

Understanding DevOps

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DevOps in a Hybrid World



Those “front tiers” often integrate to existing “back office” applications and need to **work reliably**



AND throughout this whole process, companies need to ensure **governance, quickly build out and SLA delivery for available services end to end. To grow businesses, companies need to automate the delivery pipeline – these apps securely deliver data globally, reliably, and with extreme speed.**



On-Premise Systems

Companies are building “front tiers” for web, mobile, and social apps – these need to be **delivered fast, updated frequently, and perform well**



Automate to Deploy with Speed



Security



Compliance



SLAs

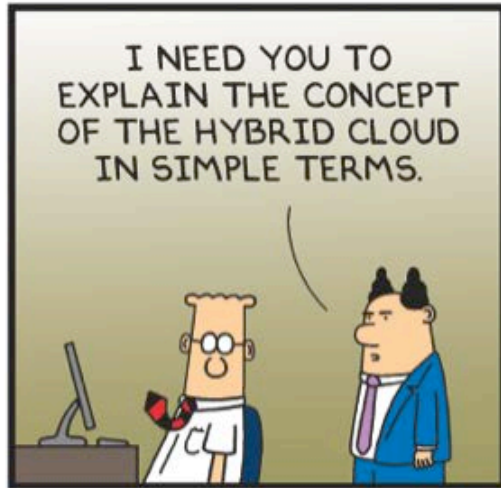


Extensibility



Cost of ownership

The new World is Hybrid



Hybrid Cloud

Enterprise Applications



Traditional IT



Dedicated On-Premise Cloud



Dedicated Off-Premise Cloud

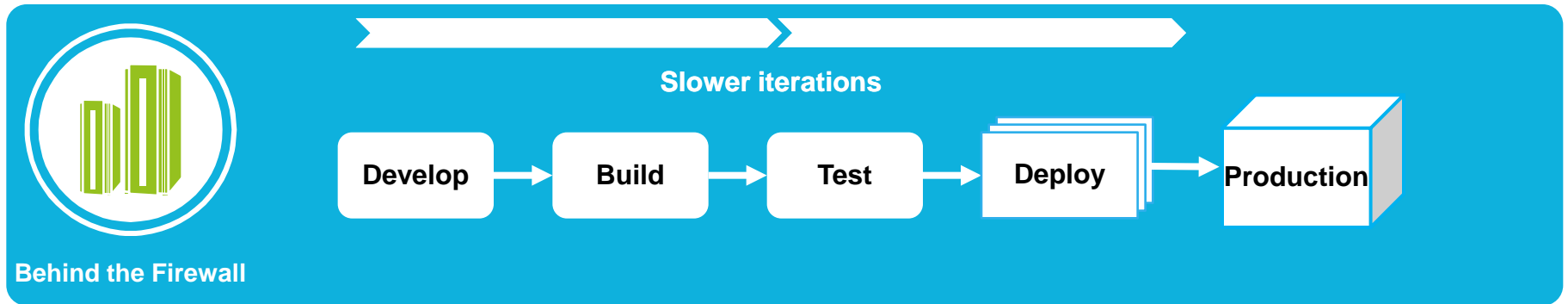
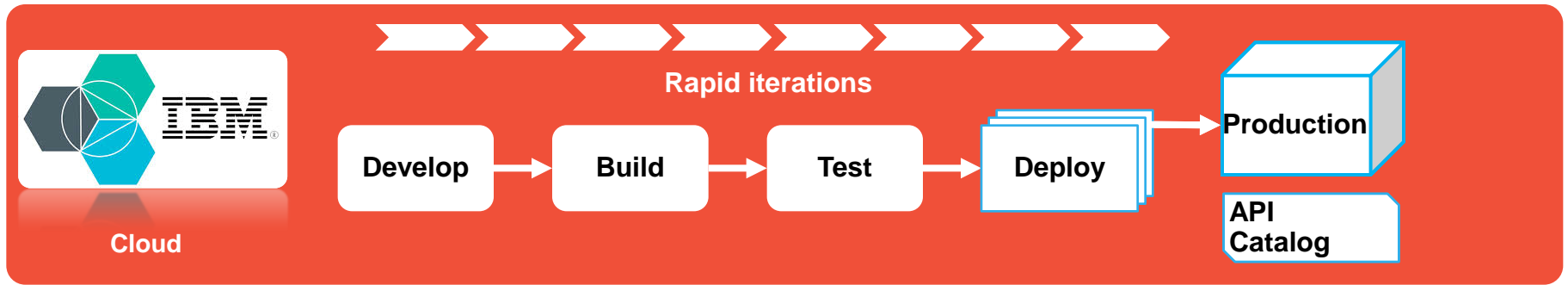


