KEYNOTE:

# DevOps – What does it bring to developers and more importantly to our users

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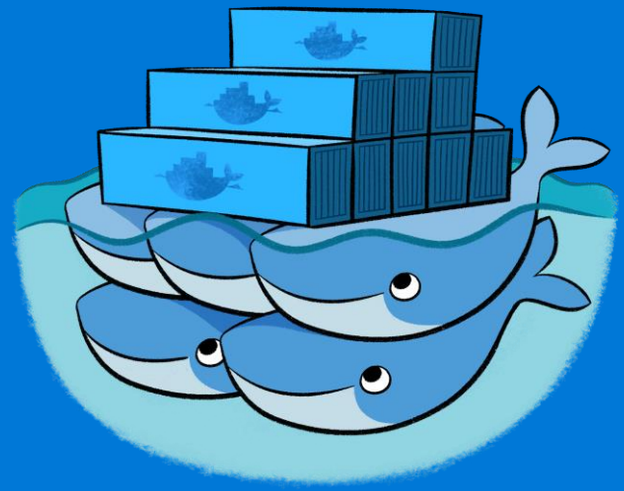
# What is Devops?

*"DevOps (a portmanteau of development and operations) is a software development method that stresses communication, collaboration and integration between software developers and information technology (IT) operations professionals. DevOps is a response to the interdependence of software development and IT operations. It aims to help an organization rapidly produce software products and services."*

