



# How to increase the velocity of software delivery

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# SOFTWARE DISRUPTS BUSINESS



Retail



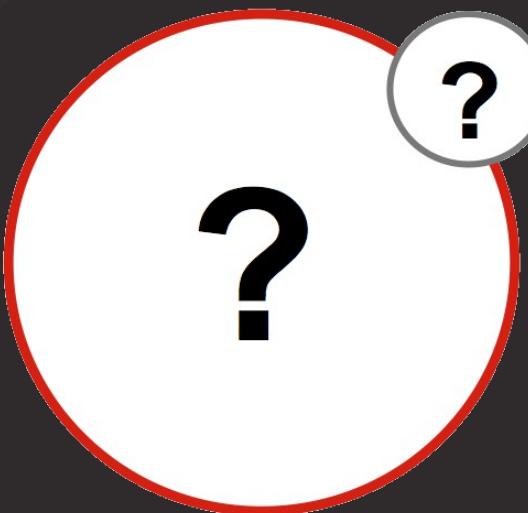
Finance



Media



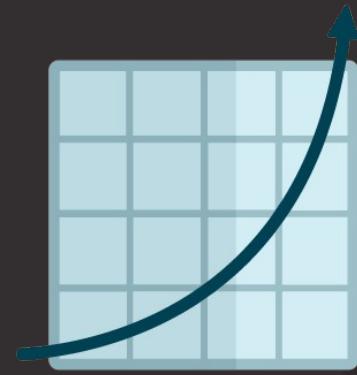
Transportation



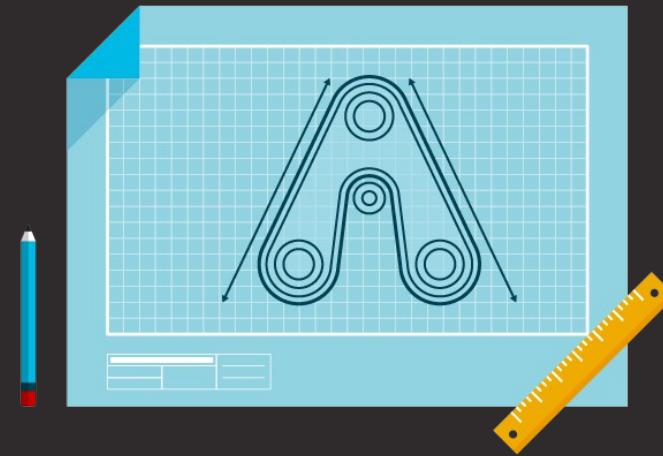
# DIGITAL BUSINESS



IT is a business differentiator



Value derived from speed and agility

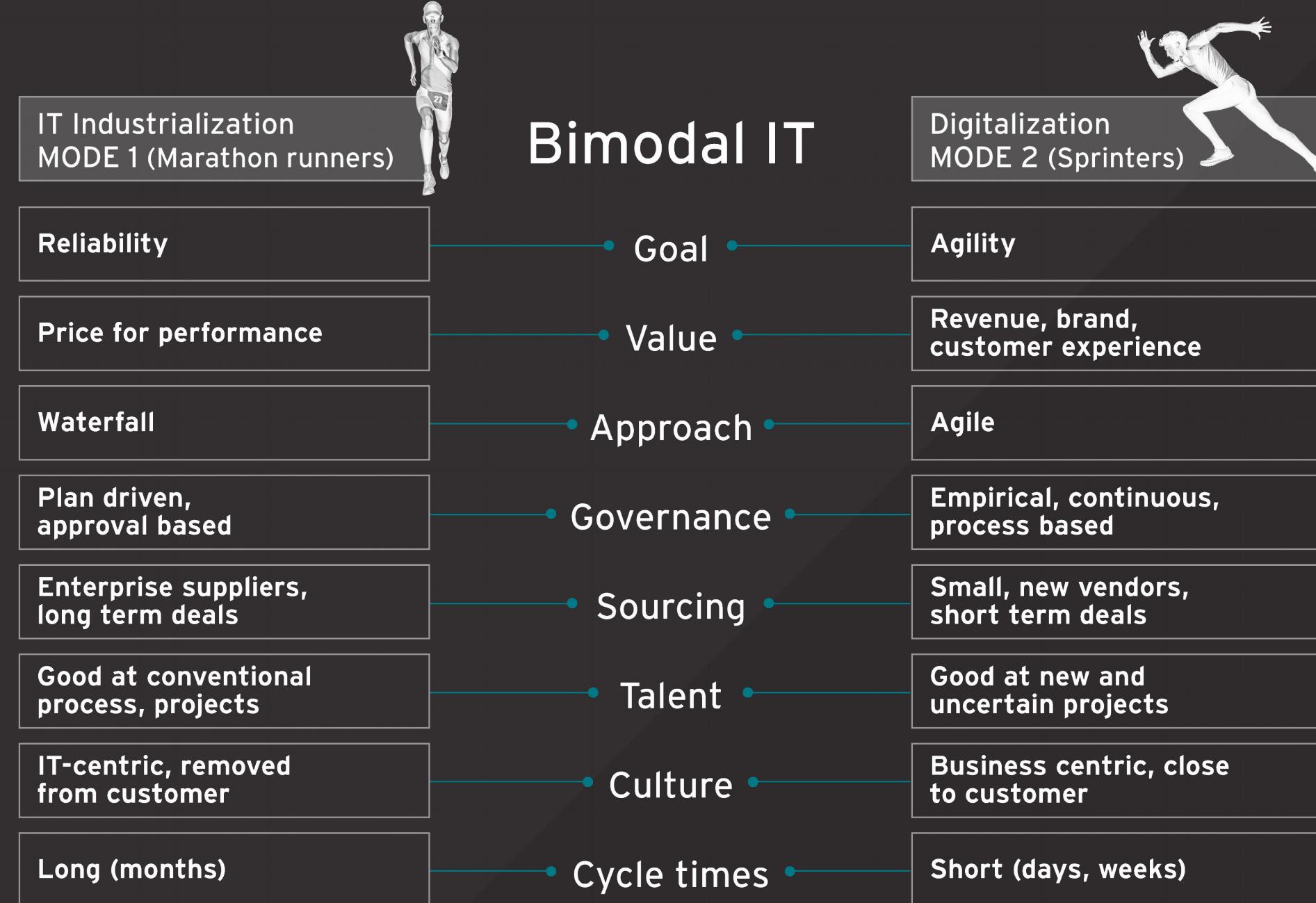


Best realized with a new type of application

“ To capture digital opportunities, CIOs need to deal with speed, innovation, and uncertainty. This requires operating two modes of enterprise IT: Conventional and “nonlinear.”

