```
cf create-service cleardb spark attendee-mysql
```

1) git clone https://github.com/pivotal-education/pcf-attendee-service-code.git

```
cd .\pcf-attendee-service-code
./mvnw package
cf push attendee-service -p .\target\attendee-1.0.jar -m 752M --random-route
cf bind-service attendee-service attendee-mysql

cf restart attendee-service

$ cf create-user-provided-service attendee-service -p uri

uri> https://attendee-service-appreciative-dingo.cfapps.io/attendees
```

2) $ git clone https://github.com/pivotal-education/pcf-articulate-code.git
3) $ cd pcf-articulate-code
4) $ ./mvnw clean package
5) $ cf push articulate -p .\target\articulate-1.0.jar -m 512M --random-route --no-start

Bind articulate to the attendee-service user provided service

```
$ cf bind-service articulate attendee-service
```

Tip: Use ‘cf restage articulate’ to ensure env variable changes take effect” message at this time.

Restart the application.

```
$ cf restart articulate
```

Access articulate logs

1) Review the documentation on application logging

2) Tail the logs of the `articulate` application

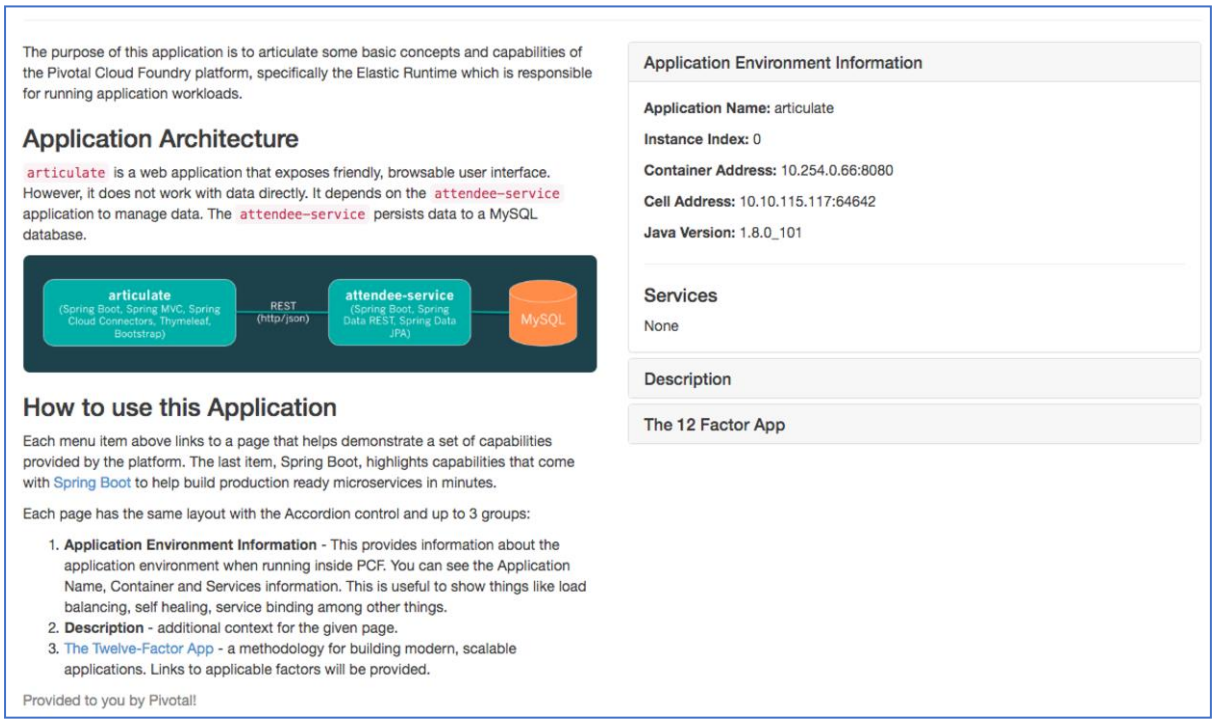
```
$ cf logs articulate
```

3) Open another terminal window and start the articulate application

4) Review the output from both terminal windows

```
$ cf start articulate
```

5) Open a browser and view the `articulate` application and read through the demo application



6) Observe the log output when the `articulate` web page is refreshed (More logs are added)

