Week 3: Persistence

Unit 5: Deploying the Application to Cloud Foundry

Deploying the Application to Cloud Foundry

Backing services – Create and connect in Cloud Foundry

List available services

$ cf marketplace

service	plans	description
hana	hdi-shared	HANA in-memory database
postgresql	v9.4-dev	PostgreSQL database

Create service instance (in your space)

$ cf create-service postgresql v9.4-dev my-database

Bind service instance (effective after app restart)

$ cf bind-service my-app my-database

Warning: cf delete-service deletes all database data!

Deploying the Application to Cloud Foundry
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Deploying the Application to Cloud Foundry

Using a backing service: cf bind-service
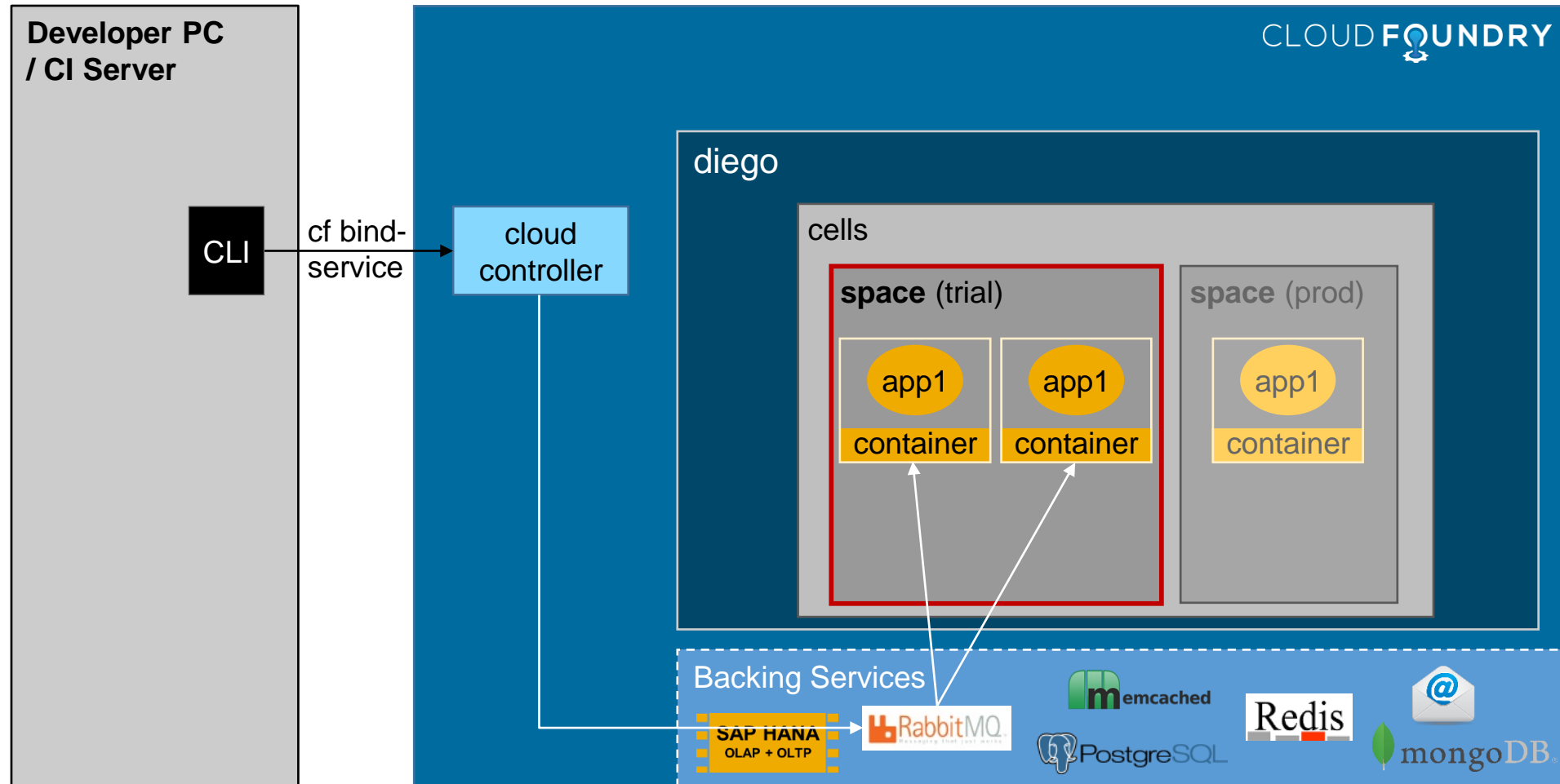
CF Docs –
Services Overview

Deploying the Application to Cloud Foundry

Backing services – Usage in microservice

By binding a service, Cloud Foundry provides the credentials necessary to connect to the service instance via an **environment variable**.

