



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
```

<u>service</u>	<u>plans</u>	<u>description</u>
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!

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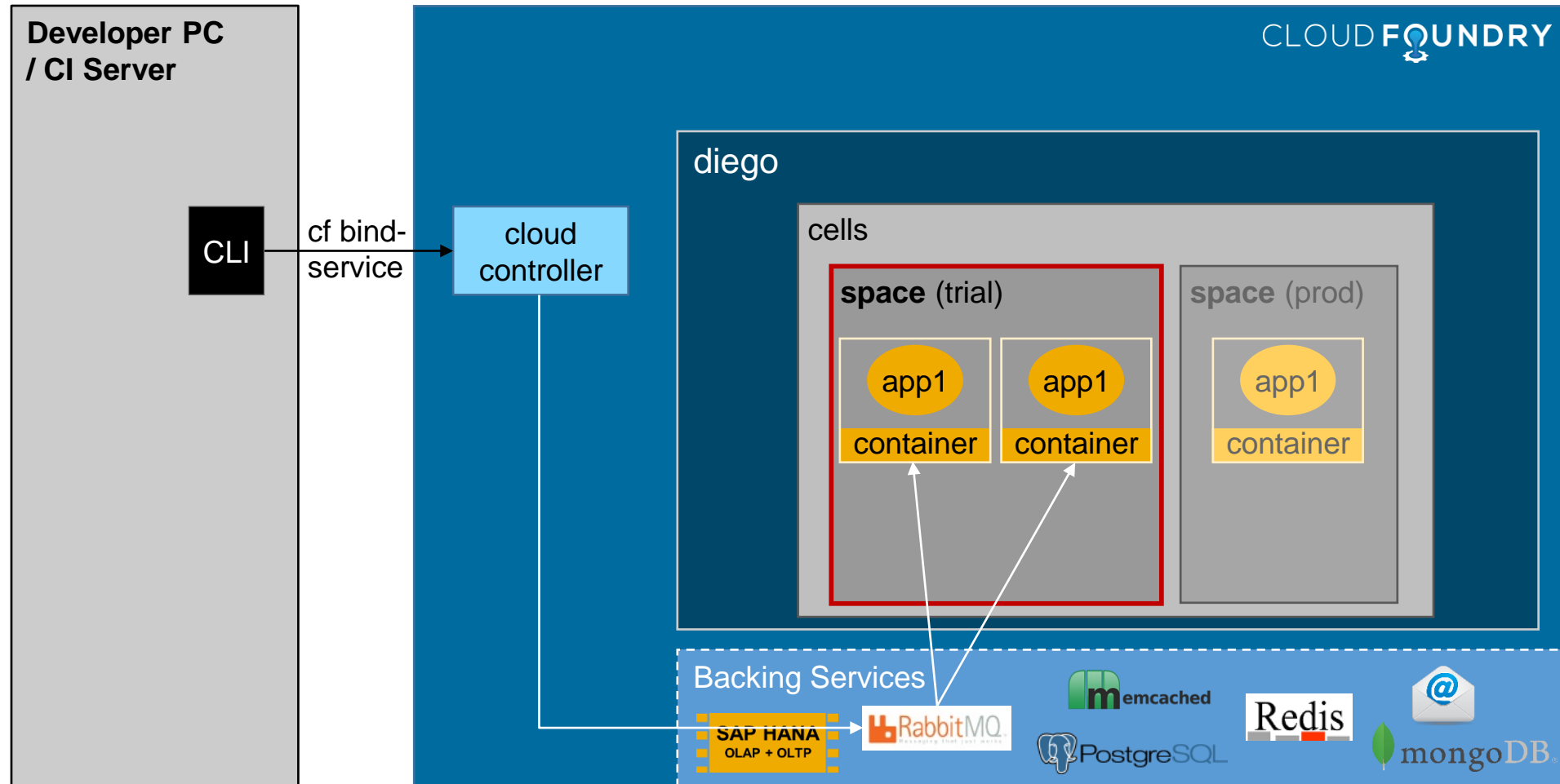
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Deploying the Application to Cloud Foundry

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"  
    }  
  ]  
}
```



