JBoss Community

Arquillian

A fresh look at enterprise testing

Bartosz Majsak – January 18th 2012

```
[bmajsak@jbug-neuchatel ~]$ whoami
```

LEGO

LEGO
SERVICE
4+
Contains small parts and a small ball.
Not intended for children under 3 years.
Enthält kleine Teile und einen kleinen Ball.
Contient des petites pièces et une petite balle.
Contiene piezas pequeñas y una pequeña pelota.
Indeholder små dele samt en lille bold.
Sisältää pieniä osia ja pienen pallon.
Innehåller smådelar och en liten boll.
Contém peças pequenas e uma bola pequena.
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 boule. Il ne convient pas aux enfants de moins de 3 ans.
ADVERTENCIA: PELIGRO DE ASFIXIA.
Juguete que contiene partes pequeñas y una pelota pequeña. No recomendado para niños menores de 3 años.
CE
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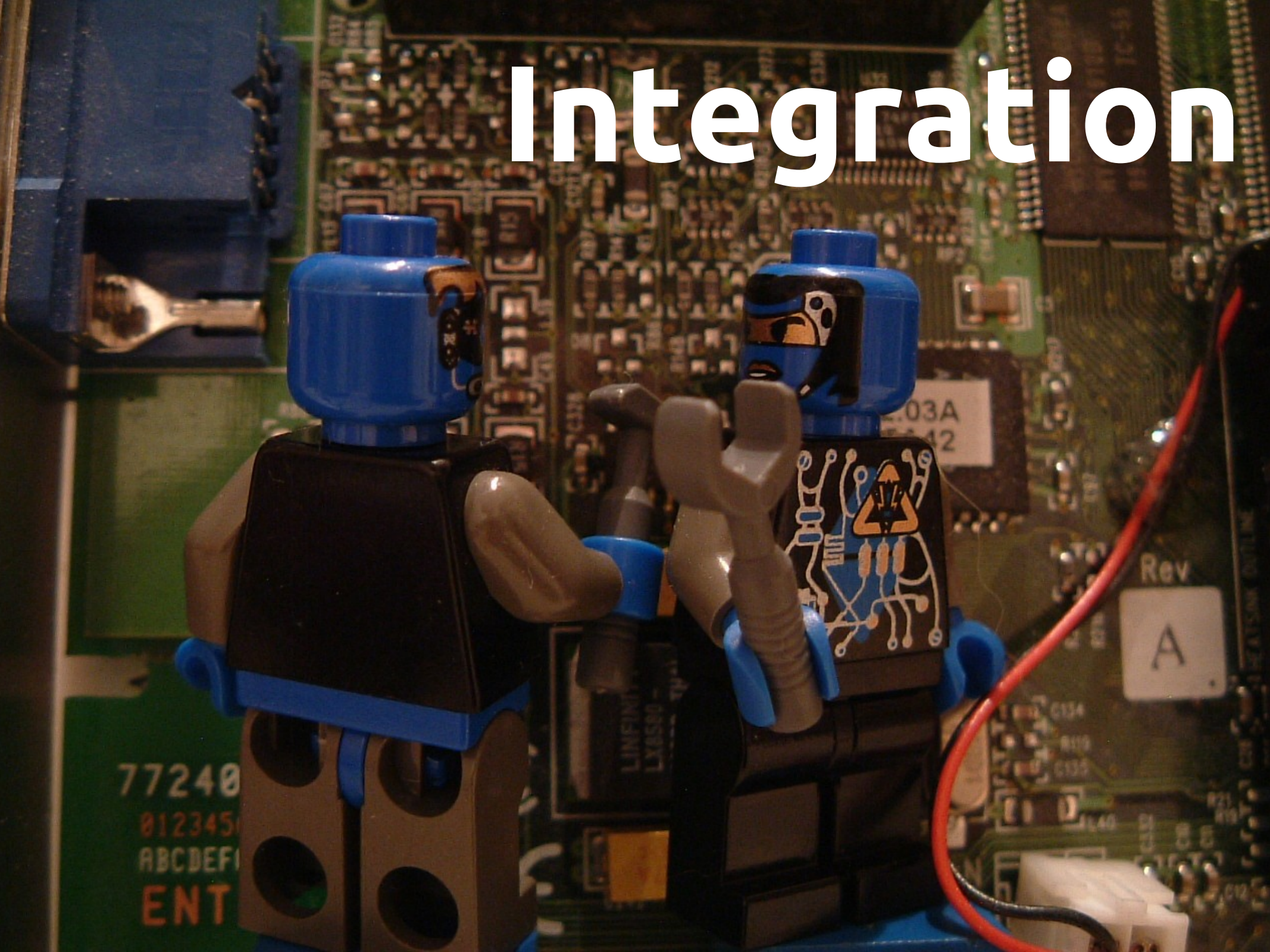
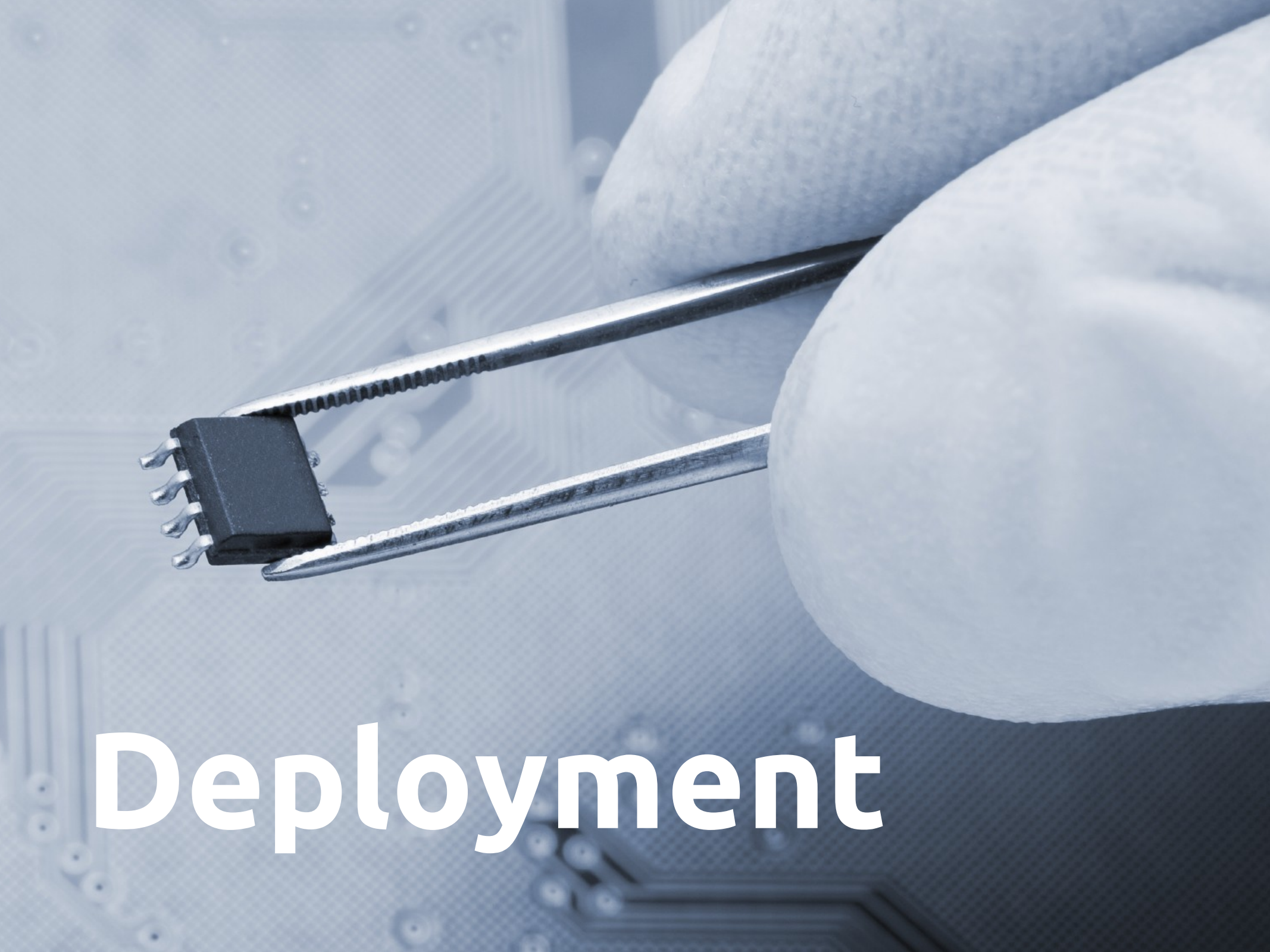
4243342


