

Arquillian

A fresh look at enterprise testing



```
[bmajsak@jug-bern ~]$ whoami  
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```







SERVICE

4+

Contains small parts and a small ball.
Not intended for children under 3 years.
Enthal kleine Teile und einen kleinen Ball.
Contiene parti piccole e una pallina.
Contient des petites pièces et une petite balle.
Bevat kleine delen en een klein balletje.
Contiene piezas pequeñas y una pequeña pelota.
Innehåller små delar samt en liten boll.
Sisältää pieniä osia ja pieniä palloja.
Innehåller smådelar och en liten boll.
Contains pieces pequeñas e uma bola pequena.
Περιέχει μικρά κομμάτια και μια μικρή μπάλα.
含小零件及小球。
작은 부품과 작은 공이 들어 있습니다.

Содержит мелкие детали и маленький шар.
Zawiera niewielkie części i mały kulczyk.
Obsahuje malé časti a loptičku.
Obsahuje malé časti a loptičku.
A csomag apró elemeket, de egy kis labocskát tartalmaz.
Mikroms apflet elementu te savenenud uen.
Sadržiti male dijelove i mali loptu.
Cajpak vane drobne e wany nary.
Vestbuje majne mal e s loptu.
Contine piece mici e a bilu.
Chudopis wawne wacne e wawne tonka.
Kompletu mali element un mare bumbica.
Sudobu vikiat od je vikiat pall.
Te smukij delij ir malar kamaohukas.
Kijok percelar ve kijok bir top iper



WARNING: CHOKING HAZARD.
Toy contains small parts and a small ball.
Not for children under 3 years.



AVERTISSEMENT : RISQUE D'ÉTOUFFEMENT
Le jouet contient des petites pièces ainsi qu'une petite balle. Il ne convient pas aux enfants de moins de 3 ans.



ADVERTENCIA: PELIGRO DE ASFOJA.
Juguete que contiene partes pequeñas y una pelota pequeña. No recomendado para niños menores de 3 años.

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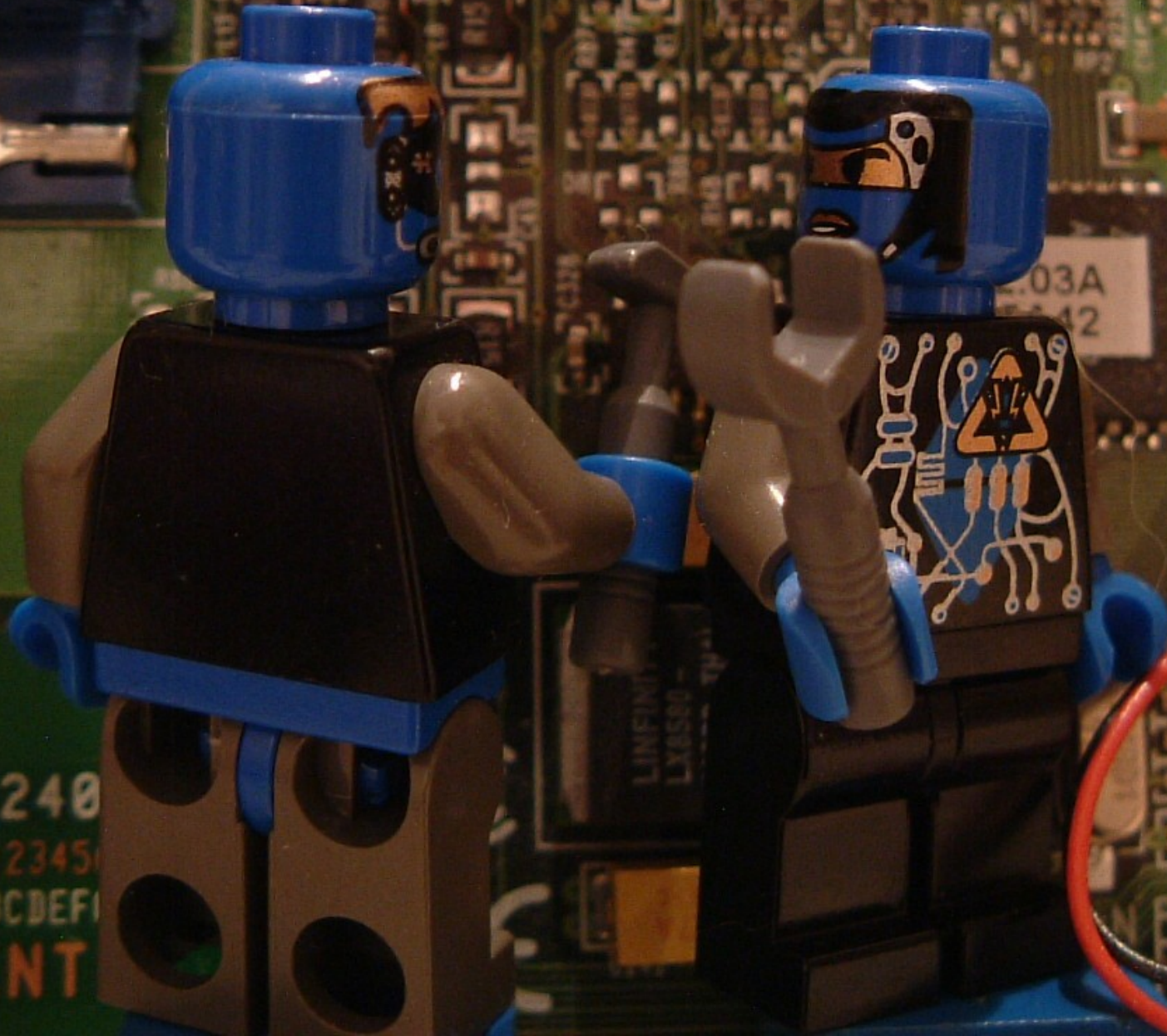
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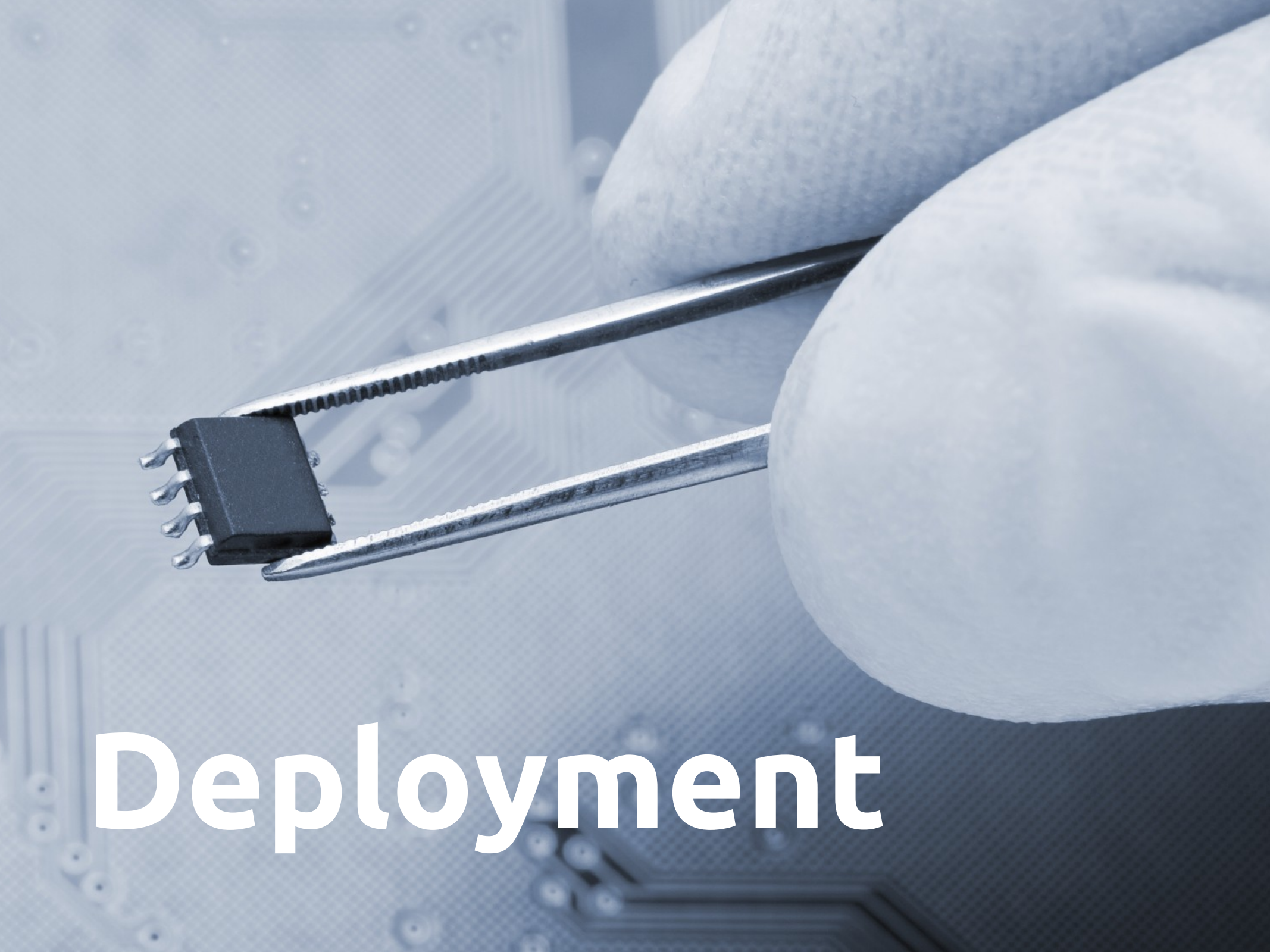


Integration





Containers



Deployment

Alt+Shift+X, T
Alt+Shift+X, N



