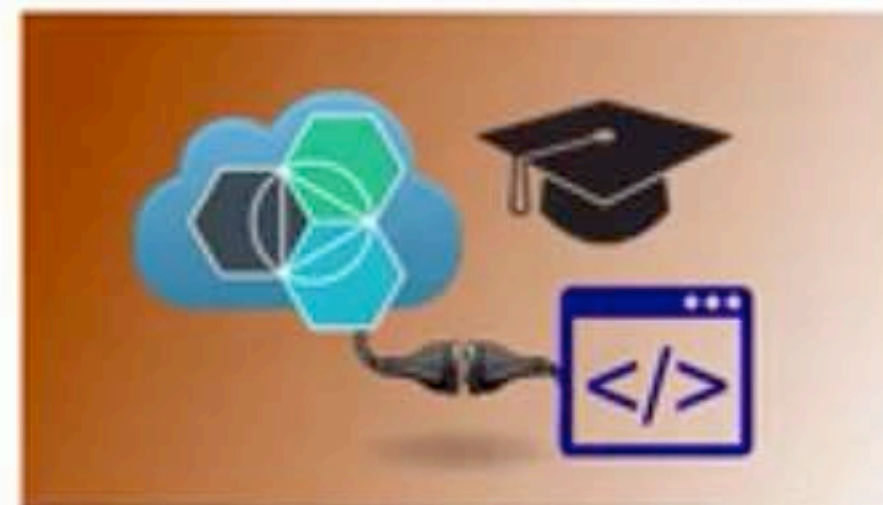


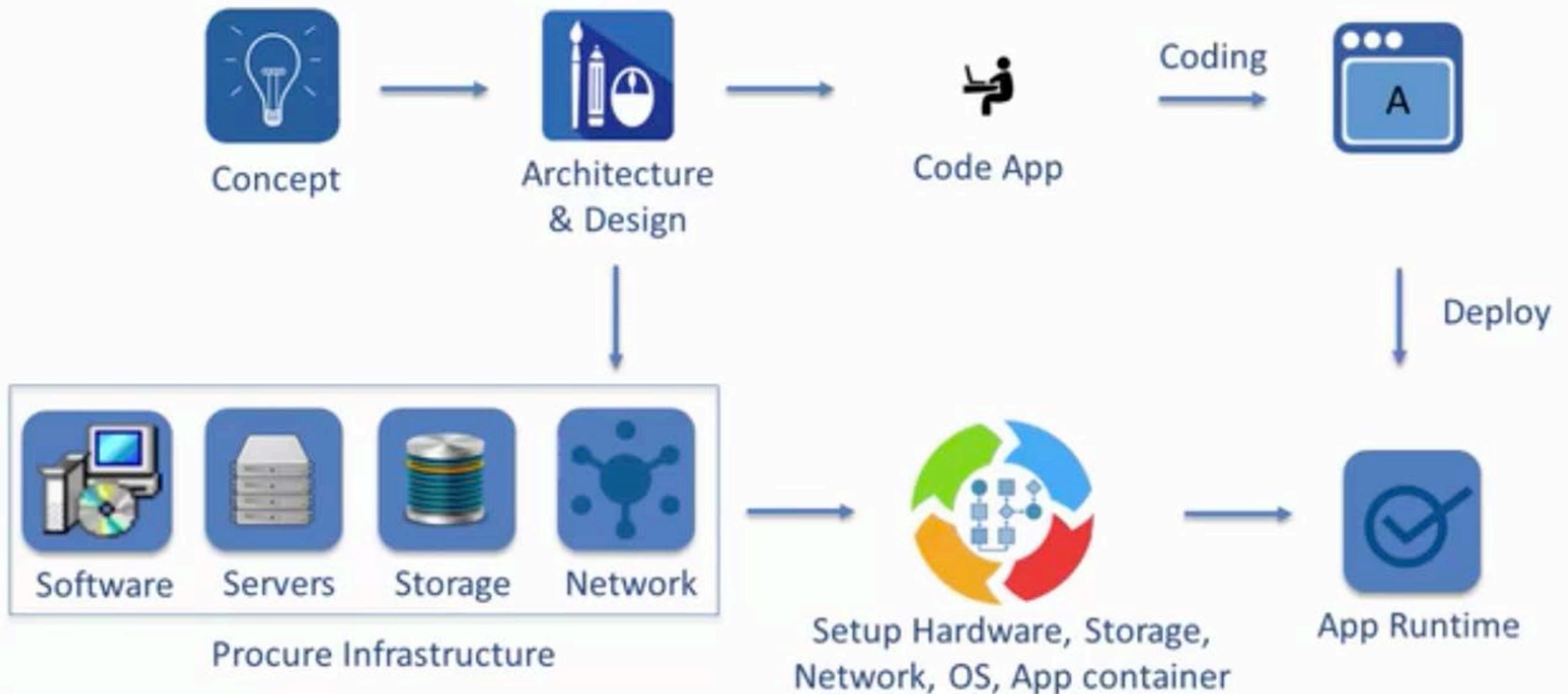
Bluemix Capabilities



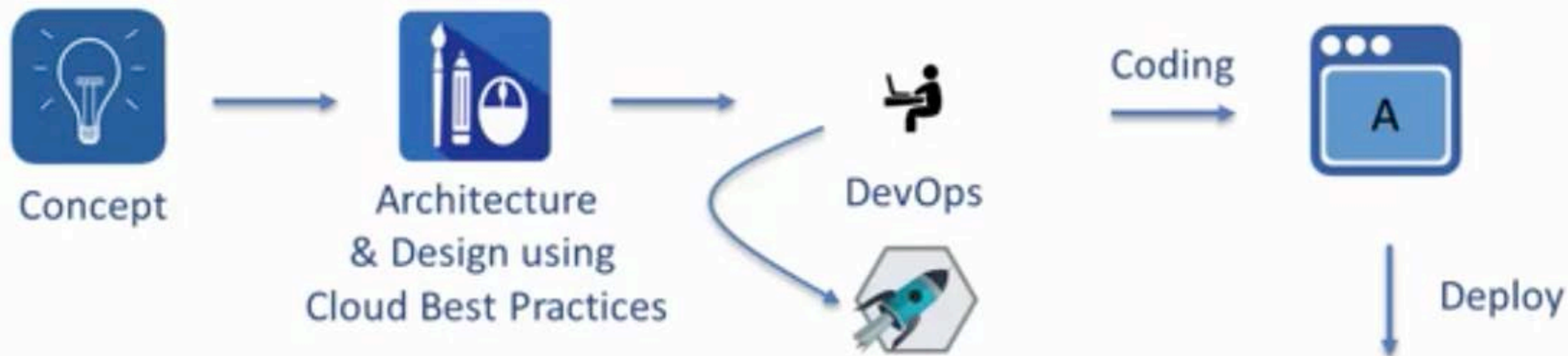
Learning Objectives:

1. Traditional vs Bluemix way of application development
2. Know the capabilities of Bluemix
3. Understand the Services
4. Explain the Bluemix Regions

Traditional Application Development



Applications Development - Bluemix



- Applications are portable due to open standards
- Applications get deployed to the Bluemix Runtime
- Applications can leverage readily available services & API on the Bluemix platform



What is Bluemix?

- IBM Bluemix is an open-standards, cloud platform for building, running, and managing applications
- With Bluemix, developers can focus on building excellent user experiences
 - Flexible compute option
 - Choice of DevOps tooling
 - IBM and third party API & Services

Flexible deployment & compute options

Instant Runtimes

App-centric runtime environments based on Cloud Foundry.



Containers

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



Virtual Machines

Get the most flexibility and control over your environment with VMs.





Bluemix DevOps services

- IBM Bluemix DevOps is a Software As A Service (SaaS) to support continuous delivery
- Using DevOps services you can:
 - Develop, Track, Plan application
 - Deploy applications
