自定义 SpringApplicationRunListener

前面分析了 spring.factories 启动执行逻辑,现在使用它来定制 监听 SpringApplicationRunListener 事件

1,新建 spring.factories

在项目的 resource/META-INF/spring.factories 里面添加 1 行 org. springframework.boot.SpringApplicationRunListener=com. allen. spring.src.lear ning.springApplicationRunListener.SpringApplicationRunListenerDemo

2, 实现 SpringApplicationRunListener 接口

新建 SpringApplicationRunListenerDemo 类,并且实现 SpringApplicationRunListener 接口

```
package com. allen. spring. src. learning. springApplicationRunListener;

@Slf4j

public class SpringApplicationRunListenerDemo implements SpringApplicationRunListener {

/*

必须要 有这个构造函数

因为 在 createSpringFactoriesInstances 方法里面 获取了下面的构造器

Constructor<??> constructor = instanceClass. getDeclaredConstructor(parameterTypes);

*/

public SpringApplicationRunListenerDemo(SpringApplication application, String[] args) {
}

@Override

public void starting() {
```

```
log.info("!!!!!! SpringApplicationRunListener starting..");
@Override
public\ void\ environment Prepared (Configurable Environment\ environment)\ \{
      log.info("!!!!!! SpringApplicationRunListener environmentPrepared..");
@Override
public void contextPrepared(ConfigurableApplicationContext context) {
      log.info("!!!!!! SpringApplicationRunListener contextPrepared..");
@Override
public\ void\ contextLoaded (Configurable Application Context\ context)\ \{
      log.info("!!!!!! SpringApplicationRunListener contextLoaded..");
@Override
public void started(ConfigurableApplicationContext context) {
      log.info("!!!!!! SpringApplicationRunListener started..");
@Override
public\ void\ running\ (Configurable Application Context\ context)\ \{
      log.info("!!!!!! SpringApplicationRunListener running..");
@Override
public void failed(ConfigurableApplicationContext context, Throwable exception) {
      log.info("!!!!!! SpringApplicationRunListener failed..");
```

3, SpringApplicationRunListener 调用分析。

```
在 SpringApplication 构造器中 执行 设置 listener : 代码
this.setListeners(this.getSpringFactoriesInstances(ApplicationListener.class)); 详见:
public SpringApplication(ResourceLoader resourceLoader, Class... primarySources) {
```

```
this.setInitializers(this.getSpringFactoriesInstances(ApplicationContextInitializer.class));
this.setListeners(this.getSpringFactoriesInstances(ApplicationListener.class));
this.mainApplicationClass = this.deduceMainApplicationClass();

在 run 方法里面 执行了 相关的方法调用,如下:
public ConfigurableApplicationContext run(String... args) {
    prepareEnvironment
    listeners.starting();
    listeners.started(context);
    listeners.running(context);
}
```