```
public class FluidOunceConverterTestCase {
```

```
@EJB
```

```
FluidOunceConverter converter;
```

```
@Test
```

```
public void shouldConvertFluidOuncesToMillilitres() {
```

```
    // given
```

```
    double ouncesToConvert = 8d;
```

```
    double expectedMillilitres = 236.588237d;
```

```
    // when
```

```
    double ouncesInMl = converter.convertToMillilitres(ouncesToConvert);
```

```
    // then
```

```
    assertThat(ouncesInMl).isEqualTo(expectedMillilitres);
```

```
}
```

```
}
```

```

@RunWith(Arquillian.class)
public class FluidOunceConverterTestCase {

    @Deployment
    public static JavaArchive createDeployment() {
        return ShrinkWrap.create(JavaArchive.class, "test.jar")
            .addClasses(FluidOunceConverter.class,
                FluidOunceConverterBean.class);
    }

    @EJB
    FluidOunceConverter converter;

    @Test
    public void shouldConvertFluidOuncesToMillilitres() {
        // given
        double ouncesToConvert = 8d;
        double expectedMillilitres = 236.588237d;

        // when
        double ouncesInMl = converter.convertToMillilitres(ouncesToConvert);

        // then
        assertThat(ouncesInMl).isEqualTo(expectedMillilitres);
    }
}

```

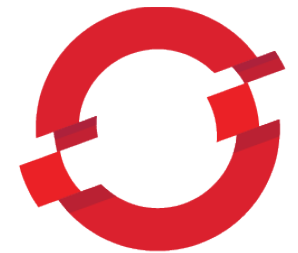
ORACLE
WebLogic



OpenWebBeans



jetty://



OPENSIFT







@Before

```
public void setUp() throws Exception {  
    String baseUrl = "http://beeradvisor-bmajsak.rhcloud.com/";  
    selenium = new WebDriverBackedSelenium(new FirefoxDriver(), baseUrl);  
}
```

@Test

```
public void testSearch() throws Exception {  
    selenium.open("/search.xhtml");  
    selenium.type("id=advisor:beerSearch", "strongest");  
    selenium.keyPress("id=advisor:beerSearch", "\\13");  
    for (int second = 0; ; second++) {  
        if (second >= 60)  
            fail("timeout");  
        try {  
            if (selenium.isElementPresent("end_of_history"))  
                break;  
        } catch (Exception e) {}  
        Thread.sleep(1000);  
    }  
  
