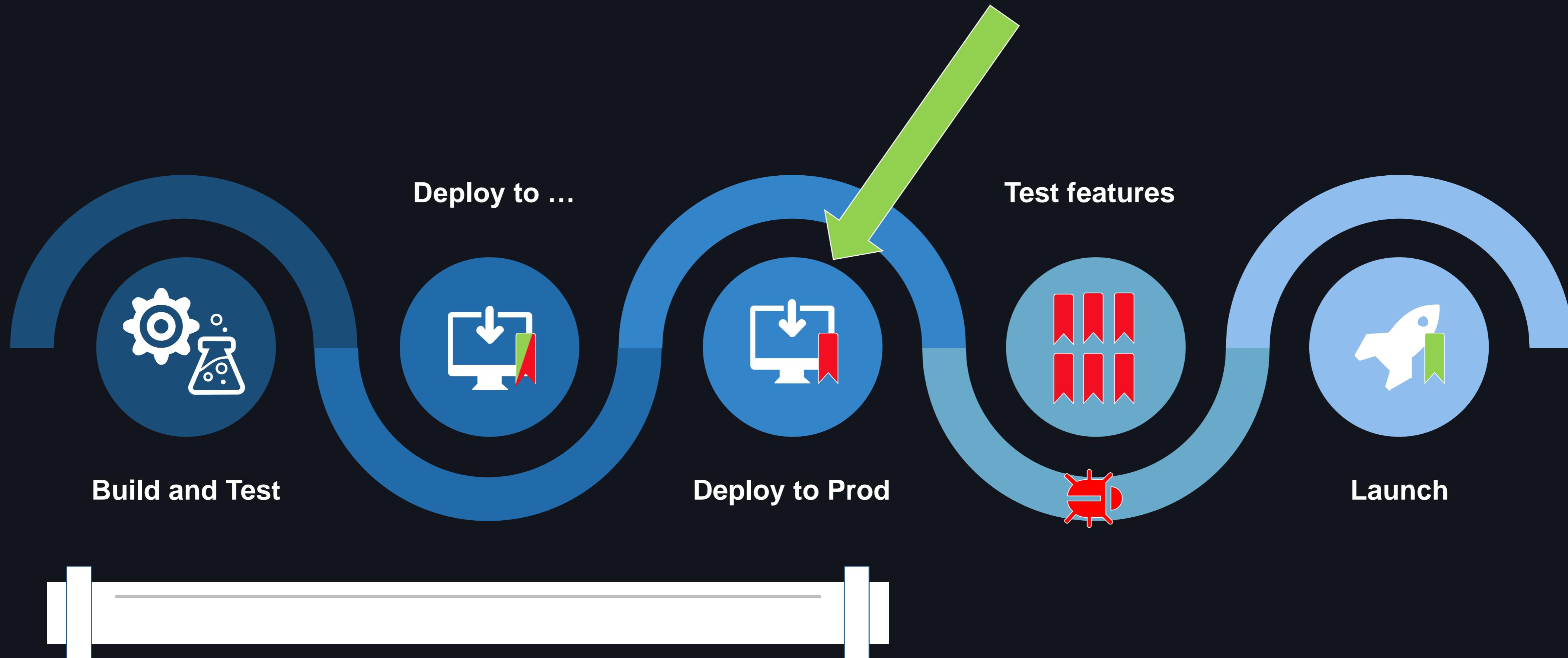
# FEATURE FLAG PIPELINE

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# FEATURE FLAG PIPELINE

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# BENEFITS

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Pipeline provides a filter

Separates the *Launch* from the *Deployment*

Test in Production!





DEMO ➤

```
        $image = array( 'zoom' );
        if ( $loop == 0 || $loop % $columns == 0 )
            $image[0] = 'first';
        if ( ( $loop + 1 ) % $columns == 0 )
            $image[0] = 'last';
        $image_link = wp_get_attachment_url( $attachment );
        if ( ! $image_link )
            continue;
        $image
            = wp_get_attachment_image_src( $attachment );
        $image_class = esc_attr( implode( ' ', get_the_post_thumbnail_classes() ) );
        $image_title = esc_attr( get_the_post_thumbnail_caption() );
        printf( 'div class="slide %s" style="background-image: url(%s); background-size: cover; background-position: center;">%s
```

# BUT WHAT ABOUT...

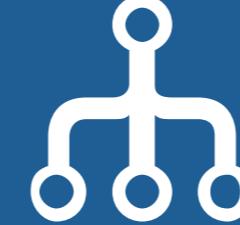
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## One-way changes



Transitional  
Deployments

give yourself a  
way back



Branch by  
Abstraction

resolve dependencies  
based on feature flags



Technical  
Debt

clean up after  
yourself

# TAKEAWAYS

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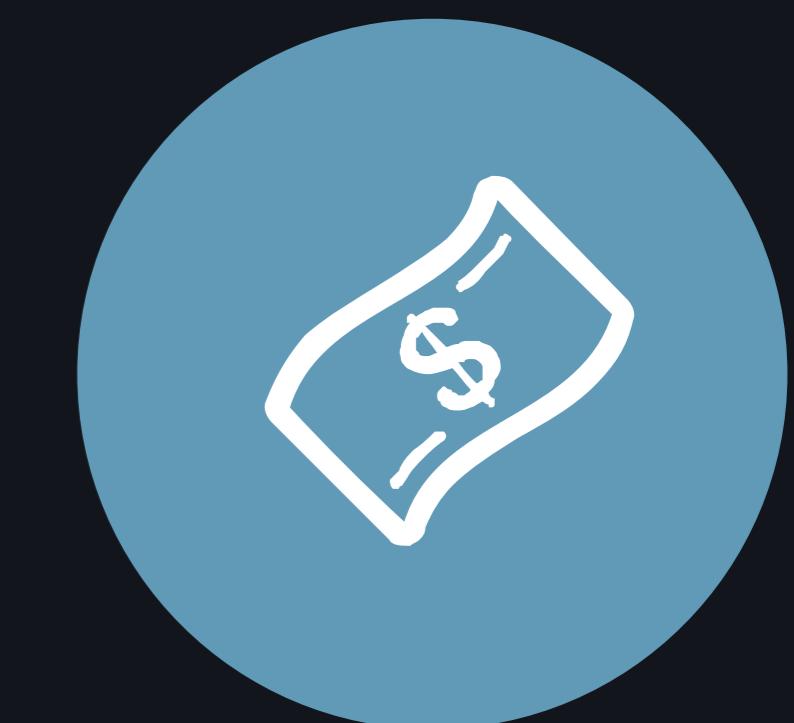
+



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=



01    Automation

Everything.  
Yes, everything.

02    Testing

Stop the bad from  
getting to Production

03    Feature Flags

Separate Deployment from Release  
Test in Production!

Success

A white yacht please.

# THANK YOU

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<http://brdy.in/NDCProd>



@damovisa



[www.damianbrady.com.au](http://www.damianbrady.com.au)