



Module 1: IBM Bluemix overview

Basics of the IBM cloud platform as a service

IBM® Bluemix™: IBM's cloud platform

Build, run, scale, manage, integrate, and secure applications in the cloud.

Developer experience

- Rapidly deploy and scale applications in any language.
- Compose applications quickly with useful APIs and services and avoid tedious backend configuration.
- Realize fast time-to-value with simplicity, flexibility, and clear documentation.



Built on a foundation of **open technology**

Enterprise capability

- Securely integrate with existing on-premises data and systems.
- Choose from flexible deployment models.
- Manage the full application lifecycle with DevOps.
- Develop and deploy on a platform built on a foundation of open technology.

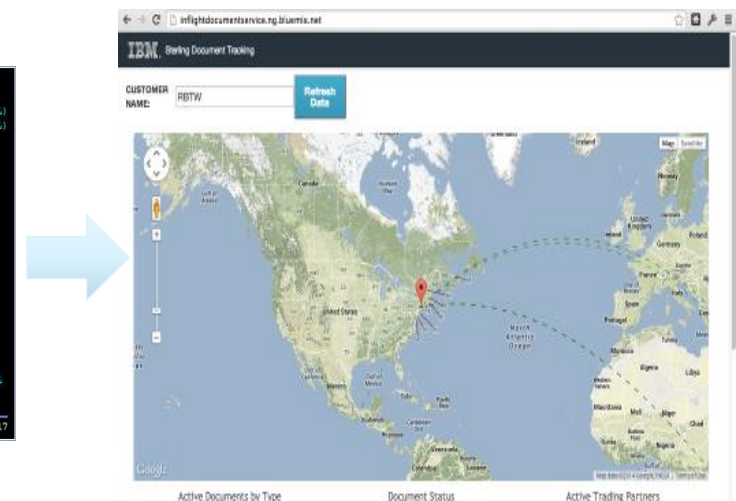
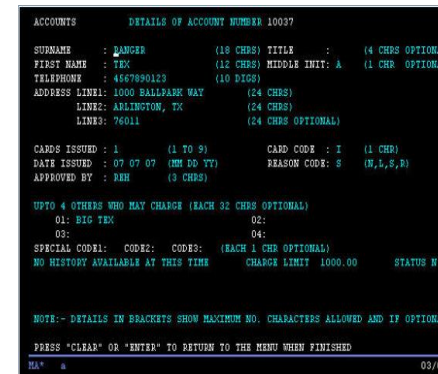
Bluemix service categories

- | | | |
|----------------------|-----------------------|----------------------------------|
| • DevOps | • Database | • API management and integration |
| • Big data | • Web and application | |
| • Mobile | • Security | |
| • Watson | • Internet of Things | |
| • Business analytics | • Cloud integration | |

Addressing many types of use cases

- Extend existing applications

- Add user experience such as mobile, social
- Add new capabilities integrating other services and APIs
- Do rapid experimentation for new capabilities



- API-enable applications

- Scalable API layer on top of existing services
- Simplify how composite service capabilities are exposed through APIs



