# VCAP\_SERVICES & UPS



### **Learning Objectives:**

- 1. Environment variable VCAP\_SERVICES
- 2. User Provided Services, their benefits & how to create them

## 'CAP\_SERVICES for Managed Services

For bindable services CF adds details to the VCAP\_SERVICES in JSON form

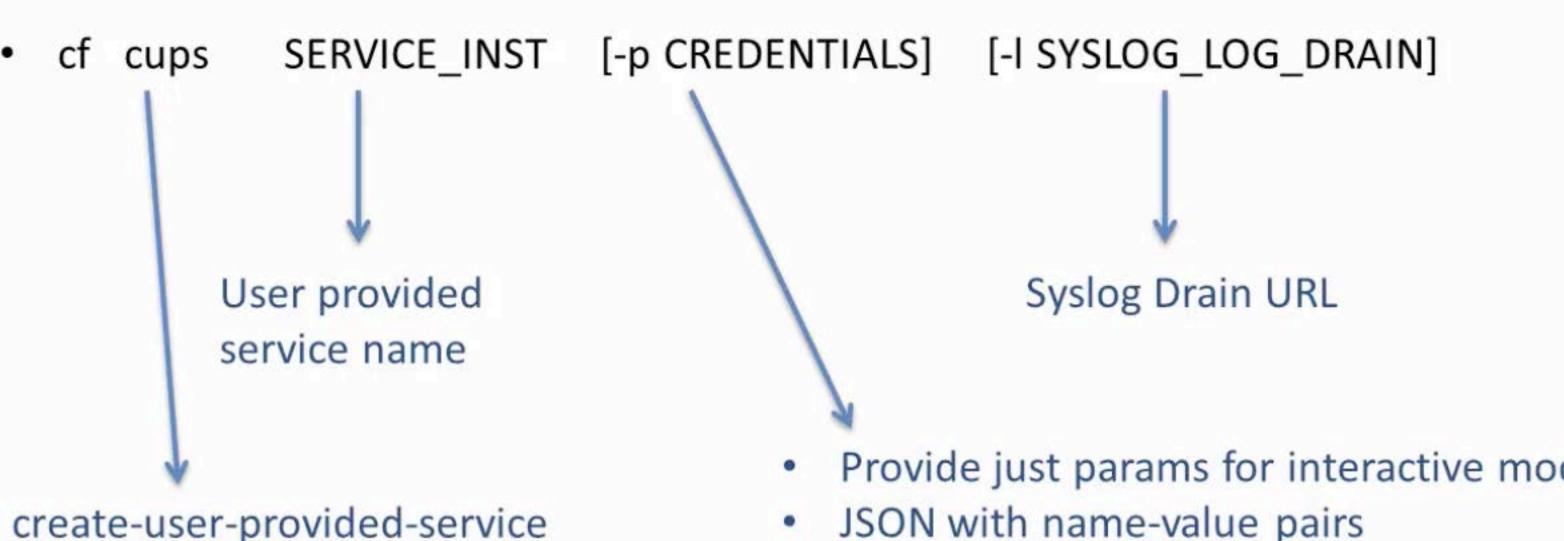
```
'UCAP_SERVICES'': {
       Credentials
                                             "cleardb": [
       For the service
                                               "credentials": {
                                                "hostname": "us-cdbr-iron-east-03.cleardb.net"
                                                "jdbcUrl": "jdbc:mysql://us-cdbr-iron-east-03.
"name": "ad_6e^420--20-80b2",
       Name of offering
                                                 password": "c xxxxxxxxx
                                                                           360eb6:c58c5b97@us-cdb;
                                                "username": "be5 xxxxxxxxx :b6"
Name of service instance
                                                label": "cleardb",
                                               "name": "MySq1",
                                               "plan": "spark",
    Plan for service
                                                "Data Stores",
                                                "data_management",
                                                "ibm_third_party"
```

### Iser provided services

- Allows you to represent external assets as services
  - E.g., Databases, Messaging, Logging ...
  - Populates the VCAP\_SERVICES environment variable
- Benefits

Manage the credentials for external services

## reate User Provided Service (CUPS)



cf uups for updating the UPS

### 'CAP\_SERVICES for UPSI

JSON array for user provided services

User provided services

JSON array

Credentials provide with -p

```
Syslog URL with -I
```

```
'UCAP_SERVICES'': {
"Auto-Scaling": [
   "credentials": <
    "agentPassword": "0493
    "agentUsername": "agen
    "app_id": "9e72d547-a3a5-47c9-adb0-38d5
"service_id": "212c97f4-b041-4d87-aeeb-
    "url": "https://Scaling4.ng.bluemix.net
   "label": "Auto-Scaling",
"name": "Auto-Scaling-us",
   "plan": "free",
    "bluemix_extensions",
    "ibm_created",
    "dev_ops"
"user-provided": [
   "credentials": (),
  "label": "user-provided",
"name": "Acme_App_Logs",
"syslog_drain_url": "syslog://logs3.pape
   "tags": []
```

```
f cups MyOracleDb -p "url, user, pass"
> jdbc://url.com
r> user
s> pass
ating user provided service MyOracleDb in org Cloud Rocket
f services
ting services in org Cloud Rocket / space Development as sa
              service
                                      bound apps
                                                       last
                               plan
o-Scaling-Oh Auto-Scaling
                             free CloudRocketApp
                                                       crea
racleDb
            user-provided
```

```
f delete-service MyoracleDb
lly delete the service MyOracleDb?> y
eting service MyOracleDb in org Cloud Rocket / spac
fservices
ting services in org cloud Rocket / space peveropment as sakhu
             service plan bound apps last ope
```

