



Code

Blame



Raw



```
56     public class RestSearchAction extends BaseRestHandler {
57
58         public List<Route> routes() {
59
60             return List.of(
61                 new Route(GET, "/_search"),
62                 new Route(POST, "/_search"),
63                 new Route(GET, "{index}/_search"),
64                 new Route(POST, "{index}/_search")
65             );
66         }
67
68         @Override
69         public Set<String> supportedCapabilities() {
70             return SearchCapabilities.CAPABILITIES;
71         }
72
73         @Override
74         public RestChannelConsumer prepareRequest(final RestRequest request, final NodeClient client) throws IOException
75             if (client.threadPool() != null && client.threadPool().getThreadContext() != null) {
76                 client.threadPool().getThreadContext().setErrorTraceTransportHeader(request);
77             }
78
79             SearchRequest searchRequest = new SearchRequest();
80             // access the BwC param, but just drop it
```

Test coverage

```
»
417 public IndexWriter(Directory d, IndexWriterConfig conf)
417     conf.setIndexWriter(this); // prevent reuse by other i
416     config = conf;
416     directory = d;
416     analyzer = config.getAnalyzer();
416     infoStream = config.getInfoStream();
416     mergeScheduler = config.getMergeScheduler();
416     codec = config.getCodec();

416     bufferedUpdatesStream = new BufferedUpdatesStream(info
416     poolReaders = config.getReaderPooling());

416     writeLock = directory.makeLock(WRITE_LOCK_NAME);

414     if (!writeLock.obtain(config.getWriteLockTimeout()) /
0     throw new LockObtainFailedException("Index locked fo

414     boolean success = false;
414     try {
414         OpenMode mode = config.getOpenMode();
414         boolean create;
414         if (mode == OpenMode.CREATE) {
963             create = true;
451         } else if (mode == OpenMode.APPEND) {
302             create = false;
        } else {
```

Actions

New workflow

All workflows

Comment on PR for .asciidoc chang...

Docs preview comment

Docs Preview Links

docs-build

docs-cleanup

updatecli-compose

Validate Gradle Wrapper

Management

 Caches

 Deployments ↗

 Attestations ↗


 Runners

 Usage metrics ↗

 Performance metrics ↗

Validate Gradle Wrapper #59459: Commit [65e2c3f](#) pushed by [davidkyle](#)



8.19

 2 weeks ago ...
 27s

 **Remove index refresh block ITs (replaced by ITs i...**

Validate Gradle Wrapper #59458: Commit [650ce32](#) pushed by [benchaplin](#)



main

 2 weeks ago ...
 27s

 **Mute org.elasticsearch.index.mapper.vectors.De...**

Validate Gradle Wrapper #59457: Commit [0b0f4f8](#) pushed by [elasticsearchmachine](#)



main

 2 weeks ago ...
 24s

 **Mute org.elasticsearch.index.mapper.vectors.De...**

Validate Gradle Wrapper #59456: Commit [6af55c2](#) pushed by [elasticsearchmachine](#)



main

 2 weeks ago ...
 1m 1s

 **[ES|QL] Implement new syntax for RERANK and ...**

Validate Gradle Wrapper #59455: Commit [d56a476](#) pushed by [afoucret](#)



main

 2 weeks ago ...
 36s

 **Add test**

Validate Gradle Wrapper #59454: Commit [9e75c14](#) pushed by [felixbarny](#)



metrics_prototype

 2 weeks ago ...
 29s

 **Upgrade MinIO (& work around bug) (#132178)**

Validate Gradle Wrapper #59453: Commit [3a285cf](#) pushed by [elasticsearchmachine](#)

