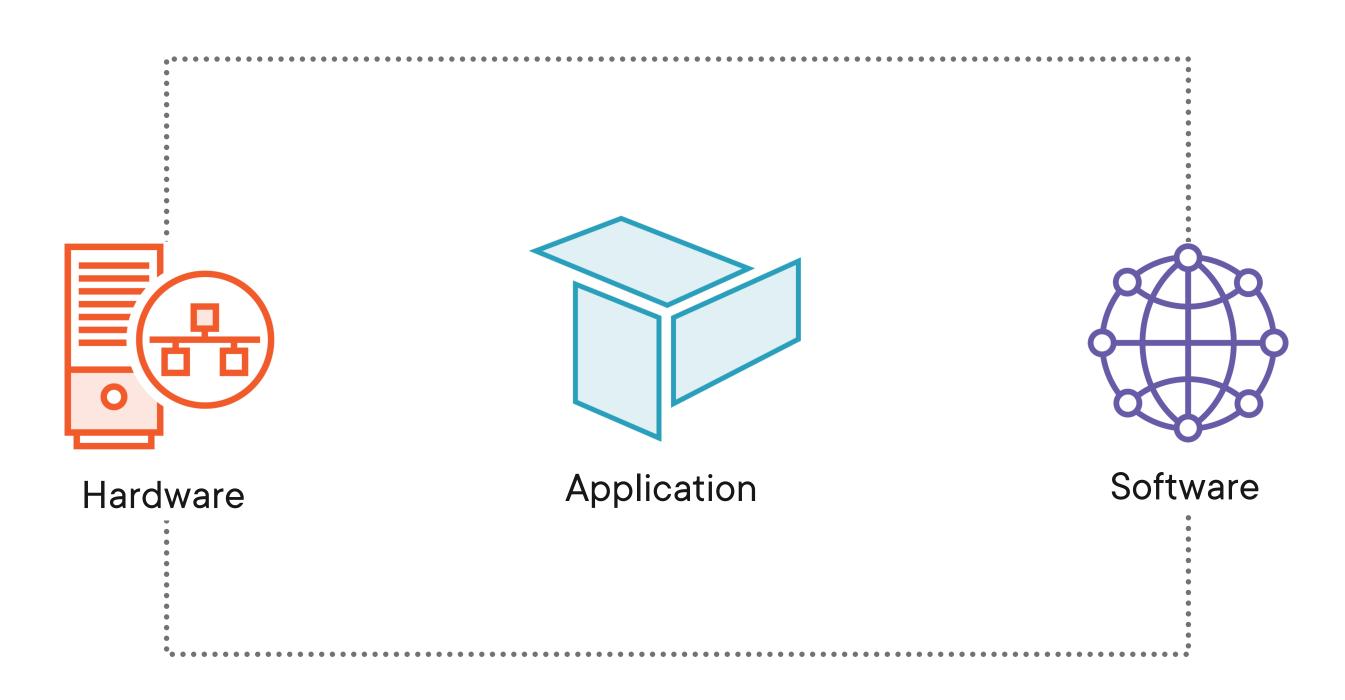
# Configuring Micronaut Applications



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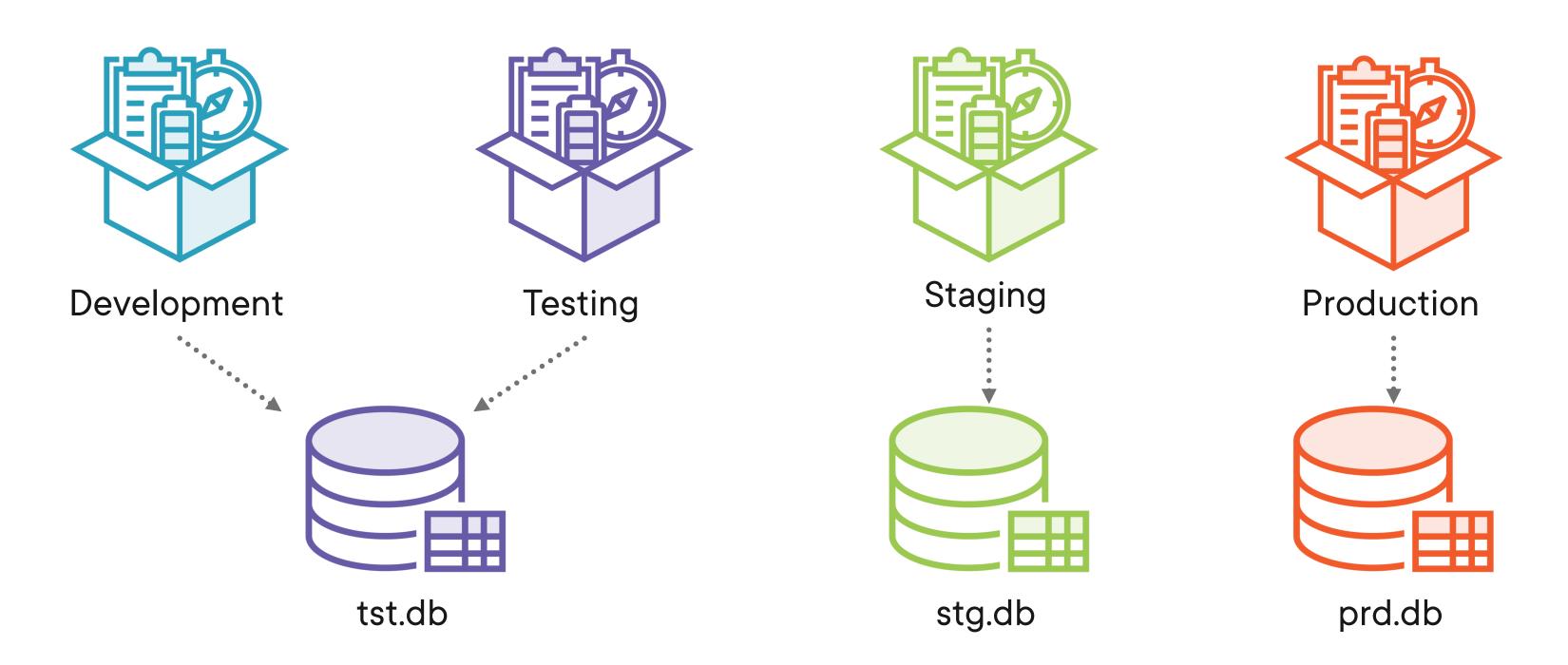
## Environment



## Development Lifecycle

**Testing Development Production** Staging

## Environments

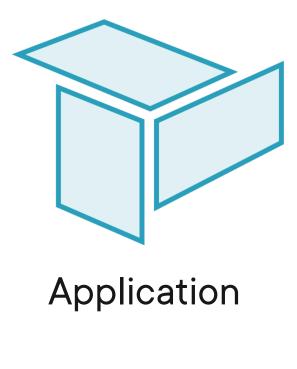


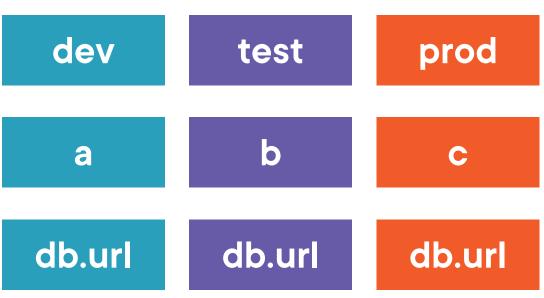
## Properties

**External resources** Internal configuration Credentials **Feature flags** 



## Environment Priority





**Application Context Builder** 

MICRONAUT\_ENVIRONMENTS

micronaut.environments

**Default environment** 

## Property Sources

**Command line arguments** 

SPRING\_APPLICATION\_JSON

MICRONAUT\_APPLICATION\_JSON

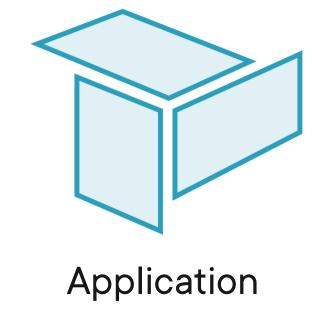
**Java System Properties** 

OS environment variables

micronaut.config.files

application-{environment}.{extension}

application.{extension}







## Demo



**Configuration injection** 

**Environments** 

## Injecting Maps and Lists

## Injecting Maps

#### application.yaml

```
sensor:
thresholds:
  temp: 550
  humidity: 80
  fan-speed: 1500
```

#### LightProperties.java

```
@ConfigurationProperties("sensor")
class SensorsProperties {

@MapFormat(transformation =
          MapFormat.MapTransformation.FLAT)
Map<String, String> thresholds;
}
```