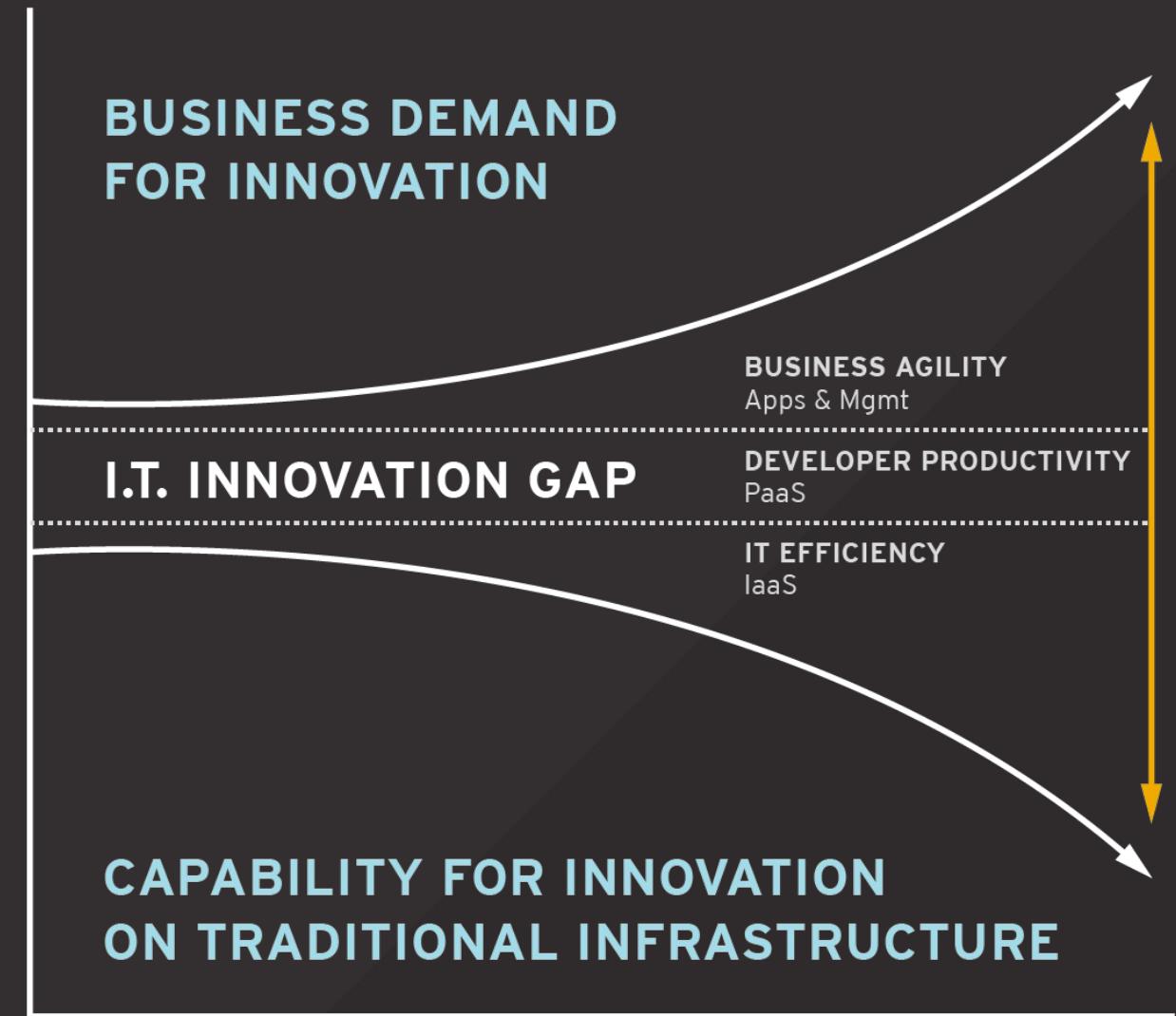
By 2017, 75% of IT organizations will have a bimodal capability. Half will make a mess. ”