8.18

 2 weeks ago ...
 28s





Push code to production

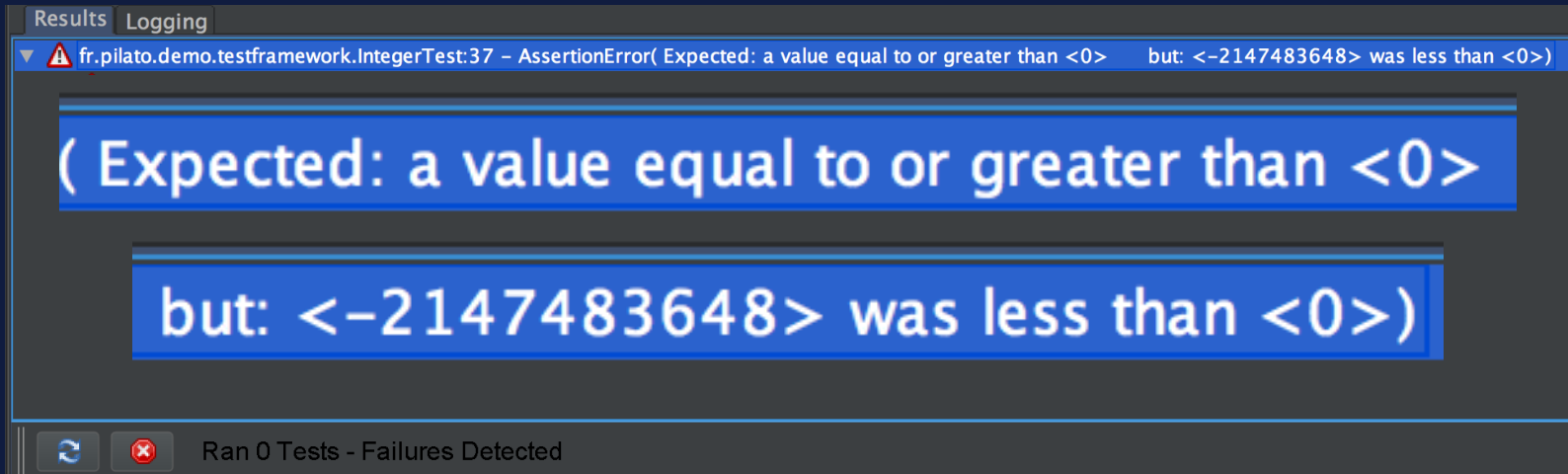
June 4th 1996

Original footage from ESA

https://www.esa.int/ESA_Multimedia/Videos/1996/06/Ariane_501_recording_launch_pad_before_and_at_launch

```
public static int generateInt(int min, int max) {  
    return ThreadLocalRandom.current().nextInt(min, max);  
}
```

```
@Test  
void testInteger() {  
    int input = generateInt(Integer.MIN_VALUE, Integer.MAX_VALUE);  
    int output = Math.abs(input);  
    assertThat(output).isGreaterThanOrEqualTo(0);  
}
```



```
int output = Math.abs(input);  
assertThat(output).isGreaterThanOrEqualTo(0);
```

