BIZTALK360 PRESENTS

IN ASSOCIATION WITH Microsoft

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Integration MVP

Moving to Cloud-Native Integration

Sponsors

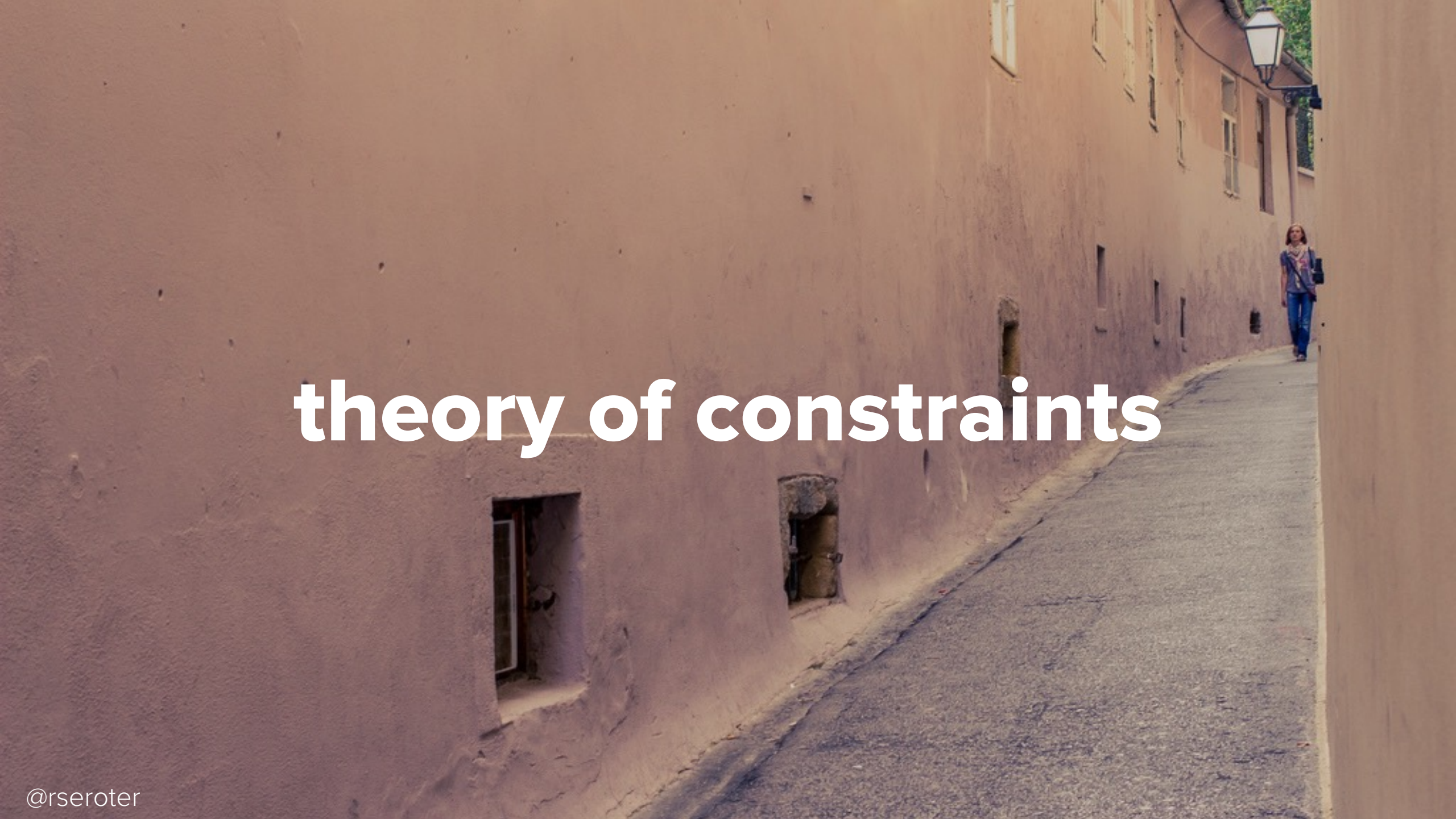
VNB CONSULTING

devscope

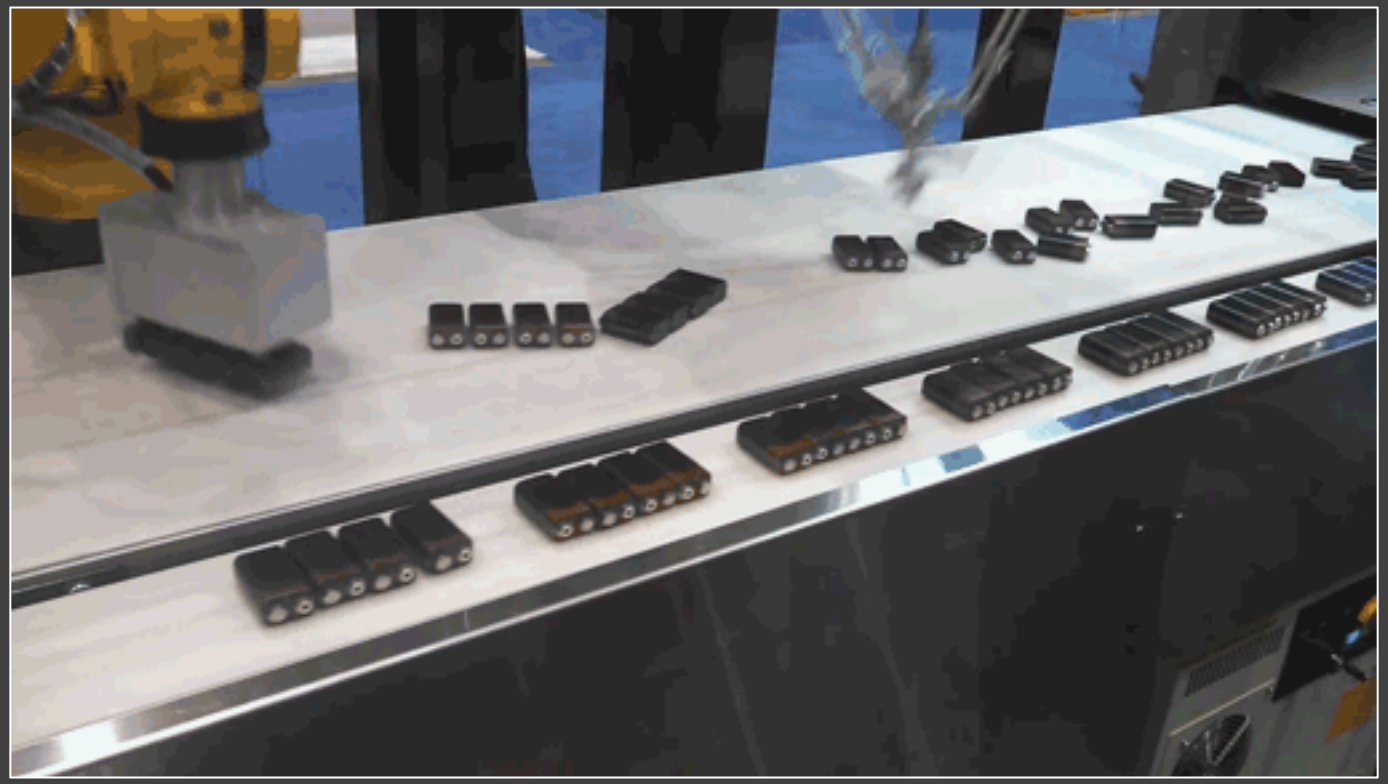
I’ve got 3 kids.

It’s hard to be on-time for anything.

Optimizing the wrong step **won't improve** the flow.


theory of constraints

Software teams face the same reality.



Don’t allow app integration be the bottleneck.

You need a **cloud-native** approach to integration.

#1 Integration today

#2 What is “cloud-native”?