Source: Gartner, Taming the digital dragon: The 2014 CIO Agenda

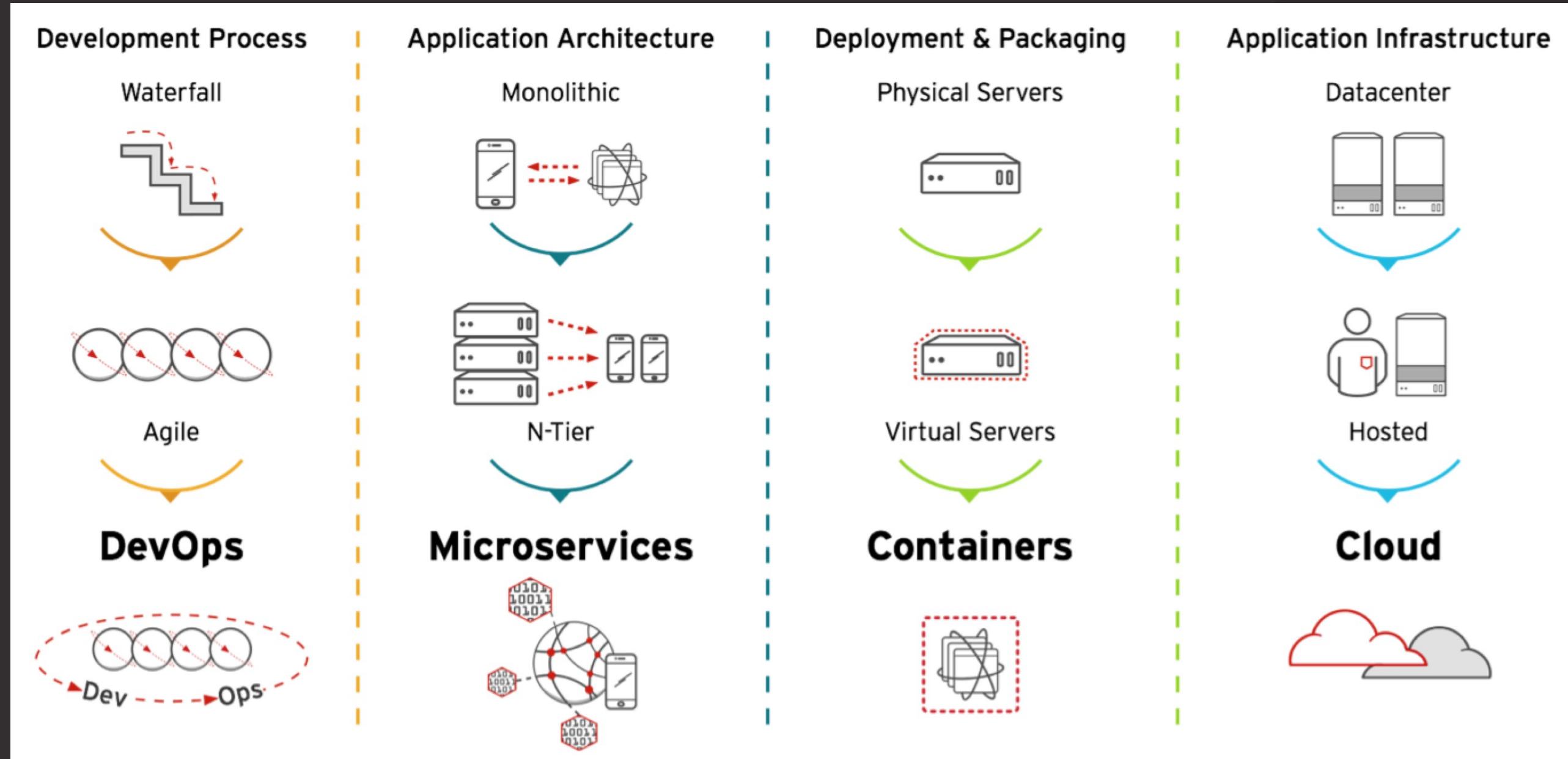


Source: © 2014 Gartner, Inc. and/or affiliates

# CLOUD: A NEW PLATFORM FOR YOUR DIGITAL BUSINESS



# I.T. MUST EVOLVE TO STAY AHEAD OF DEMANDS



# WHY DO WE BUILD SOFTWARE?

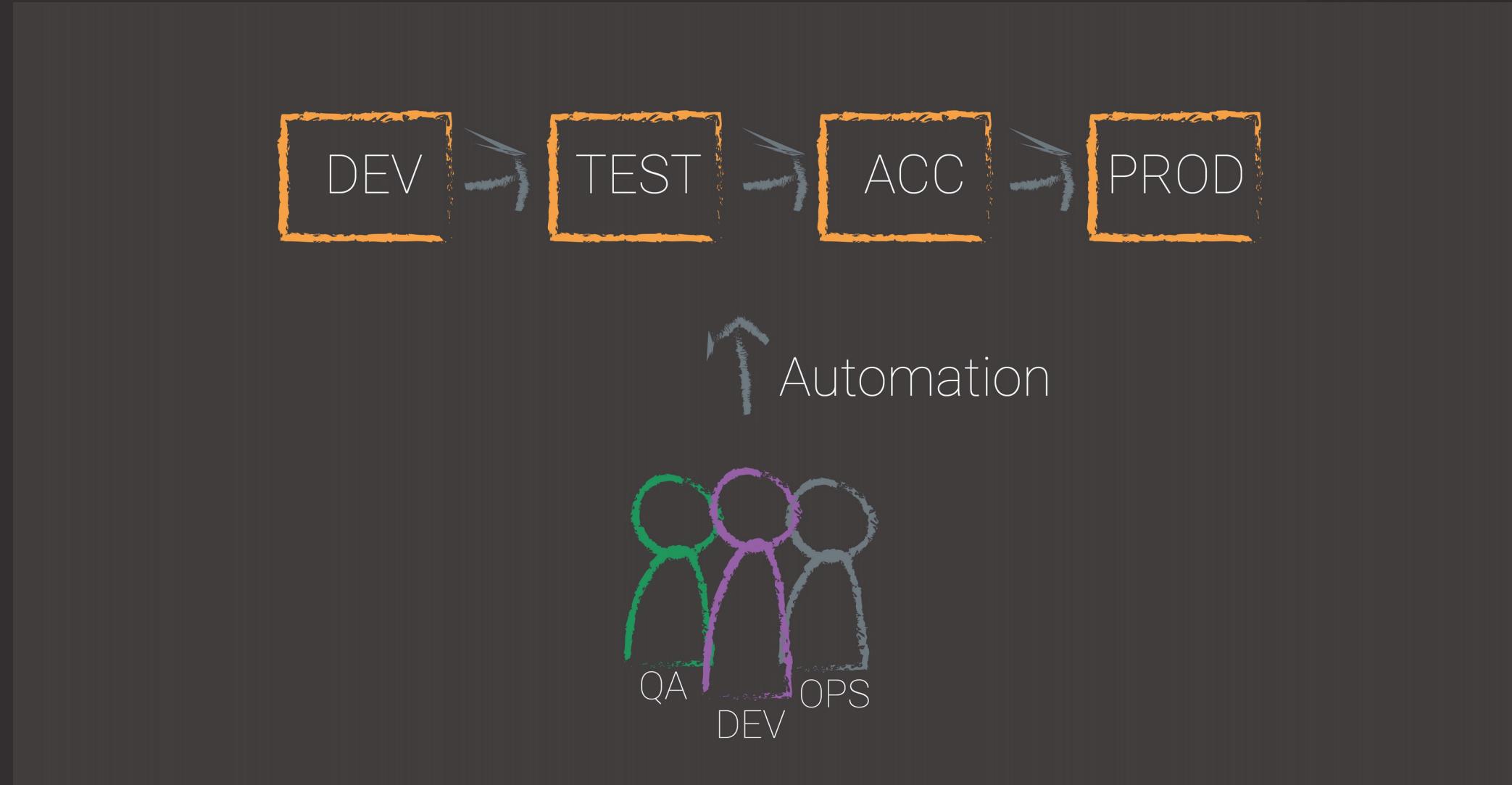


**A common goal: reduction of time to market**

# CLASSICAL IMPEDIMENTS

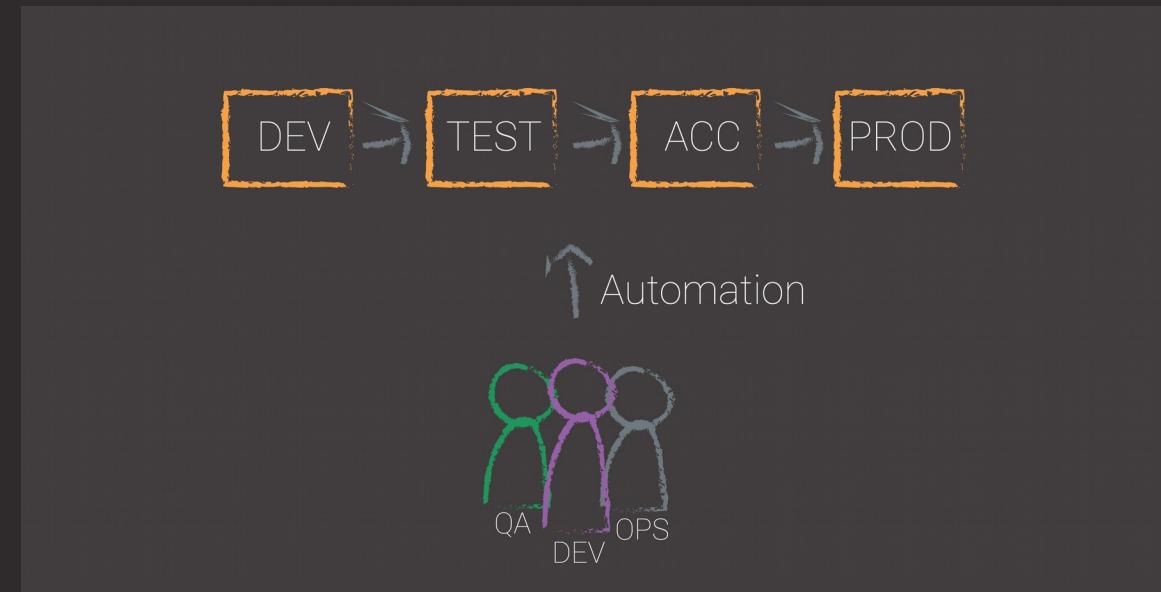
- Multiple disciplines are needed to get applications or changes in production
- Requesting a new environment requires an elaborate process
- Small fixes need big releases
- Testing requires a lot of effort
- Production deployment is surround by processes, rules and manual checks
- Release management is rigid and planned months ahead
- Hiring new skilled developers is hard
- Differences between environments (test, acceptance, production)