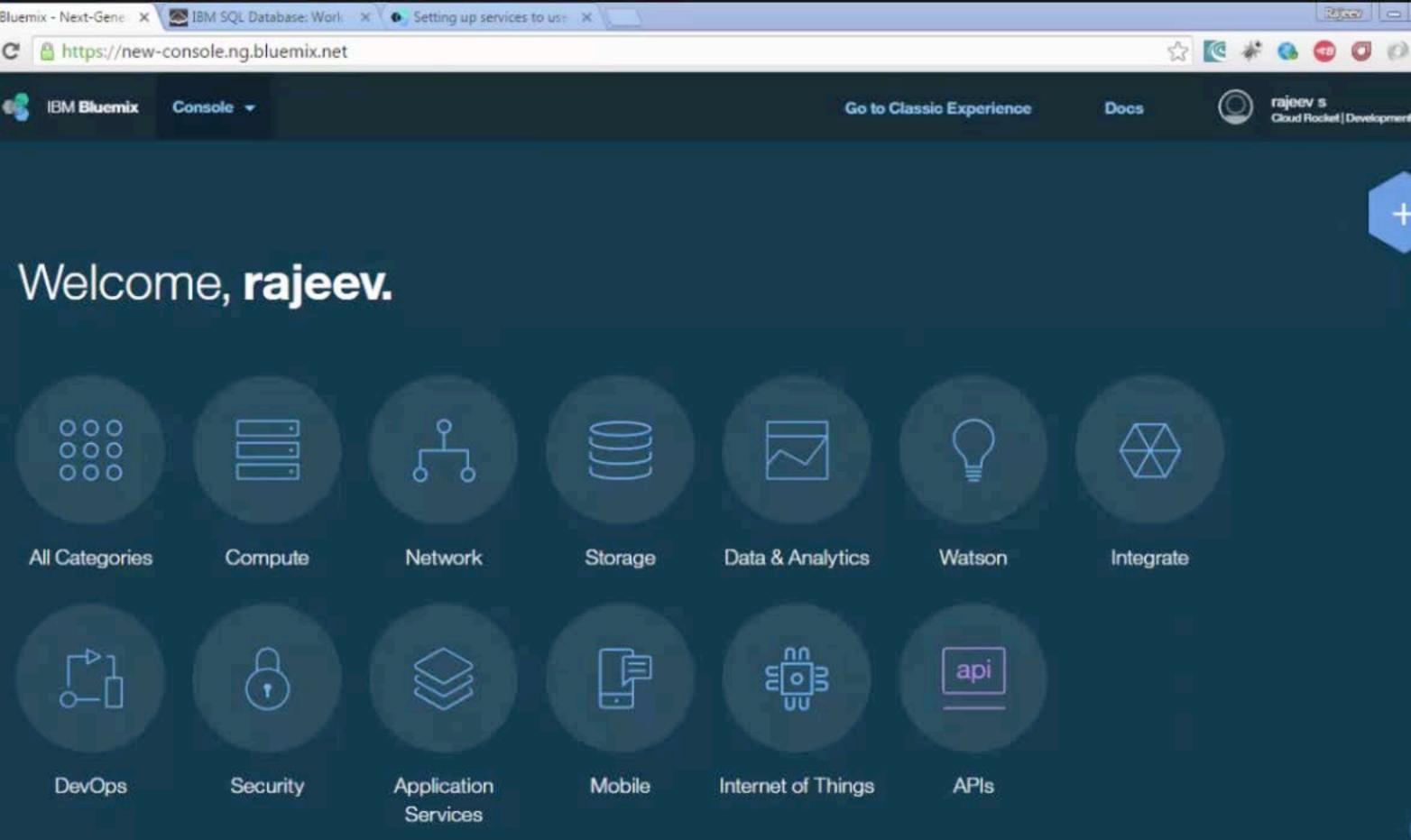
o-Scaling-Oh Auto-Scaling free cloudRocketApp create's

