

DevOps DeMystified

Today's Agenda

Rise of DevOps

Introduce Demo

Impact of DevOps

Live Demo

DevOps is...

About **breaking down silos** and **promoting trust** between dev and ops

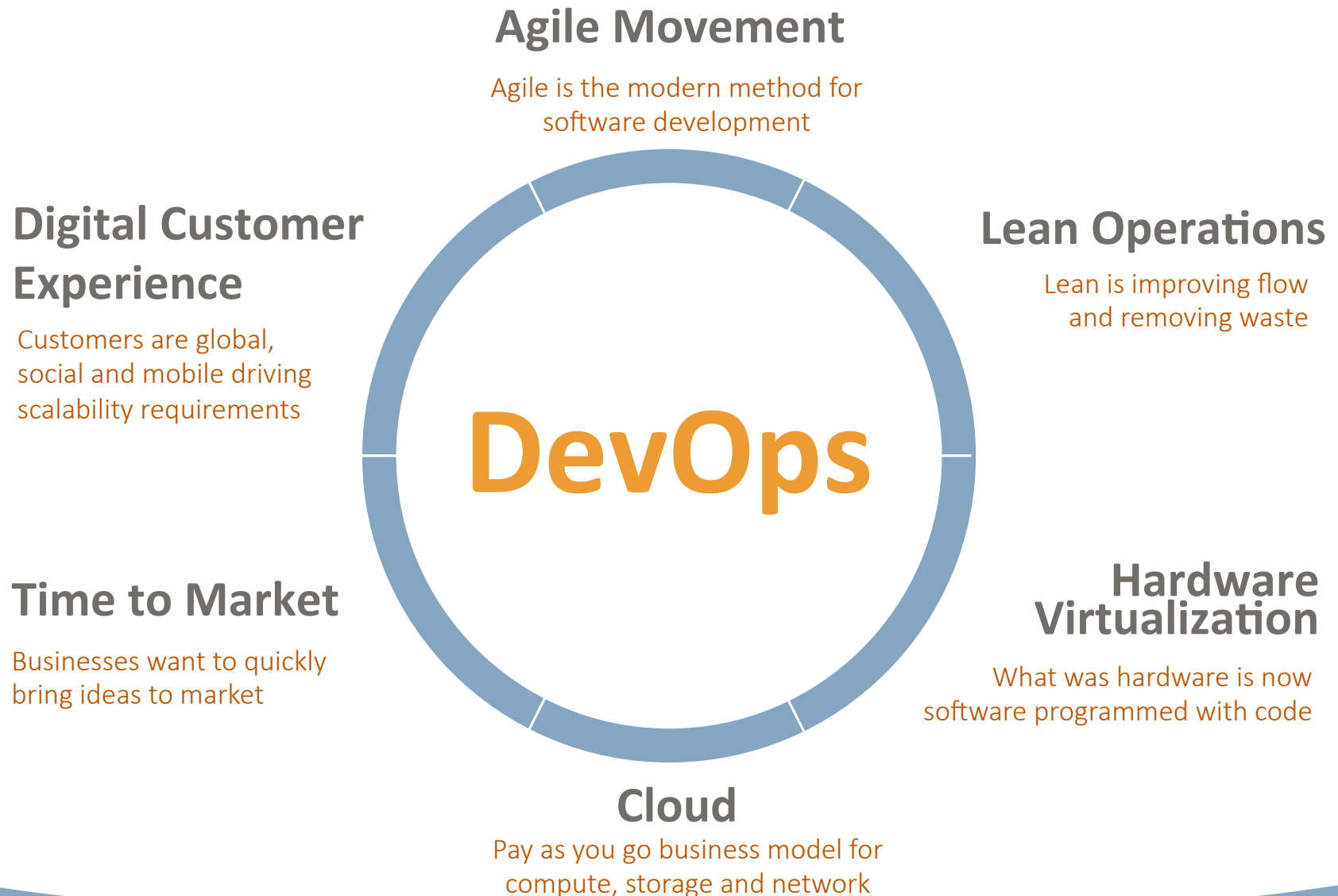
Encouraging tight **feedback, collaboration and communication** between dev and ops

A term for **skills and tools** related to automation and infrastructure code

A **convenient label** to market products, services, jobs and presentations

Why DevOps Now?

