

# 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

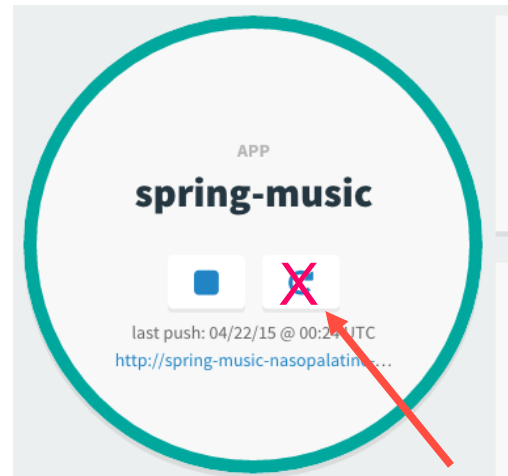
# Example- Pivotal Web Services and New Relic



- 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

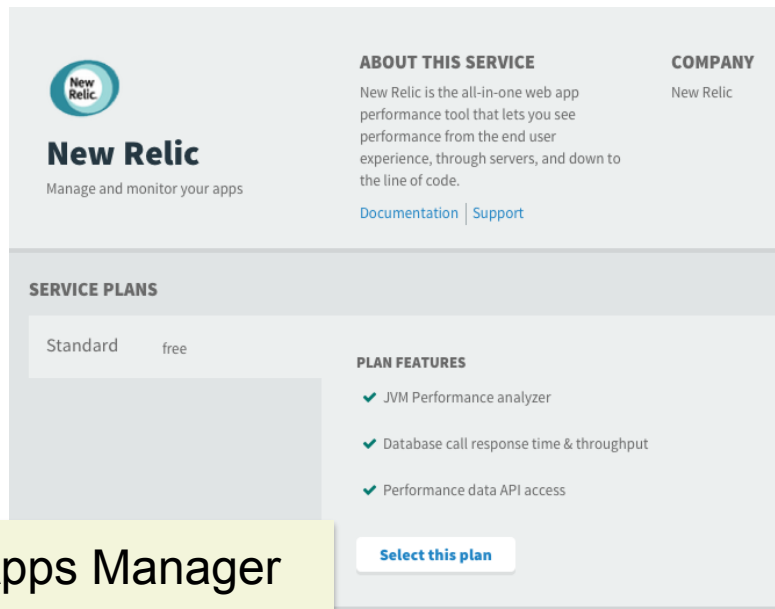
# Pushing, Staging, Restarting

- 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



The screenshot shows the New Relic service page in the Apps Manager. It includes the New Relic logo, a description of the service, and a list of service plans. The 'Standard' plan is highlighted, and its features are listed: JVM Performance analyzer, Database call response time & throughput, and Performance data API access. A 'Select this plan' button is visible.

**New Relic**  
Manage and monitor your apps

**ABOUT THIS SERVICE**  
New Relic is the all-in-one web app performance tool that lets you see performance from the end user experience, through servers, and down to the line of code.  
[Documentation](#) | [Support](#)

**COMPANY**  
New Relic

**SERVICE PLANS**

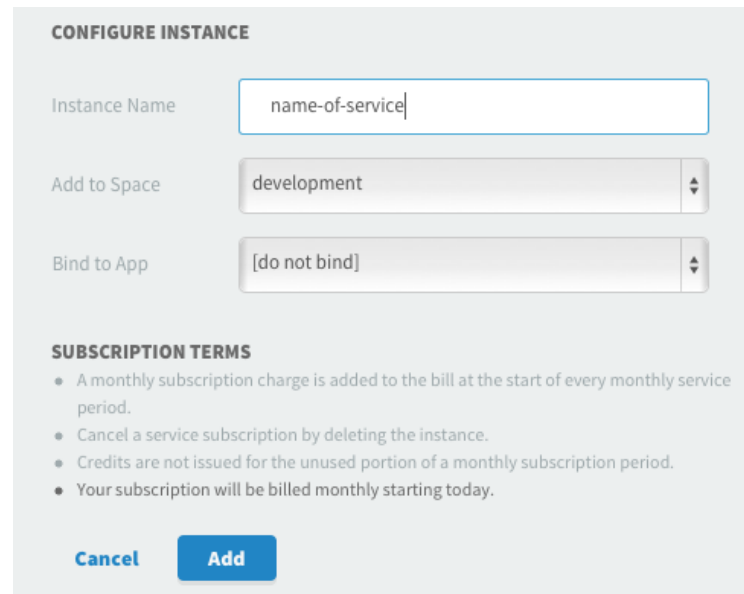
Standard    free

**PLAN FEATURES**

- ✓ JVM Performance analyzer
- ✓ Database call response time & throughput
- ✓ Performance data API access

[Select this plan](#)

Apps Manager



The screenshot shows the 'CONFIGURE INSTANCE' form. It includes fields for 'Instance Name', 'Add to Space', and 'Bind to App'. The 'Instance Name' field contains 'name-of-service', 'Add to Space' is set to 'development', and 'Bind to App' is set to '[do not bind]'. Below the form are 'Cancel' and 'Add' buttons.