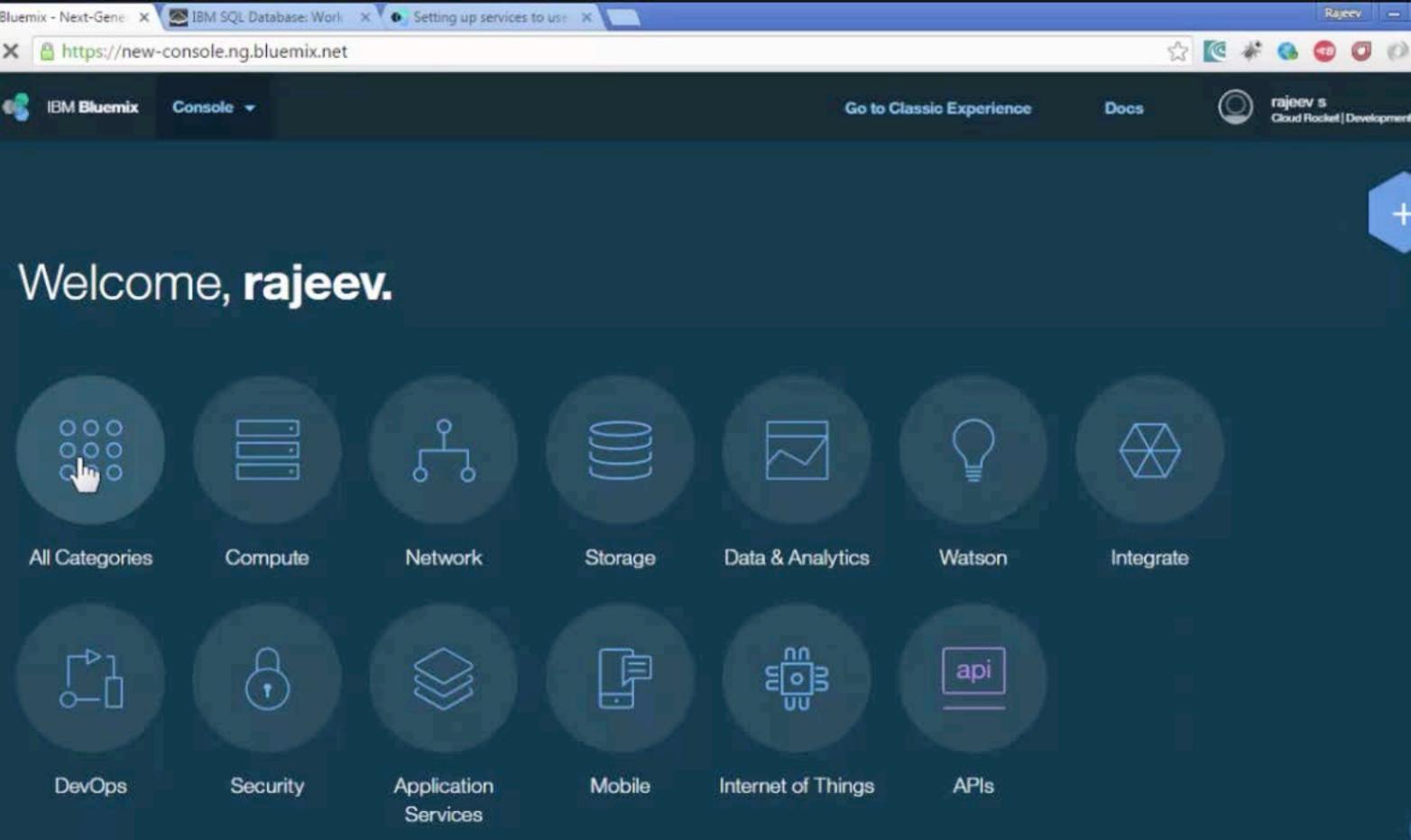


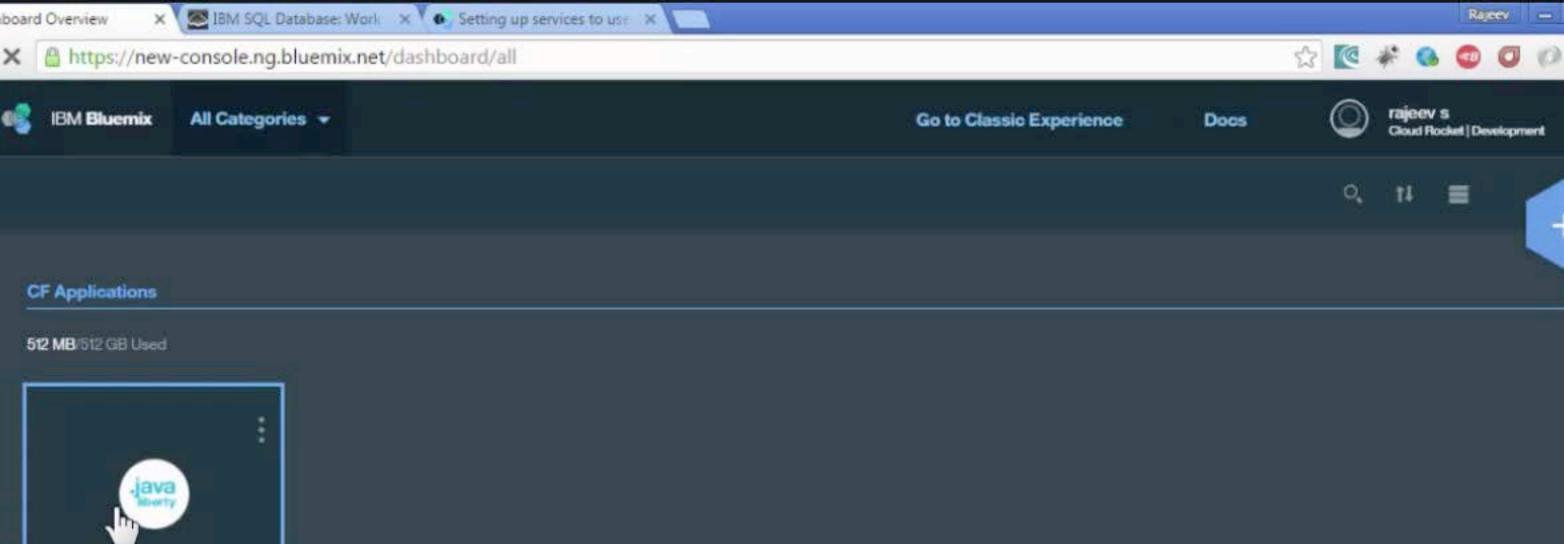
```
cups MyOracleDb -p "{\"jdbcurl\":\"jdbc://url\", \"user\":\"id\", \"pass\":\"pa\"
ting user provided service MyOracleDb in org Cloud Rocket / space Development as s
```

services
ing services in org Cloud Rocket / space Development as sakhuia4@amail.com...

service plan bound apps last operation scaling the CloudRocketApp create succeeded acleDb user-provided