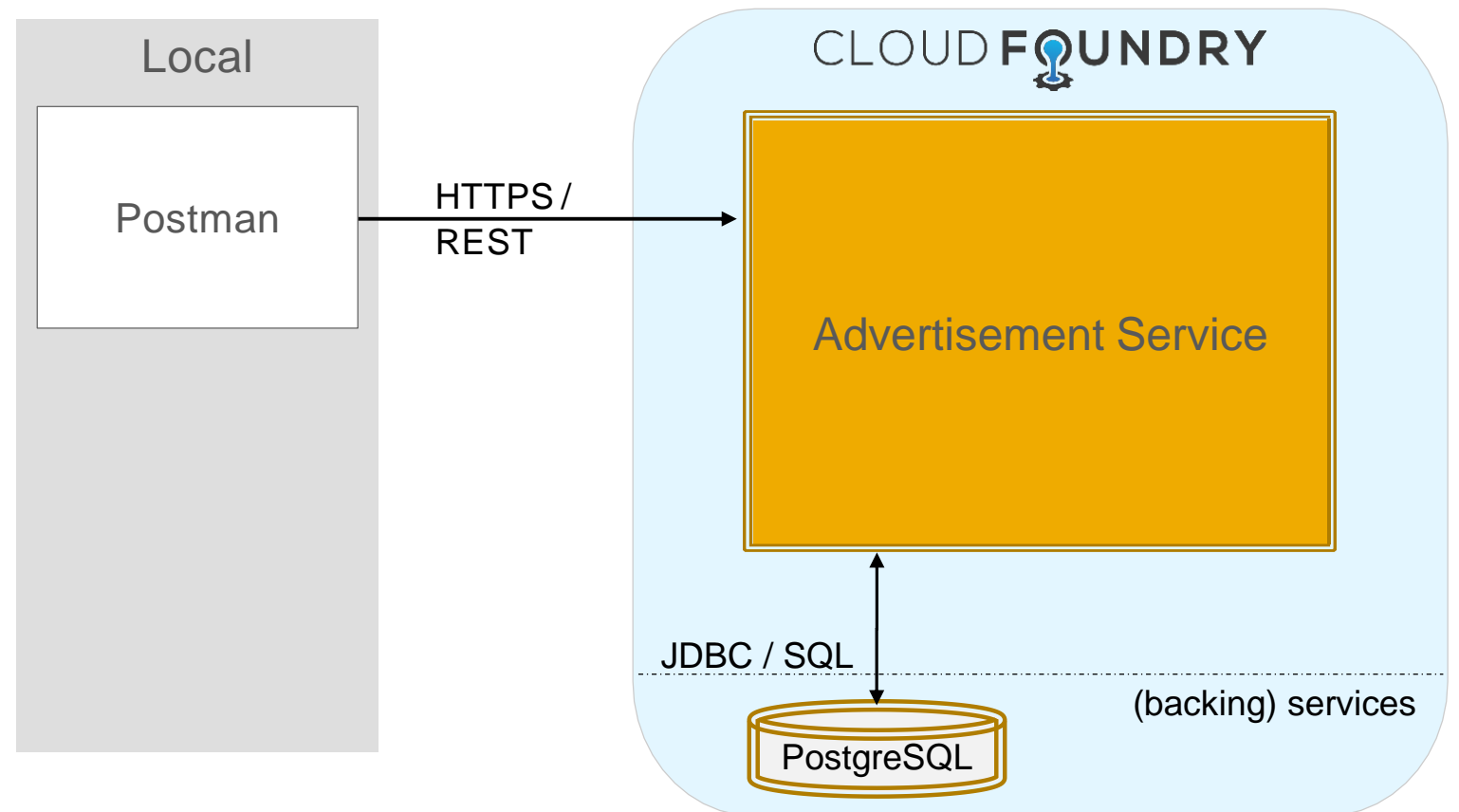
[CF Docs –
Cloud Foundry
Environment Variables](#)

