



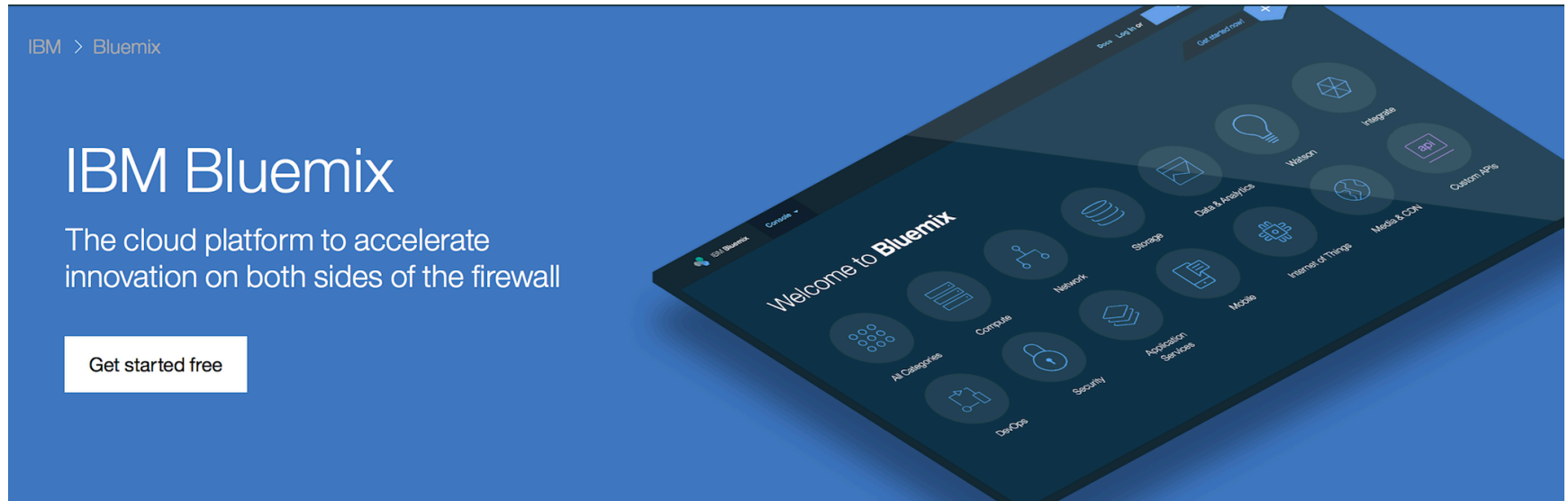
IBM BLUEMIX

**INTRODUCTION TO
COMPUTE**

- SRIKANTH K MURALI, IBM



IBM Bluemix



- ❖ Built on a foundation of open technology – Cloud Foundry, Open Stack and more..
- ❖ Build, run, scale, manage, integrate and secure applications in the cloud



