

# **Application Performance Monitoring (APM) Integration**

## Application Performance Monitoring (APM)



- APM is for real-time monitoring of applications
- Used to find and fix performance problems
  - An agent in the application container monitors down to the line of code
  - Can include client-side performance
- Examples:
  - New Relic
  - AppDynamics

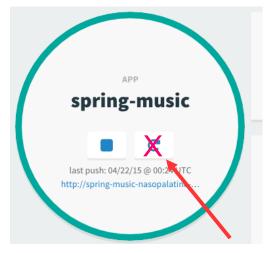
### Example- Pivotal Web Services and New Relic



- PWS offers a simple interface to New Relic
  - Available as a marketplace service
  - Tracks different instances of an application
- How to use:
  - Create a New Relic service instance in a space
  - Bind to the desired application(s)
  - Re-stage or push the application
    - PHP and Java buildpacks includes New Relic agent
    - For others, include the agent with the application
  - APM available as a link from within PWS.

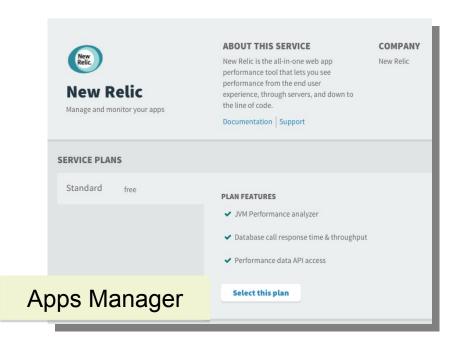
#### Pushing, Staging, Restarting

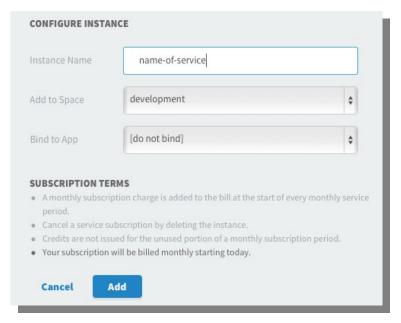
- When you turn on APM for an existing application, the PHP and Java buildpacks add the agent when creating the droplet
- This means that restarting the application will not turn on APM
  - cf push uploads files and creates a droplet, optionally starts the app
  - cf restage creates a droplet
  - cf restart creates new app instances from the existing droplet- will not create a new droplet



restart uses the *existing* droplet

#### Creating the New Relic Service Instance



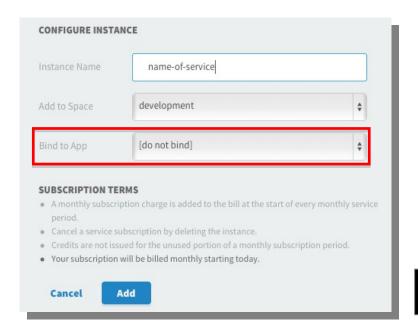


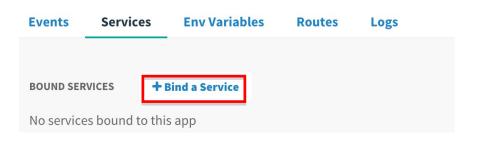
cf CLI

>\$ cf create-service newrelic standard apm

#### Bind Service Instance to an Application

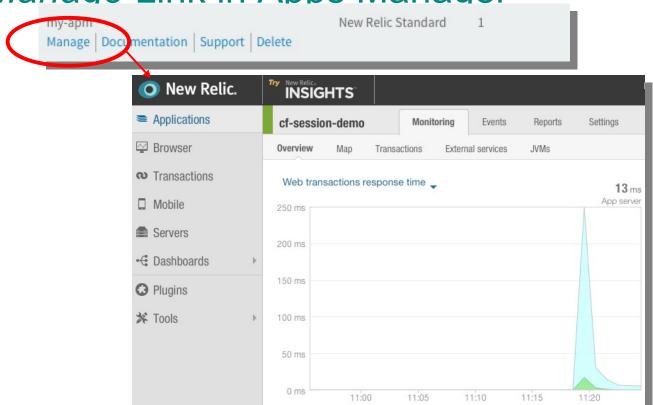
- Bind in Apps Manager when creating the service instance or from the Services tab for the application
- Use the cf CLI





>\$ cf bind-service your-app apm

## Access Data for the Service Instance via the Manage Link in Apps Manager



#### Lab

Configuring APM with Cloud Foundry