Source: Wikipedia

# Myth: It’s the same as agile

# Myth: It's a tool you use

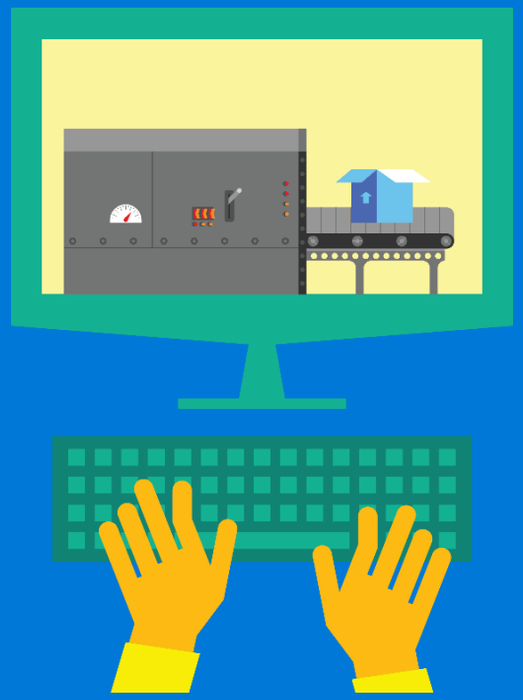


# Demo – DevOps Tools

## Infrastructure as Code

- http://projectnami.org/

# DevOps: the three stage conversation



**1** People

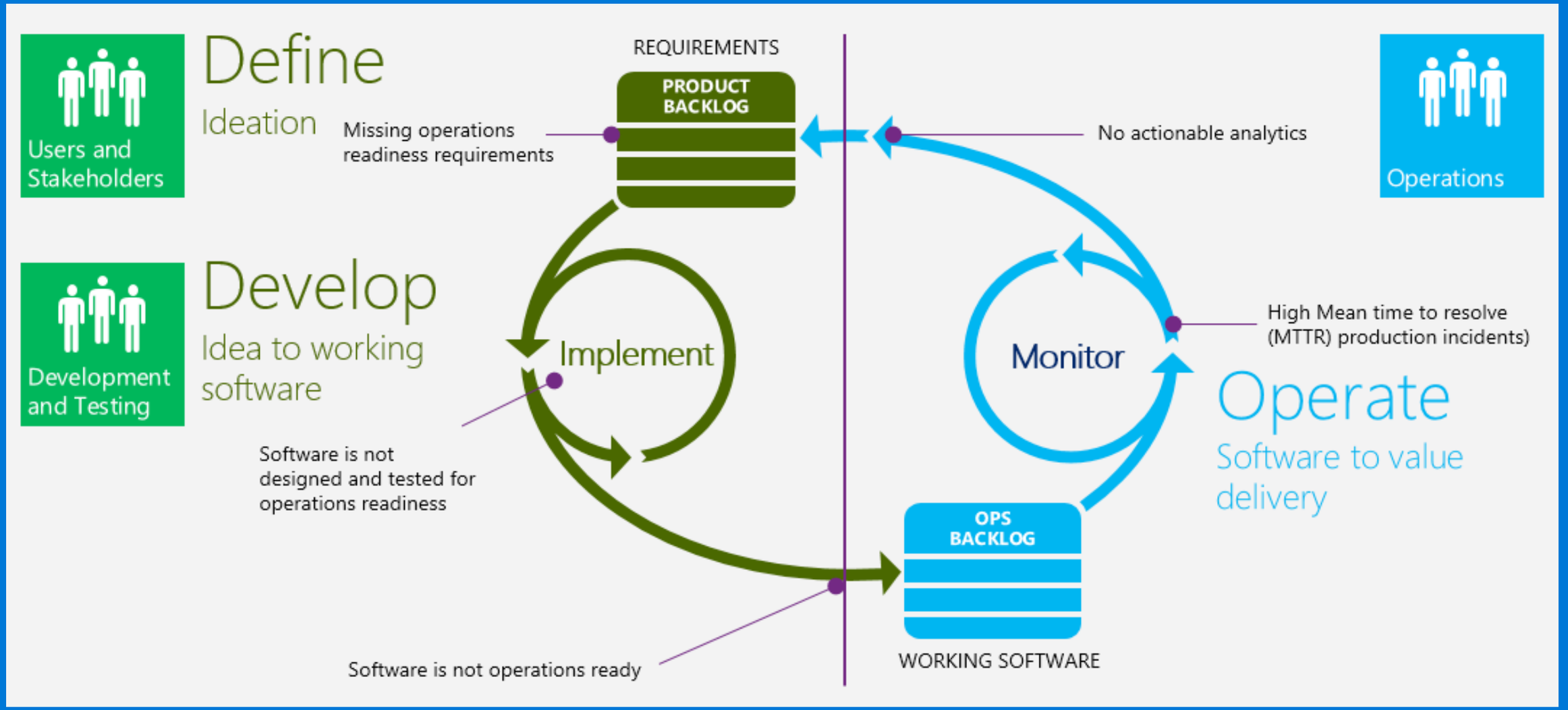
**2** Process

**3** Tools

# What changes with DevOps

- Changes are communicated and rhythmic (Apps/Dev, Ops)
- Automated testing and validation (Apps/Dev, Ops)
- Service based monitoring and automation (All)
- Service Catalog has to be deeper than a static list (All)
- DevOps maps to business capabilities and impact
- Outside-in vs. Inside-out
- Metrics, metrics, metrics– that focus on customer and value

# DevOps Workflow & Challenges



# Examples of DevOps done well:

facebook

# Examples of DevOps done well:

- Attributes that make it easier
  - Stateless connections
  - Scale out
  - Disposable Servers / Infrastructure
  - Rolling upgrades
  - Extensive Monitoring

## *The Phoenix Project*

### ***Why do DevOps?***.

- Competitive Advantage – Productivity

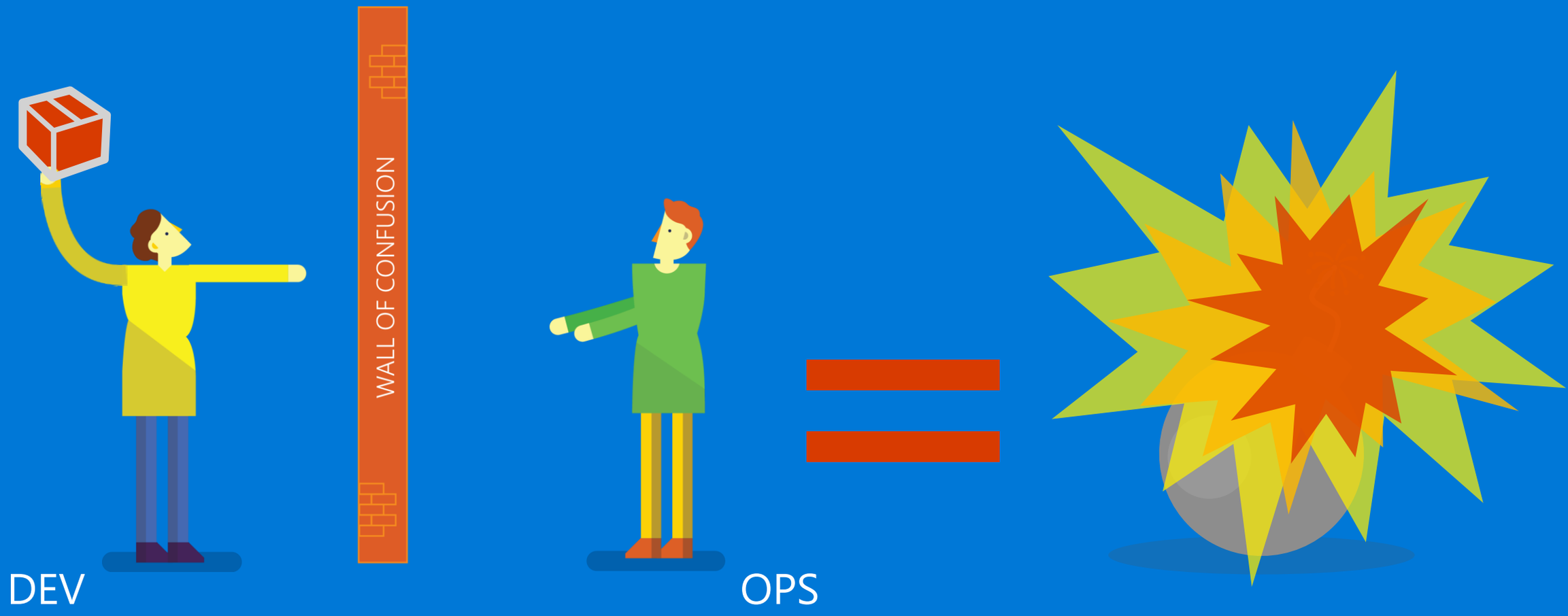
| Company | Deploy Freq. | Lead Time | Reliability | Cust. Responsiveness |
|---|---|---|---|---|
| Amazon | 23,000/ day | Minutes | High | High |
| Google | 5,500/ day | Minutes | High | High |
| Netflix | 500/ day | Minutes | High | High |
| Facebook | 1/ day | Hours | High | High |
| Twitter | 3/ wk | Hours | High | High |
| Traditional Enterprise | 1/ 9 months | Months or Quarters | Low/ Med | Low/ Med |

