

SESSION SIX

Spring Cloud Config

Spring Config Context

Configuration for Spring can generally be described as values which wire up Spring Beans

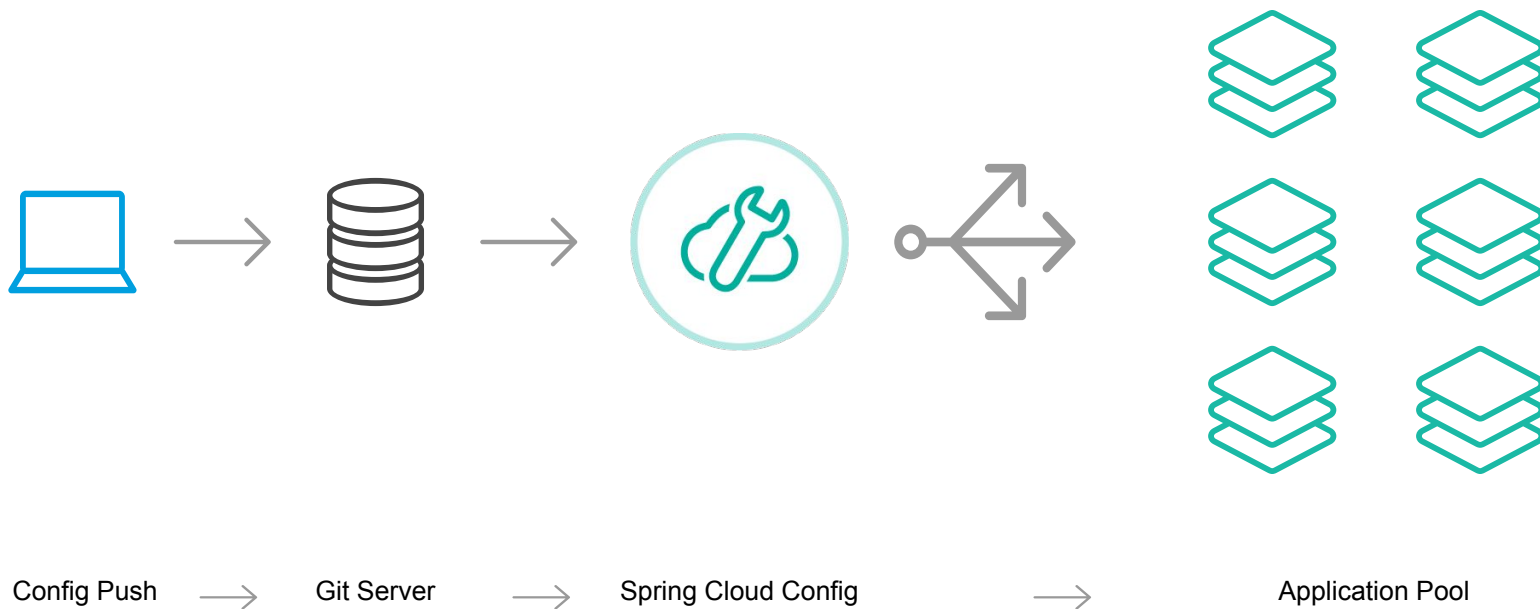
- Externalizing Configurations
 - Command Line
 - Environment Variables
 - Spring Config Server
- Challenges
 - Changes Require Restarts
 - No Auditing

HTTP-based API

Asymmetric & Symmetric
Encryption Options

Spring Boot Embeddable

Configuration Workflow



Spring Config Server

```
@Configuration
@EnableAutoConfiguration
@RestController
public class Application {

    @Value("${config.name}")
    String name = "World";

    @RequestMapping("/")
    public String home() {
        return "Hello " + name;
    }

    public static void main(String[] args) {
        SpringApplication.run(Application.class, args);
    }
}
```

application.yml

```
spring:
  cloud:
    config:
      server:
        git:
          uri: <repo>
```