Shared Off-Premise Cloud

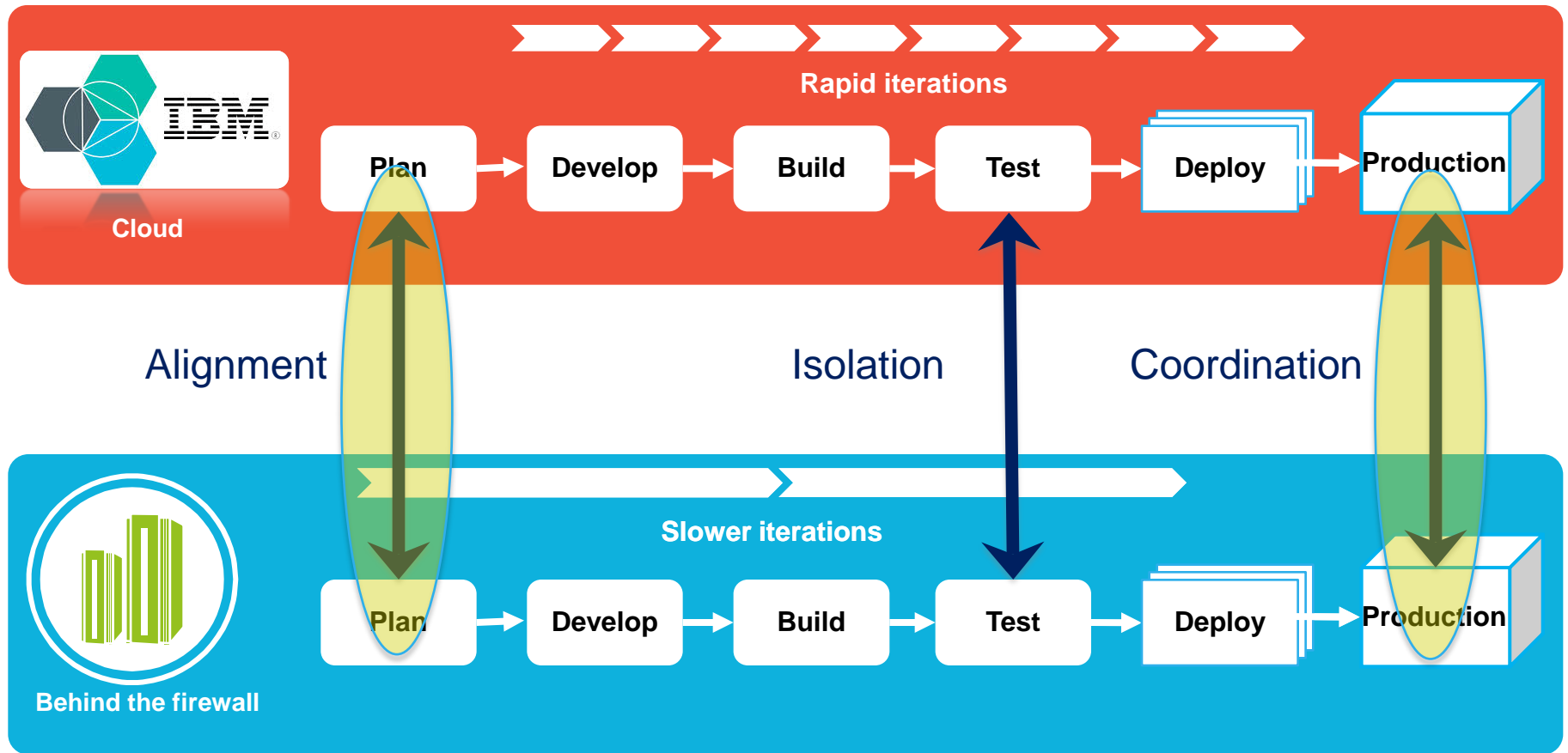
Cloud Enabled

Cloud Native Apps/Services

Enter, Two Speed IT



Effective delivery of hybrid applications requires Alignment, Isolation and Coordination



