



Spring Hidden Gems: Cloud Scheduling

<https://github.com/spring-cloud/spring-cloud-scheduler>

Twitter: cppwfs



What does a scheduler need to do:

- Create Schedules for applications (artifact)
- Remove Schedules (unschedule)
- List available Schedules



Scheduling that is available in the Cloud

Cloud Foundry - PCF Scheduler

Kubernetes Cron Jobs



By Hand Cloud Foundry

```
cf push test-app -p test-app.jar
```

```
cf create-job test-app my-schedule-job  
"JAVA_OPTS=\"...\""
```

```
cf schedule-job my-schedule-job "0 12 ? * *"
```



By Hand Kubernetes

```
kubectl run mysched --schedule="*/5 * * * *"  
--restart=Never  
--image=springcloud/spring-cloud-scheduler-spi-test-app
```

Similarities



- A **schedule name** was applied to an application name
- An **application** was specified (one pushed the other pulled from a repository)
- An ability to pass in command line args and environment variables(properties)
- and...



Similarities

It's full of CRON!



Spring Cloud Scheduler

```
void schedule(ScheduleRequest scheduleRequest);  
void unschedule(String scheduleName);  
List<ScheduleInfo> list() ;  
...
```




Now to see some code



Spring Cloud Scheduler:

- **Spring Cloud Scheduler Cloud Foundry: 1.0.0 Release**
- **Spring Cloud Scheduler Kubernetes: In Transit**



Demo Location

<https://github.com/cppwfs/cloudscheduledemo>