IBM Bluemix Cloud Platform

Developer Experience

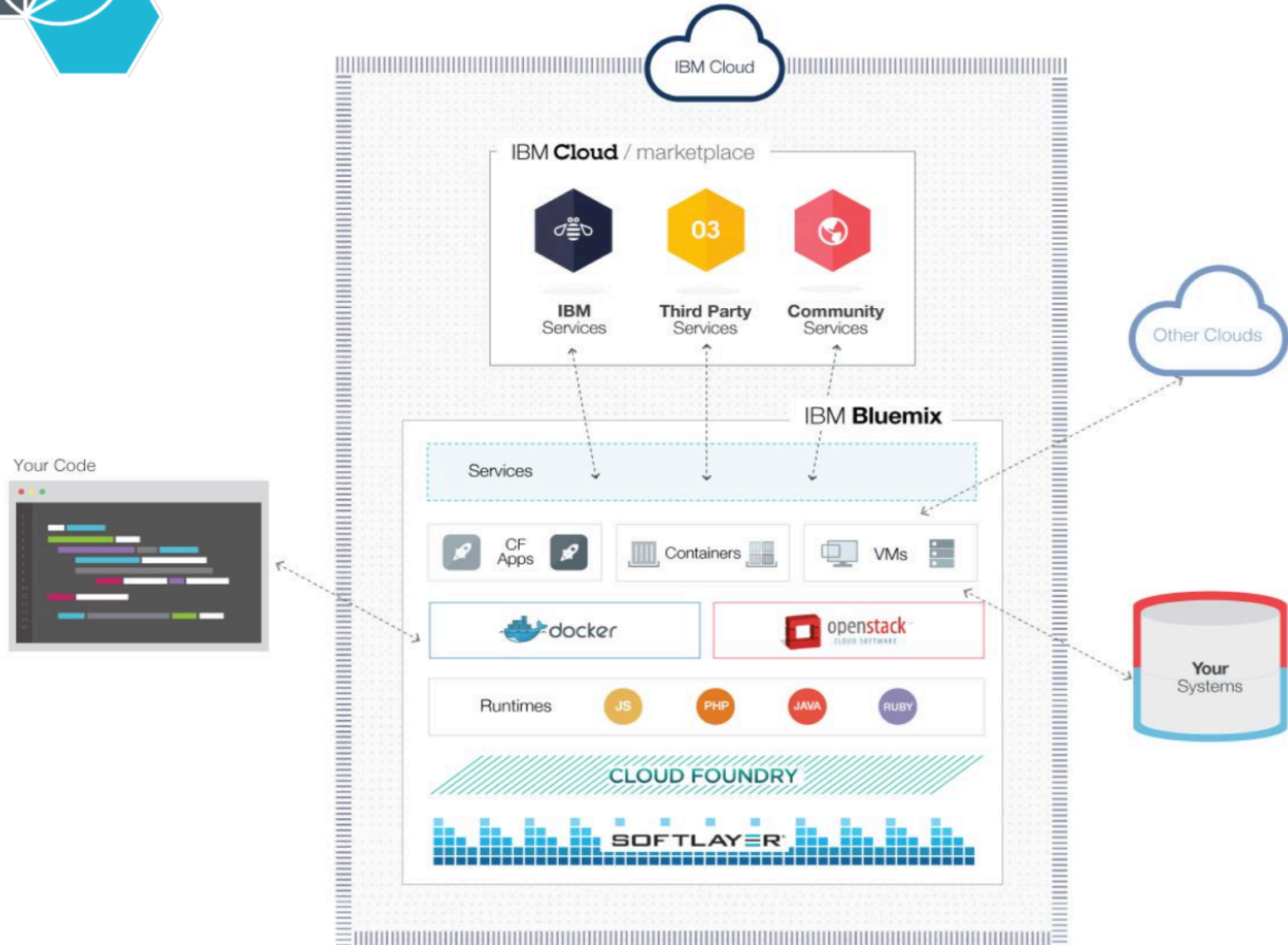
- Rapidly develop application in any language
- Realize fast time-to-value and scale

Enterprise Capability

- Securely integrate with existing on-premises data & system
- Manage the full application lifecycle using DevOps



Bluemix Structure





Bluemix Compute



Cloud Foundry Applications

Deploy your app without managing underlying infrastructure.



IBM Containers

Portable and consistent delivery of your app without having to manage an OS.