DevOps == Continuous Improvement



Leverage feedback across the Delivery Pipeline to Continuously Improve:

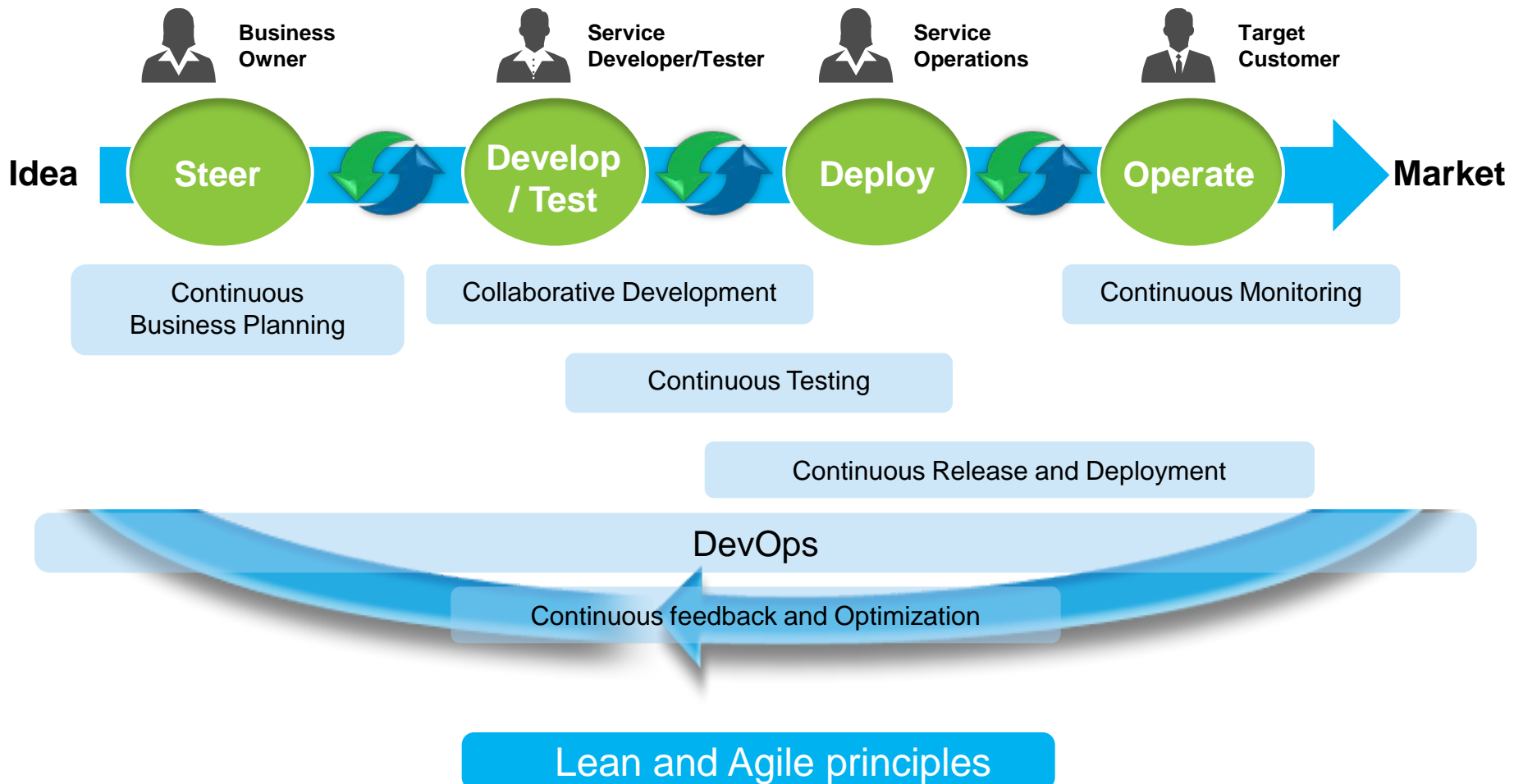
I. Application Delivered