demo.yml

```
name: "mike"
```

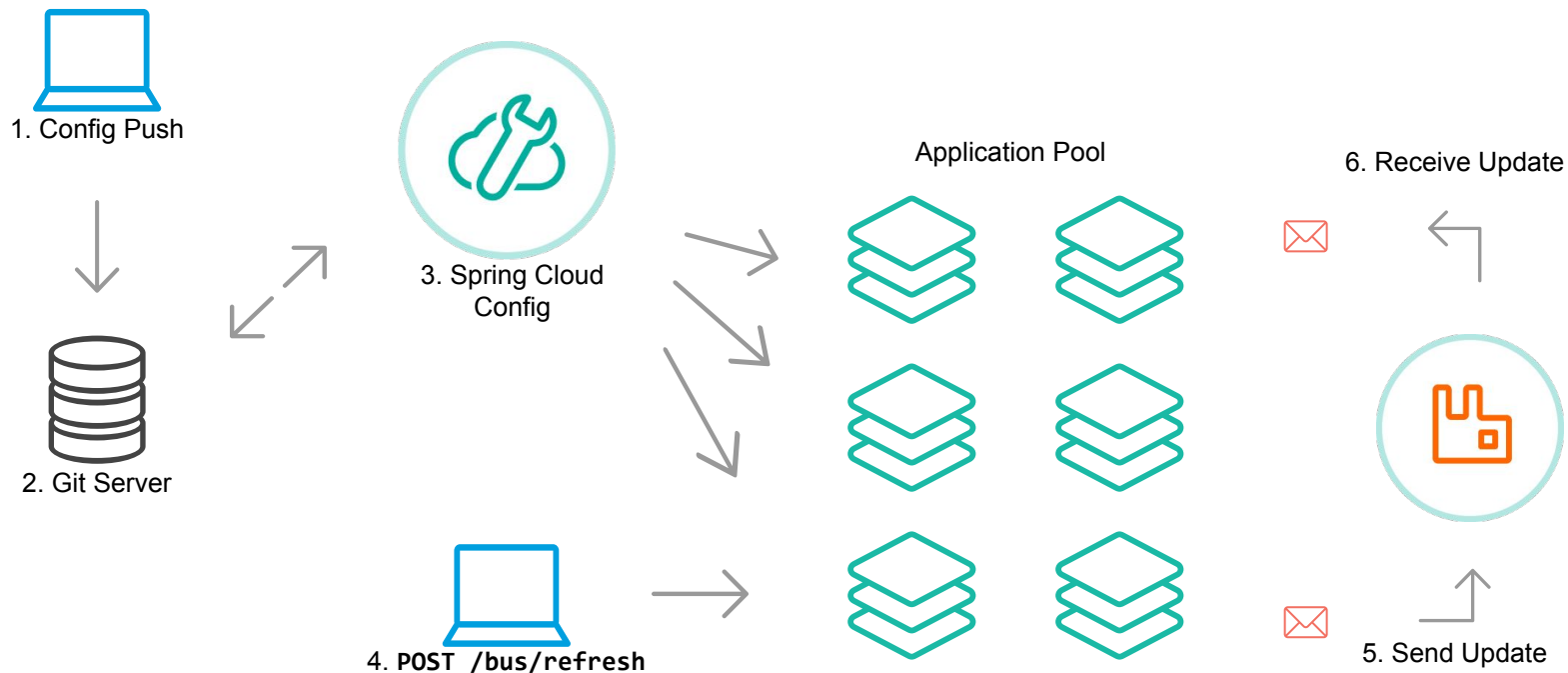
Refreshing Context

Publisher -> Subscriber

- Update all applications easily
- Spring Cloud Bus
- Easy as **POST**
 - One Command
 - Update Everywhere



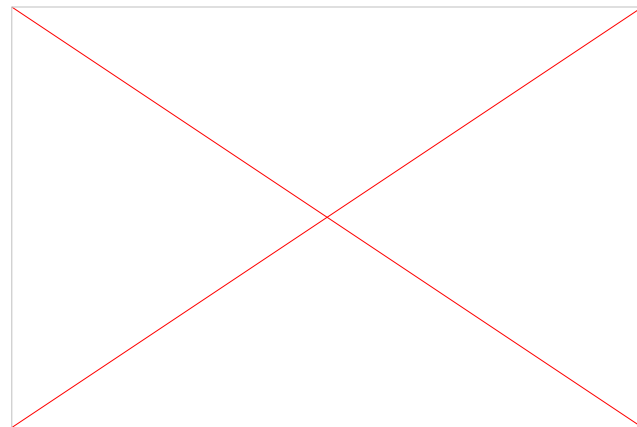
Spring Cloud Bus Workflow



Spring Cloud Services: Config Server

Cloud Foundry Marketplace

- Automated Config Server Deployment
- Specify Git URL
- Bind onto Cloud Foundry App
- *Optionally* bind in RabbitMQ for Cloud Bus



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Questions?

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Lab: Spring Cloud Config