# HOW DOES DEVOPS APPLY TO EQUENS?

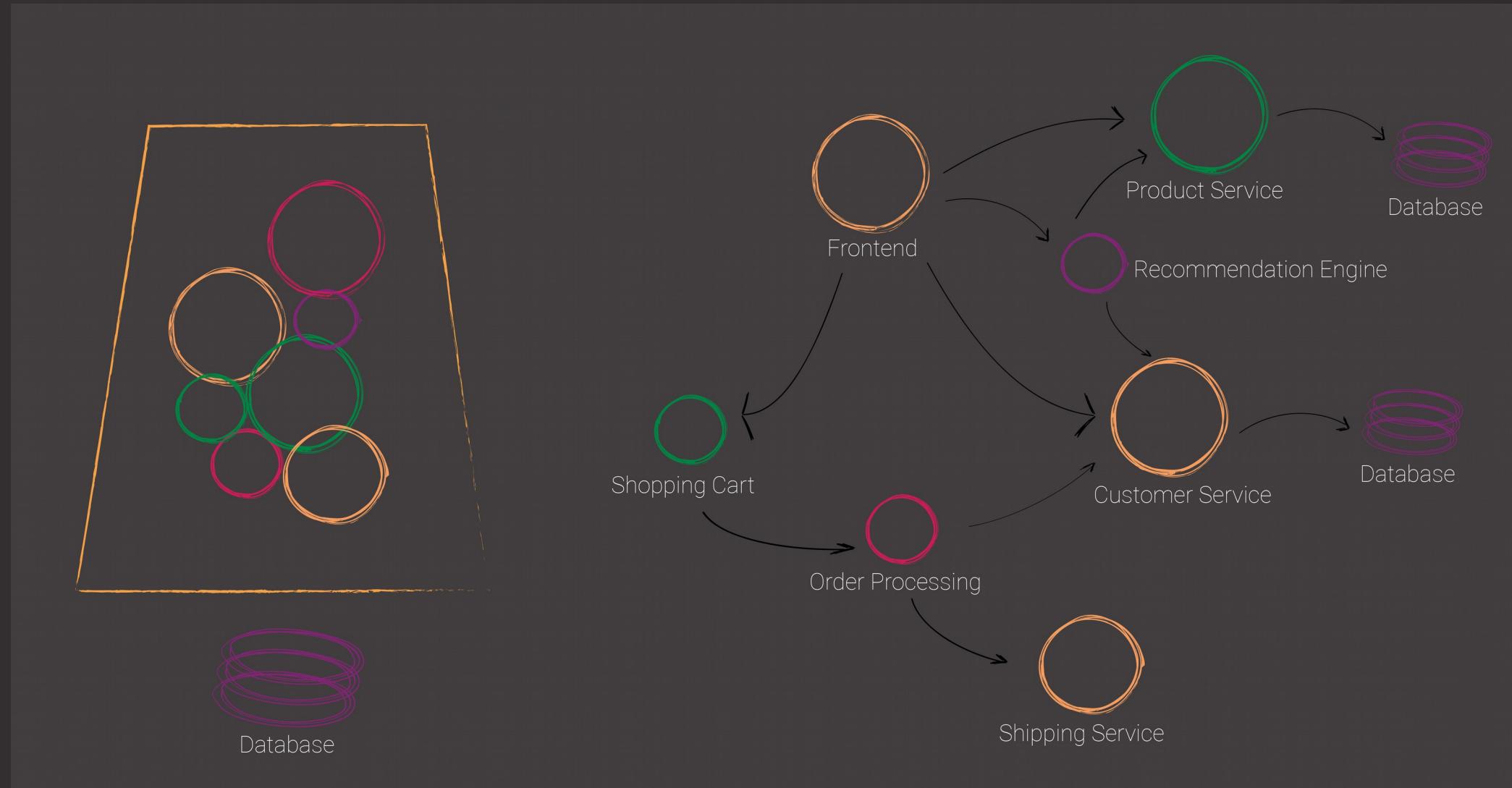


# HOW DOES DEVOPS APPLY TO EQUENS?

- DEVOPS is a culture
- Developers work together with other (IT) professionals while automating the process of software delivery and environment changes
- Mixing roles reduces the gap between Development, QA and Production
- Automation reduces time to market
- Increase of reliability
- Software release protocols can be standardized and automated (producing an audit trail)



# HOW DOES MICROSERVICES APPLY TO EQUENS?

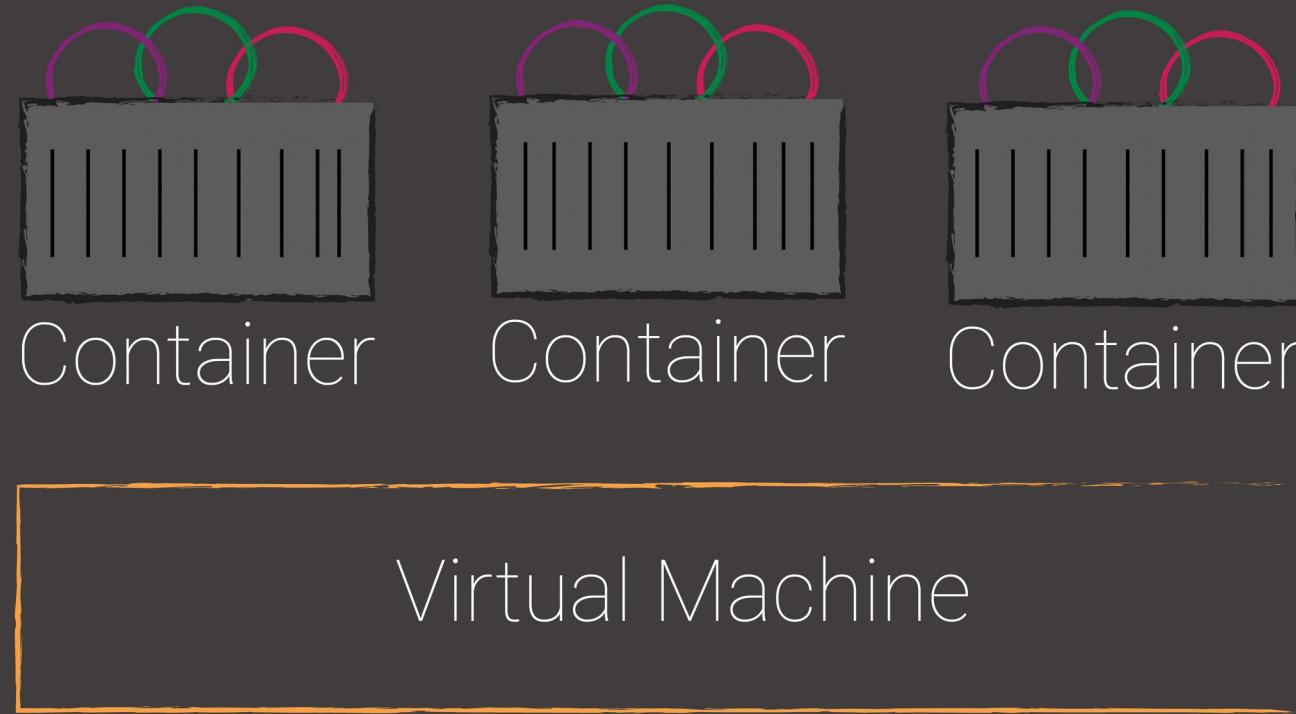


# HOW DOES MICROSERVICES APPLY TO EQUENS?

- Split out monolithic architectures into small services
- Less dependencies => more flexible release schedules
- More technology freedom
- Faster realization of business ideas
- Service re-use (composition)
- Stability of applications
- Scaling
- Organizational alignment