II. Environment Deployed

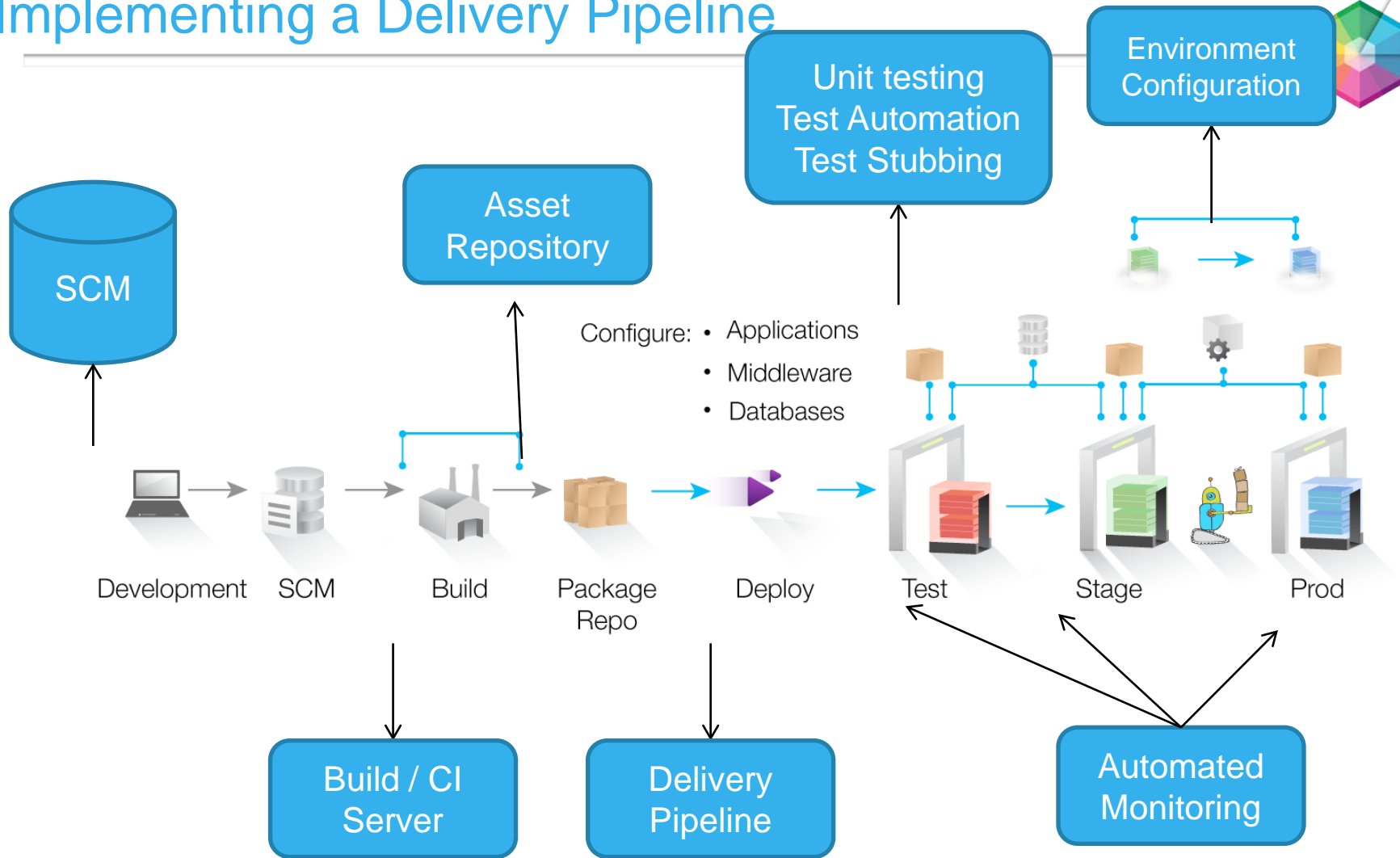
III. Application and Environment Delivery Process

DevOps Adoption: Where to start?