The convergence of key forces is helping drive the growth of DevOps



Introducing our Demo

This command just started a series of events that will provision and configure all the AWS infrastructure to run our interactive app

```
aws cloudformation create-stack --stack-name  
InnovateVA --template-url https://s3.amazonaws.com/  
singlestone/cfn/master.template --profile dtashner  
--region us-east-1 --capabilities CAPABILITY_IAM
```

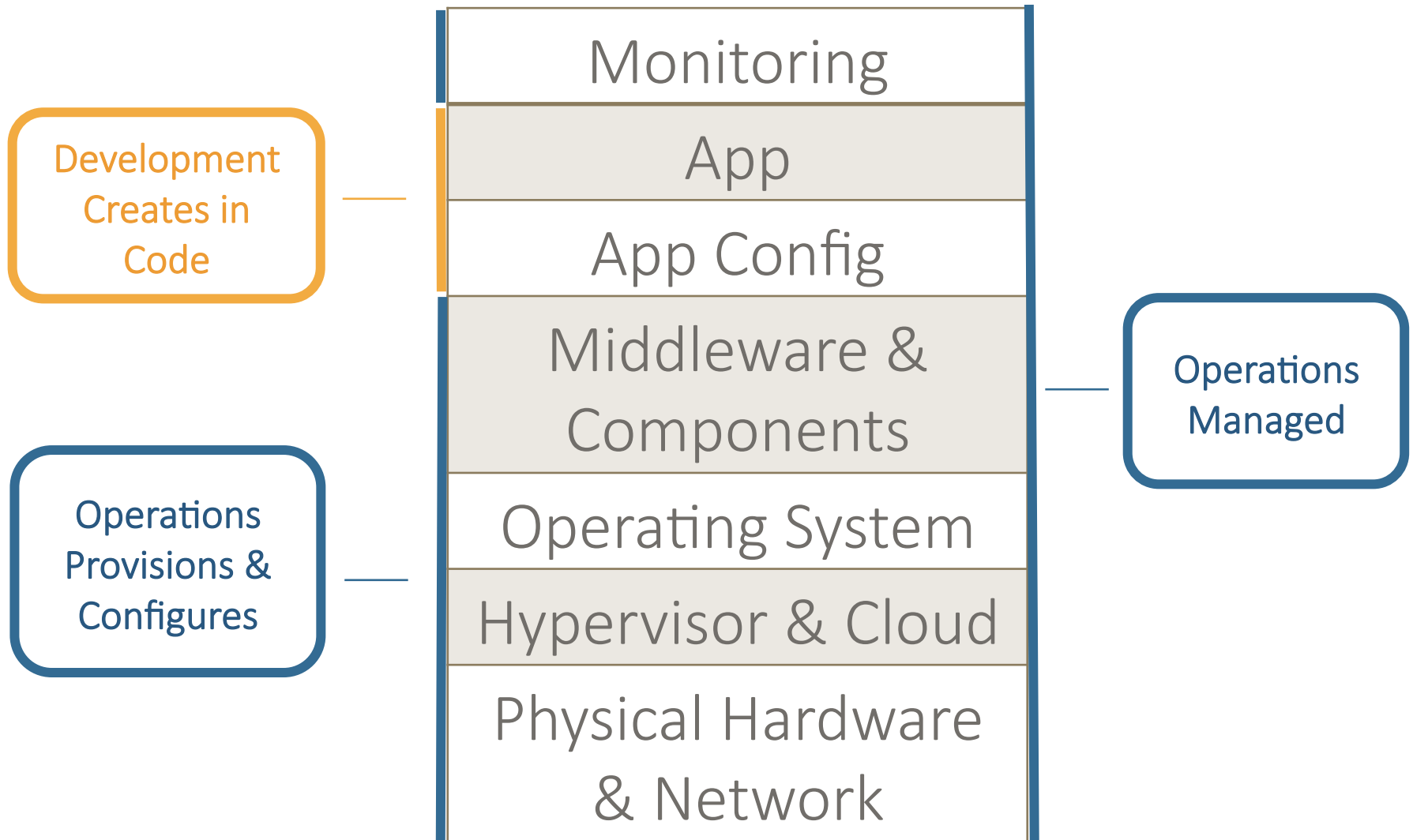
More on this later, but first nothing up our sleeves