Le hasard fait bien les tests

**Randomized
Testing**
Gotta Catch 'em all!



{riviera dev}

FScrawler

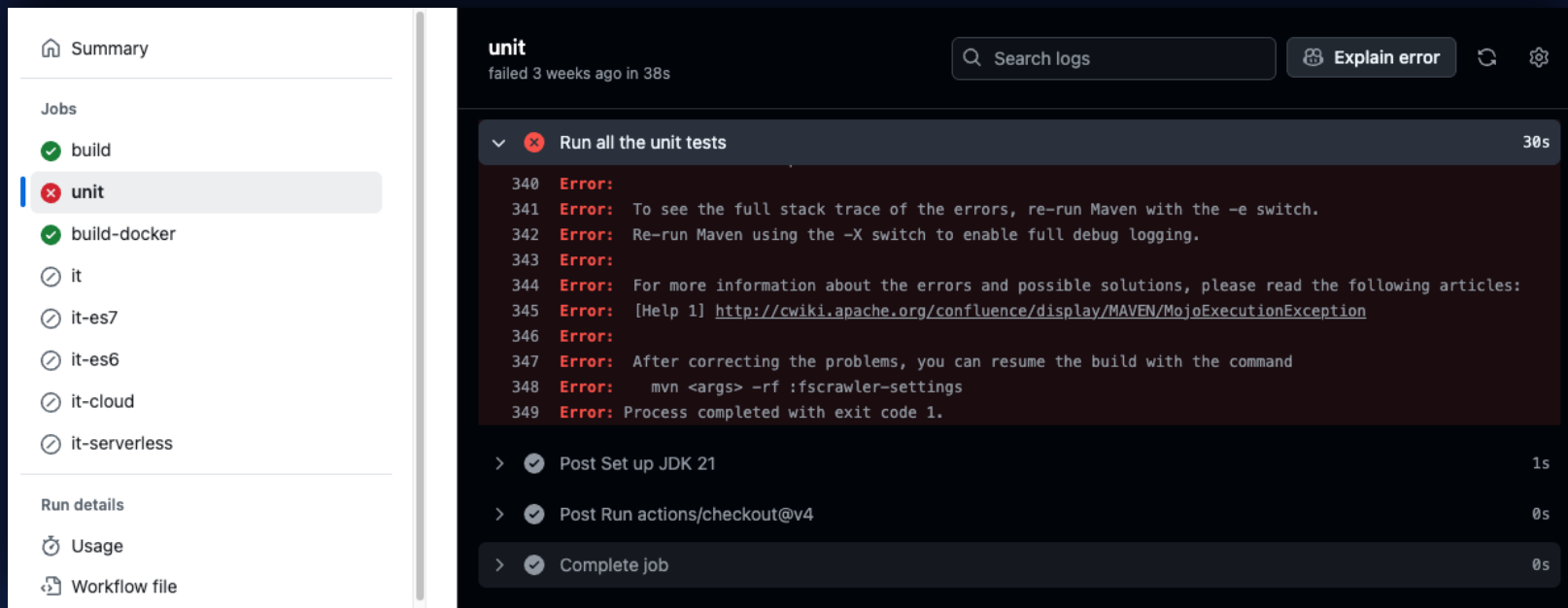
You know, for files!



github.com/dadoonet/fscrawler/

	assertj	3 months ago 1m 22s	
Switch to AssertJ CodeQL #1388: Pull request #2059 synchronize by dadoonet	assertj	3 months ago 5m 6s	
Switch to AssertJ Build Pull Requests #1195: Pull request #2059 synchronize by dadoonet	assertj	3 months ago 3m 58s	
Switch to AssertJ CodeQL #1387: Pull request #2059 synchronize by dadoonet	assertj	3 months ago 4m 53s	
Switch to AssertJ Update Pull Requests files #524: Pull request #2059 synchronize by dadoonet	assertj	3 months ago 1m 12s	
Switch to AssertJ Update Pull Requests files #523: Pull request #2059 synchronize by dadoonet	assertj	3 months ago 1m 10s	
Switch to AssertJ	assertj	3 months ago 	

https://github.com/dadoonet/fscrawler/actions/runs/14357866984/job/40251514398#step:4:296



unit
failed 3 weeks ago in 38s

Search logs Explain error

Jobs

- build
- unit**
- build-docker
- it
- it-es7
- it-es6
- it-cloud
- it-serverless

Run details

- Usage
- Workflow file

Run all the unit tests 30s

```
340 Error:  
341 Error: To see the full stack trace of the errors, re-run Maven with the -e switch.  
342 Error: Re-run Maven using the -X switch to enable full debug logging.  
343 Error:  
344 Error: For more information about the errors and possible solutions, please read the following articles:  
345 Error: [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException  
346 Error:  
347 Error: After correcting the problems, you can resume the build with the command  
348 Error: mvn <args> -rf :fscrawler-settings  
349 Error: Process completed with exit code 1.
```

Post Set up JDK 21 1s

Post Run actions/checkout@v4 0s

Complete job 0s

Throwable #1: `java.lang.NullPointerException`: Cannot invoke "`Elasticsearch.setIndex(String)`" because the return value of "`FsSettings.getElasticsearch()`" is `null`