## @EachProperty

#### application.yaml

```
updates:
    one:
        url: https://updates.one
        two:
        url: https://updates.two
        three:
        url: https://updates.three
```

#### ReportsProperties.java

```
@EachProperty(value = "updates")
class UpdatesSourceConfiguration {
   String name;
   String url;
}
```

## Injecting Lists

#### application.yaml

```
updates:
urls:
```

- https://updates.one
- https://updates.two
- https://updates.three

#### ReportsProperties.java

```
@Property(name= "updates.urls")
List<String> urls;
```

## @EachProperty

#### application.yaml

```
updates:
  urls:
```

- https://updates.one
- https://updates.two
- https://updates.three

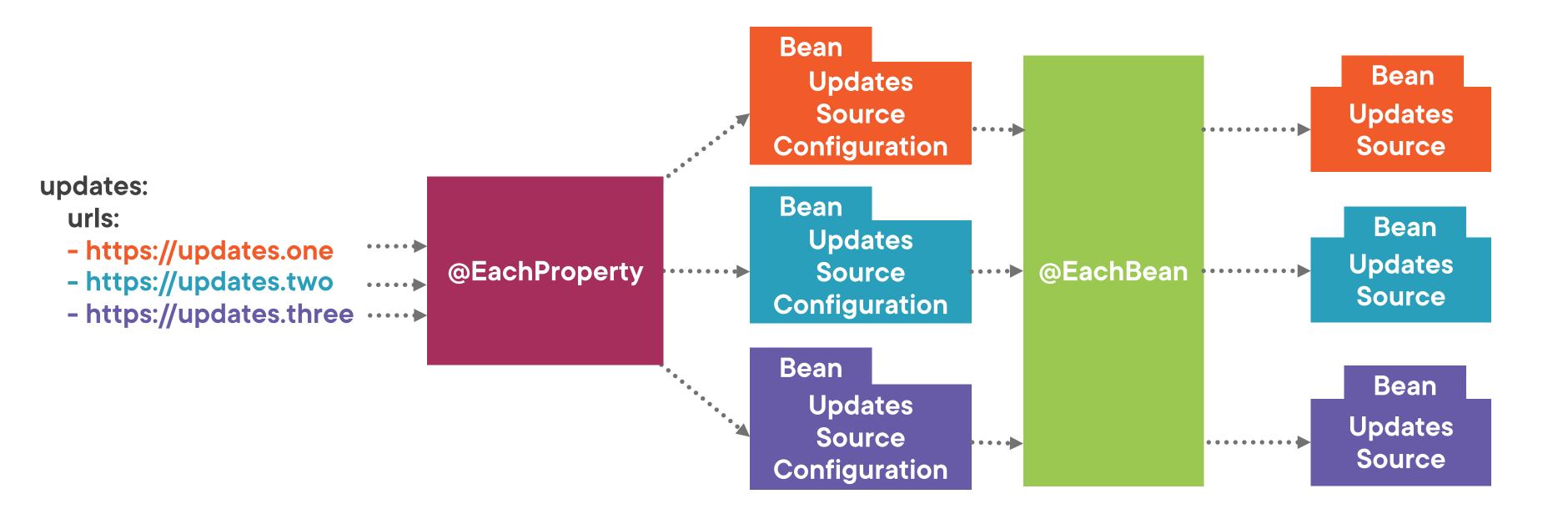
#### ReportsProperties.java

## @EachBean

#### Filename.code

```
@Factory
class ReportService {
    @EachBean(UpdatesSourceConfiguration.class)
    UpdatesSource updatesSource(UpdatesSourceConfiguration configuration) {
      return new UpdatesSource(configuration);
    }
}
```

## @EachProperty and @EachBean



## Demo



**Dynamic bean creation** 

Easter egg



# Up Next: Creating Aspects