DevOps Impact: Digital Products & Services

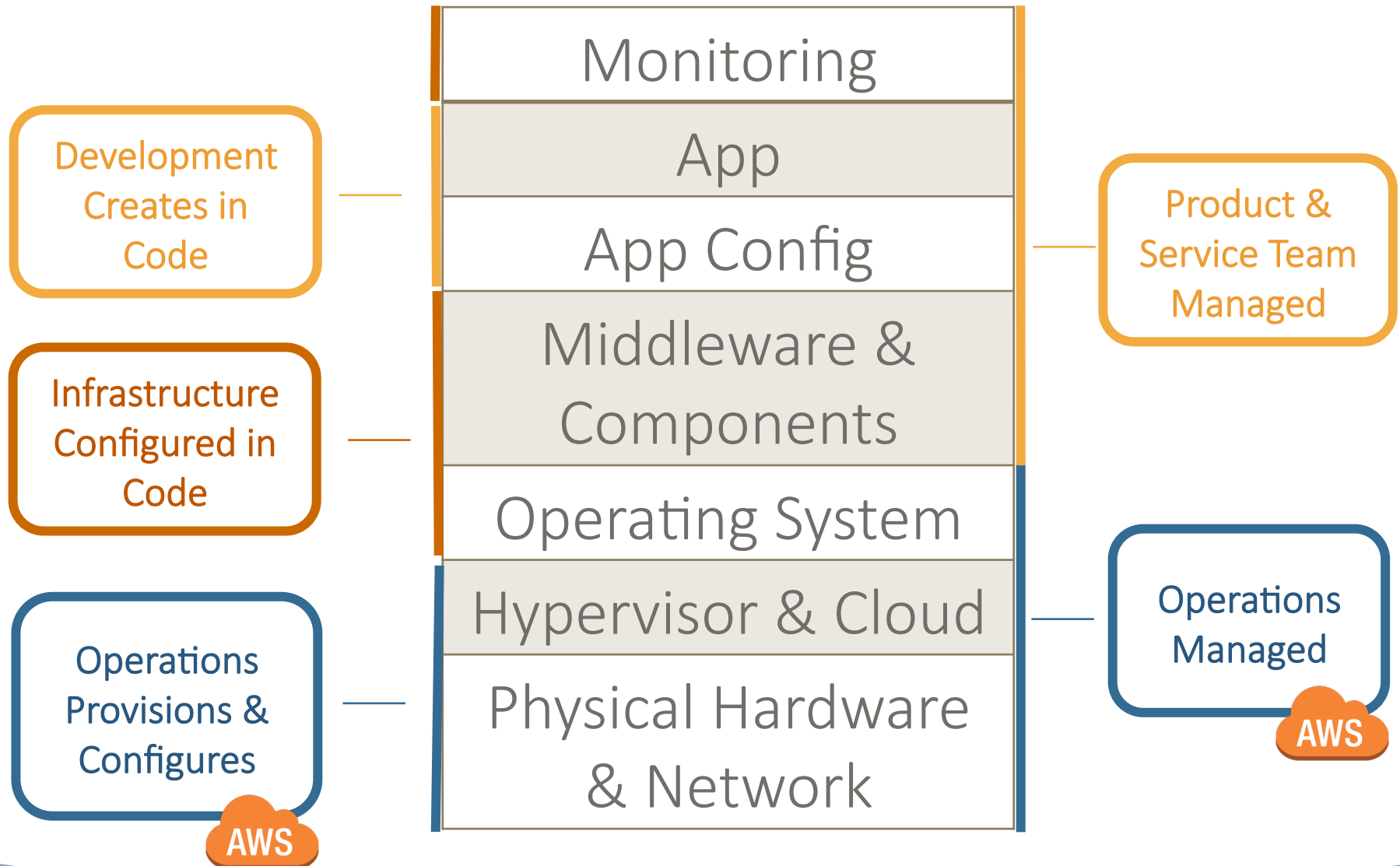
Typical stack
for a digital
product or
service that
delivers value