Throwable #1: `java.lang.NullPointerException`: Cannot invoke "`Elasticsearch.setIndex(String)`" because the return value of "`FsSettings.getElasticsearch()`" is `null`

```
@Test
void settingsValidation() {
    FsSettings settings = FsSettingsLoader.load();
    settings.getElasticsearch().setIndex(getCurrentTestName());

    // ...
}
```

```
@Test
void settingsValidation() {
    FsSettings settings = FsSettingsLoader.load();
    settings.getElasticsearch().setIndex(getCurrentTestName());

    // ...
}
```



REPRODUCE WITH:

```
mvn integration-test -Dtests.locale=az
```

```
Throwable #1: java.lang.NullPointerException: Cannot invoke  
"Elasticsearch.setIndex(String)" because the return value of  
"FsSettings.getElasticsearch()" is null
```

It depends!





It depends!

```
@Test
void settingsValidationFr() {
    Locale.setDefault(new Locale.Builder().setLanguageTag("fr").build());
    FsSettings settings = FsSettingsLoader.load();
    settings.getElasticsearch().setIndex(getCurrentTestName());
```

```
    // ...
}
```

```
@Test
void settingsValidationAz() {
    Locale.setDefault(new Locale.Builder().setLanguageTag("az").build());
    FsSettings settings = FsSettingsLoader.load();
    settings.getElasticsearch().setIndex(getCurrentTestName());
```

```
    // ...
}
```

```
@Test
void settingsValidationEn() {
    Locale.setDefault(new Locale.Builder().setLanguageTag("en").build());
    FsSettings settings = FsSettingsLoader.load();
    settings.getElasticsearch().setIndex(getCurrentTestName());
```

Randomized Testing



Installation (pom.xml - Java)

```
<dependency>  
  <groupId>com.carrotsearch.randomizedtesting</groupId>  
  <artifactId>randomizedtesting-jupiter</artifactId>  
  <version>0.2.0</version>  
  <scope>test</scope>  
</dependency>
```

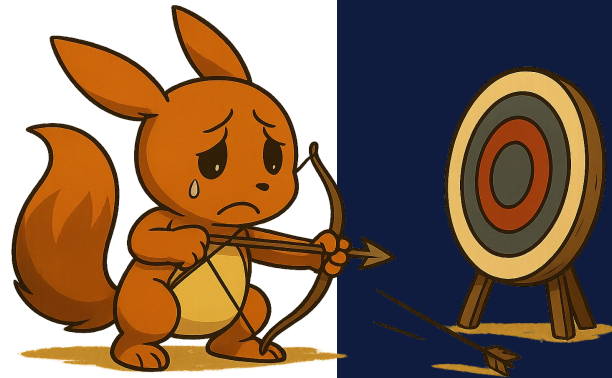
```
@Test
void testCreateClusterAndIndex(Random rnd) {
    int numberOfNodes = RandomizedTest.randomIntInRange(rnd, 1, 20);
    int numberOfShards = RandomizedTest.randomIntInRange(rnd, 1, 30);
    int numberOfReplicas = RandomizedTest.randomIntInRange(rnd,
        0, numberOfNodes - 1);
    String indexName = RandomizedTest.randomAsciiAlphanumOfLength(
        rnd, RandomizedTest.randomIntInRange(rnd, 5, 20)) ;

    // Create a cluster with the specified number of nodes
    startCluster(numberOfNodes) ;

    // Create an index with the specified number of shards and replicas
    createIndex(indexName, numberOfShards, numberOfReplicas);

    // Run tests here
    // ...
}
```

atLeast(Random, int): int
atMost(Random, int): int
frequently(Random): boolean
iterations(Random, int, int): int
multiplier(): double
randomAsciiAlphanumOfLength(Random, int): String
randomAsciiAlphanumOfLengthBetween(Random, int, int): String
randomAsciiLettersOfLength(Random, int): String
randomAsciiLettersOfLengthBetween(Random, int, int): String
randomBoolean(Random): boolean
randomByte(Random): byte
randomBytesOfLength(Random, int): byte[]
randomBytesOfLength(Random, int, int): byte[]
randomDouble(Random): double
randomFloat(Random): float
randomFrom(Random, byte[]): byte
randomFrom(Random, char[]): char
randomFrom(Random, double[]): double
randomFrom(Random, float[]): float
randomFrom(Random, int[]): int