#### Running

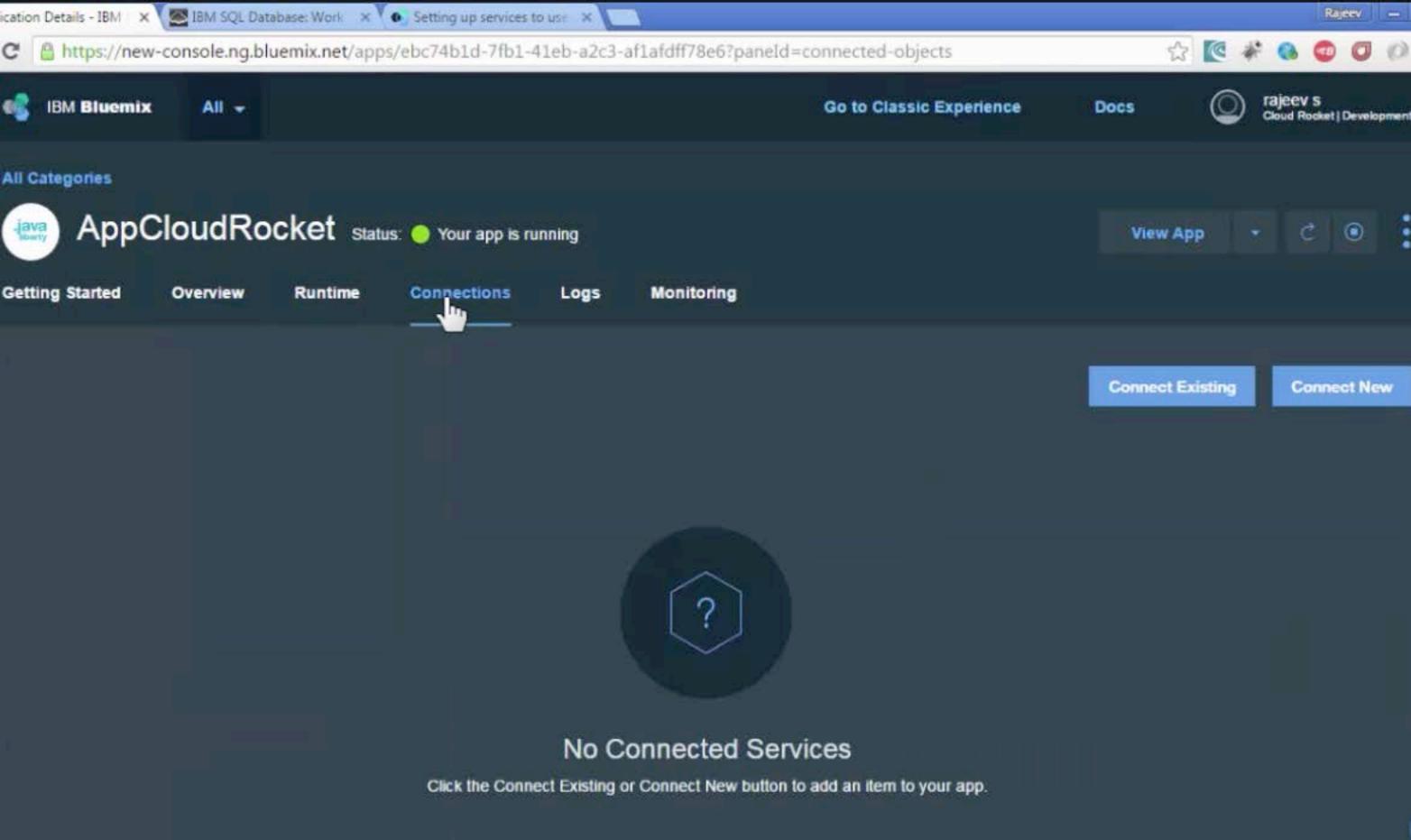
nning C [

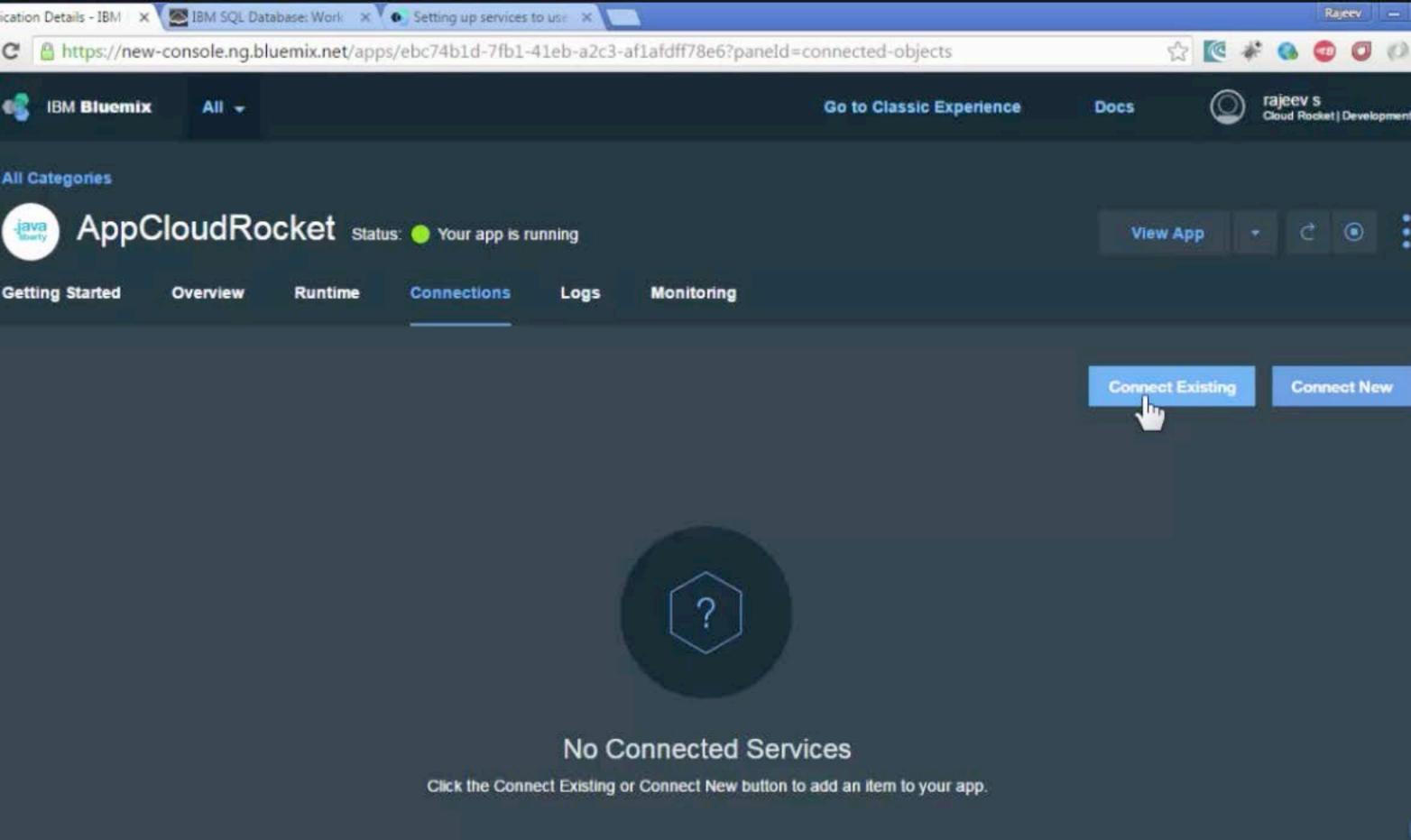
**AppCloudRocket** 

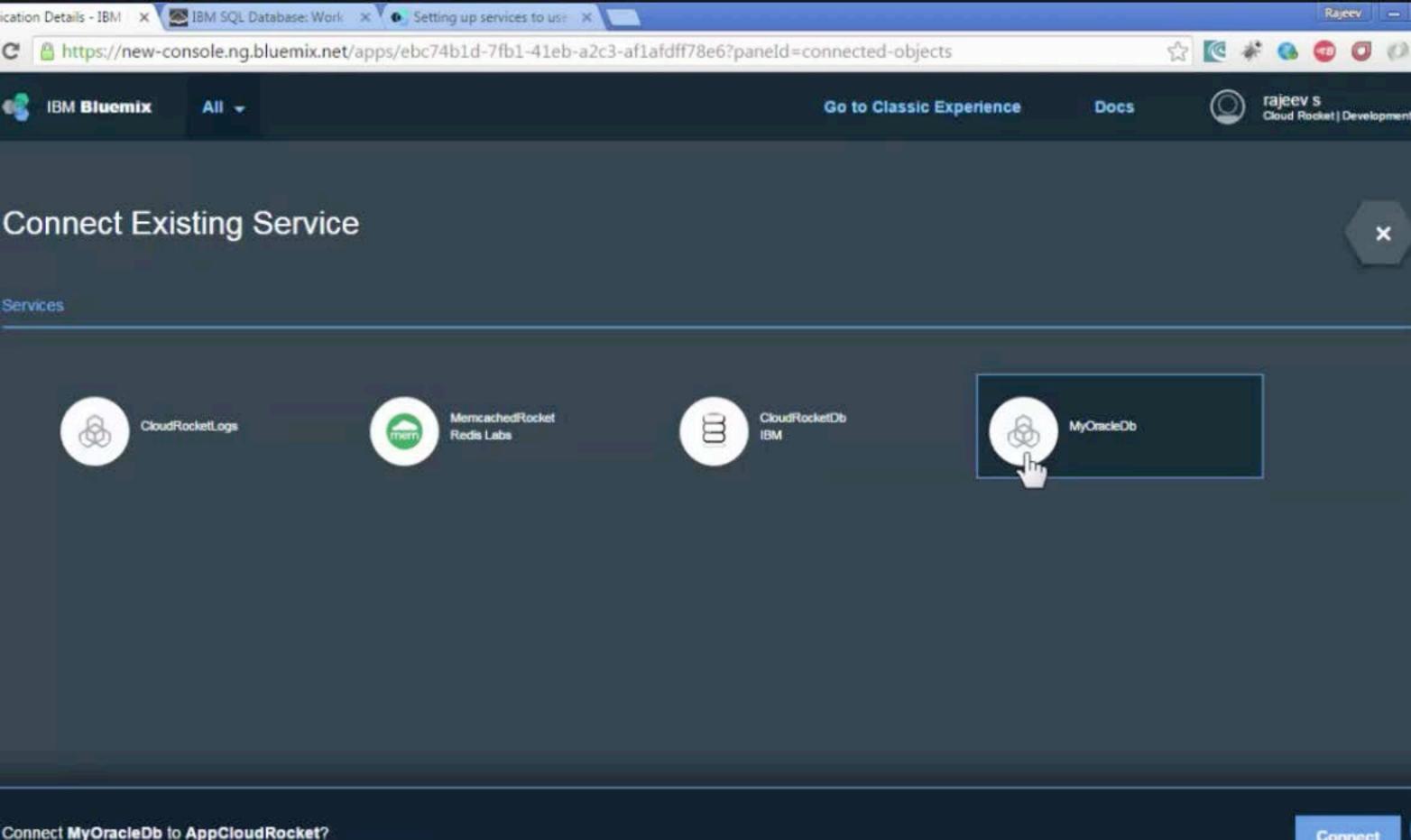
CloudRocket.mybluemix.net