    assertEquals("End of history", selenium.getTable("id=beer-results-table.1.0"))  
}
```

Page Objects

Scenario “Finding all Swiss beers”

Given “I'm on the main page”

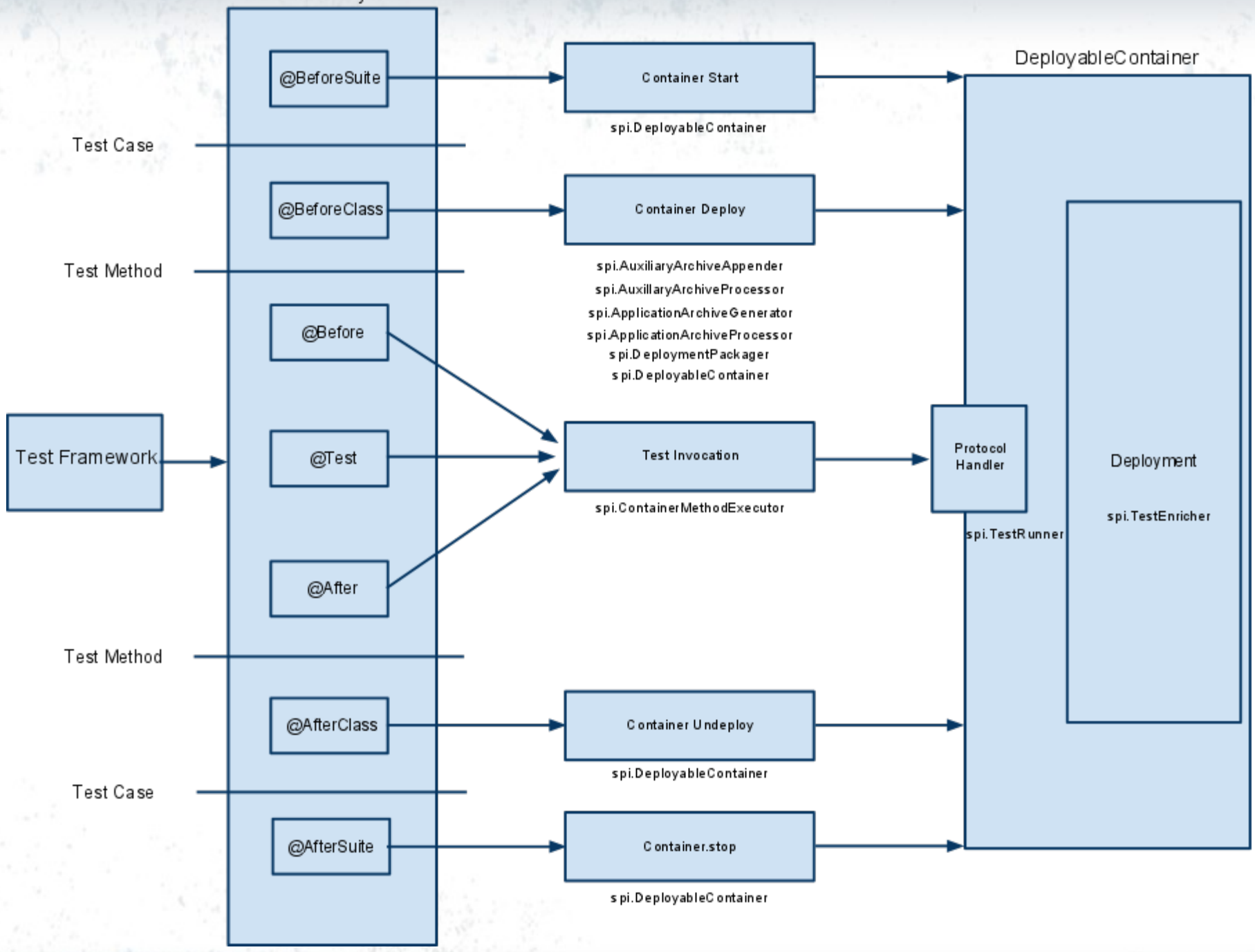
When “I enter 'from Switzerland' ”

Then “I should see Appenzeller and Bügel on the list”

Extending Arquillian

- Extend deployment package
- Enrich test class / method
- Observe / intercept events
- Communicate between client and container

Test Lifecycle



Arquillian Extensions

- Persistence
- Drone / Graphene
- Android
- Jacoco
- Byteman
- Performance
- JSFUnit
- Spock
- JBehave
- Seam 2
- Spring
- JRebel



<http://arquillian.org>



<http://github.com/arquillian>