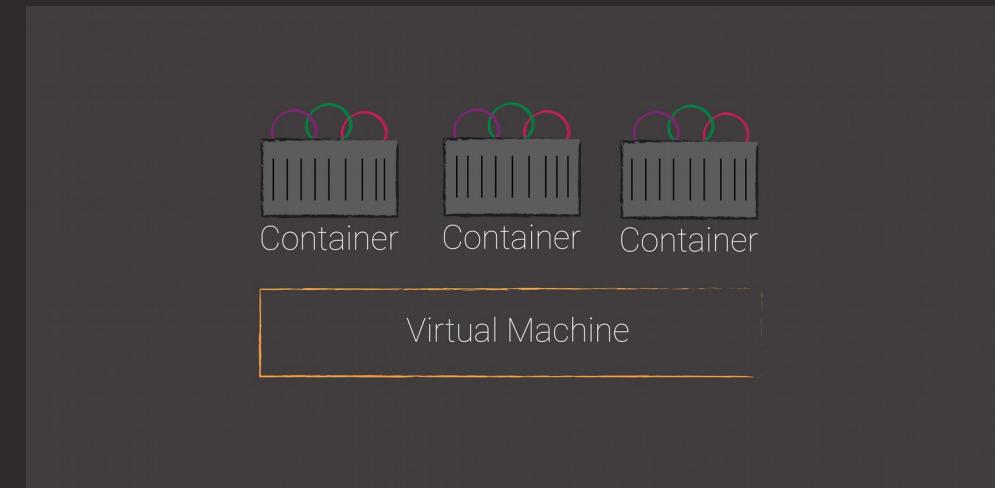


# HOW DO CONTAINERS APPLY TO EQUENS?

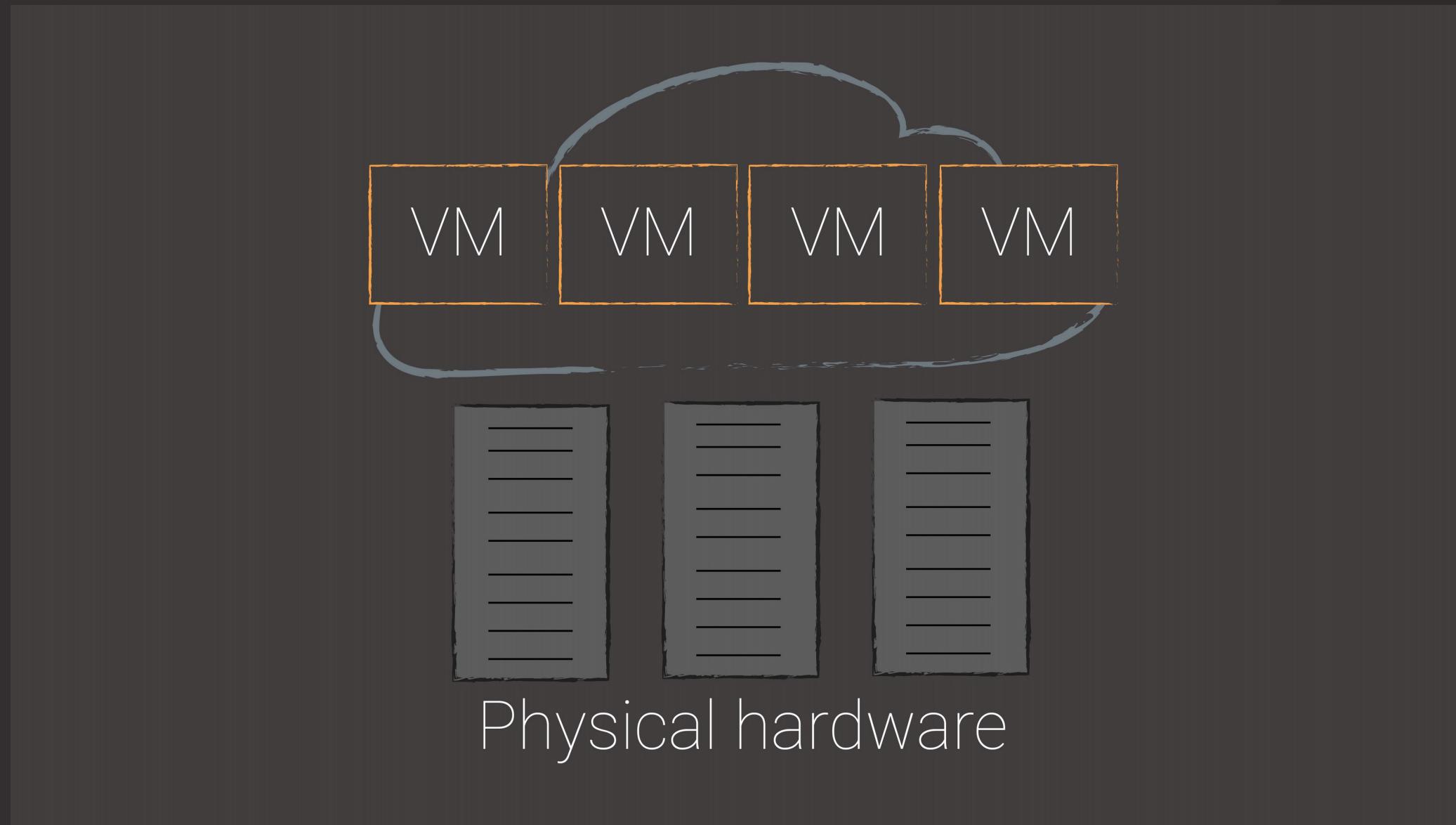


# HOW DOES CONTAINER APPLY TO EQUENS?

- Portability of application with configuration and dependencies
- Versioning of environments and configuration
- Self service portals for environments
- Abstraction between VM's and applications
- Efficient use of VM's
- VM's can be standardized for running containers
- Containers determine the application specific configuration (Application server, database, middleware)