Backend Systems and Integration



API Creation and Management



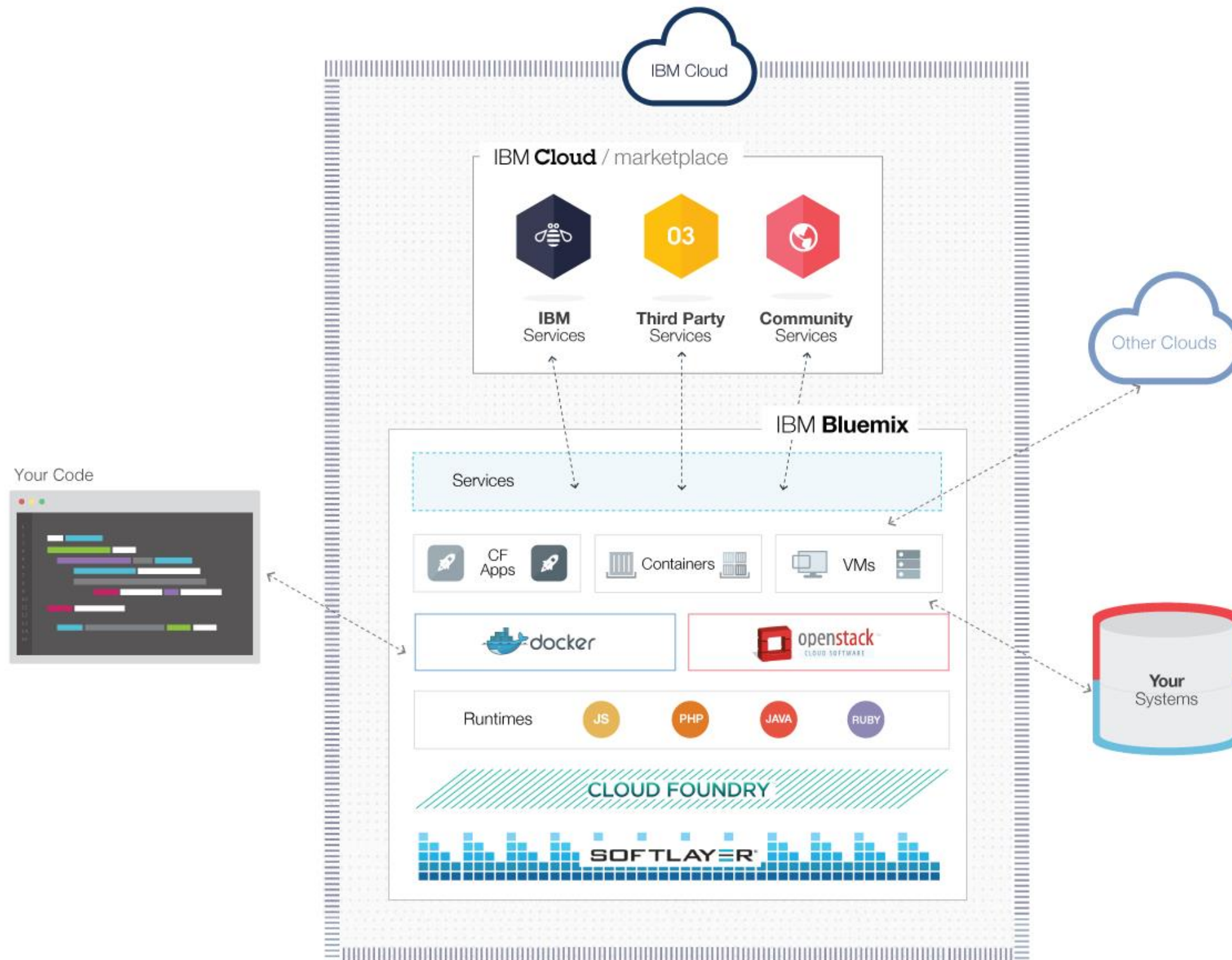
New Channels and Opportunities

- New applications

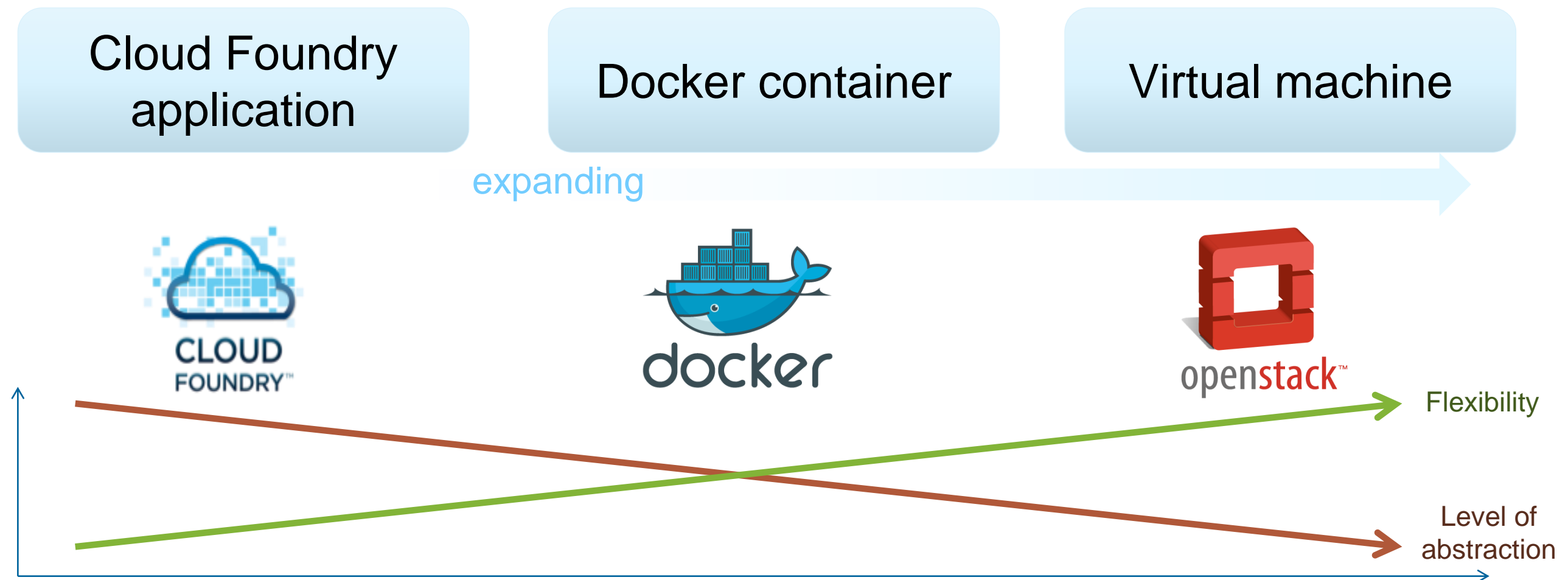
- Systems of Engagement
- Different state management models
- Twelve-factor applications



