通过Spring Initializr创建项目

zipkin没有spring cloud的依赖，另行导入

添加如下依赖

```
1  <dependency>
```

```
 2    <groupId>io.zipkin.java</groupId>
 3    <artifactId>zipkin-server</artifactId>
 4    <version>2.7.1</version>
 5  </dependency>
 6  <dependency>
 7    <groupId>io.zipkin.java</groupId>
 8    <artifactId>zipkin-autoconfigure-ui</artifactId>
 9    <version>2.7.1</version>
10  </dependency>
```

启动项目后报错

```
 1 Error starting ApplicationContext. To display the conditions report re-ru
n your application with 'debug' enabled.
 2 2019-01-18 15:25:41.487 ERROR 14572 --- [ main] o.s.boot.SpringApplicatio
n : Application run failed
 3
 4 org.springframework.beans.factory.BeanDefinitionStoreException: Failed to
process import candidates for configuration class [zipkin.server.internal.I
nternalZipkinConfiguration]; nested exception is java.lang.IllegalStateExce
ption: Failed to introspect annotated methods on class zipkin.server.intern
al.ZipkinServerConfiguration
 5    at org.springframework.context.annotation.ConfigurationClassParser.proce
ssImports(ConfigurationClassParser.java:599) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
 6    at org.springframework.context.annotation.ConfigurationClassParser.doPro
cessConfigurationClass(ConfigurationClassParser.java:302) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
 7    at org.springframework.context.annotation.ConfigurationClassParser.proce
ssConfigurationClass(ConfigurationClassParser.java:242) ~[spring-context-5.
1.4.RELEASE.jar:5.1.4.RELEASE]
 8    at org.springframework.context.annotation.ConfigurationClassParser.proce
ssImports(ConfigurationClassParser.java:589) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
 9    at org.springframework.context.annotation.ConfigurationClassParser.doPro
cessConfigurationClass(ConfigurationClassParser.java:302) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
10    at org.springframework.context.annotation.ConfigurationClassParser.proc
essConfigurationClass(ConfigurationClassParser.java:242) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
11    at org.springframework.context.annotation.ConfigurationClassParser.pars
e(ConfigurationClassParser.java:199) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
12    at org.springframework.context.annotation.ConfigurationClassParser.pars
e(ConfigurationClassParser.java:167) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]
```

```
13    at org.springframework.context.annotation.ConfigurationClassPostProcess
or.processConfigBeanDefinitions(ConfigurationClassPostProcessor.java:315) ~
[spring-context-5.1.4.RELEASE.jar:5.1.4.RELEASE]

14    at org.springframework.context.annotation.ConfigurationClassPostProcess
or.postProcessBeanDefinitionRegistry(ConfigurationClassPostProcessor.java:2
32) ~[spring-context-5.1.4.RELEASE.jar:5.1.4.RELEASE]

15    at org.springframework.context.support.PostProcessorRegistrationDelegat
e.invokeBeanDefinitionRegistryPostProcessors(PostProcessorRegistrationDeleg
ate.java:275) ~[spring-context-5.1.4.RELEASE.jar:5.1.4.RELEASE]

16    at org.springframework.context.support.PostProcessorRegistrationDelegat
e.invokeBeanFactoryPostProcessors(PostProcessorRegistrationDelegate.java:95
~[spring-context-5.1.4.RELEASE.jar:5.1.4.RELEASE]

17    at org.springframework.context.support.AbstractApplicationContext.invok
eBeanFactoryPostProcessors(AbstractApplicationContext.java:691) ~[spring-co
