



(../..)

Purpose of this lab

- How to use an APM service
- Estimated Time: 25 minutes

Setup

1. APM solutions cause applications to consume more memory. Increase the memory limit for each application.

```
cf scale articulate -m 1G -i 1
cf scale attendee-service -m 1G -i 1
```

Provision a New Relic Service Instance

Read the documentation on New Relic integration (https://github.com/cloudfoundry/java-buildpack/blob/master/docs/framework-new_relic_agent.md) with the Java Buildpack.

Pivotal Cloud Foundry Instructions

Follow these instructions if using *Pivotal Cloud Foundry*.

1. Sign up for a 60 day free trial license (http://newrelic.com/signup?funnel=pivotal-cloud-foundry&partner=Pivotal+Cloud+Foundry&product_id=Standard&promo_code=PVCF60PRO) with New Relic.
2. Obtain `license key`.

This can be found under `Account Settings` from the drop down menu in the upper right corner of the page.

3. Create a user provided service instance. This will create an interactive prompt.

```
cf create-user-provided-service newrelic -p license_key
```

Bind the New Relic Service Instance

1. Bind the `newrelic` service instance to `articulate`.

```
cf bind-service articulate newrelic
```

2. Restage `articulate`.

```
cf restage articulate
```

3. Bind the `newrelic` service instance to `attendee-service`.

```
cf bind-service attendee-service newrelic
```

4. Restage `attendee-service`.

```
cf restage attendee-service
```

Questions

- Why must `articulate` & `attendee-service` be restaged instead of restarted?

Create Some Web Traffic and View in New Relic

1. Refresh the `articulate` `Service` web page multiple times.

Optionally use the JMeter script from the Application Autoscaler lab (../application-autoscaler).

2. Observe and explore the performance metrics in the New Relic console under the `APM` tab.

Clean up

1. Unbind `newrelic` service instance.

```
cf unbind-service articulate newrelic
cf unbind-service attendee-service newrelic
```

2. Delete `newrelic` service instance.

```
cf delete-service newrelic
```

3. Scale back down to our original settings.

```
cf scale articulate -m 512M -i 1
cf scale attendee-service -m 512M -i 1
```

4. Restage applications.

```
cf restage articulate
cf restage attendee-service
```

Questions

- How do you manage APM tools today? How is this different?

Beyond the Class

Pivotal Cloud Foundry offers a marketplace experience with both New Relic (<https://docs.pivotal.io/newrelic/index.html>) and App Dynamics (<https://docs.pivotal.io/appdynamics/index.html>). Try it with your Pivotal Cloud Foundry installation.

(<https://pivotal.io>)

course version: 1.5.3