How much high performance DevOps organizations are outperforming the traditional enterprise counter parts.
*Note - from *The Phoenix Project*

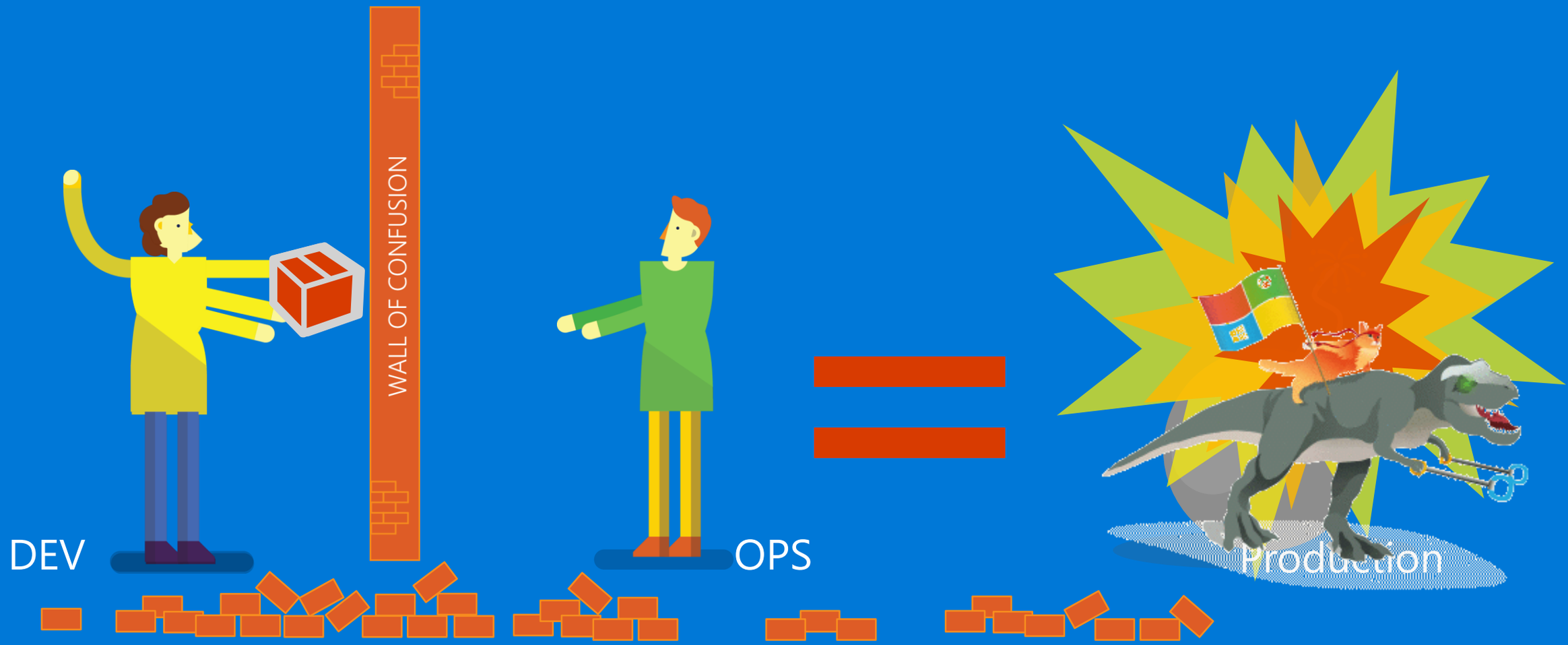
"Many DevOps initiatives focus inwardly on processes and tools with little validation that the services being delivered are appropriate. The primary focus of DevOps should be on improving the customer experience, and DevOps teams must create a CX that provides utility, convenience, value and delight"

Gartner - You're Not Doing DevOps If You're Not Focused on the Customer Experience May 2015

# Traditional Development and Operations



# Happy DevOps



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