ntext-5.1.4.RELEASE.jar:5.1.4.RELEASE]

18    at org.springframework.context.support.AbstractApplicationContext.refre
sh(AbstractApplicationContext.java:528) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]

19    at org.springframework.boot.web.servlet.context.ServletWebServerApplica
tionContext.refresh(ServletWebServerApplicationContext.java:142) ~[spring-b
oot-2.1.2.RELEASE.jar:2.1.2.RELEASE]

20    at
org.springframework.boot.SpringApplication.refresh(SpringApplication.java:7
75) [spring-boot-2.1.2.RELEASE.jar:2.1.2.RELEASE]

21    at org.springframework.boot.SpringApplication.refreshContext(SpringAppl
ication.java:397) [spring-boot-2.1.2.RELEASE.jar:2.1.2.RELEASE]

22    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:316) [spring-boot-2.1.2.RELEASE.jar:2.1.2.RELEASE]

23    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:1260) [spring-boot-2.1.2.RELEASE.jar:2.1.2.RELEASE]

24    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:1248) [spring-boot-2.1.2.RELEASE.jar:2.1.2.RELEASE]

25    at
com.xzlgroup.zipkin.ZipkinApplication.main(ZipkinApplication.java:14) [clas
ses/:na]

26  Caused by: java.lang.IllegalStateException: Failed to introspect annotat
ed methods on class zipkin.server.internal.ZipkinServerConfiguration

27    at org.springframework.core.type.StandardAnnotationMetadata.getAnnotate
dMethods(StandardAnnotationMetadata.java:169) ~[spring-core-5.1.4.RELEASE.j
ar:5.1.4.RELEASE]

28    at org.springframework.context.annotation.ConfigurationClassParser.retr
ieveBeanMethodMetadata(ConfigurationClassParser.java:392) ~[spring-context-
5.1.4.RELEASE.jar:5.1.4.RELEASE]

29    at org.springframework.context.annotation.ConfigurationClassParser.doPr
ocessConfigurationClass(ConfigurationClassParser.java:317) ~[spring-
context-5.1.4.RELEASE.jar:5.1.4.RELEASE]

30    at org.springframework.context.annotation.ConfigurationClassParser.proc
essConfigurationClass(ConfigurationClassParser.java:242) ~[spring-context-
```

```
     5.1.4.RELEASE.jar:5.1.4.RELEASE]
31    at org.springframework.context.annotation.ConfigurationClassParser.proc
essImports(ConfigurationClassParser.java:589) ~[spring-context-5.1.4.RELEAS
E.jar:5.1.4.RELEASE]
32    ... 20 common frames omitted
33  Caused by: java.lang.NoClassDefFoundError: org/springframework/boot/cont
ext/embedded/undertow/UndertowEmbeddedServletContainerFactory
34    at java.lang.Class.getDeclaredMethods0(Native Method) ~[na:1.8.0_162]
35    at java.lang.Class.privateGetDeclaredMethods(Class.java:2701) ~[na:1.8.
0_162]
36    at java.lang.Class.getDeclaredMethods(Class.java:1975) ~[na:1.8.0_162]
37    at org.springframework.core.type.StandardAnnotationMetadata.getAnnotate
dMethods(StandardAnnotationMetadata.java:158) ~[spring-core-5.1.4.RELEASE.j
ar:5.1.4.RELEASE]
38    ... 24 common frames omitted
39  Caused by: java.lang.ClassNotFoundException: org.springframework.boot.co
ntext.embedded.undertow.UndertowEmbeddedServletContainerFactory
40    at java.net.URLClassLoader.findClass(URLClassLoader.java:381) ~[na:1.8.
0_162]
41    at java.lang.ClassLoader.loadClass(ClassLoader.java:424) ~
[na:1.8.0_162]
42    at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:338) ~
[na:1.8.0_162]
43    at java.lang.ClassLoader.loadClass(ClassLoader.java:357) ~
[na:1.8.0_162]
44    ... 28 common frames omitted
45
46
47  Process finished with exit code 1
```