 - Collaborate with the team

Bluemix Services & API

- Applications built for Bluemix platform can leverage the services and API available on the platform
 - IBM Services
 - Third party services
 - Community
 - Beta
 - Experimental
- Service available under multiple categories
 - Watson
 - Mobile
 - DevOps
 - Web & Application
 - Integration
 - Data & Analytics
 - Security
 - IoT
 - Business Analytics
 - Experimental

Bluemix Regions

- A geographical territory that you can deploy your apps to

| Region name | Region prefix | cf API endpoint | UI console |
|------------------------------|---------------|------------------------|----------------------------|
| US South region | us-south | api.ng.Bluemix.net | console.ng.Bluemix.net |
| Europe United Kingdom region | eu-gb | api.eu-gb.Bluemix.net | console.eu-gb.Bluemix.net |
| Australia Sydney region | au-syd | api.au-syd.Bluemix.net | console.au-syd.Bluemix.net |

- Deploy your applications to multiple regions for:
 - High availability
 - Lower latency
 - Compliance & Security

Summary

- Runtimes , Containers & Virtual Machines (VM)
- Bluemix offers DevOps tools – Develop, Track, Plan, Collaborate, Deploy
- Applications can leverage services available from IBM, Third party, Open source community
- There are 3 Bluemix regions – applications may be deployed to any number of regions