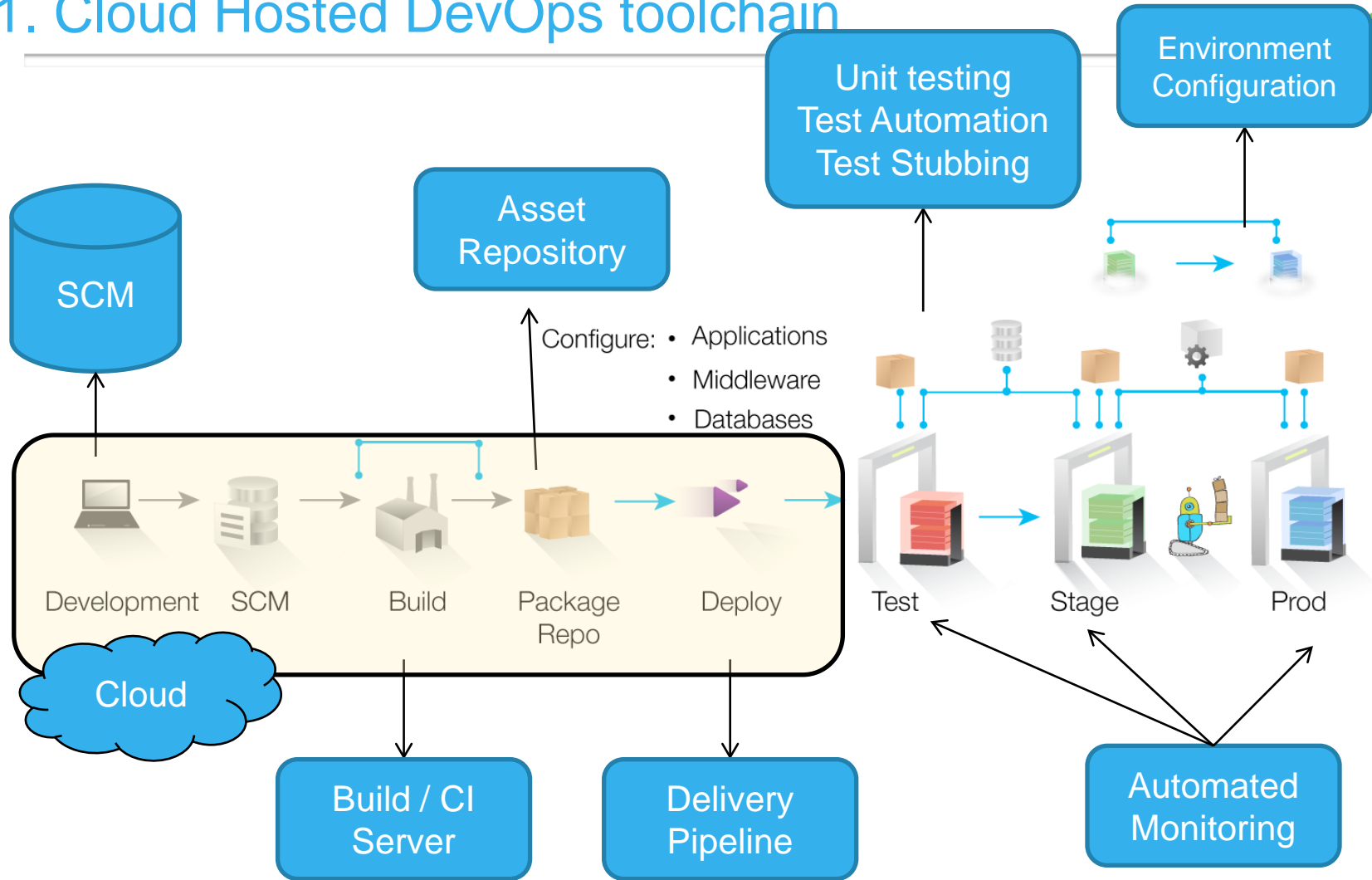
Address bottlenecks in the Delivery Pipeline



