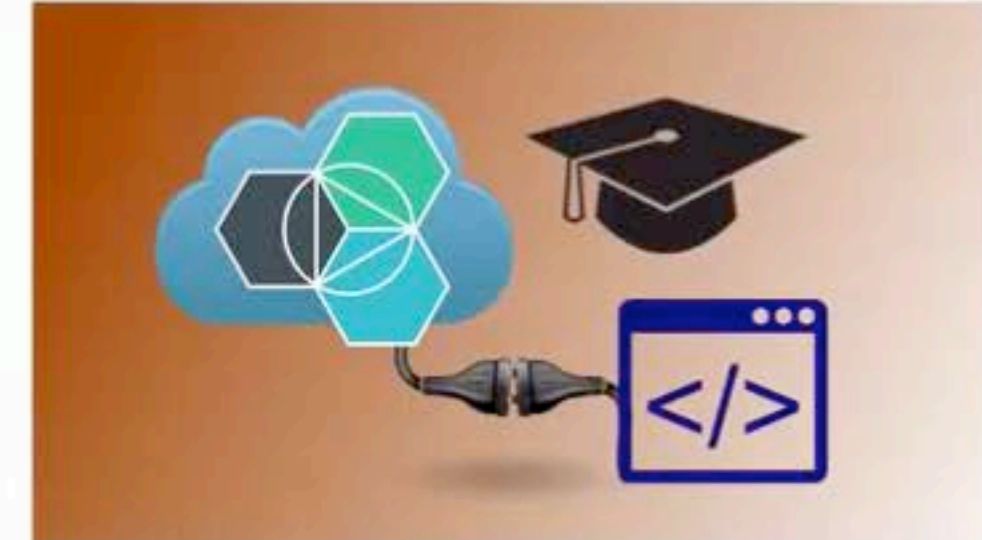


Cloud Foundry - Intro

Learning Objectives:

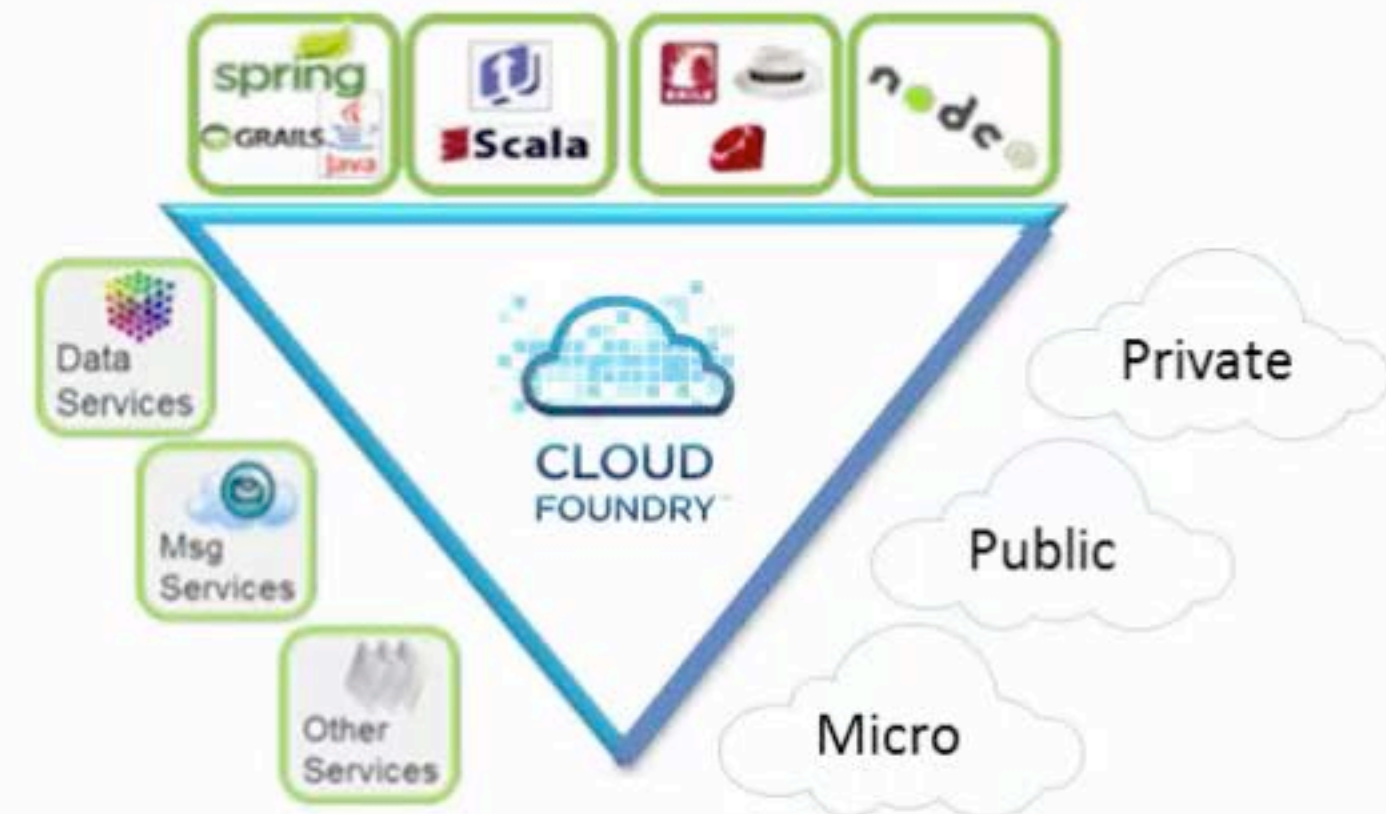
1. What is Cloud Foundry?
2. Cloud Foundry - Benefits
3. Terminology:

Buildpacks, Droplet, Droplet Execution Agent, Cloud Controller



Cloud Foundry ?

- PaaS implementation requires complex software to manage the application lifecycle.
- Cloud Foundry is an Open source PaaS



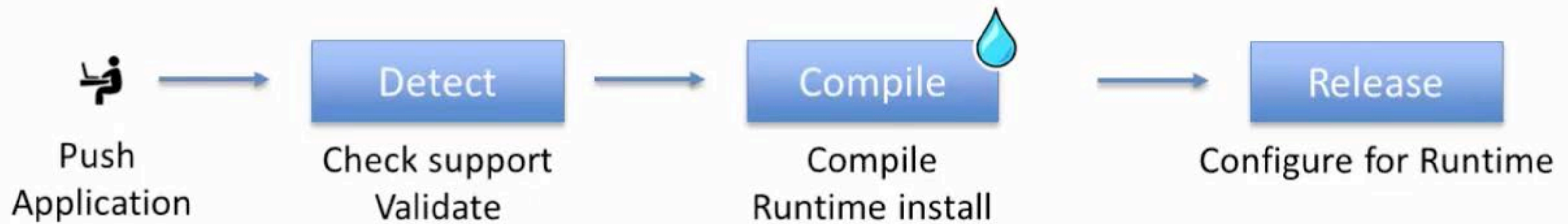


Benefits of Cloud Foundry's openness

1. Developer are not restricted to specific framework; supports multiple languages such as Node, Java, PHP,
2. Developers are not locked to a single cloud. Multiple clouds support CF
3. Applications may be created and deployed on CF without a need for investment in new tools
4. Existing applications may be ported to CF with zero modifications

CF Buildpacks, Droplet

1. **Buildpacks** provide framework and runtime support for the applications



2. **Droplet** is an executable that is deployed as an application on the Cloud Foundry PaaS

Droplet Execution Agent (DEA)

Droplet Execution Agent manages the application instances

- Stages the application by selecting a Buildpack
- Manages the lifecycle of the Droplet/application
- Publishes the health of the application

Cloud Controller

Cloud Controller provides the management interface for the cloud

- REST API e.g., for pushing the application, start & stop
- Maintains a database of spaces, organizations, services, users, roles

Summary