Bluemix structure



Bluemix offers different compute models to “run your code”

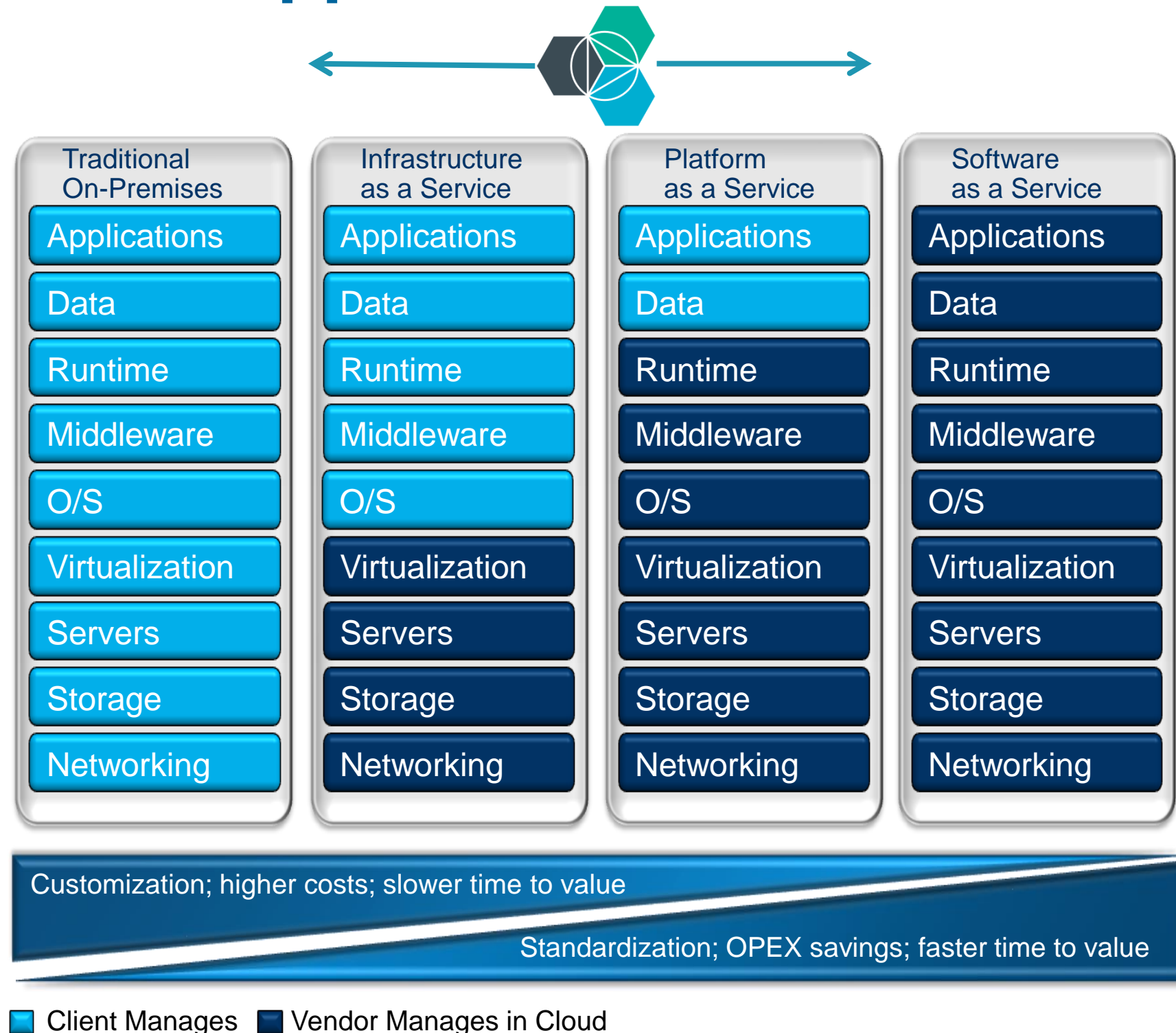


Consistent experience:

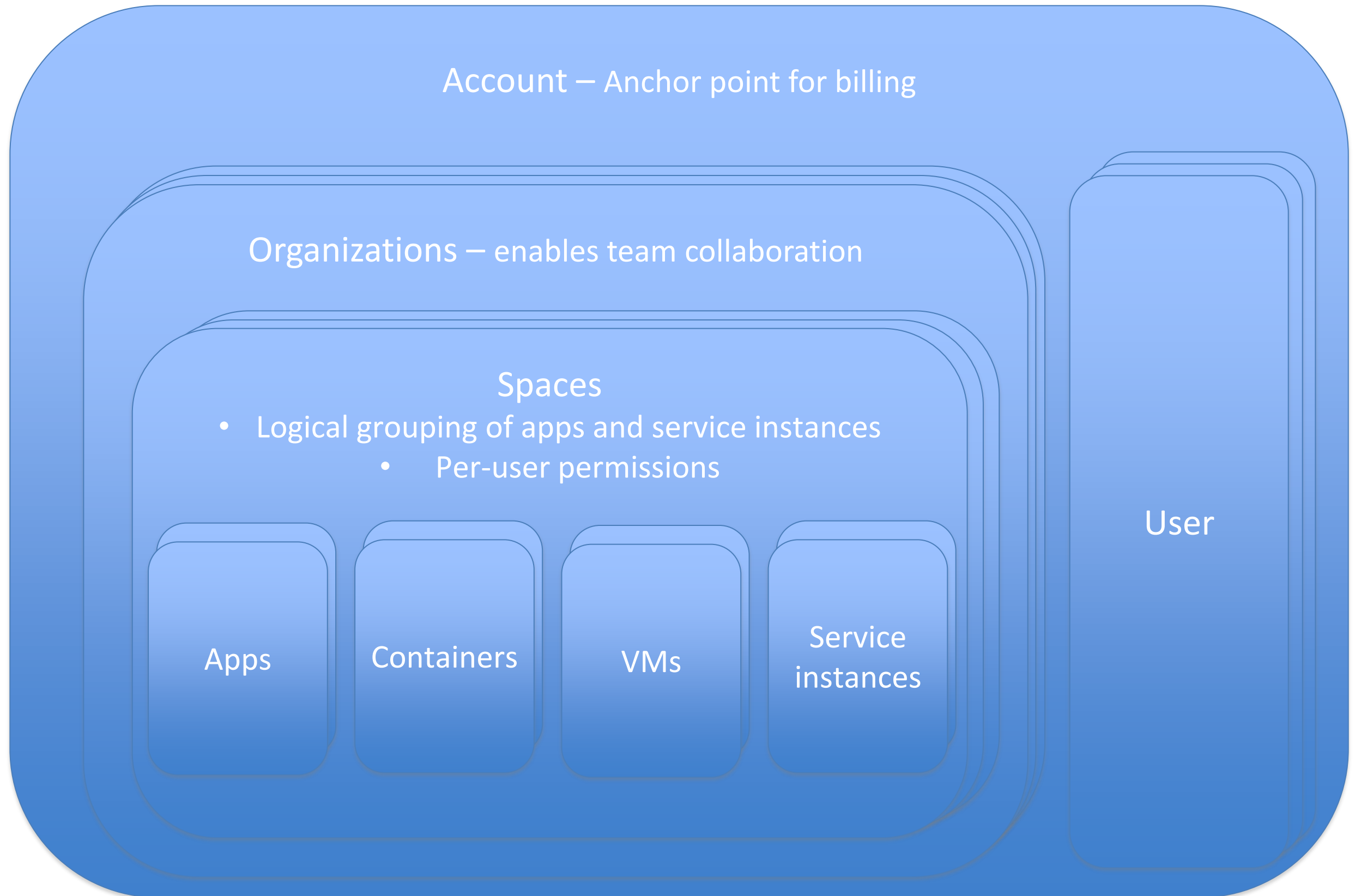
- Common service binding and consumption model
 - Common user ID and permissions model
 - Ability to hook into common routing layer