Example:

```
$ cf  env my-app

"VCAP_SERVICES": {
    "postgresql": [{
        "credentials": {
            "dbname": "random-db-name",
            "hostname": "10.1.2.3",
            "password": "secret-pw",
            "username": "random-user-name"
    [...]
```

[CF Docs – Cloud Foundry Environment Variables](#)

Deploying the Application to Cloud Foundry
Exercise 10

Exercise 10:
Deploy Ads on Cloud Foundry
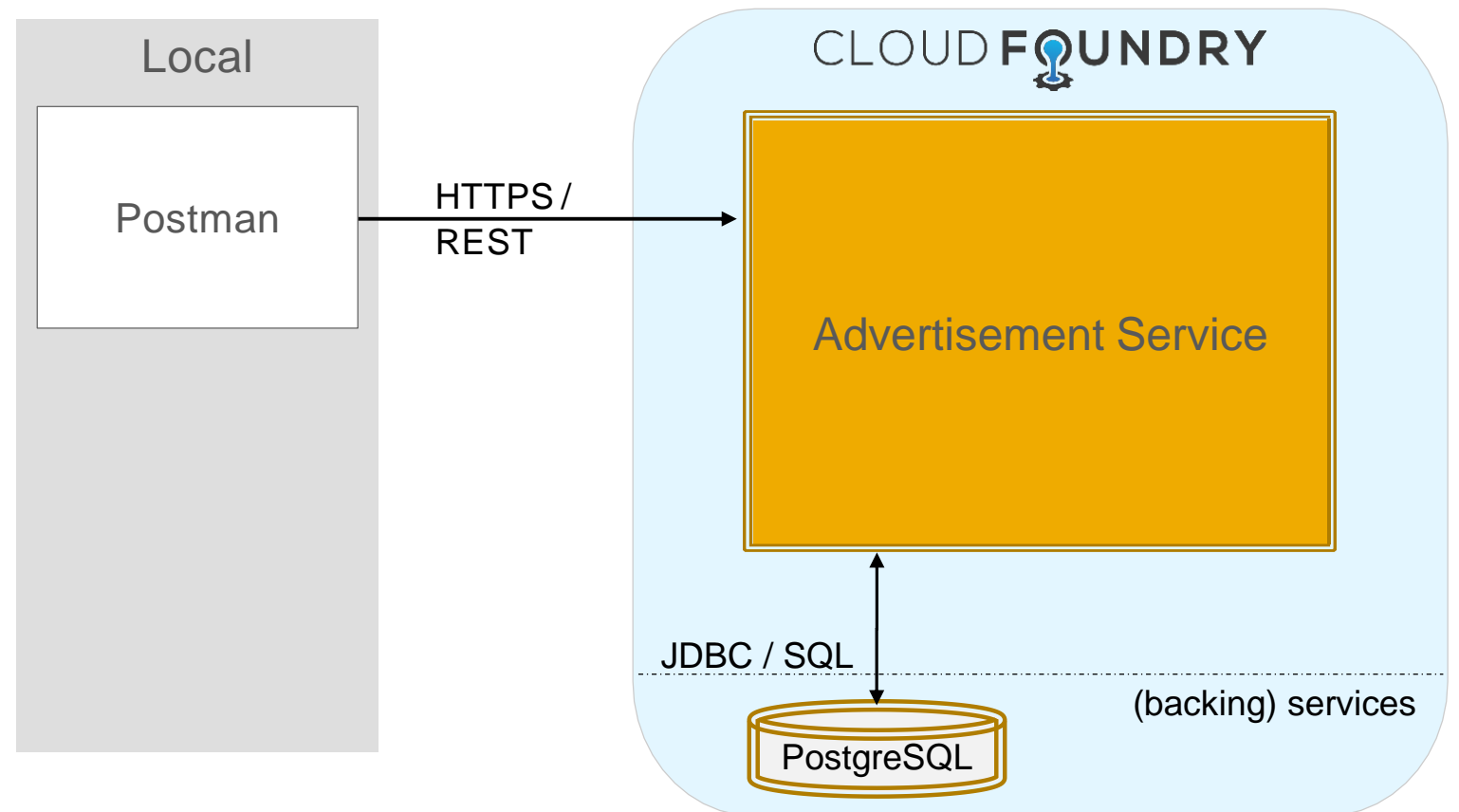
Deploying the Application to Cloud Foundry