IBM Virtual Servers

A higher degree of customization, transparency, predictability, and

Beta



Bluemix Compute

Cloud Foundry
application

Docker container

Virtual machine

expanding

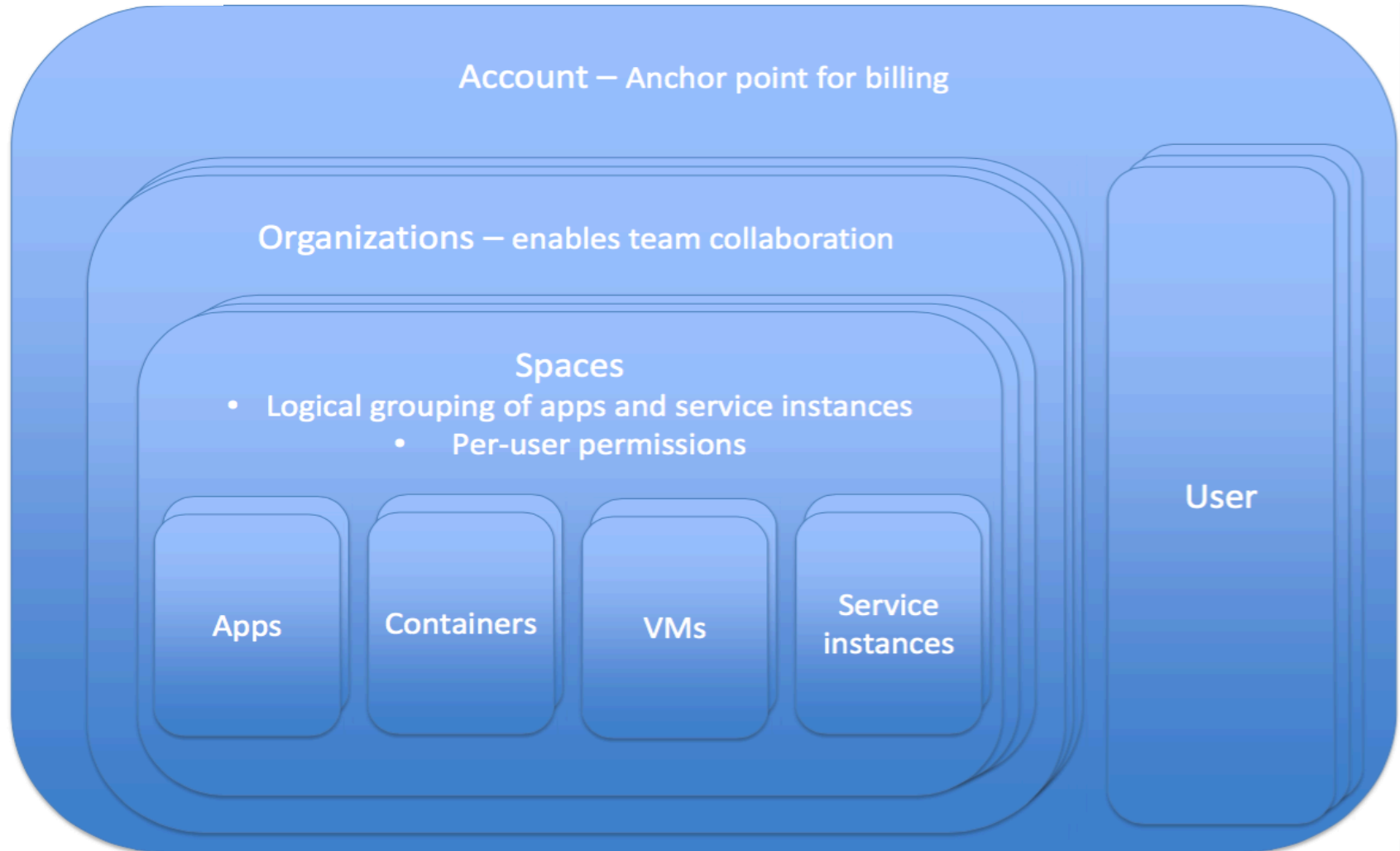


Flexibility

Level of
abstraction



Bluemix Fundamentals















Cloud Foundry Application

- Provides support to deploy apps of various runtimes.

Runtimes

 Liberty for Java™ Develop, deploy, and scale Java web apps IBM	 SDK for Node.js™ Develop, deploy, and scale server-side IBM	 XPages Develop, deploy and scale IBM XPages IBM
 ASP.NET Core Develop, deploy, and scale ASP.NET Core Community Beta	 Go Develop, deploy, and scale Go web apps Community	 PHP Develop, deploy, and scale PHP web apps Community
 Python Develop, deploy, and scale Python web Community	 Ruby Develop, deploy, and scale Ruby on Rails Community	 Swift A simple Swift application that will g Community Beta
 Tomcat Develop, deploy, and scale Tomcat web		



Cloud Foundry Services

- Provides a large range of services that can be used to build your application



Compute



Network



Storage



Data &
Analytics



Watson



Internet of
Things



APIs



DevOps



Security



Application
Services



Mobile



Integrate



Cloud Foundry Services

- Provides a large range of services that can be used to build your application



Compute



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Watson



Internet of
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APIs



DevOps



Security



Application
Services



Mobile



Integrate



Cloud Foundry Application

How do you want to start coding?