7) Stop tailing logs

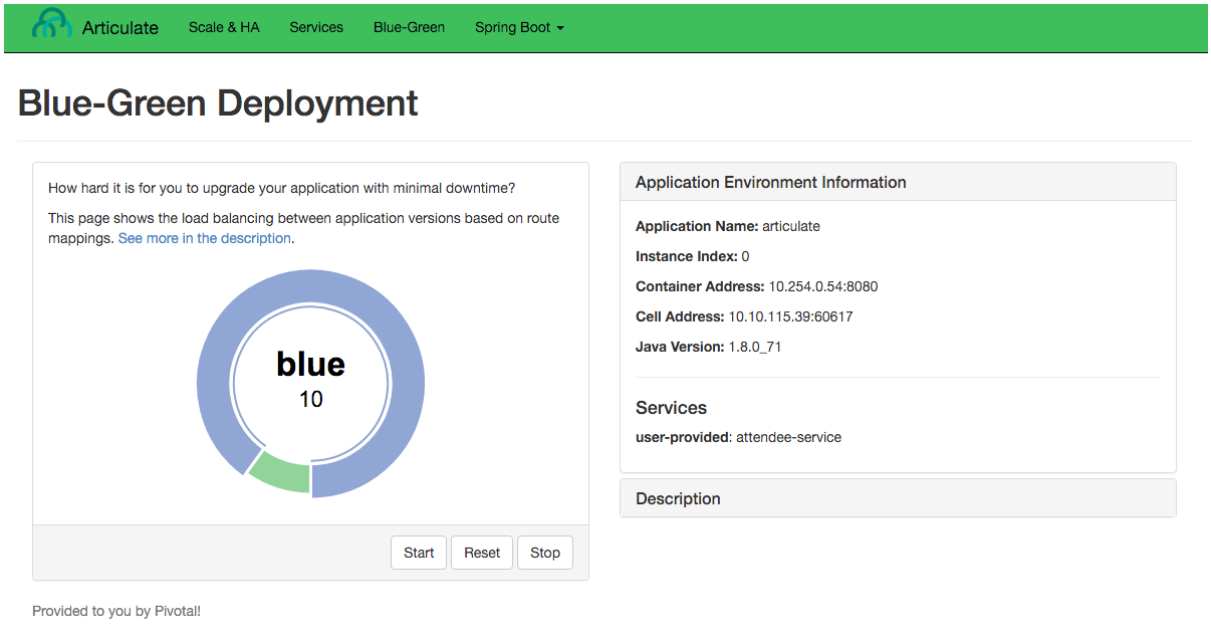
1. Go to the terminal tailing the logs
2. Send an interrupt (Control + c)

Steps to Perform a Blue-Green Deployment

Step 1: To simulate a blue-green deployment, first scale articulates to multiple instances

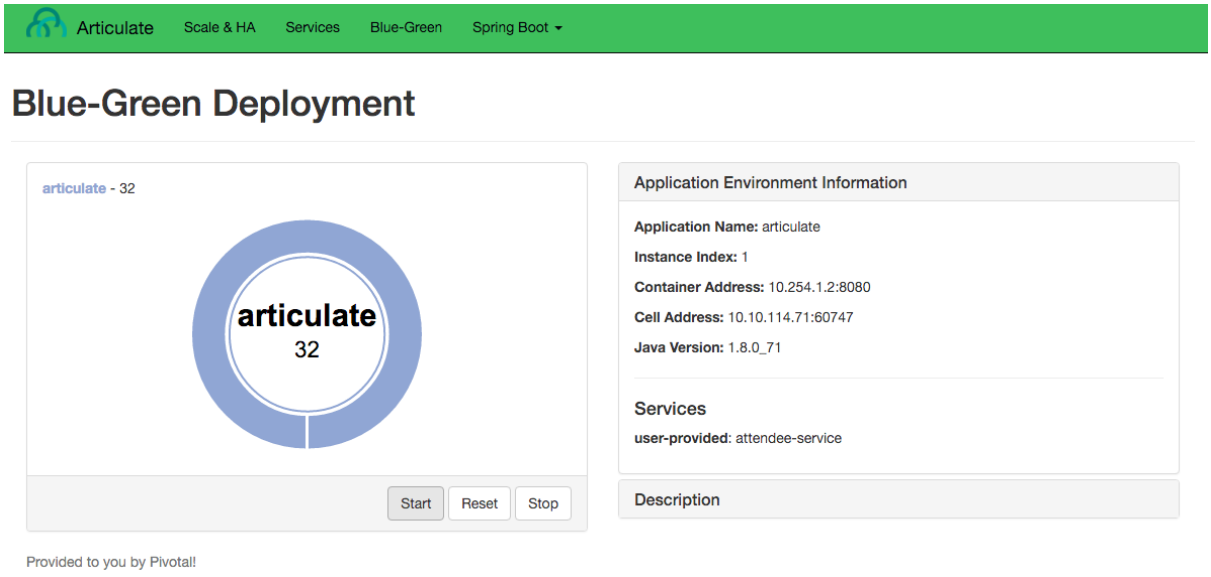
```
$ cf scale articulate -i 2
```

Step 2: Browse to the articulate Blue-Green page



Step 3: Assume that the deployed application is version 1. Generate some traffic and press the Start button. Leave this open as a dedicated tab in your browser