#3 Delivering cloud-native integration

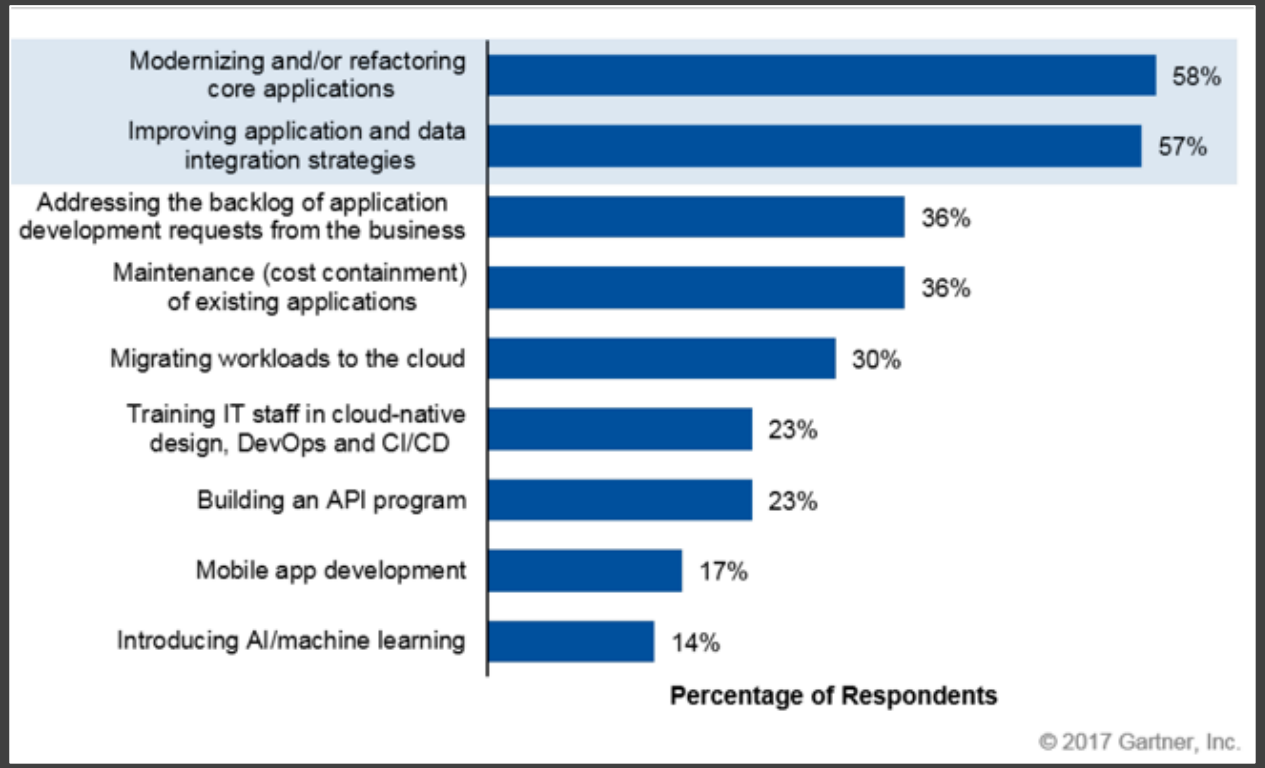
#1 Integration today

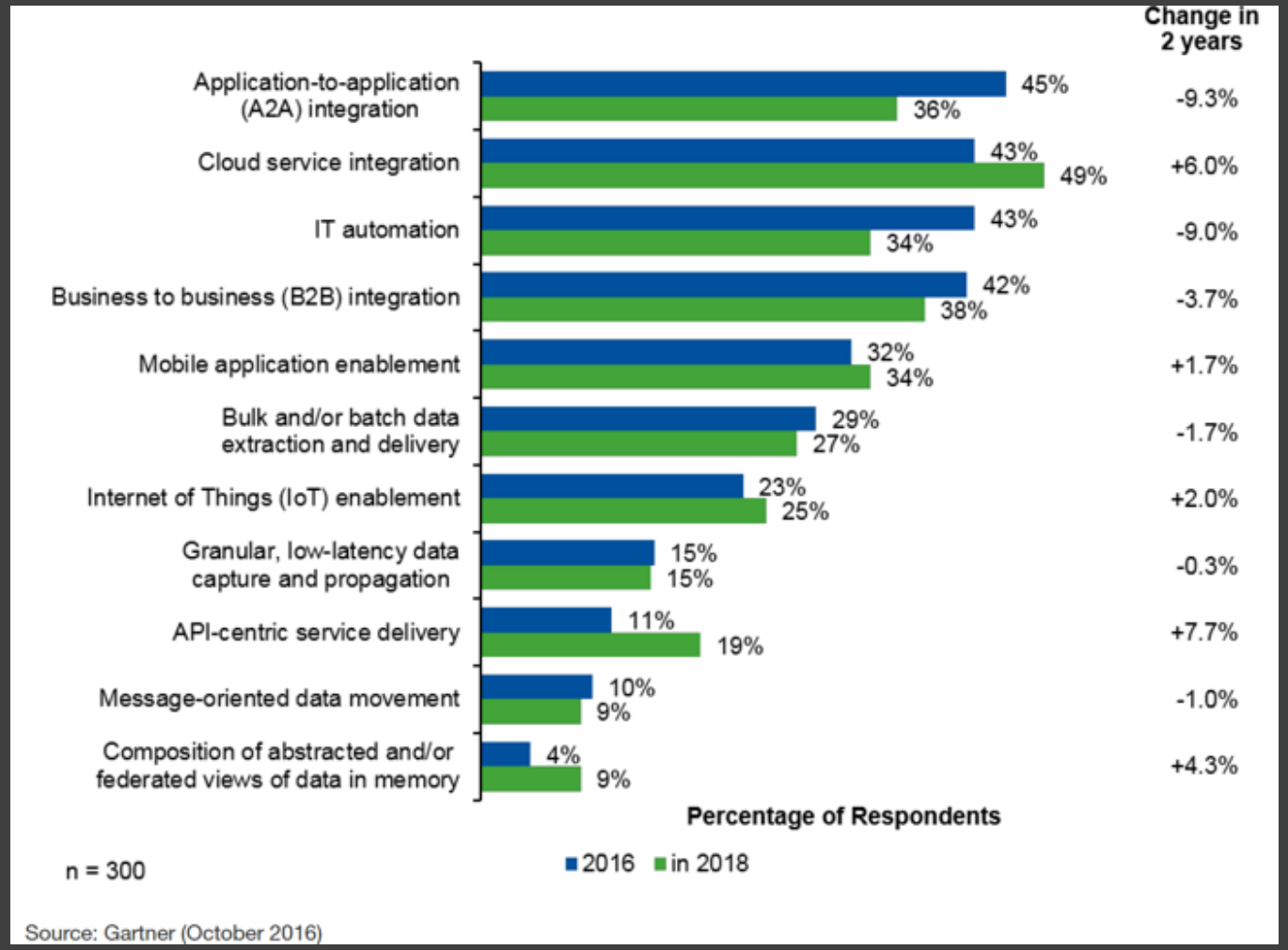
#2 What is “cloud-native”?

#3 Delivering cloud-native integration

The top IT priorities for 2017 to 2018 include **app modernization** and improving **integration strategies**.

Gartner :2017 Strategic Roadmap for Application Architecture, Infrastructure and Integration (2017)





Today, **application-to-application** is most critical integration scenario.

In two years? **Cloud service integration** rises to the top.

Gartner's 2016 Application Integration Pulse Survey

Spending on integration platforms is accelerating, with fastest growth in **iPaaS** and **API management**.

Gartner "Forecast Analysis: Enterprise Application Software, Worldwide, 4Q16 Update,"24 January 2017

“By 2020, more than 75% of large organizations will establish a **hybrid integration platform** using integration infrastructure that they assemble from multiple vendors.”

Gartner :Use the Integration Maturity Model to Assess and Improve Your Integration Competency (2016)

"By 2021, at least 50% of large organizations will have incorporated **citizen integrator** capabilities into their strategic integration infrastructure."

Gartner: Citizen Integrators Bring Application and Data Integration Into a Common Focus (2017)

#1 Integration today

#2 What is “cloud-native”?

#3 Delivering cloud-native integration

What is “cloud-native” all about?

This is an approach to building and operating software that takes advantage of the cloud-computing model. Often see as a combination of microservices, continuous delivery, containers, and DevOps.