Eclipse Tools for Bluemix

Develop, integrate, and push applications to Bluemix using Eclipse.



Command Line Interface

Run your code locally.
Manually push to Bluemix.



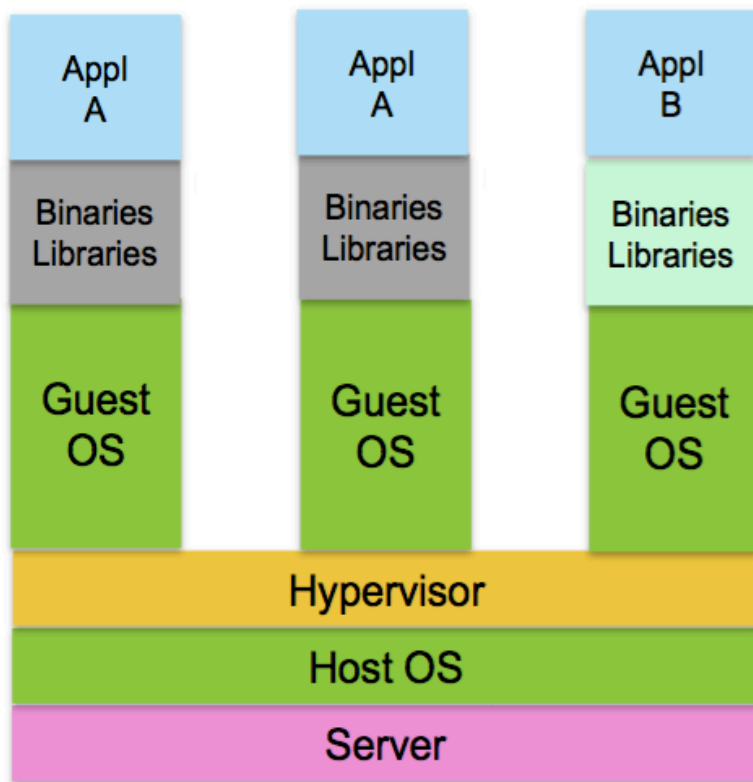
Git

Deploy your app with the Git CLI,
or use Bluemix DevOps Services.

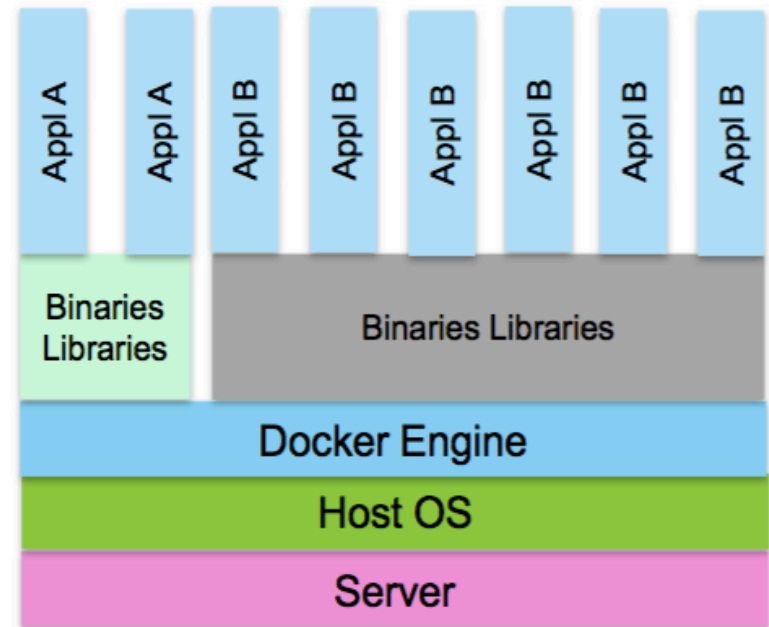


Containers & VMs

VM



Docker





References

- <http://www.ibm.com/cloud-computing/bluemix/compute/>
- <http://www.ibm.com/developerworks/learn/cloud/index.html>
- <https://developer.ibm.com/courses/all-courses/bluemix-essentials/>
- <https://blog.docker.com/2016/03/containers-are-not-vms/>

THANK you