Step 4: Observe the existing application handling all web requests



Step 5: Record the subdomain (host) for the articulate application

For example:

```
$ cf routes

Getting routes as droberts@pivotal.io ...

space   host                                domain                  apps
dev     articulate-heartsickening-elegance  pcfi1.fe.gopivotal.com  articulate
```

Step 6: Now, push the next version of articulate

However, this time specify the subdomain by appending `-temp` to the production route.

For example, (Subdomain is different):

```
$ cd ~/pivotal-cloud-foundry-developer-workshop/articulate/

$ cf push articulate1 -p .\target\articulate-1.0.jar -m 512M -n articulate-heartsickening-elegance-temp --no-start
```

Note: bold color articulate host link should be replaced with your articulate host link

Step 7: Bind articulate-v2 to the attendee-service user provided service

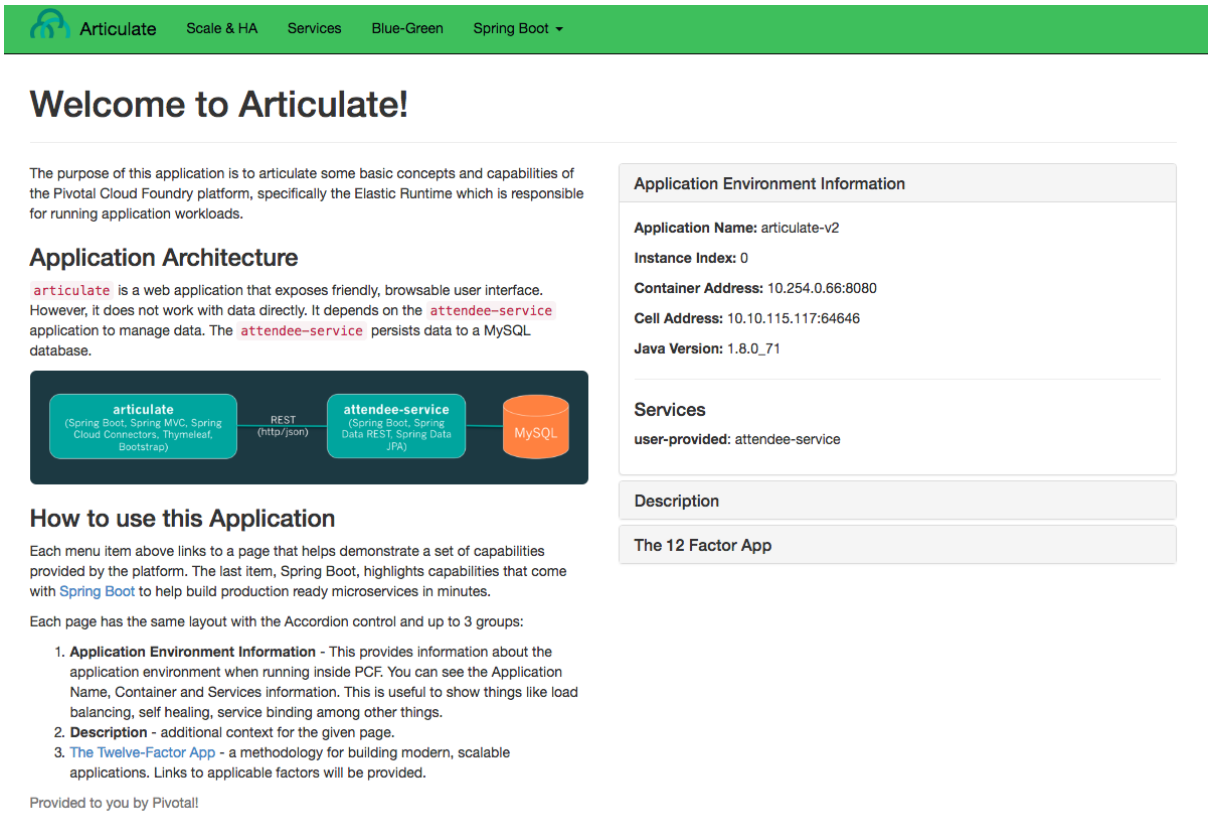
```
$ cf bind-service articulate1 attendee-service
```

Step 8: Start the application

```
$ cf start articulate1
```

Step 9: Now there are two versions of the deployed app

Open a new tab and view version 2 of articulate in the browser. Take note of the application name.



