### IBM Bluemix and Watson



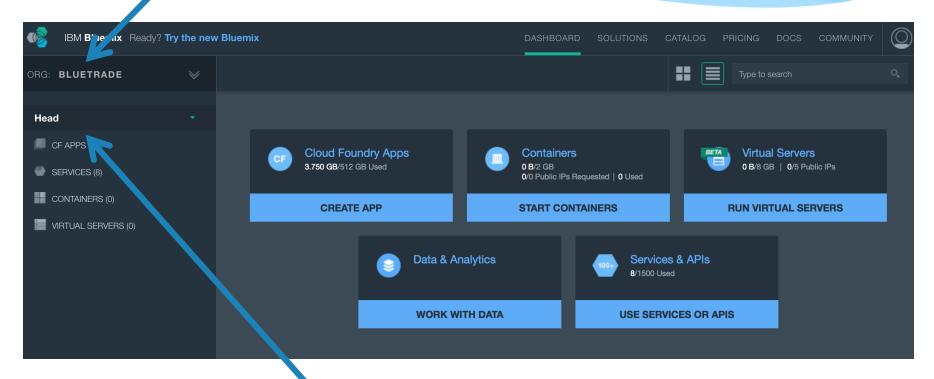
#### Bluemix

- \* A cloud platform as a service (PaaS)
- \* Based on Cloud Foundry a cloud computing platform
- \* Linux based environment
- \* App development, deployment and delivery (DevOps)



### Bluemix

#### Organization



## Supported Languages and Buildpacks



\* Support for custom buildpacks



### Cloud Foundry

- \* A Linux based cloud environment
- \* Provides:
  - \* Access to bluemix server
  - Command-line interface (CLI)
  - Eclipse plugin
  - \* SSH access

## Bluemix DevOps Services

Go from source code to a running app in minutes



Manage your account, your projects, and your team's work



Manage your Account



Administer a Project



Track and Plan

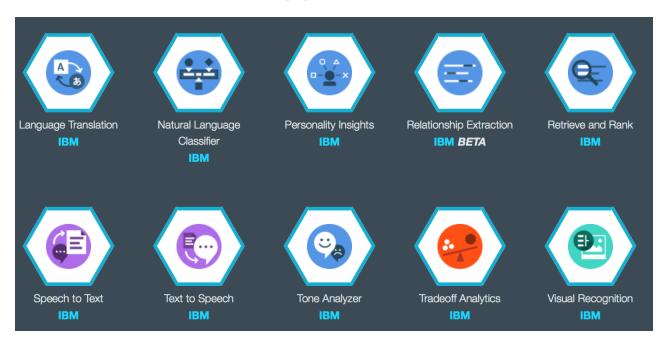
## Bluemix DevOps Services

- \* Track & Plan service
  - Planning for project and team-work
- \* source control
  - A Web IDE for managing source control
  - \* Source control through Git, Jazz SCM, or GitHub
- \* Delivery Pipeline
  - \* Automated builds and deployments through the Delivery Pipeline service

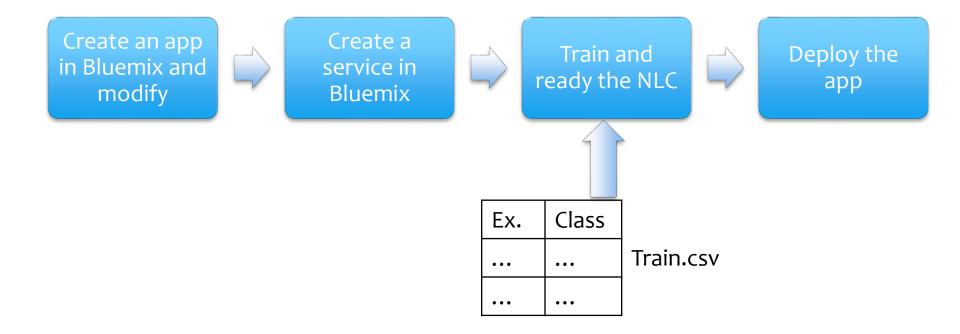


#### Watson Services

- \* 100+ services
- \* RESTful API for each of them
- \* Documentation and support