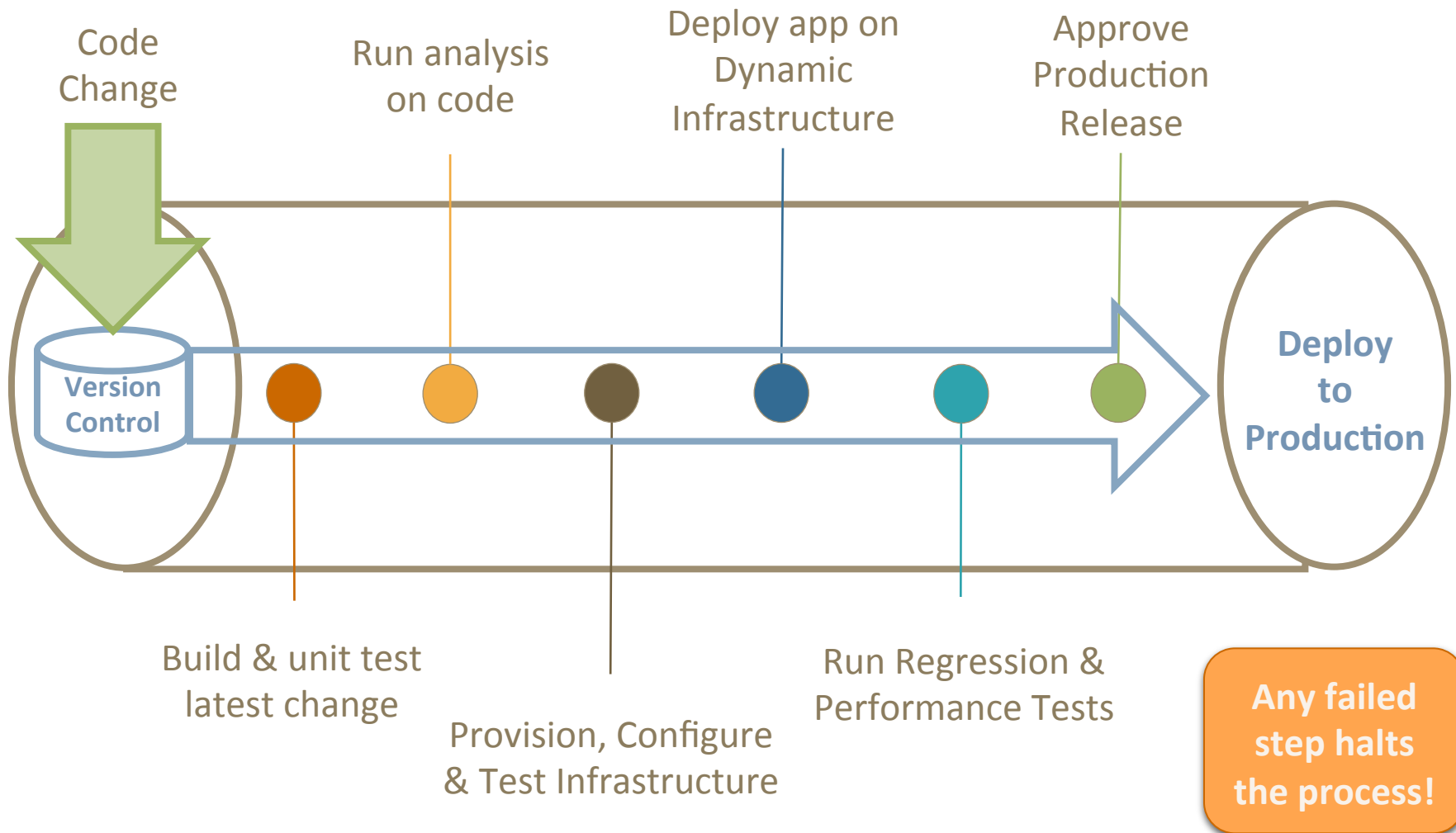
Digital Products & Services in Typical Orgs