Review of sample solution
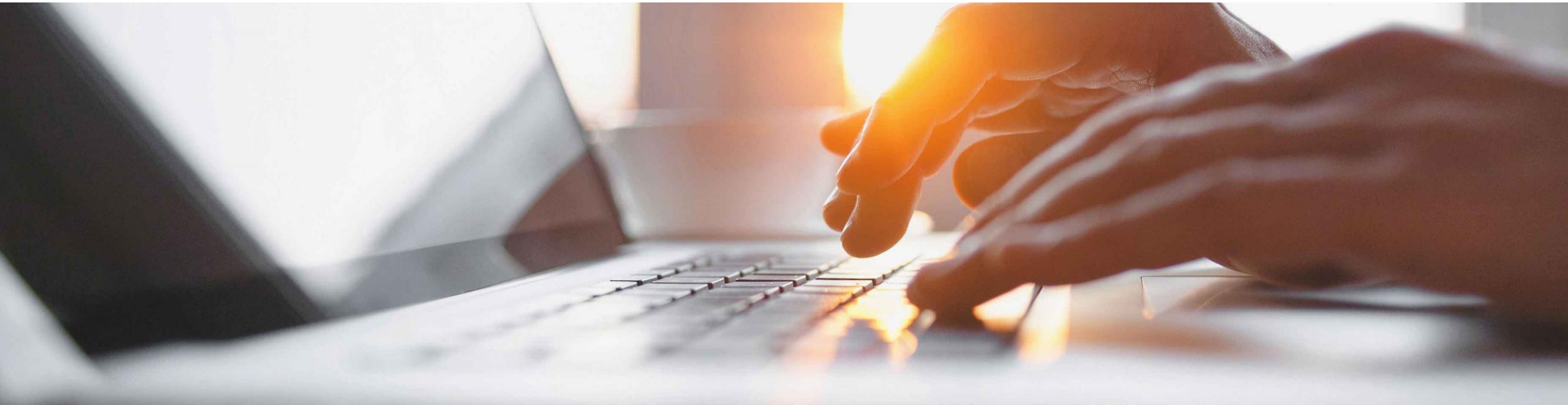
Deploying the Application to Cloud Foundry
Further reading