**CONFIGURE INSTANCE**

Instance Name

Add to Space

Bind to App

**SUBSCRIPTION TERMS**

- A monthly subscription charge is added to the bill at the start of every monthly service period.
- Cancel a service subscription by deleting the instance.
- Credits are not issued for the unused portion of a monthly subscription period.
- Your subscription will be billed monthly starting today.

[Cancel](#) [Add](#)

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

**CONFIGURE INSTANCE**

Instance Name

Add to Space

Bind to App

**SUBSCRIPTION TERMS**

- A monthly subscription charge is added to the bill at the start of every monthly service period.
- Cancel a service subscription by deleting the instance.
- Credits are not issued for the unused portion of a monthly subscription period.
- Your subscription will be billed monthly starting today.

[Cancel](#) [Add](#)

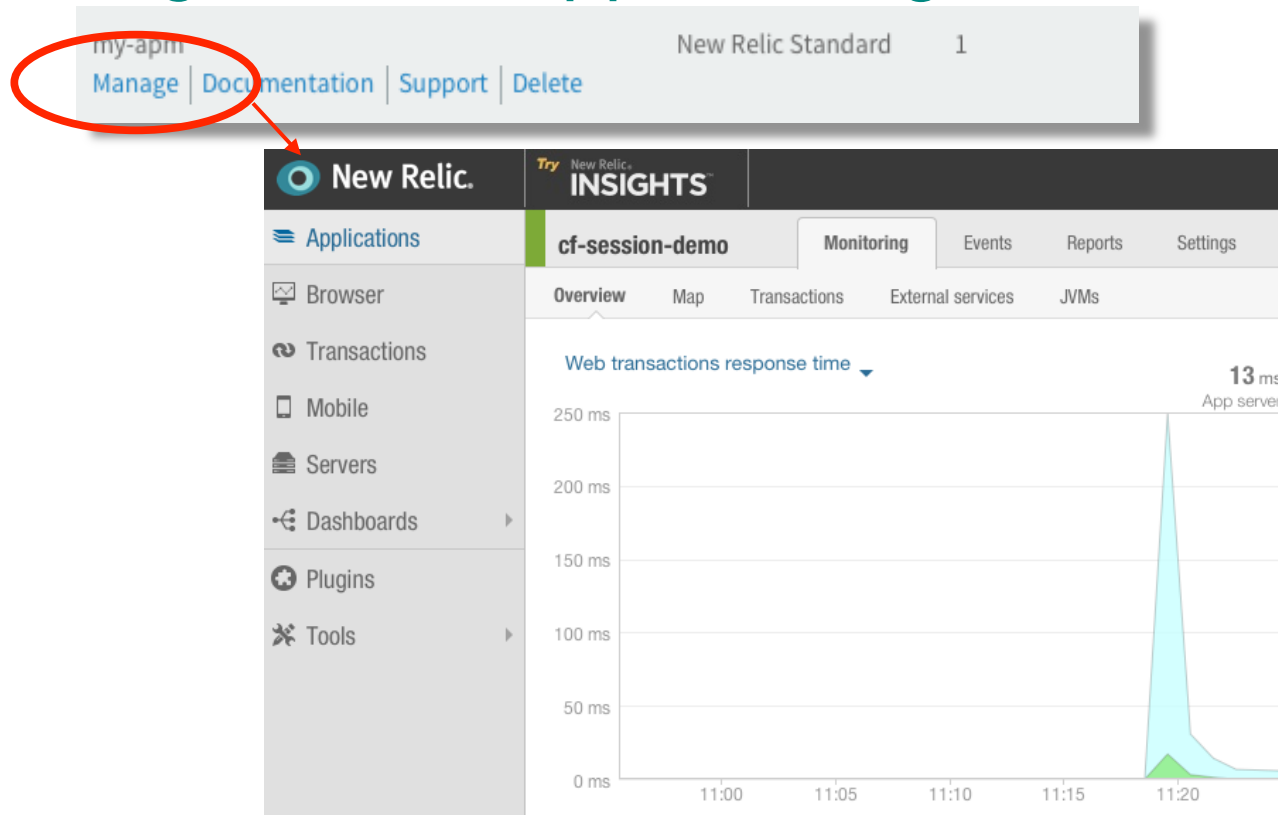
**Events** **Services** **Env Variables** **Routes** **Logs**

**BOUND SERVICES** [+ Bind a Service](#)

No services bound to this app

```
>$ 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