Deploying the Application to Cloud Foundry

Exercise 10

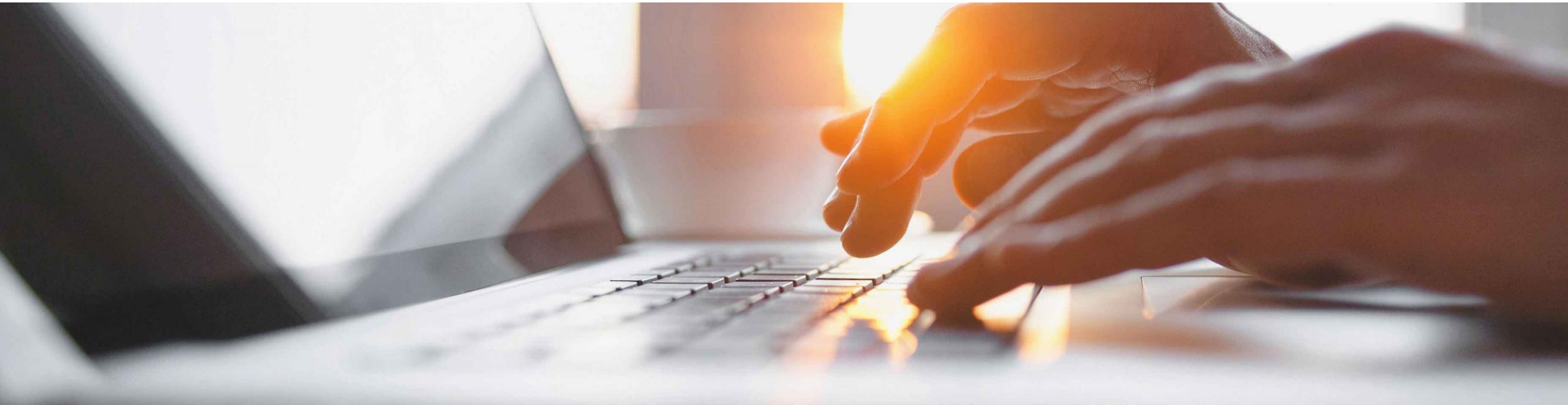


Exercise 10: Deploy Ads on Cloud Foundry



Deploying the Application to Cloud Foundry

Review of sample solution



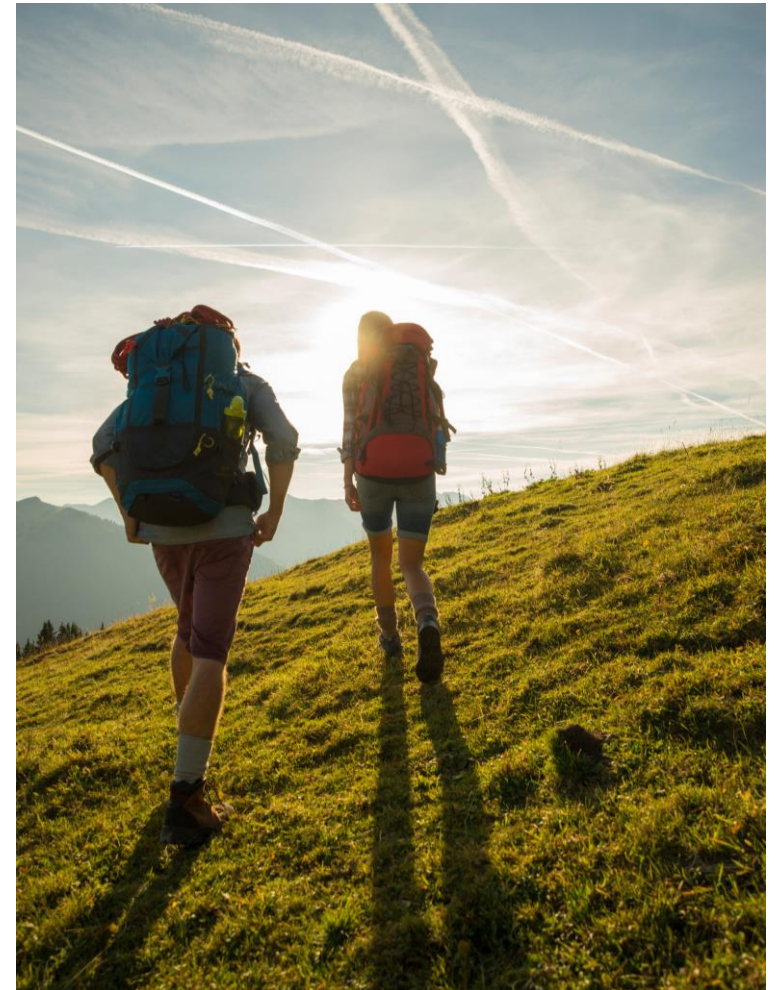
Deploying the Application to Cloud Foundry