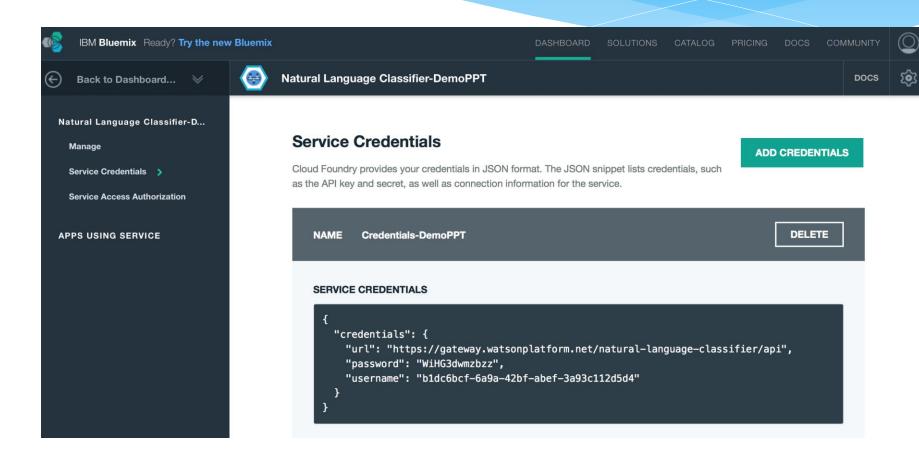
### Use Case – App with Watson Service



#### Create an NLC Service

- \* Services & APIs >> Natural Language Classifier >> (Assign a service name) >> Create
- \* Go to the service credentials page and copy them

### Watson Service Credentials



# Use Case – Hogwarts' Houses Classification

Query	Class
I have courage	Gryffindor
I am brave	Gryffindor
I am a good friend	Hufflepuff
Hard working	Hufflepuff
Smart and intelligent	Ravenclaw
Artistic interests	Ravenclaw
I am hungry for power	Slytherin
I enjoy killing people	Slytherin
•••	•••

## Create and Train a Language Classifier

\* Create and train with the curl command:

```
curl -u "{username}":"{password}" -F training_data=@train.csv -F
training_metadata="{\"language\":\"en\",\"name\":\"My
Classifier\"}" "https://gateway.watsonplatform.net/natural-
language-classifier/api/v1/classifiers"
```

\* Replace the 'username' and 'password' with the service credentials and give the classifier a name at 'My Classifier'

# Create and Train a Language Classifier

\* Response when training:

```
{
  "classifier_id" : "e295e0x75-nlc-190",
  "name" : "My Classifier",
  "language" : "en",
  "created" : "2016-07-14T06:33:25.655Z",
  "url" : "https://gateway.watsonplatform.net/natural-language-
classifier/api/v1/classifiers/e295e0x75-nlc-190",
  "status" : "Training",
  "status_description" : "The classifier instance is in its training
phase, not yet ready to accept classify requests"
}
```

# Create and Train a Language Classifier

\* Status check:

```
curl -u "{username}":"{password}"
"https://gateway.watsonplatform.net/natural-language-
classifier/api/v1/classifiers/{classifier_id}"
```

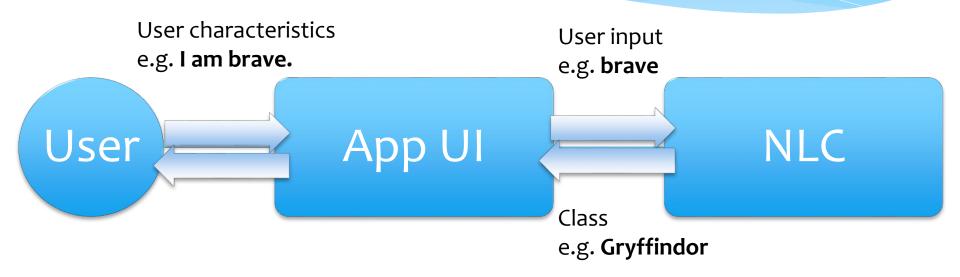
\* Replace the 'username' and 'password' with the service credentials and 'classifier\_id' with your classifier ID

# Create and Train a Language Classifier

\* Response when ready:

```
{
  "classifier_id" : " e295e0x75-nlc-190",
  "name" : "My Classifier",
  "language" : "en",
  "created" : "2016-07-06T12:37:39.339Z",
  "url" : "https://gateway.watsonplatform.net/natural-language-
classifier/api/v1/classifiers/e295e0x75-nlc-190",
  "status" : "Available",
  "status_description" : "The classifier instance is now available and is ready to take classifier requests."
}
```

## Use Case – App Usage



\* <a href="https://hogwartshouses.eu-gb.mybluemix.net/">https://hogwartshouses.eu-gb.mybluemix.net/</a>

