

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

Dev/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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User Provided Service Instance

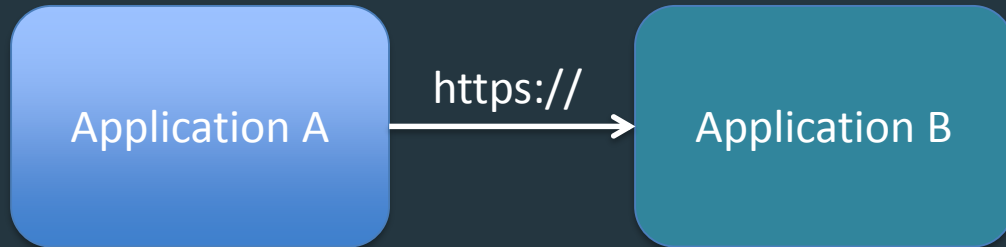
Enable developers to use services that are not available in the Marketplace with their applications running on Pivotal Cloud Foundry.

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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  ]  
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```


A dark, atmospheric photograph of the Golden Gate Bridge in San Francisco, partially obscured by a thick layer of fog. The bridge's iconic towers and suspension cables are visible against a grey, overcast sky. The foreground shows a dark, rocky hillside.

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