Seed



Seed

```
@Test
void testSeed() {
    Random generator = new Random();
    int num = generator.nextInt();
    assertThat(num).isEqualTo(1553932502);
}
```



Seed

```
@Test
void testSeed() {
    Random generator = new Random(12345L);
    int num = generator.nextInt();
    assertThat(num).isEqualTo(1553932502);
}
```





REPRODUCE WITH:

```
mvn integration-test -Dtests.seed=489581FE40712E4A  
# -Dtests.locale=az -Dtests.timezone=Asia/Ashkhabad
```



REPRODUCE WITH:

```
mvn integration-test -Dtests.seed=489581FE40712E4A  
# -Dtests.locale=az -Dtests.timezone=Asia/Ashkhabad
```

```
@Test  
@FixSeed("489581FE40712E4A")  
void settingsValidationForLocaleAz() {  
    // ...  
}
```

Try other locales

```
private static final Locale savedLocale = Locale.getDefault();

@BeforeAll
static void setLocale(Random rnd) {
    String testLocale = System.getProperty("tests.locale", "random");
    Locale locale = testLocale.equals("random") ? RandomizedTest.randomLocale(rnd) :
        new Locale.Builder().setLanguageTag(testLocale).build();
    Locale.setDefault(locale);
    LOGGER.info("🌐 Starting test suite with Locale [{}]",
        Locale.getDefault().toLanguageTag());
}

@AfterAll
static void resetLocale() {
    Locale.setDefault(savedLocale);
}
```

```
@Test
void withLocale() {
    DateTimeFormatter dateTimeFormatter =
        DateTimeFormatter.ofLocalizedDate(FormatStyle.FULL);
    String format = dateTimeFormatter.format(LocalDate.now());
    LOGGER.info(" ➡ Date is formatted as [{}]", format);
}
```

RUN 1

(56) 🌐 Starting test suite with Locale [es-US]

(127) ➡ Date is formatted as [viernes, 24 de abril de 2026]

RUN 2

(56) 🌐 Starting test suite with Locale [lb-LU]

(127) ➡ Date is formatted as [Freideg, 24. Abrëll 2026]

```
mvn test -Dtests.locale=fr-FR
```

```
# RUN 1
```

```
(56 ) 🌐 Starting test suite with Locale [fr-FR]
```

```
(127) ➡ Date is formatted as [vendredi 24 avril 2026]
```

```
# RUN 2
```

```
(56 ) 🌐 Starting test suite with Locale [fr-FR]
```

```
(127) ➡ Date is formatted as [vendredi 24 avril 2026]
```

```
@Test
void sometimes(Random rnd) {
    int bulkSize = RandomizedTest.randomIntInRange(rnd, 500, 1000);
    for (int i = 0; i < bulkSize; i++) {
        addDocument("english_" + i, generatePerson(rnd));
        if (RandomizedTest.frequently(rnd)) {
            addDocument("french_" + i, generatePerson(rnd));
        }

        if (RandomizedTest.rarely(rnd)) {
            // Shutdown Node 1
            shutdownNode(1);
        }
    }
}
```

```
(85 ) Adding document [english_59]: [Person[name=Grf0m6rkkC, age=32]]
(85 ) Adding document [english_60]: [Person[name=yxMwbm9lF0, age=37]]
(85 ) Adding document [french_60]: [Person[name=3rDZ6T6hux, age=56]]
(85 ) Adding document [english_61]: [Person[name=kBdYTLakhD, age=34]]
(85 ) Adding document [french_61]: [Person[name=xkN07zq9Qk, age=35]]
(89 ) Shutting down node [1]
(85 ) Adding document [english_62]: [Person[name=2noyxk1z8fn, age=54]]
```

