Rapidly Building Apps on the Cloud

Exercise 7b – Creating a user-provided service

Section 7, Lecture 45

Bluemix allows you to create a service local to your organization.The service needs to be running, not necessarily on Bluemix, but must be reachable from Bluemix.The service definition serves as a link between the running service and your Bluemix application.

To create a service use the Command Line Interface:

```
cf cups testService –p "host, port, user, password"
```

You will then be prompted for the values of the parameters.The values you enter will be stored with the service definition and passed to the applications binding to your service

It is also possible to specify the values in the command rather than being prompted:

```
cf cups testService -p '{"host":"myhost.ibm.com", "port":"12345", "user":"user1",
"password":"passw0rd"}'
```

Create your own user-defined service and add parameters for the service using the –p option.You can provide the values on the command line or be prompted for the parameters.

You can list the services and see the service is now available using **cf s**:

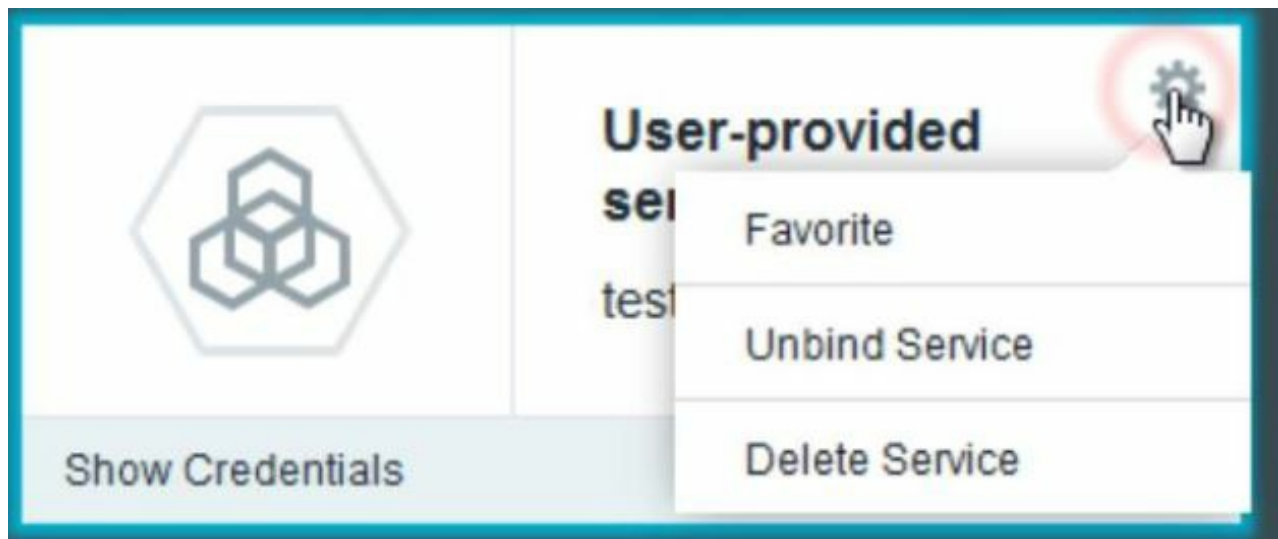If you need to update the values for the service use **cf uups**.

You can bind the service to an application like any other Bluemix service and the application can parse VCAP_SERVICES to access the parameters you provided:

Environment Variables

```
{
  "mqlight": [
    {
      "name": "MQLight",
      "label": "mqlight",
      "plan": "standard",
      "credentials": {
        "username": "gQPsrEE5Cgqm",
        "connectionLookupURI": "http://mqlightprod-lookup.ng.bluemix.net/Lookup?serviceId=bf71ac60-17e2-4349-bd93-85b5705a7634",
        "password": "jbjYdr4AwBUM",
        "version": "2"
      }
    }
  ],
  "user-provided": [
    {
      "name": "testService",
      "label": "user-provided",
      "credentials": {
        "host": "myhost.ibm.com",
        "password": "passw0rd",
        "port": "12345",
        "user": "user1"
      }
    }
  ]
}
```

User-provided services can be deleted like any other Bluemix service using the Bluemix Web UI :

or using the command line **cf ds** :

```
C:\Users\Avnet>cf ds testService

Really delete the service testService?> y
Deleting service testService in org Avnet Academy / space Vinay as vinay.gupta@a
vnet.com...
OK
```