Built for scale, built for continuous change, built to tolerate failure, built for manageability.

"Cloud native means the applications are designed to be **managed by software**, not humans."

Cloud Native Infrastructure How to Build and Manage Modern Scalable Infrastructure. (2017). O'Reilly & Associates Inc.

Traditional Enterprise	Cloud-Native
Orgs arranged in silos without common goals	Balanced teams with shared objectives
Dissimilar environments; “works on my machine”	Consistent setups everywhere
Changes are an exceptions, deployments risky	Changes are an asset, deployments boring
Security via perimeter, triaged patches	Security everywhere, 3 R’s (repair/repave/rotate)
Try to prevent mistakes; focus on MTBF	Embrace resilience engineering; focus on MTTR
Scaling requires careful planning, entire stack	Dynamic scaling of individual components
Software planned and delivered in bulk	Software delivered in small batches
Single, long-lived technology stacks	Diverse, on-demand technologies leveraged

Which one of those sounds like **your** integration practice?

#1 Integration today

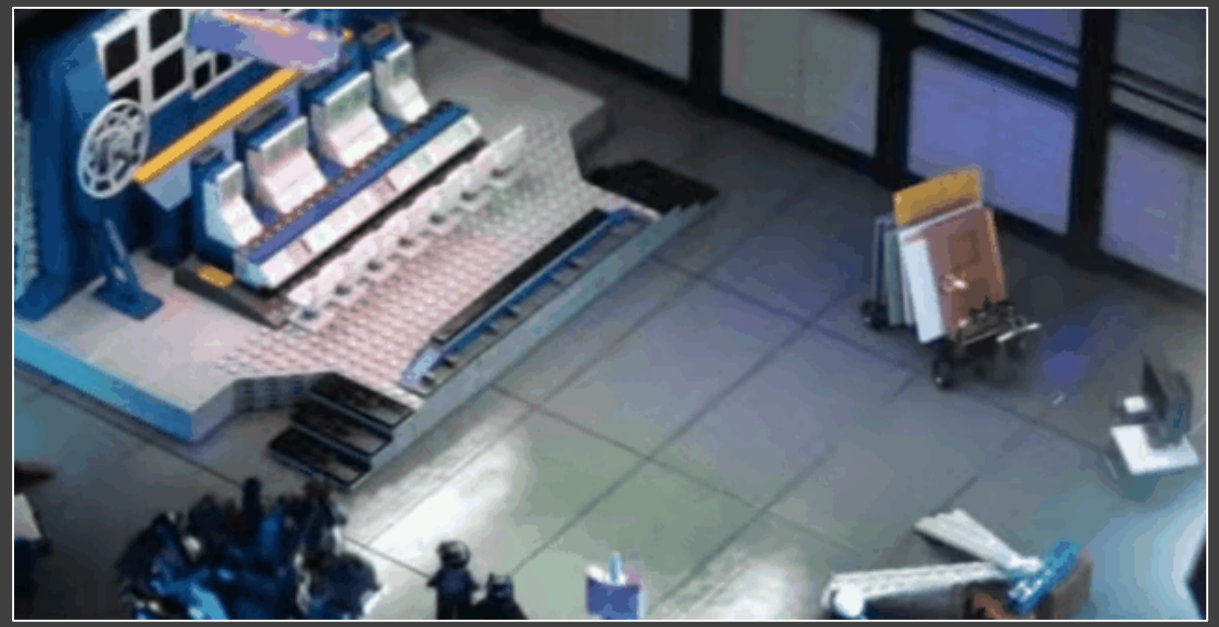
#2 What is “cloud-native”?

#3 Delivering cloud-native integration

Today’s integrations are often built by siloed teams, managed manually, use centralized platforms with on-premises focus, and aren’t designed for elasticity.