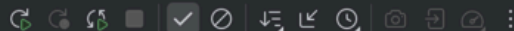
```
@Test
void ignoreIfUseless20(Random rnd) {
    boolean b = RandomizedTest.randomBoolean(rnd);
    LOGGER.info(" → boolean is [{}]", b);

    assertThat(b).isTrue();
}
```



```
@Test
void ignoreIfUseless20(Random rnd) {
    boolean b = randomBoolean(rnd);
    LOGGER.info(" → boolean is [{}]", b);
    assumeTrue(b);
    assertThat(b).isTrue();
}
```

Run RandomTest.ignoreIfUseless20 x



v RandomTest (fr.pilato.talk.randomizedtesting) 5 ms

1 test ignored 1 test total, 5 ms

```
/Users/david/.sdkman/candidates/java/21.0.2-open/bin/java ...
```

```
(61 ) Starting test suite with Locale [en-IE]
```

```
(71 ) Starting test [ignoreIfUseless20(Random)]
```

```
(133) boolean is [false]
```

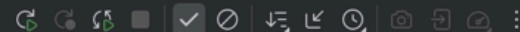
```
org.opentest4j.TestAbortedException: Assumption failed: assumption is not true
```

```
> at __randomizedtesting.SeedChain.seed([323033F803389CED:17D53FF03F4A1E21:9987BD8DCBC1048E]) <3 internal lines>
```

```
at fr.pilato.talk.randomizedtesting.RandomTest.ignoreIfUseless20(RandomTest.java:134)
```

```
@Test
void ignoreIfUseless20(Random rnd) {
    boolean b = randomBoolean(rnd);
    LOGGER.info(" → boolean is [{}]", b);
    assumeTrue(b);
    assertThat(b).isTrue();
}
```

Run RandomTest.ignoreIfUseless20 x



✓ RandomTest (fr.pilato.talk.randomizedtesting) 26 ms
✓ ignoreIfUseless20(Random) 26 ms

✓ 1 test passed 1 test total, 26 ms

```
/Users/david/.sdkman/candidates/java/21.0.2-open/bin/java ...
(61 ) 🌟 Starting test suite with Locale [ta-MY]
(71 ) 🌀 Starting test [ignoreIfUseless20(Random)]
(133) 📄 boolean is [true]
```

Process finished with exit code 0

```
@Test
void ignoreOnWindows() {
    String osName = System.getProperty("os.name").toLowerCase();
    assumeFalse(osName.contains("win"));
    // Run the specific non windows test here
}

@Test
@DisabledOnOs(OS.WINDOWS)
void ignoreOnWindows() {
    // Run the specific non windows test here
}
```

Tag your tests

junit

```
@Test
@Tag("Nightly")
void longRunningTest(Random rnd) {
    int bulkSize = RandomizedTest.randomIntInRange(rnd, 10, 1000);
    for (int i = 0; i < bulkSize; i++) {
        try {
            Thread.sleep(RandomizedTest.randomIntInRange(rnd, 10, 100));
        } catch (InterruptedException e) {
            Thread.currentThread().interrupt();
        }
    }
}
```

Do less during the day

junit

```
$ mvn test -DexcludedGroups=Nightly
```

```
[INFO] Running fr.pilato.talk.randomizedtesting.ElasticsearchTest
```

```
(39 ) 🏁 Starting test [sometimes(Random)]
```

```
(39 ) 🏁 Starting test [testCreateClusterAndIndex(Random)]
```

```
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed:  
0.123 s -- in fr.pilato.talk.randomizedtesting.ElasticsearchTest
```

Do more during the night

junit

```
$ mvn test
```

```
[INFO] Running fr.pilato.talk.randomizedtesting.ElasticsearchTest  
(39 ) 🏁 Starting test [longRunningTest(Random)]  
(39 ) 🏁 Starting test [sometimes(Random)]  
(39 ) 🏁 Starting test [testCreateClusterAndIndex(Random)]  
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed:  
23.55 s -- in fr.pilato.talk.randomizedtesting.ElasticsearchTest
```

