# **CLAIRVOYANT**







design

engineer deliver

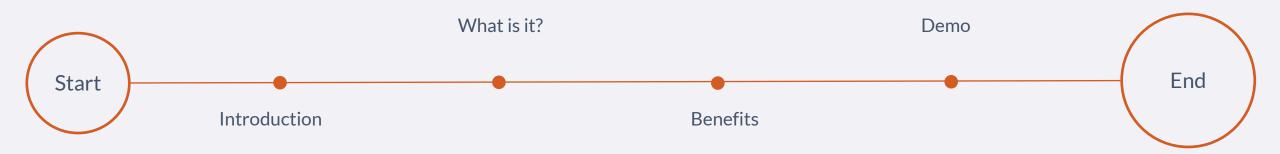
# Centralised configuration management with Spring cloud config

Team

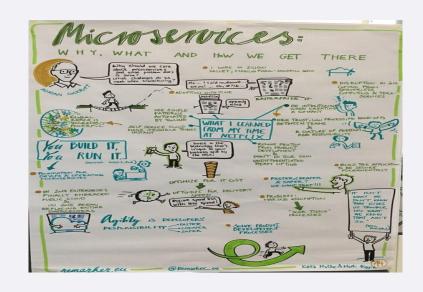
Clairvoyant India Pvt. Ltd.

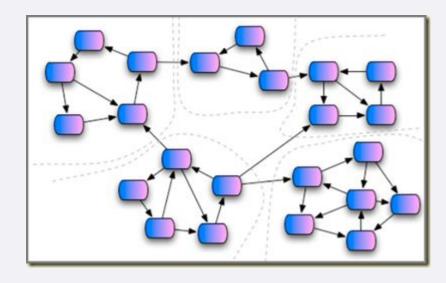


# Agenda



### Introduction



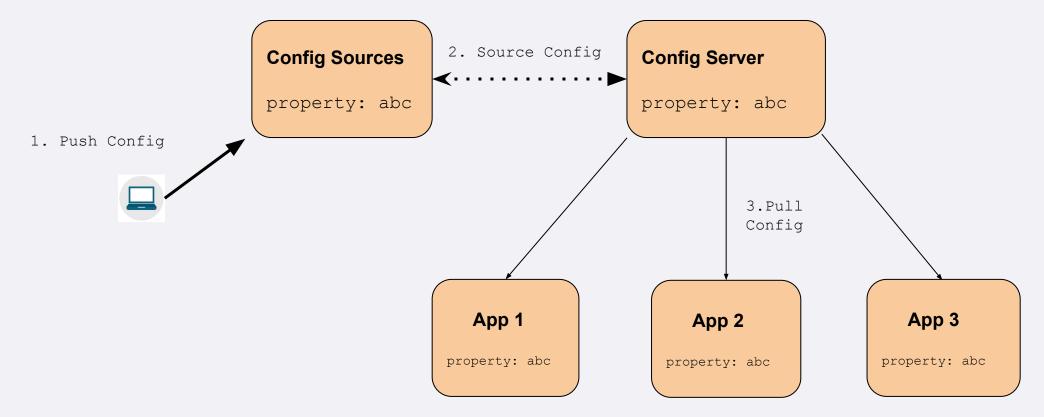




#### The Problem

- Changes to an application's configuration require restarts
- There is no traceability: how do we determine what changes were introduced into production and, if necessary, roll back?
- Configuration is de-centralized and it's not immediately apparent where to go to change what.
- Sometimes configuration values should be encrypted and decrypted for security. There is no out-of-the-box support for this.

#### What is it?



## The Configuration Sources

- It contains one or more configuration files that can be used by one or more applications.
- Each file is applied to an application and can be applied to a specific *profile* and / or *label*.

```
master
-----
https://github.com/clairvoyant/configurations
|- meetup.yml
|- meetup-development.yml
|- meetup-production.yml

dev-1.0.0
------
https://github.com/clairvoyant/configurations
|- meetup.yml
|- meetup-development.yml
|- meetup-production.yml
```

## The Config Server

Spring Cloud Config Server features:

- HTTP, resource-based API for external configuration (name-value pairs, or equivalent YAML content)
- Encrypt and decrypt property values (symmetric or asymmetric)
- Embeddable easily in a Spring Boot application using <code>@EnableConfigServer</code>

# The Config Client

- Bind to the Config Server and initialize Spring Environment with remote property sources
- Encrypt and decrypt property values (symmetric or asymmetric)

#### Benefits

- We no longer require to restart the application.
- We can track the configuration changes and roll back if needed.
- Configuration is centralized and so we know where to go and change.
- We can encrypt sensitive data



### **About Clairvoyant**

Clairvoyant is an innovative company that is helping businesses redefine their operations and decision making processes by changing their business data into actionable outcomes. Through innovative products and services, Clairvoyant facilitates the journey to cloud computing in a cost-effective and agile manner. We provide best-in-class services and solutions that leverage Big Data and continually meet and exceed client expectations. Our deep vertical knowledge helps support purpose-built solutions to meets our client's unique business requirements.

#### **Our Services**

**Big Data and Analytics Managed Services Enterprise Development Design Studio** 

To know more check: www.clairvoyantsoft.com



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careersindia@clairvoyantsoft.com

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# whatis

#### Copyright and References

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