这个问题可以查看github上的议题

> https://github.com/spring-cloud/spring-cloud-sleuth/issues/912

最终官方给未出的大概意思就是：

升级到springboot 2.0后，zipkin不允许制作自定义服务器，即用IDE启动zipkin

推荐直接部署服务：https://github.com/openzipkin/zipkin#quick-start

执行官方命令

1.下载jar包

```
1  curl -sSL https://zipkin.io/quickstart.sh | bash -s
```

```
1  ➜ zipkin curl -sSL https://zipkin.io/quickstart.sh | bash -s
2  Thank you for trying OpenZipkin!
3  This installer is provided as a quick-start helper, so you can try Zipkin
   out
4  without a lengthy installation process.
5
6  Fetching version number of latest io.zipkin.java:zipkin-server release...
7  jq not found on path. This script will still do its best, but installing
   jq
8  will allow it to parse data from Bintray in a more robust fashion.
9  > curl -SL 'https://api.bintray.com/search/packages/maven?g=io.zipkin.jav
   a&a=zipkin-server&subject=openzipkin'
10   % Total % Received % Xferd Average Speed Time Time Time Current
11   Dload Upload Total Spent Left Speed
12  100 4742 0 4742 0 0 1411 0 --:--:-- 0:00:03 --:--:-- 1411
13  Latest release of io.zipkin.java:zipkin-server seems to be 2.12.0
14
15  Downloading io.zipkin.java:zipkin-server:2.12.0:exec to zipkin.jar...
16  > curl -fL -o 'zipkin.jar' 'https://dl.bintray.com/openzipkin/maven/io/z
   ipkin/java/zipkin-server/2.12.0/zipkin-server-2.12.0-exec.jar'
17   % Total % Received % Xferd Average Speed Time Time Time Current
18   Dload Upload Total Spent Left Speed
19   0 0 0 0 0 0 0 0 --:--:-- 0:00:01 --:--:-- 0
20  100 37.8M 100 37.8M 0 0 559k 0 0:01:09 0:01:09 --:--:-- 302k
21
22  Verifying checksum...
23  > curl -fL -o 'zipkin.jar.md5' 'https://dl.bintray.com/openzipkin/maven/
   io/zipkin/java/zipkin-server/2.12.0/zipkin-server-2.12.0-exec.jar.md5'
24   % Total % Received % Xferd Average Speed Time Time Time Current
25   Dload Upload Total Spent Left Speed
26  100 32 100 32 0 0 27 0 0:00:01 0:00:01 --:--:-- 27
27  > md5sum --check <<< "$(cat zipkin.jar.md5) zipkin.jar"
28  zipkin.jar: OK
29  Checksum for zipkin.jar passes verification
30
31  Verifying GPG signature of zipkin.jar...
32  > curl -fL -o 'zipkin.jar.asc' 'https://dl.bintray.com/openzipkin/maven/
   io/zipkin/java/zipkin-server/2.12.0/zipkin-server-2.12.0-exec.jar.asc'
33   % Total % Received % Xferd Average Speed Time Time Time Current
34   Dload Upload Total Spent Left Speed
35  100 821 100 821 0 0 553 0 0:00:01 0:00:01 --:--:-- 553
```

```
36
37  JFrog BinTray GPG signing key is not known, skipping signature verificat
    ion.
38  You can import it, then verify the signature of zipkin.jar, using the fo
    llowing
39  commands:
40
41    gpg --keyserver keyserver.ubuntu.com --recv D401AB61
42    # Optionally trust the key via 'gpg --edit-key D401AB61', then typing
    'trust',
43    # choosing a trust level, and exiting the interactive GPG session by 'q
    uit'
44    gpg --verify zipkin.jar.asc zipkin.jar
45
46
47  Verifying GPG signature of zipkin.jar.md5...
48  > curl -fL -o 'zipkin.jar.md5.asc' 'https://dl.bintray.com/openzipkin/ma
    ven/io/zipkin/java/zipkin-server/2.12.0/zipkin-server-2.12.0-exec.jar.md5.a
    sc'
49    % Total % Received % Xferd Average Speed Time Time Time Current
50    Dload Upload Total Spent Left Speed
51  100 821 100 821 0 0 451 0 0:00:01 0:00:01 --:--:-- 451
52
53  JFrog BinTray GPG signing key is not known, skipping signature verificat
    ion.
54  You can import it, then verify the signature of zipkin.jar.md5, using th
    e following
55  commands:
56
57    gpg --keyserver keyserver.ubuntu.com --recv D401AB61
58    # Optionally trust the key via 'gpg --edit-key D401AB61', then typing
    'trust',
59    # choosing a trust level, and exiting the interactive GPG session by 'q
    uit'
60    gpg --verify zipkin.jar.md5.asc zipkin.jar.md5
61
62
63  You can now run the downloaded executable jar:
64
65    java -jar zipkin.jar
```

