



Getting Started with IBM Bluemix Hands-On Workshop

Exercise 6b: Creating a User-provided Service

Creating a user-provided service

By using Bluemix, you can create a service that's local to your organization. The service must be running, but not necessarily running on Bluemix. However, it must be reachable from Bluemix. The service definition serves as a link between the running service and your Bluemix application.

1. Create a service by using the command line:

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

You are prompted to enter the parameter values. The values that you enter are stored with the service definition and passed to the applications that are binding to your service.

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

host> myhost.ibm.com

port> 12345

user> user1

password> passw0rd
Creating user provided service testService in org binnes@uk.ibm.com /
space test as binnes@uk.ibm.com...
```

Alternative: If you want to specify the values in the command rather than answering prompts, use this command:

Mac and Linux

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

Windows

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

2. Create your user-defined service and add parameters for the service by using the `-p` option. You can provide the values on the command line or be prompted for the parameters.
3. Optional: List the services to see that the service is now available by using the command

```
cf s:
```

```
cf s
Getting services in org binnes@uk.ibm.com / space test as binnes@uk.ibm.com...
OK

name                               service          plan      bound apps
BIJavaCloudantTest:cloudantNoSQLDB cloudantNoSQLDB   Shared
BIJavaCloudantDBApp
BINodeWebStarter:DataCache         DataCache        free
BINodeWebStarter
MQLight                             mqlight          Default
```

MQLight-yh	mqlight	Default
BINodeWebStarter, MQLrec, MQLsnd		
testService	user-provided	

- If you need to update the values for the service, use the `cf uups` command.
- Bind the service to an application like any other Bluemix service. The application will parse the `VCAP_SERVICES` variable to access the parameters that you provided.

Environment Variables

VCAP_SERVICES

USER-DEFINED

```

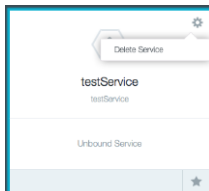
{
  "user-provided": [
    {
      "name": "testService",
      "label": "user-provided",
      "credentials": {
        "host": "myhost.ibm.com",
        "password": "passwd",
        "port": "12345",
        "user": "user1"
      }
    }
  ]
}

```

EXPORT

- Optional: Delete the service. User-provided services can be deleted like any other Bluemix service by using the Bluemix web UI or the command line.

- Web UI:



- Command line: `cf ds`

```
cf ds testService
```

```
Really delete the service testService?> y
Deleting service testService in org binnes@uk.ibm.com / space test as
binnes@uk.ibm.com...
OK
```