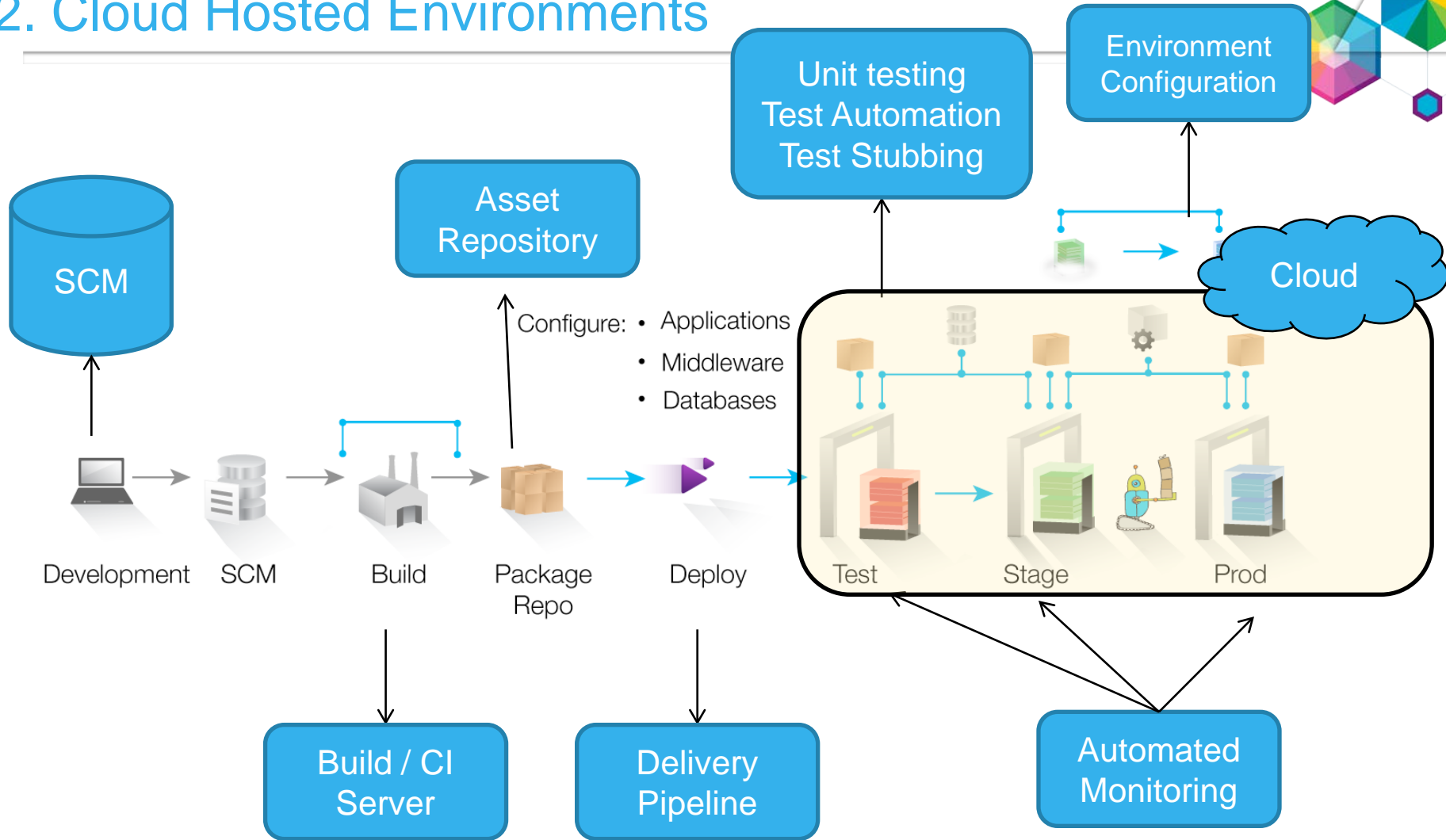
Implementing a Delivery Pipeline



1. Cloud Hosted DevOps toolchain



2. Cloud Hosted Environments





Adopting diverse needs of application teams

Need 1: Rapid prototyping of composable applications

- § Wants flexibility in language & runtimes
- § Familiar with web/browser based tooling
- § Priority is getting code up & running ASAP
- § Looking for a rich development services: database, messaging, analytics, and mobile
- § Interested in community & participation.

Need 2: Cost & Resource Optimization is key focus.

- § Focus is on process, tooling & ease of use
- § Quick time to value with strong governance.
- § Need version control, task listing, build management, quality assurance.
- § Cost & Resource Optimization is key.
- § Heavy application or operations services.