But stay reasonable

junit

```
@Test
@Tag("Nightly")
@Timeout(30)
void longRunningTest(Random rnd) {
    // ...
}
```

```
$ mvn test
```

```
[ERROR] Tests run: 3, Failures: 0, Errors: 1, Skipped: 0, Time
elapsed: 30.152 s <<< FAILURE! -- in
```

```
fr.pilato.talk.randomizedtesting.ElasticsearchTest
```

```
[ERROR]
```

```
fr.pilato.talk.randomizedtesting.ElasticsearchTest.longRunningTest(Ran
dom) -- Time elapsed: 30.045 s <<< ERROR!
```

```
java.util.concurrent.TimeoutException:
```

```
longRunningTest(java.util.Random) timed out after 30 seconds
```

Create your own annotation

junit

```
@Target(ElementType.METHOD)
@Retention(RetentionPolicy.RUNTIME)
@Tag("Nightly")
@Test
@Timeout(value = 5, unit = TimeUnit.MINUTES)
public @interface NightlyTest {
}
```

```
@NightlyTest
void longRunningTest(Random rnd) {
    // ...
}
```

Random execution order

junit

In `src/test/resources/junit-platform.properties`

```
junit.jupiter.testclass.order.default=org.junit.jupiter.api.ClassOrderer$Random
junit.jupiter.testmethod.order.default=org.junit.jupiter.api.MethodOrderer$Random
```

✓ <default package>	4 sec 628 ms
✓ ElasticsearchTest	4 sec 550 ms
✓ testCreateClusterAndIndex(Random)	16 ms
✓ longRunningTest(Random)	4 sec 516 ms
✓ sometimes(Random)	18 ms
✓ RandomTest	78 ms
✓ randomWithSeed01()	21 ms
> ✓ randomIntegerWithRange04(Random)	4 ms
✓ random00()	
✓ ignoreOnWindows21()	1 ms
✓ randomInteger02(Random)	
> ✓ repeatMe05(Random)	
> ✓ repeatMe(Random)	44 ms
✓ stopOrIdentifyYourThreads30()	1 ms
✓ ignoreOnWindows22()	1 ms
✓ randomLocale10()	2 ms
✓ randomIntegerWithSeed03(Random)	1 ms

✓ <default package>	53 sec 630 ms
✓ RandomTest	100 ms
✓ stopOrIdentifyYourThreads30()	33 ms
✓ randomInteger02(Random)	2 ms
✓ ignoreOnWindows21()	
✓ randomIntegerWithSeed03(Random)	1 ms
✓ ignoreOnWindows22()	
> ✓ repeatMe(Random)	54 ms
✓ random00()	
> ✓ randomIntegerWithRange04(Random)	4 ms
✓ randomWithSeed01()	
✓ randomLocale10()	4 ms
> ✓ repeatMe05(Random)	
✓ ElasticsearchTest	53 sec 530 ms
✓ testCreateClusterAndIndex(Random)	1 ms
✓ sometimes(Random)	3 ms
✓ longRunningTest(Random)	53 sec 526 ms

ZOMBIE THREADS

```
@DetectThreadLeaks
```

```
@Randomized
```

```
class RandomTest {  
    @Test  
    void stopYourThreads() {  
        new Thread(() -> {  
            public void run() {  
                while (true) {  
                    try { Thread.sleep(1000L); } catch (InterruptedException e) { } }  
                } }, "zombie").start();  
        }  
    }  
}
```



ZOMBIE THREADS

```
@DetectThreadLeaks
```

```
@Randomized
```

```
class RandomTest {  
    @Test  
    void stopYourThreads() {  
        new Thread(() -> {  
            public void run() {  
                while (true) {  
                    try { Thread.sleep(1000L); } catch (InterruptedException e) { } }  
                } }, "zombie").start();  
        }  
    }  
}
```

1 thread(s) leaked from suite [RandomTest]:

- 1) Thread[id=39, name=**zombie**, state=TIMED_WAITING, group=main]
at java.base@25/java.lang.Thread.sleepNanos0(Native Method)
at java.base@25/java.lang.Thread.sleepNanos(Thread.java:509)
at java.base@25/java.lang.Thread.sleep(Thread.java:540)
at app//RandomTest.lambda\$stopYourThreads\$0(**RandomTest.java:163**)



ZOMBIE THREADS

```
@DetectThreadLeaks
@ExcludeThreads(FriendlyZombieFilter.class)
@Randomized
class RandomTest {
    @Test
    void identifyYourThreads() {
        new Thread(() -> {
            public void run() {
                while (true) {
                    try { Thread.sleep(1000L); } catch (InterruptedException e) { } }
                } }, "friendly-zombie").start();
    }
}

public static class FriendlyZombieFilter implements Predicate<Thread> {
    public boolean test(Thread t) {
        return "friendly-zombie".equals(t.getName());
    }
}
```



Back to the bug

```
@Test
void settingsValidation() {
    FsSettings settings = FsSettingsLoader.load();
    settings.getElasticsearch().setIndex(getCurrentTestName());

    // ...
}
```



```
@Test
void testLocaleFr() throws Exception {
    Locale.setDefault(new Locale.Builder().setLanguageTag("fr").build());
    Gestalt gestalt = new GestaltBuilder()
        .addSource(MapConfigSourceBuilder.builder()
            .addCustomConfig("elasticsearch.index", "foo")
            .build())
        .build();
    gestalt.loadConfigs();
    assertThat(gestalt.getConfigOptional("elasticsearch", Elasticsearch.class)).isPresent();
}
```



```
@Test
void testLocaleAz() throws Exception {
    Locale.setDefault(new Locale.Builder().setLanguageTag("az").build());
    Gestalt gestalt = new GestaltBuilder()
        .addSource(MapConfigSourceBuilder.builder()
            .addCustomConfig("elasticsearch.index", "foo")
            .build())
        .build();
    gestalt.loadConfigs();
    assertThat(gestalt.getConfigOptional("elasticsearch", Elasticsearch.class)).isPresent();
}
```





credmond-git on Apr 11 · edited by credmond-git

Edits ▾ Collaborator ⋮

I found the root cause of the issue.

Gestalt uses the following pattern to tokenize a path.

```
pattern: ^((?<name>[\w .,+=-;:"'`~!@#%&*()\<>]+)(?<array>\[[(?<index>\d*)])?)$
```

When presented with the word: 'flushinterval'

the following doesn't find a match in the PathLexer: `Matcher matcher = pathPattern.matcher(word);`

It seems to work in every other Locale, but Az?

I need to look into why this is happening, and how to fix it.



credmond-git mentioned this on Apr 11

[fix: specify the root locale when using toLower. #243](#)




credmond-git on Apr 11

I also made a fix so we can support different languages Unicode characters for object field names. [#244](#)



```
@Test
@FixSeed("489581FE40712E4A")
void testGestalt242() throws Exception {
    FsSettings settings = FsSettingsLoader.load();
    // This is supposed to fail because of:
    // https://github.com/gestalt-config/gestalt/issues/242
    assertThatNullPointerException()
        .isThrownBy(() -> settings.getElasticsearch().setIndex("foo"));
}
```

```
@Test
@FixSeed("489581FE40712E4A")
void testGestalt242() throws Exception {
    FsSettings settings = FsSettingsLoader.load();
    // This is supposed to fail because of:
    // https://github.com/gestalt-config/gestalt/issues/242
    assertThatNullPointerException()
        .isThrownBy(() -> settings.getElasticsearch().setIndex("foo"));
}
```

(70)  Starting test [testGestalt242()] with seed [489581FE40712E4A]

java.lang.AssertionError:
Expecting code to raise a throwable.

```
at __randomizedtesting.SeedChain.seed([489581FE40712E4A])
at RandomTest.testGestalt242(RandomTest.java:177)
```







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Le hasard fait bien les tests

Randomized Testing

Gotta Catch 'em all!

Slides



<https://david.pilato.fr/riviera26>



{riviera dev}