MORE DECENTRALIZED

Logical/physical isolation
Edge, cloud, on-premises
Distinct products
Federated management



MORE COMPOSABLE

Loosely coupled
Choreographed services
Logic in endpoints
Targeted updates

DEMONSTRATION

Logic App as data pipeline

MORE “ALWAYS ON”

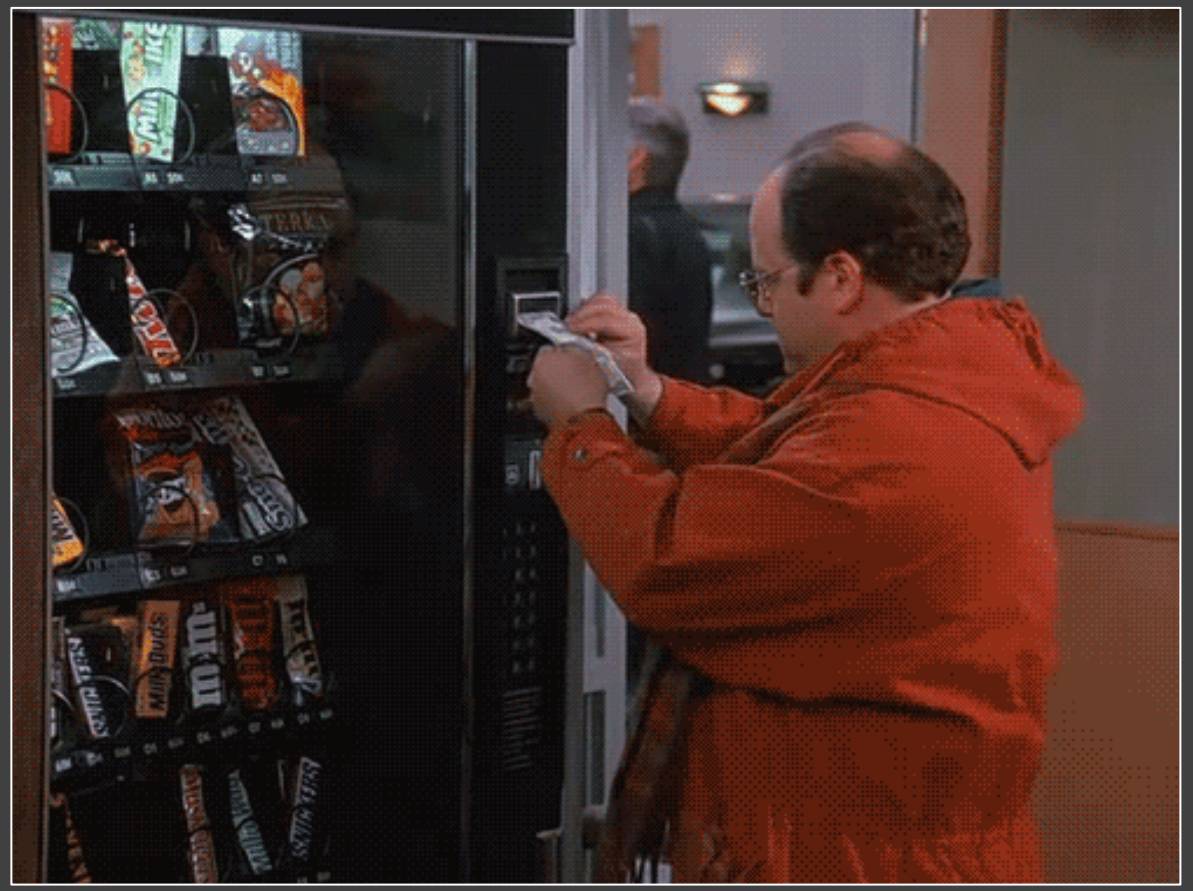
Events always arriving
No maintenance windows
Smarter failure handling
Blue-green upgrades

MORE SCALE

Unpredictable usage
Scale each component
Avoid shared capacity
Buffering strategies

MORE SELF SERVICE

Ad hoc integrators
Environments on demand
Unaided deploy/manage
Embed experts in teams



DEMONSTRATION

Making BizTalk Server easy

MORE ENDPOINTS

Embrace modern sources
Variable latency demands
Embrace new patterns
Logic Apps for cloud

MORE AUTOMATION

Build, scale AND upgrade
Platform-managed
Changes to Ops approach
***Product* mindset**

DEMONSTRATION

Automate Azure via Service Broker

Introduce **cloud-native integration** and start delivering integration as a service at scale.