Need 3: Legacy & Transaction based traditional systems

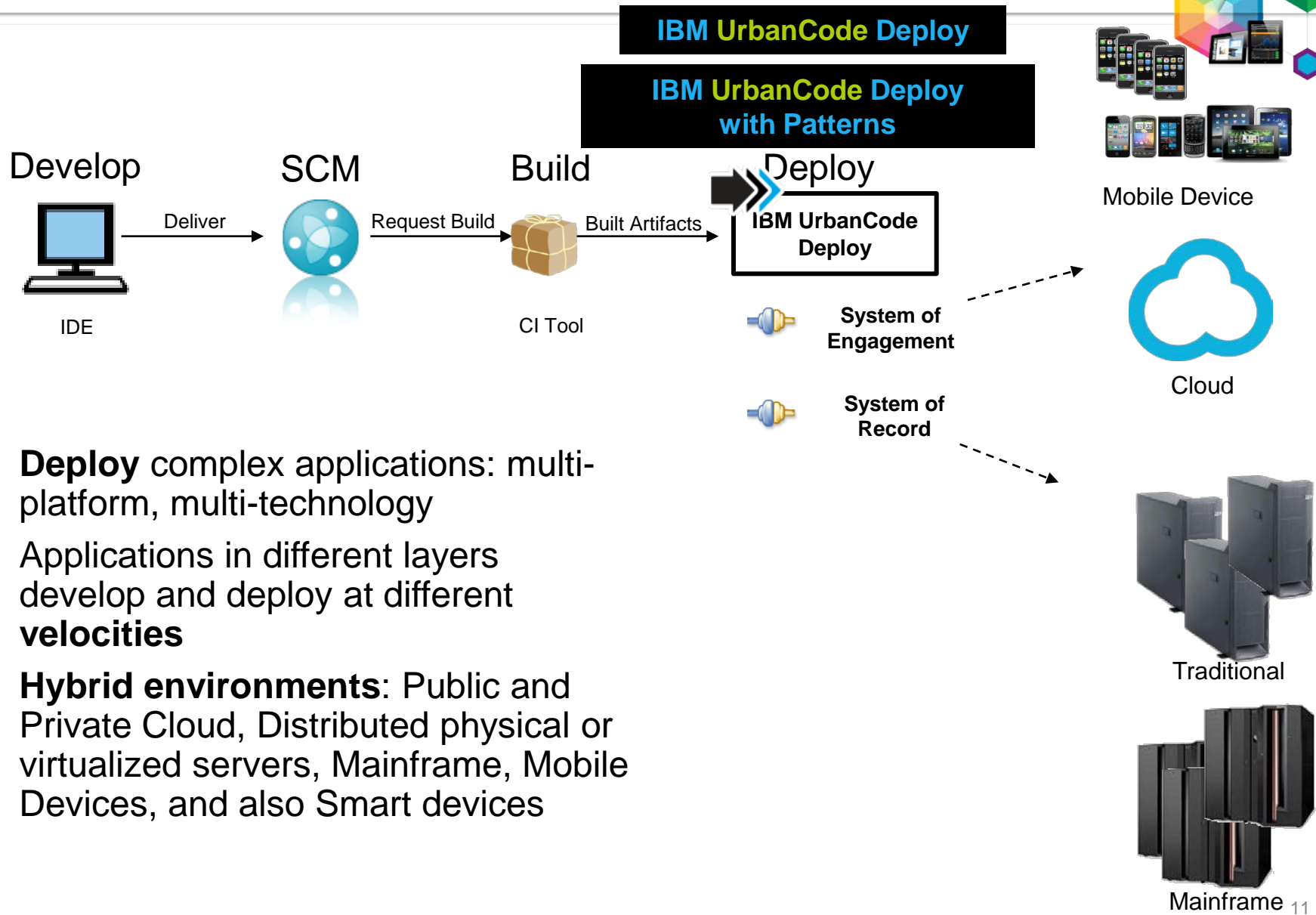
- § Governance & regulatory mandates.
- § “Commoditized IT “
- § Needs to accelerate application delivery from dev > test > production
- § Production environments have to be on-premise.



Managing workloads across the lifecycle requires orchestration



Application Deployment to Hybrid Environments



- **Deploy** complex applications: multi-platform, multi-technology
- Applications in different layers develop and deploy at different **velocities**
- **Hybrid environments**: Public and Private Cloud, Distributed physical or virtualized servers, Mainframe, Mobile Devices, and also Smart devices

#ibminterconnect

Thank You