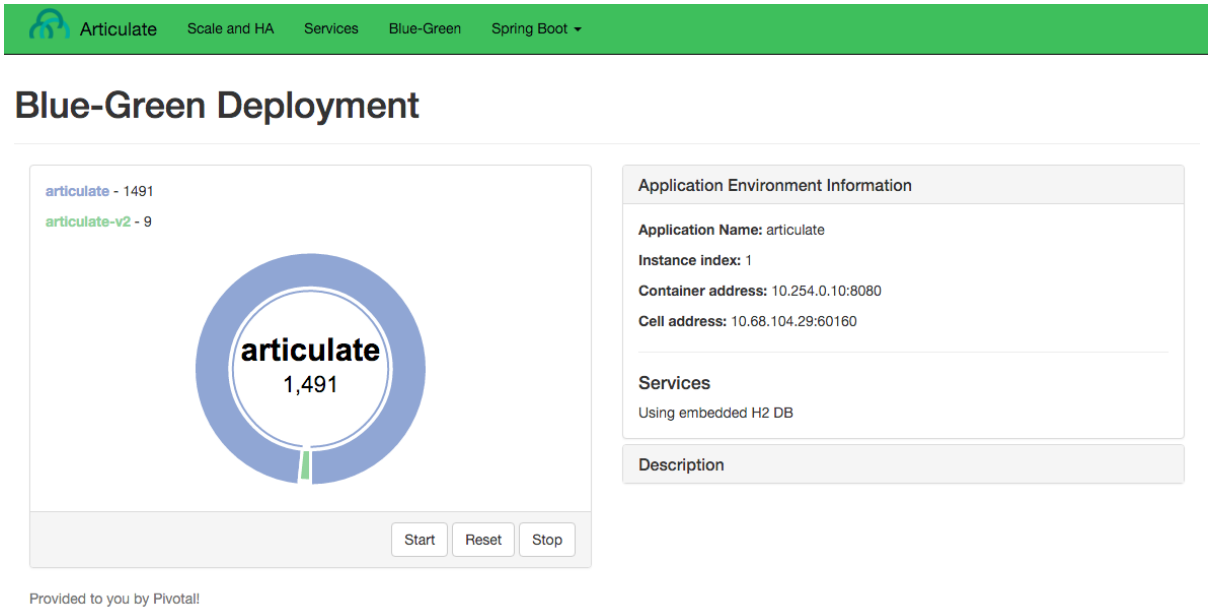
At this point in the deployment process, further testing of the version can be done before releasing it to the customers.

Step 10: Let's assume we are ready to start directing production traffic to version 2. We need to map our production route to articulate-v2

For example, (your domain and subdomain will be different):

```
$ cf map-route articulate1  cfapps.io -n articulate-accountable-turtle
```

Step 11: Return to the browser tab where the load has started and is sending requests to version 2



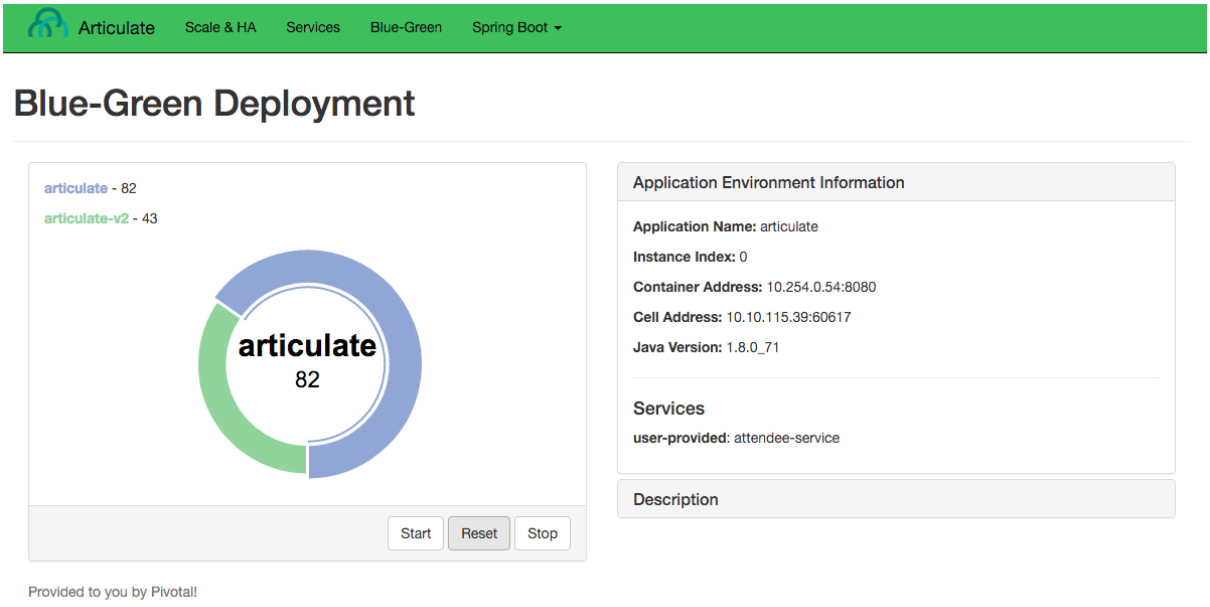
Step 12: Press the Reset button, so that we can see how the load get distributed across app instances