- CF Docs – Services Overview
- CF Docs – Cloud Foundry Environment Variables
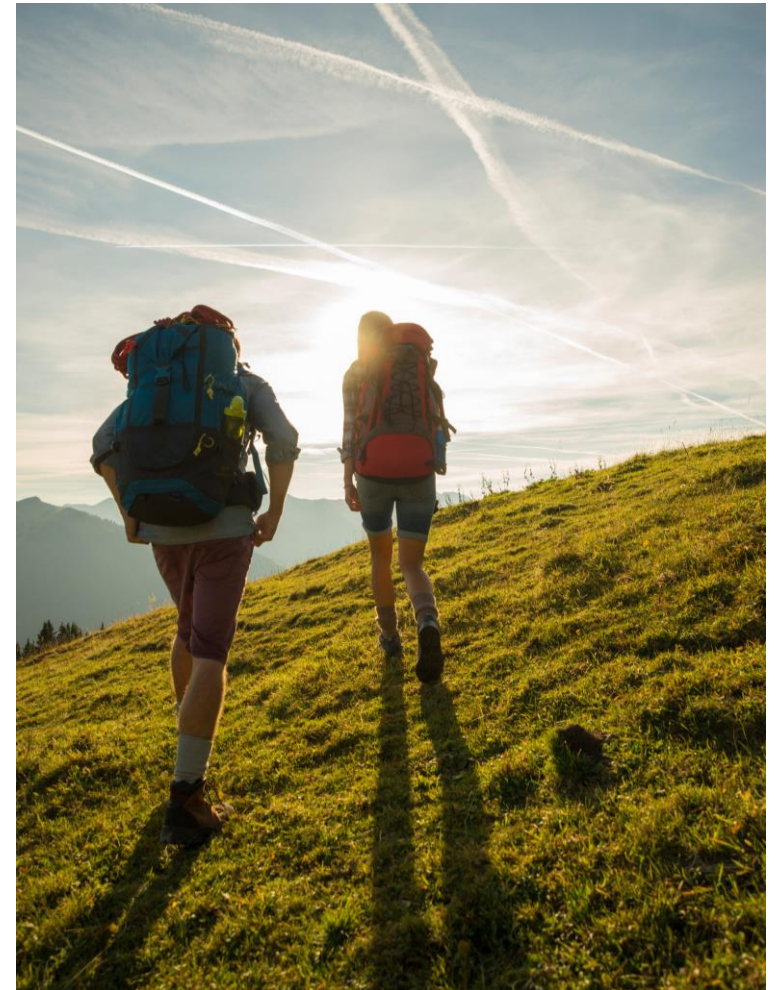
Deploying the Application to Cloud Foundry

What you've learned in this unit

- Backing service instances in Cloud Foundry
  - How to create them
  - How to bind them to applications
  - How to delete them
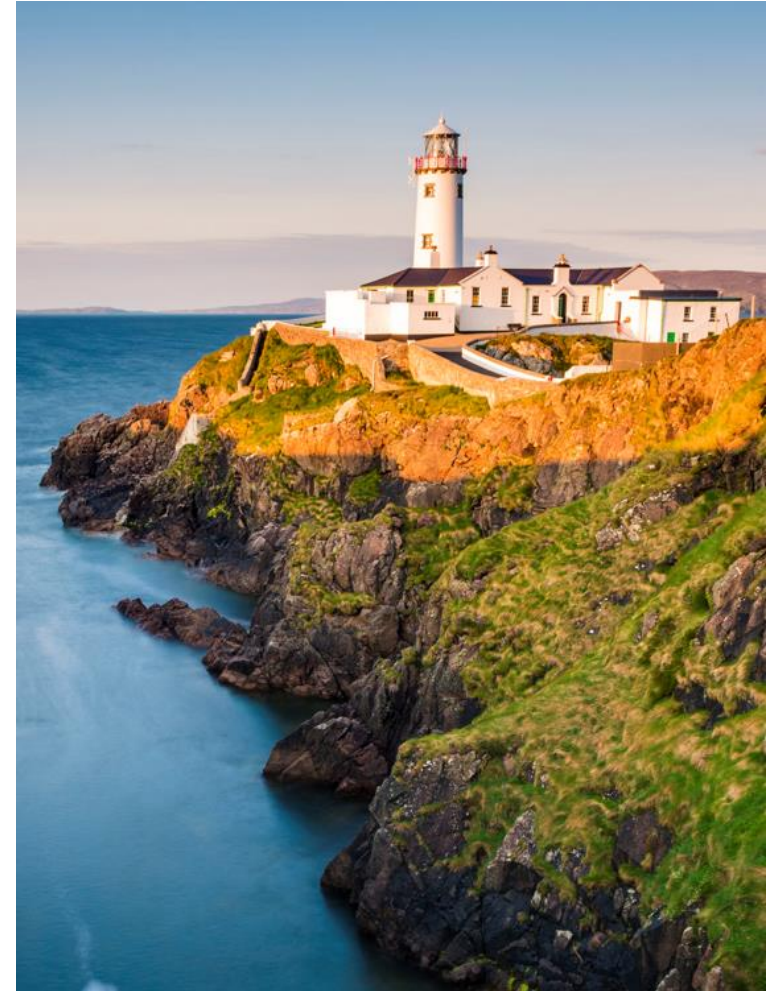
Thank you.

Contact information:

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