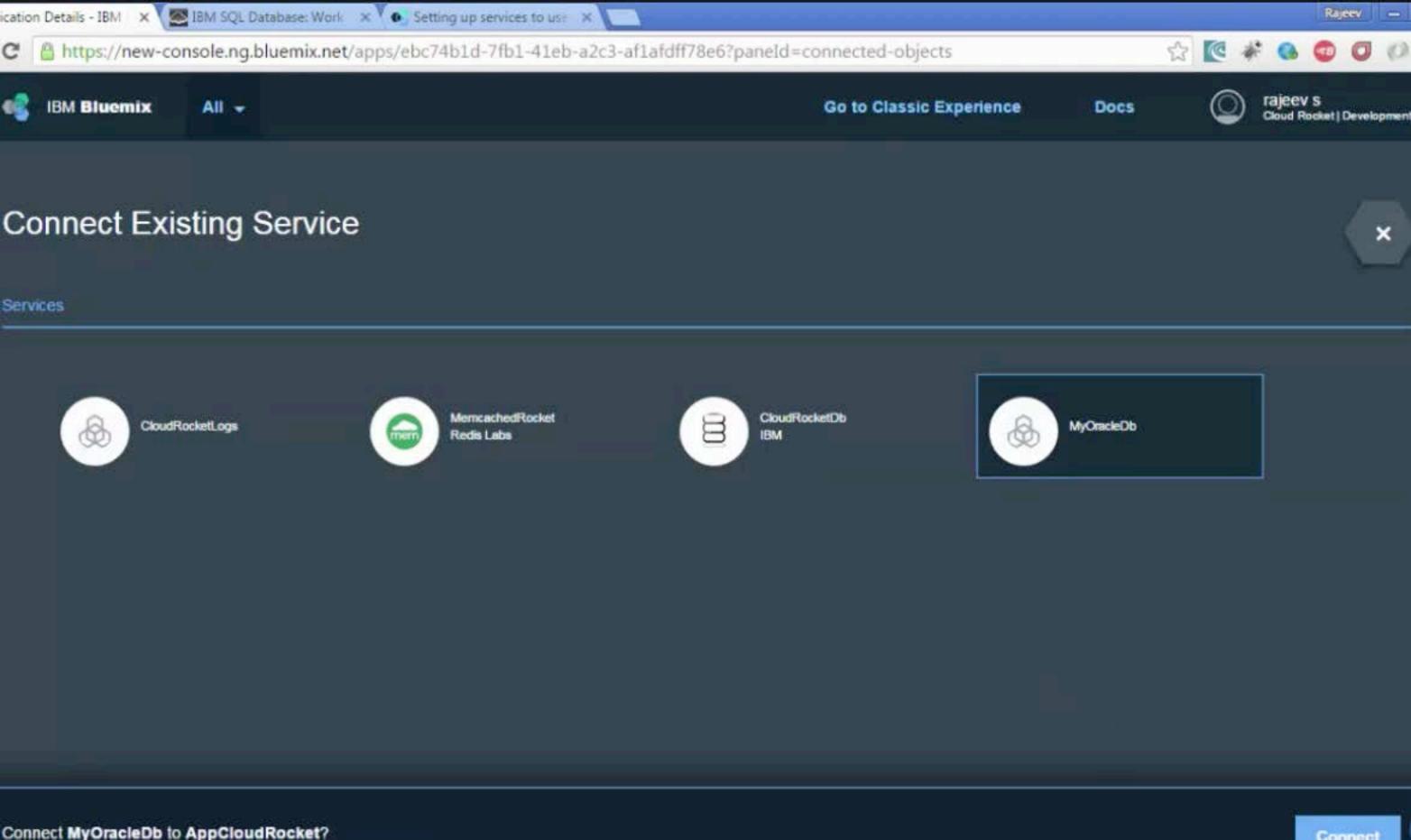
#### Services

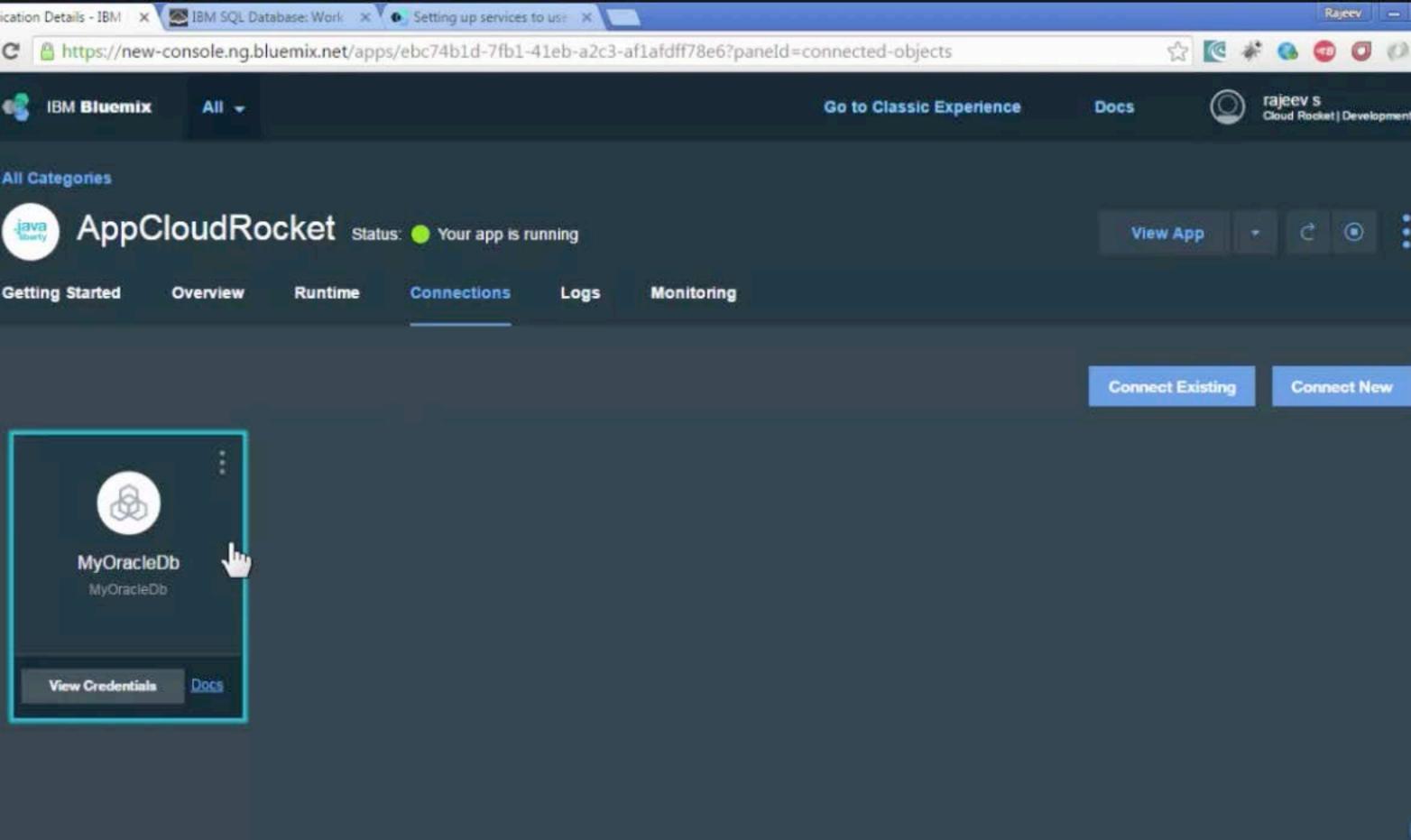
5/2000 Used

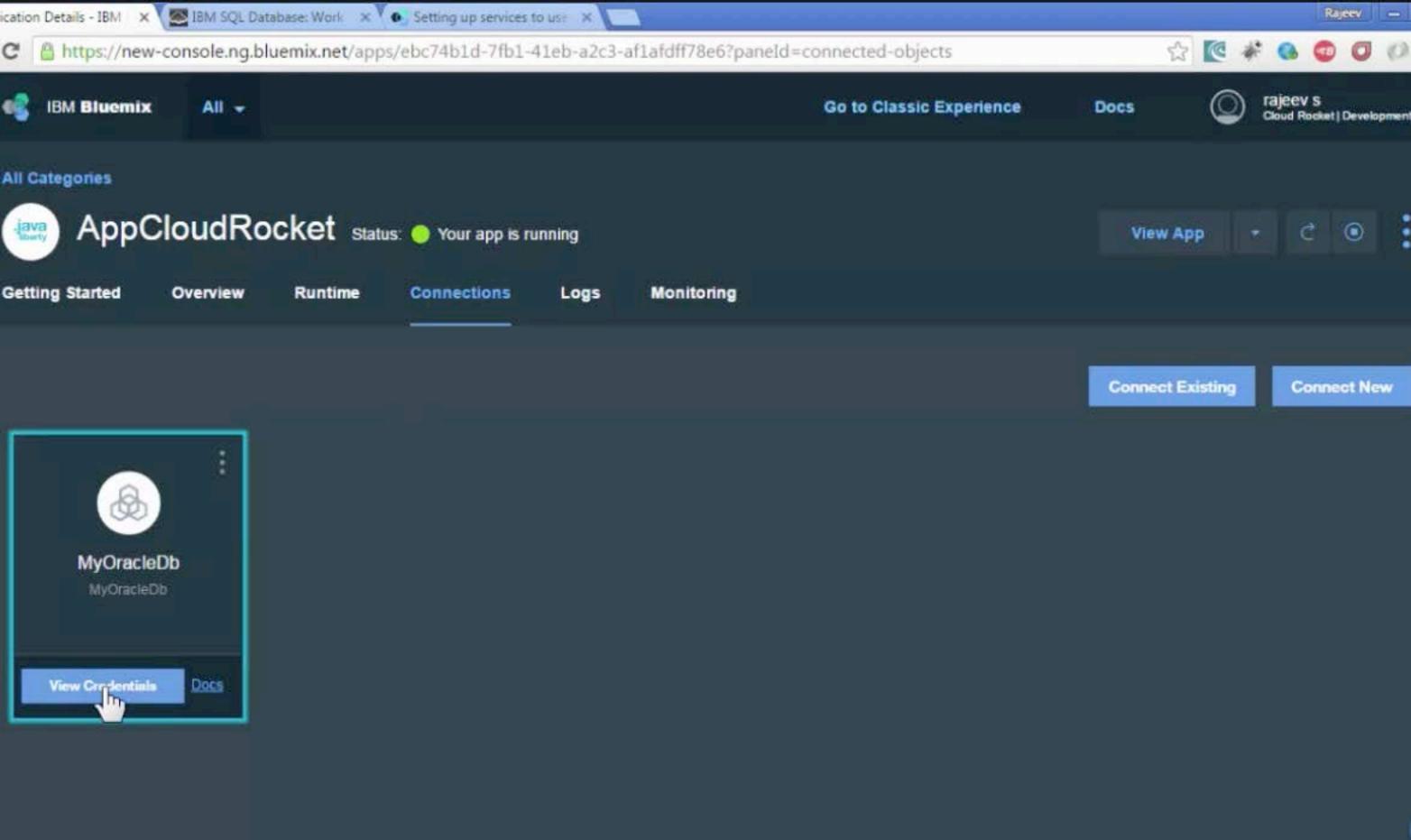


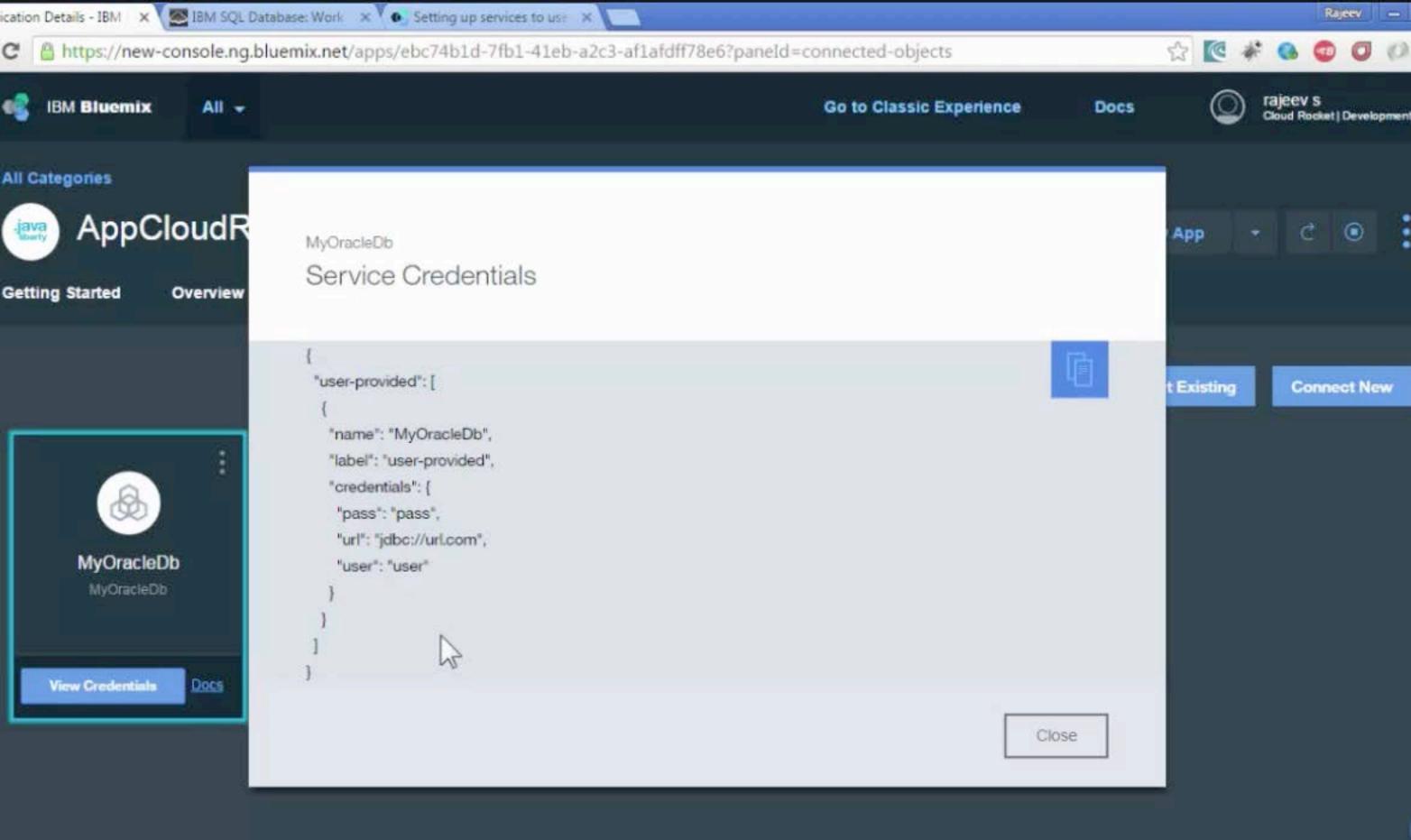


