



Ente Ospedaliero Cantonale

Once upon a time in EOC

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eoc

There was a Jenkins job

Job duties:

- Collect a named release from central registry
- Collect some properties from config store
- Merge the release with the properties
- Upgrade the service on remote server



And the  shined all over the blessed land of continuous integration.

Dark clouds lay ahead

Suddenly:

- Job was running fine, but the released artifact was badly configured
- Upgraded service became unresponsive

And the land of CI suddenly became cursed by the always 🧙 spell.

The age of rain

Hero to the rescue:

- Emergency procedure was to manually fix the service
- Quick analysis of the problem found that the «defective code» was a «String.split('=)」 unable to manage multiple '='

'Easy fix!', says the gullible hero...

This is the way

It took me :

- 3 days and 3+ hours of work
- 8 commit and 13 job execution

To change this

```
def values = line.split('=')
```

Into that

```
def splittedValues = line.split('=', -1)
def values = [splittedValues[0], splittedValues[1..-1].join("=")]
```



No silver bullets

Job is hundreds of lines long (500+300):

- No automated testing
- Jenkins was referencing it in a git repository
- Execution take 5 minutes
- Jenkins uses «Groovy CPS»

Despair is hovering around the land of continuous integration. Will the  rise again?

A new hope

Suddenly I felt a great disturbance in the Force:

- And I wrote a test, and some code
- Then another test, and some more code...

```
@Test  
void pruneUpToDateChannel()
```

```
@Test  
void collectConfigurationProperties_random_property()
```

```
@Test
```

```
void collectMetadataFromZip_Alerts()
```

```
@Test
```

```
void collectMetadataFromMirth()
```

```
@Test
```

```
void collectMetadataFromZip_Channels()
```

```
@Test
```

```
void collectMetadataFromZip_Groups()
```

```
@Test
```

```
void replaceResourceId()
```

```
@Test
```

```
void collectMetadataFromZip_sanity()
```

```
@Test
```

```
void collectConfigurationProperties_delivery_version()
```


```
@Test
```

```
void collectMetadataFromZip_Groups()
```

Return of the Jedi

Guess what:

- First real job execution was already working (almost)
- Dashing feeling over the complete experience
- Test coverage @95%
- Less monolithic code
- Meaningful methods and variable names

And the  was once again shining, brighter than ever, over the land of CI... Is it over, yet!?



Empire strikes back

A new bug is showing around the block:

- Analysis
- Added a new test
- Fixed the defect
- It took me 30 minutes and worked at first shot

And the 🌀 will never fade again over this blessed land.

Q&A

If you dare!