Integration
Rev
A

Containers



Deployment

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

Arquillian

```java
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);
    }

}
```

```java
@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
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        // when
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        // then
        assertThat(ouncesInMl).isEqualTo(expectedMillilitres);
    }

}
```

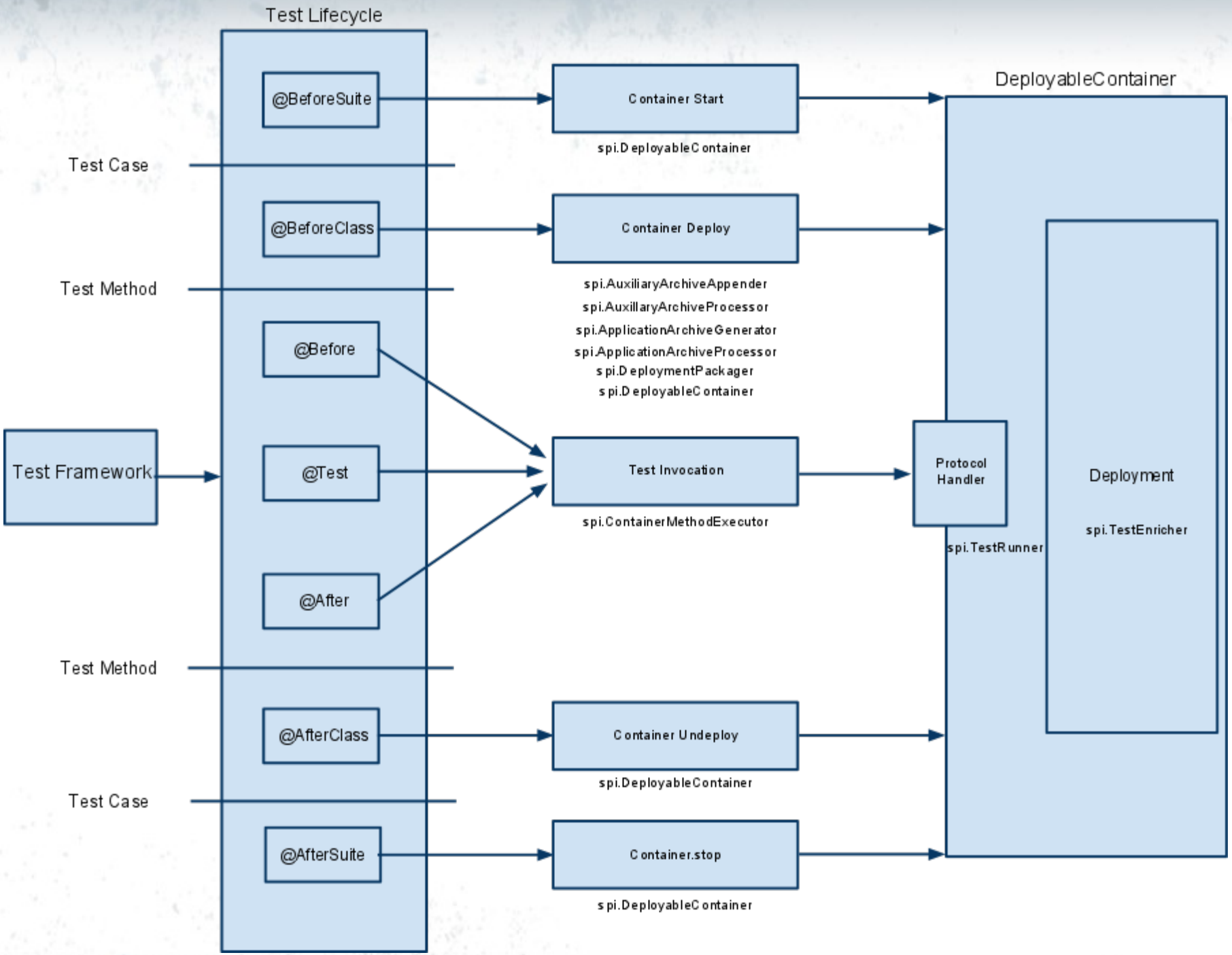
Se

Arquillian Extensions

- Drone / Ajocado
- Performance
- Jacoco
- Persistence
- Spock
- JSFUnit
- Byteman
- JBehave
- Seam 2

Extending Arquillian

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


Test Lifecycle
@BeforeSuite
Container Start
spi.DeployableContainer
DeployableContainer
Test Case
@BeforeClass
Container Deploy
Test Method
spi.AuxiliaryArchiveAppender
spi.AuxillaryArchiveProcessor
spi.ApplicationArchiveGenerator
spi.ApplicationArchiveProcessor
spi.DeploymentPackager
spi.DeployableContainer
@Before
Test Framework
@Test
Test Invocation
Protocol Handler
Deployment
spi.TestEnricher
spi.ContainerMethodExecutor
spi.TestRunner
@After
Test Method
@AfterClass
Container Undeploy
spi.DeployableContainer
Test Case
@AfterSuite
Container.stop
spi.DeployableContainer

http://arquillian.org

http://github.com/arquillian