Check if the configuration is same as given below:

```
#           cf apps
Getting apps in org dave / space dev as droberts@pivotal.io...
OK

name                requested state   instances   memory   disk   urls
articulate          started           2/2         512M     1G     ...
articulate1         started           1/1         512M     1G     ...
```

This will result in one-third of the requests going to version 2.



Step 13: Move more traffic to version 2

```
# cf scale articulate -i 1
# cf scale articulate-v2 -i 2
```

If the load generator is reset, you will see two-third of the traffic going to articulate-v2.

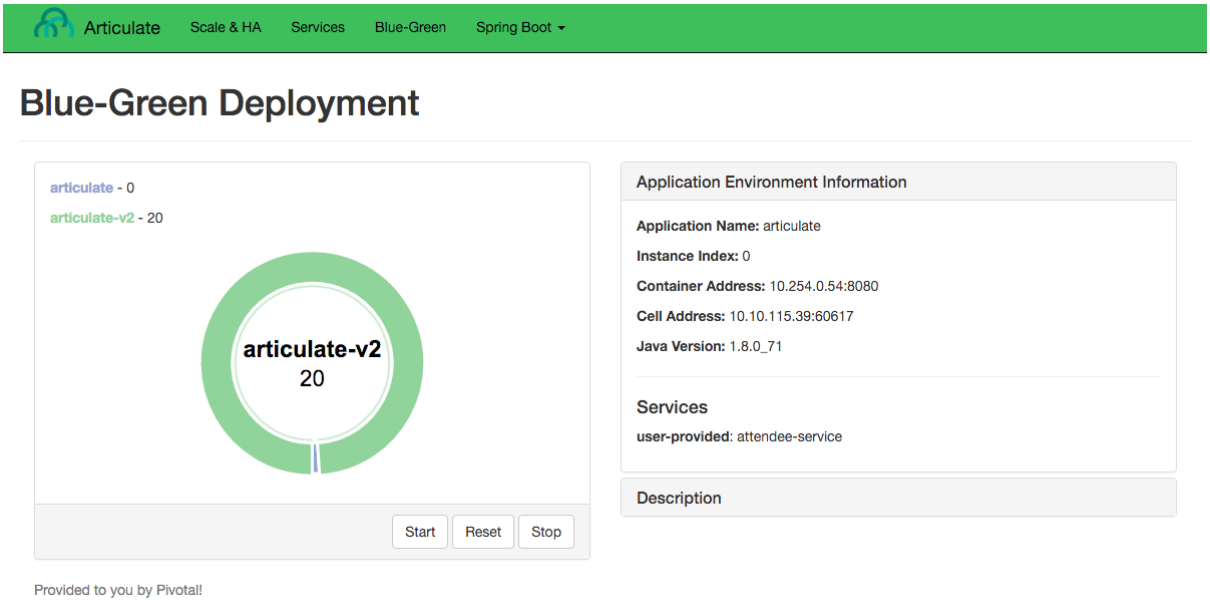
Step 14: Move all traffic to version 2

Remove the production route from the articulate application.

For example, (The domain and subdomain will be different):

```
# cf unmap-route articulate  cfapps.io -n articulate-accountable-turtle
```

If the load generator is reshlllllllllllllllllllllllllllllllllllllllllllet, you will see all traffic going to articulate-v2.



Note: Refreshing the entire page will update the application name.

Step 15: Remove the temp route from the articulate-v2 application

For example, (The domain and subdomain will be different):

```
# cf unmap-route articulate-v2 pcfi1.fe.gopivotal.com -n articulate-heartsickening-elegance-temp
```

This completes the blue-green deployment.