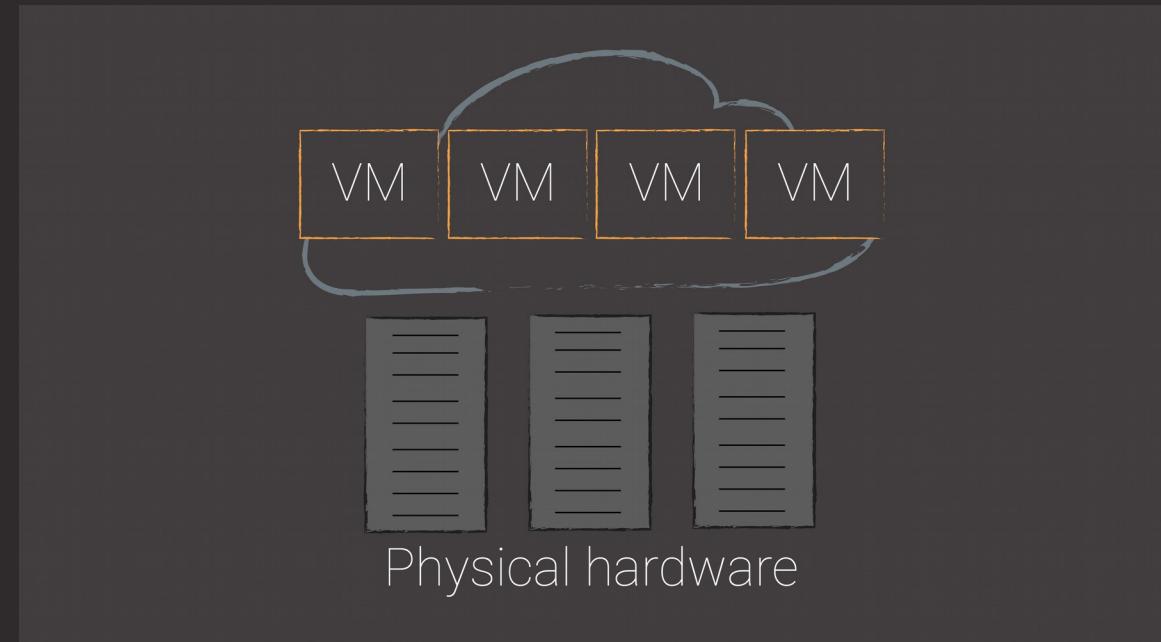


# HOW DOES CLOUD (PARADIGM) APPLY TO EQUENS?

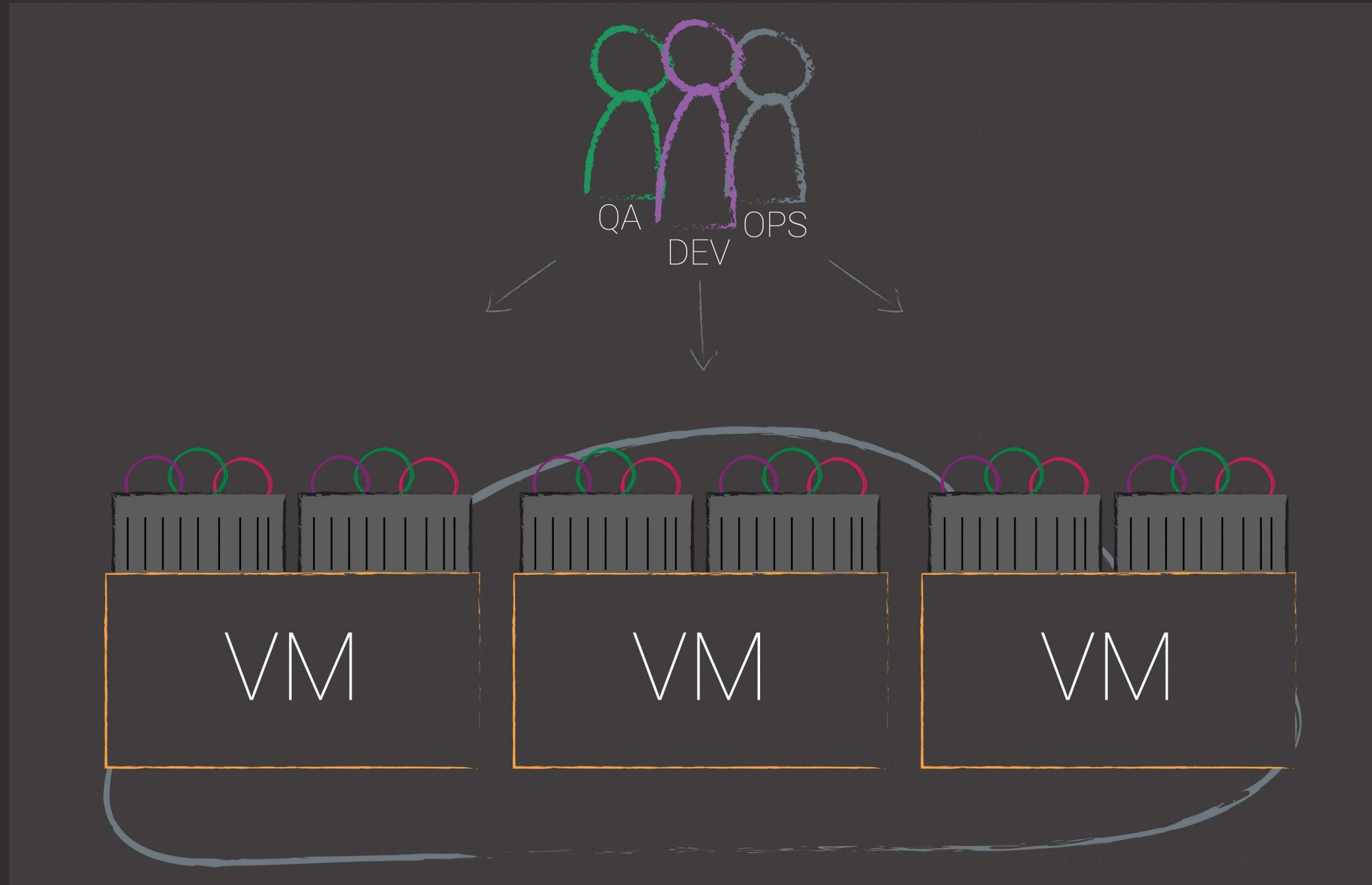


# HOW DOES CLOUD (PARADIGM) APPLY TO EQUENS?

- Abstraction layer between physical hardware and virtual machines
- Provides services like elasticity, automation, scalability, pay-per-use
- Maximization of resources
- Different operating systems on the same hardware
- Governance of IT running costs
- Increased agility
- Shorter time to market