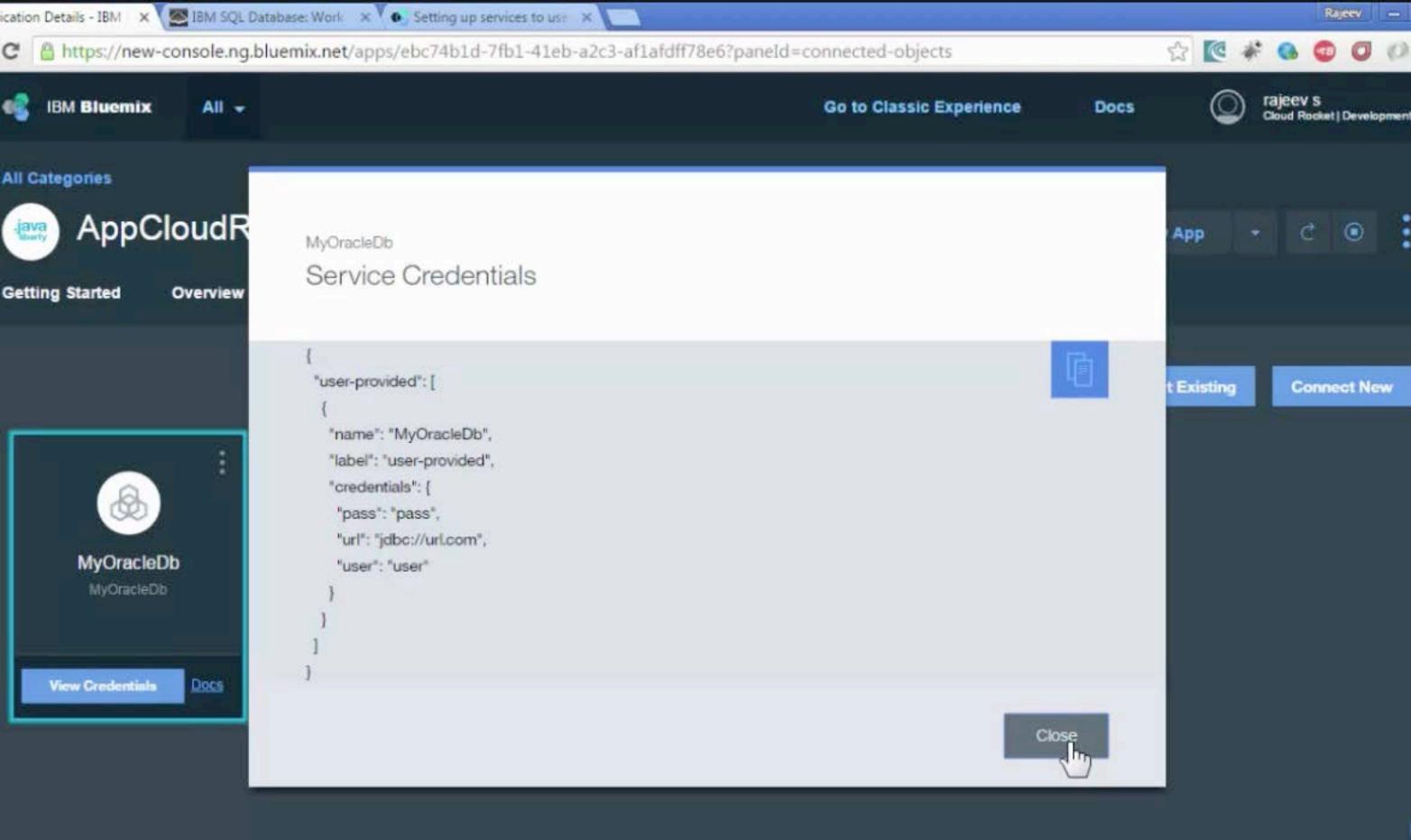








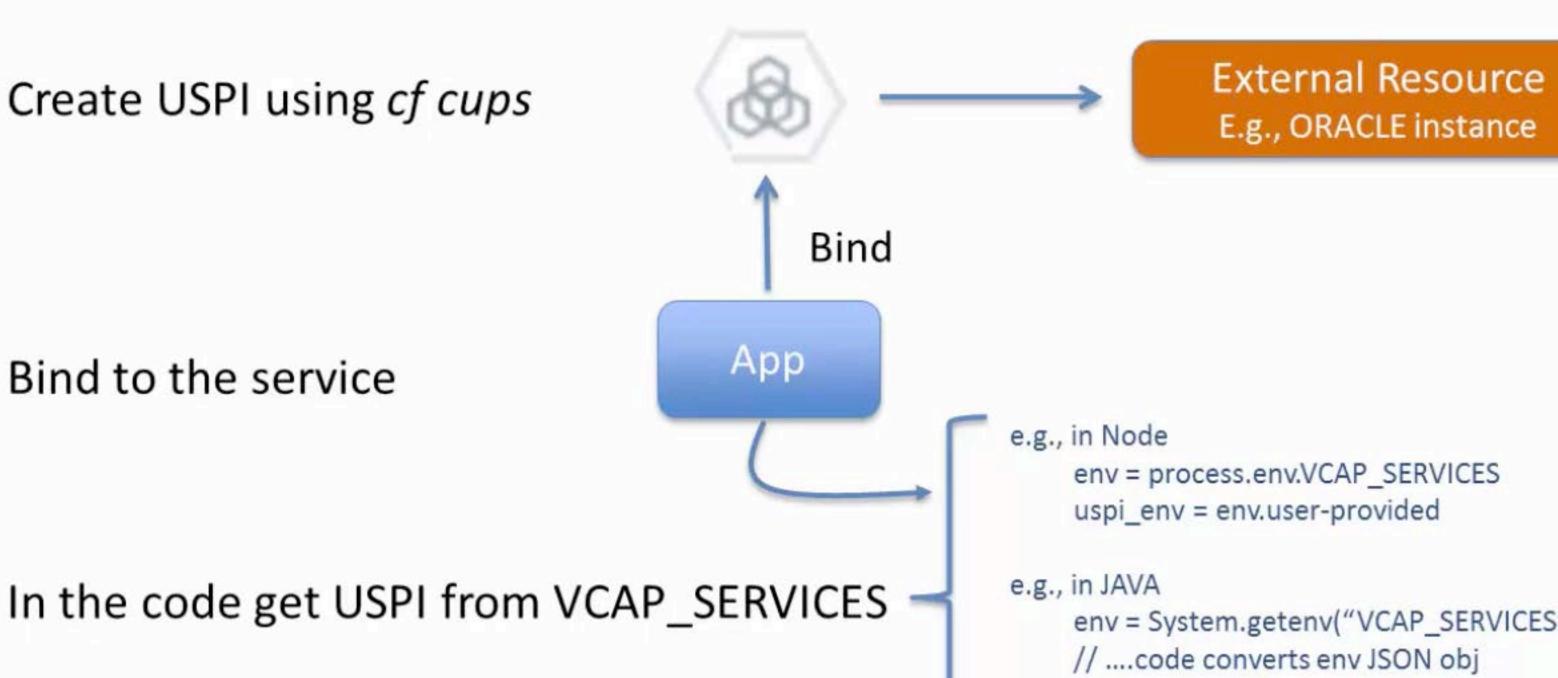




### JPSI Usage - Summary

Create USPI using cf cups

Bind to the service



### lot all managed services populate VCAP\_SERVICES

- Value is delivered directly to the user
- Refer documentation on how to use the specific service(s)
- Examples:





### ummary

- VCAP\_SERVICES environment variable holds connection information f
  the service instance bound to the app
- Users can define UPSI that populates VCAP\_SERVICES with information
  on the external services such as DB, Messaging ....