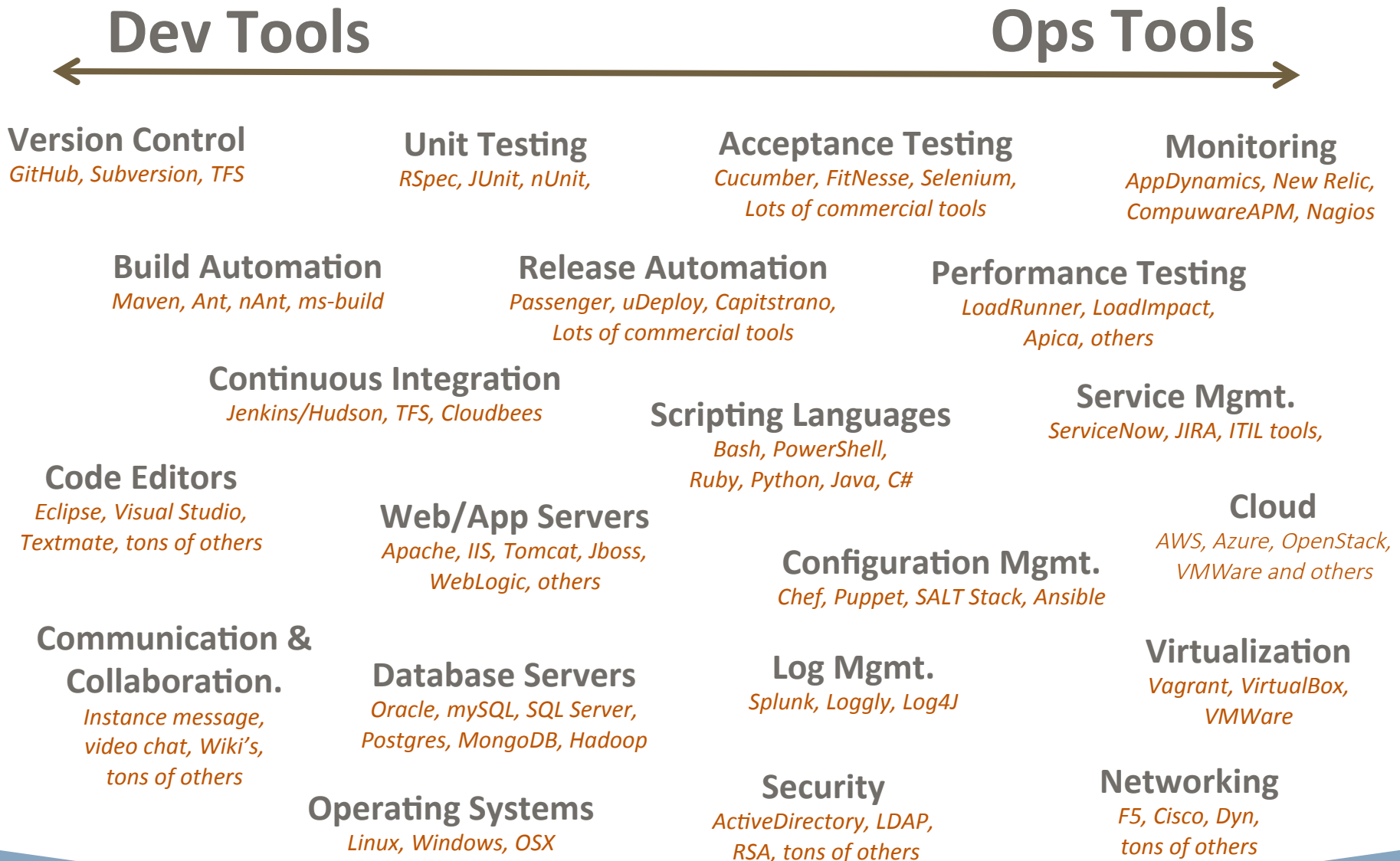
Digital Products & Services in DevOps Orgs



DevOps Impact: Continuous Delivery Pipeline



DevOps Impact: Tools & Skills



Live Demo: Did it work?



**STAY
POSITIVE**
but keep
**FINGERS
CROSSED**

So What Happened?

This command executed a CloudFormation template (master.template) that created a stack (InnovateVA) in Amazon's us-east-1 region under the profile dtashner

```
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InnovateVA --template-url https://s3.amazonaws.com/  
singlestone/cfn/master.template --profile dtashner  
--region us-east-1 --capabilities CAPABILITY_IAM
```

What Infrastructure was Created?

Enable Monitoring (AppD, CloudWatch)

Start App Server (Tomcat)

Deploy App (Jenkins)

Start Build Server (Jenkins)
Build App (GitHub, Jenkins)

Configure Build & App Servers (Chef)

Register Domain Names (Route53)

Provision Build & App Servers (EC2)
Provision Database (DynamoDB RDS)

Create Virtual Private Cloud (VPC)
Create Subnets for App

Questions?

This presentation and all code used in today's demo is available at github.com/singlestone