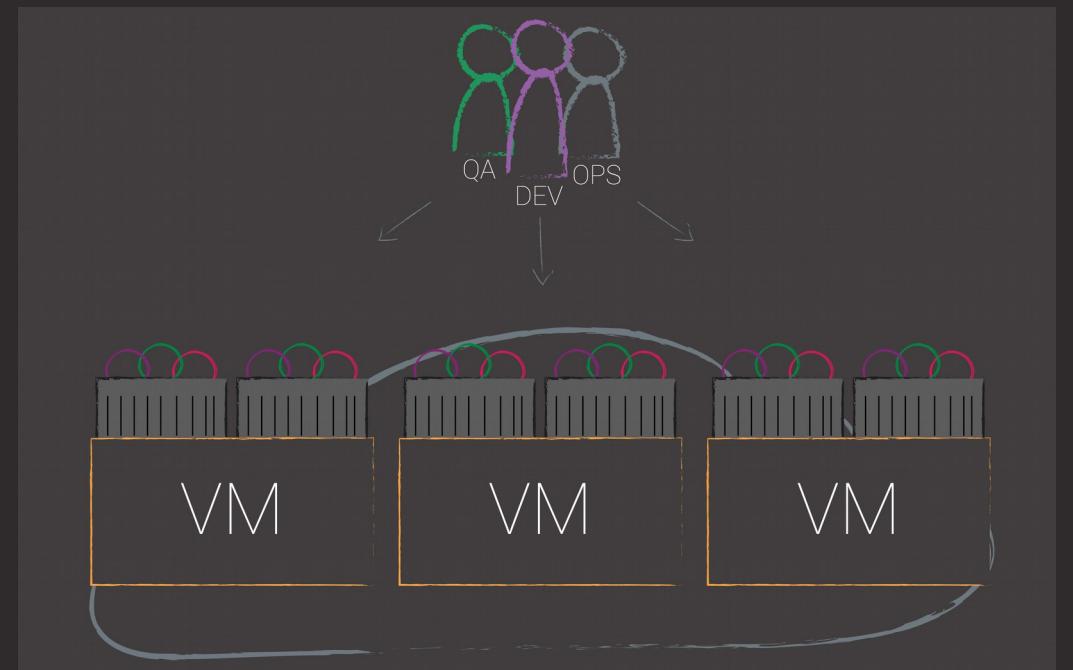


# How it all fits together



# How it all fits together

- DevOps automatizations provide a foundation for running a large amount of services
- Container technology provide micro environments, for a heterogeneous technology landscape
- Cloud services provide container deployment automation and standardized virtual environments
- These three paradigms enable the use of microservices, which ultimately reduce the time to market of software and aligns business with IT



“ 8 out of 10 are choosing Open Source based on quality.  
Jumped from fifth to first this year ”

“ 50% of all enterprises are expected  
to contribute to and adopt Open Source ”

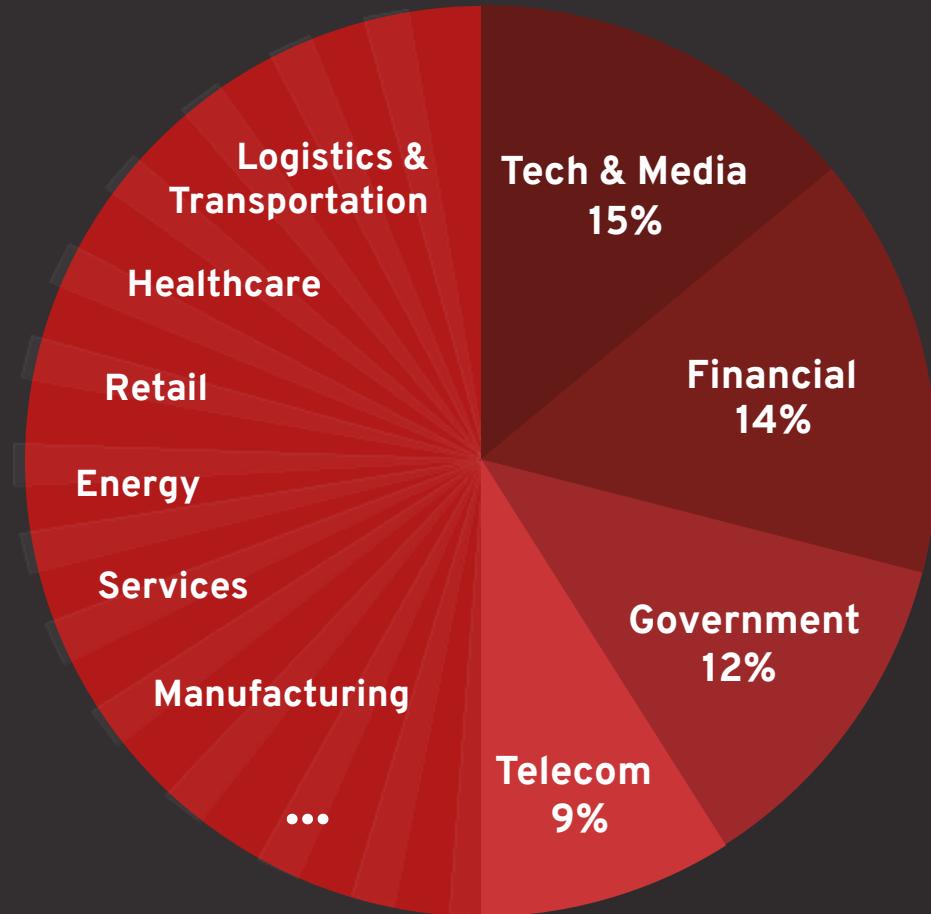
“ When asked why companies engage with Open Source  
communities, the #2 answer was:  
“Attract and retain top development talent” ”

Source: Blackduck Future of Open Source Survey 2014

# WIDE-RANGING EXPERIENCE

**BREADTH**  
ACROSS  
MULTIPLE  
VERTICALS  
GLOBALLY

**STRENGTH**  
IN MAJOR  
VERTICALS  
GLOBALLY



Source: Red Hat customer annual bookings and client data

100% of the Fortune 500 companies  
in the following industries are  
Red Hat customers:



AIRLINES



COMMERCIAL BANKS



FINANCIAL DATA SERVICES



HEALTHCARE



TELECOM

50% of the world's trading volume  
is powered by Red Hat products and  
solutions.