2.运行jar包

```
1  java -jar zipkin.jar
```

```
1  ➜ zipkin java -jar zipkin.jar
2   ********
3   ** **
4   * *
5   ** **
6   ** **
7   ** **
8   ** **
9   ********
10   ****
11   ****
12   **** ****
13   ****** **** ***
14   ****************************************************************************
*****
15   ******* **** ***
16   **** ****
17   **
18   **
19
20
21   ***** ** ***** ** ** ** ** **
22   ** ** ** * *** ** **** **
23   ** ** ***** **** ** ** ***
24   ****** ** ** ** ** ** ** **
25
26  :: Powered by Spring Boot :: (v2.1.1.RELEASE)
27
28  2019-01-18 16:29:29.675 INFO 23822 --- [ main] z.s.ZipkinServer : Starti
ng ZipkinServer on ubuntu-ryzc with PID 23822 (/home/ryzc/springcloud/zipki
n/zipkin.jar started by ryzc in /home/ryzc/springcloud/zipkin)
29  2019-01-18 16:29:29.682 INFO 23822 --- [ main] z.s.ZipkinServer : The fo
llowing profiles are active: shared
30  2019-01-18 16:29:31.667 INFO 23822 --- [ main] i.u.servlet : Initializin
g Spring embedded WebApplicationContext
31  2019-01-18 16:29:31.668 INFO 23822 --- [ main] o.s.w.c.ContextLoader : R
oot WebApplicationContext: initialization completed in 1921 ms
32  2019-01-18 16:29:32.201 INFO 23822 --- [ main] o.s.s.c.ThreadPoolTaskExe
cutor : Initializing ExecutorService 'applicationTaskExecutor'
33  2019-01-18 16:29:32.714 INFO 23822 --- [ main] c.d.d.core : DataStax Jav
a driver 3.6.0 for Apache Cassandra
```

```
34  2019-01-18 16:29:32.729 INFO 23822 --- [ main] c.d.d.c.GuavaCompatibilit
y : Detected Guava >= 19 in the classpath, using modern compatibility layer
35  2019-01-18 16:29:33.027 INFO 23822 --- [ main] c.d.d.c.ClockFactory : Us
ing native clock to generate timestamps.
36  2019-01-18 16:29:33.221 INFO 23822 --- [ main] o.s.b.a.e.w.EndpointLinks
Resolver : Exposing 16 endpoint(s) beneath base path '/actuator'
37  2019-01-18 16:29:33.313 INFO 23822 --- [ main] o.xnio : XNIO version
3.6.5.Final
38  2019-01-18 16:29:33.328 INFO 23822 --- [ main] o.x.nio : XNIO NIO Implem
entation Version 3.6.5.Final
39  2019-01-18 16:29:33.368 INFO 23822 --- [ main] o.j.threads : JBoss Threa
ds version 2.3.2.Final
40  2019-01-18 16:29:33.501 INFO 23822 --- [ main] o.s.b.w.e.u.UndertowServl
etWebServer : Undertow started on port(s) 9411 (http) with context path ''
41  2019-01-18 16:29:33.506 INFO 23822 --- [ main] z.s.ZipkinServer : Starte
d ZipkinServer in 4.612 seconds (JVM running for 5.676)
```

启动成功

默认端口 9411

访问网页，没问题