A PaaS helps developers focus on what's most important to them: The application

- **Bluemix eliminates and dramatically simplifies various tasks:**
- OS patching
- OS security hardening
- Deployment
- Load-balancing
- Scaling
- Health management

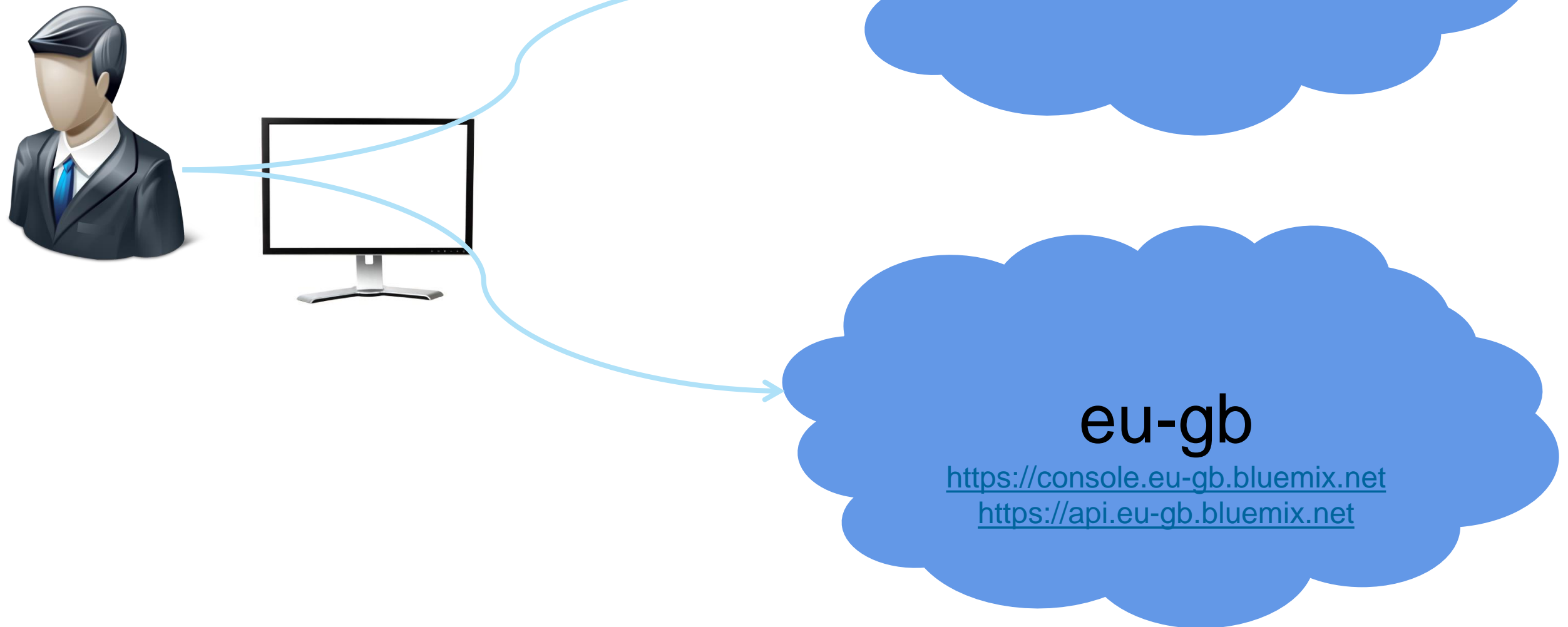


Bluemix: foundational concepts



Regions

- Dedicated Cloud Foundry installation and services
- Maximum isolation from entities in other regions



Building increasingly flexible deployment models

