

Services

## Agenda

1. Cloud Native Apps
2. Managed Services
3. User Provided Service Instances

# The 12 Factors

Codebase

Dependencies

Config

Backing  
Services

Build, release,  
run

Processes

Port binding

Concurrency

Disposability

De/prod parity

Logs

Admin Processes

## Config

Store config in the environment.

<http://12factor.net/config>

## Backing Services

Treat backing services as attached resources.

<http://12factor.net/backing-services>

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## Marketplace

Managed services advertise a catalog of plans from which service instances can be provisioned.

mysql 100mb

redis dedicated

## Service

Manages service instance lifecycle.

creating  
binding  
unbinding  
deleting



## Service Instance

A reserved resource such as a database on a shared or dedicated system.

# VCAP\_SERVICES

```
"VCAP_SERVICES": {  
  "p-mysql": [  
    {  
      "credentials": {  
        "hostname": "10.68.104.83",  
        "jdbcUrl":  
"jdbc:mysql://10.68.104.83:3306/cf_58ad484c_f6c3_4f5f_8acc_e623bc8e302b?user=jlipqkmQqyaBlefS\u0026password=gm5o2PWsmyKqRn8y",  
        "name": "cf_58ad484c_f6c3_4f5f_8acc_e623bc8e302b",  
        "password": "gm5o2PWsmyKqRn8y",  
        "port": 3306,  
        "uri": "mysql://jlipqkmQqyaBlefS:gm5o2PWsmyKqRn8y@10.68.104.83:3306/cf_58ad484c_f6c3_4f5f_8acc_e623bc8e302b?reconnect=true",  
        "username": "jlipqkmQqyaBlefS"  
      },  
      "label": "p-mysql",  
      "name": "attendee-mysql",  
      "plan": "100mb-dev",  
      "tags": [  
        "mysql",  
        "relational"  
      ]  
    }  
  ]  
}
```

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        "name": "cf_58ad484c_f6c3_4f5f_8acc_e623bc8e302b",  
        "password": "gm5o2PWsmyKqRn8y",  
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## User Provided Service Instance

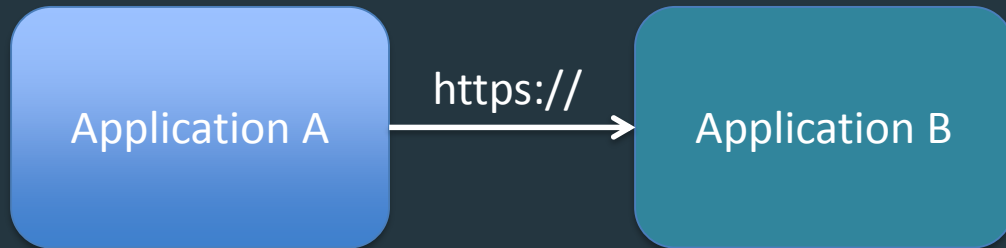
Enable developers to use services that are not available in the Marketplace with their applications running on Pivotal Cloud Foundry.

Oracle

DB2

## User Provided Service Instance

Also used for application to application binding.



# VCAP\_SERVICES

```
"VCAP_SERVICES": {  
  ...  
  "user-provided": [  
    {  
      "credentials": {  
        "uri": "oracle://root:secret@dbserver.example.com:1521/mydatabase"  
      },  
      "label": "user-provided",  
      "name": "oracle-db",  
      "syslog_drain_url": "",  
      "tags": []  
    }  
  ]  
}
```

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      "syslog_drain_url": "",  
      "tags": []  
    }  
  ]  
}
```



A dark, atmospheric photograph of the Golden Gate Bridge in San Francisco. The bridge's iconic red-orange towers and suspension cables are visible, extending from a steep, rocky cliff on the left towards the right. The bridge is partially shrouded in a thick, low-lying fog or mist that fills the background and the water below. The sky is a uniform, dark grey, contributing to the moody and dramatic feel of the image. The overall lighting is very low, with the bridge's structure being the primary light source against the dark surroundings.

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