Further reading



Additional Material

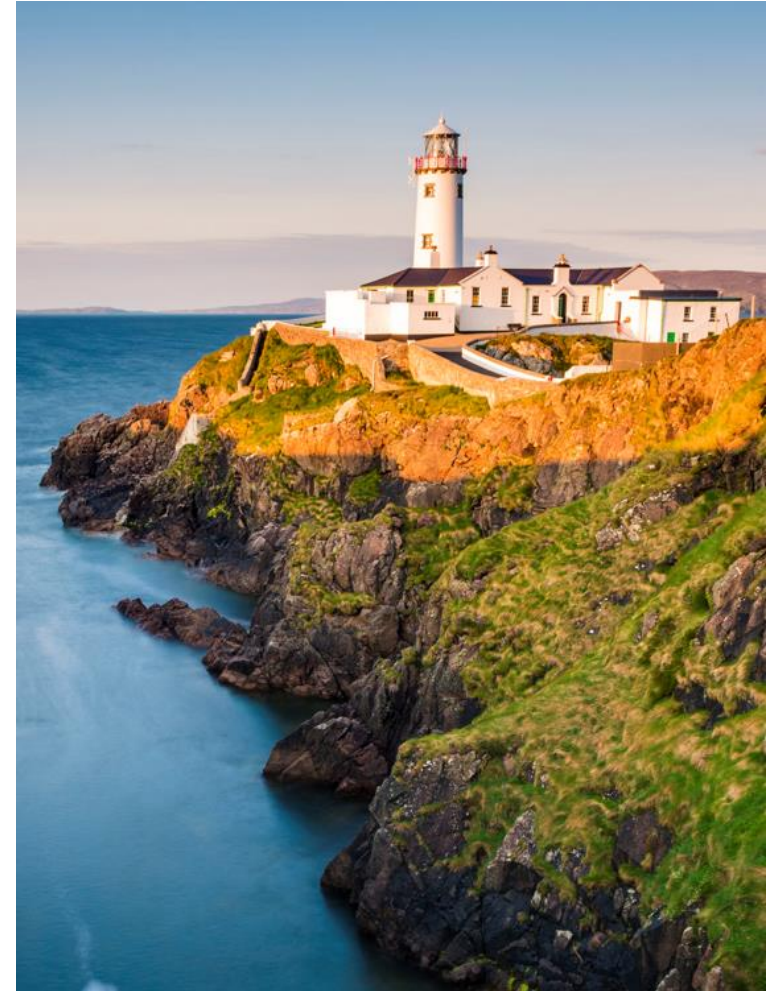
- [CF Docs – Services Overview](#)
- [CF Docs – Cloud Foundry Environment Variables](#)



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.

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