

# BUILDING CDI EXTENSIONS

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# LET'S START WITH A STORY

that may be a little familiar

# MEET JOHN, CATHY, AND THEIR BOSS MARY

They work at the Second Bank of Techlandia



# NEWS FROM MARY

*“Staff meeting everyone, a staff meeting! Our CTO just came back from golfing and wants to change a few things...”*

— Mary

# PORTABLE EXTENSIONS

**ALLOW YOU TO CUSTOMIZE  
THE PLATFORM**

**SIMPLE, EASY, STANDARD**

# WHAT CAN I DO WITH A PORTABLE EXTENSION?

Add scopes and Contexts

Remove boilerplate

Ease integration with non CDI enable libraries

Anything you can think of



# **ANATOMY OF A PORTABLE EXTENSION**

**ONLY 3 THINGS**

# WHAT ARE THEY?

beans.xml (optional in CDI 1.1)

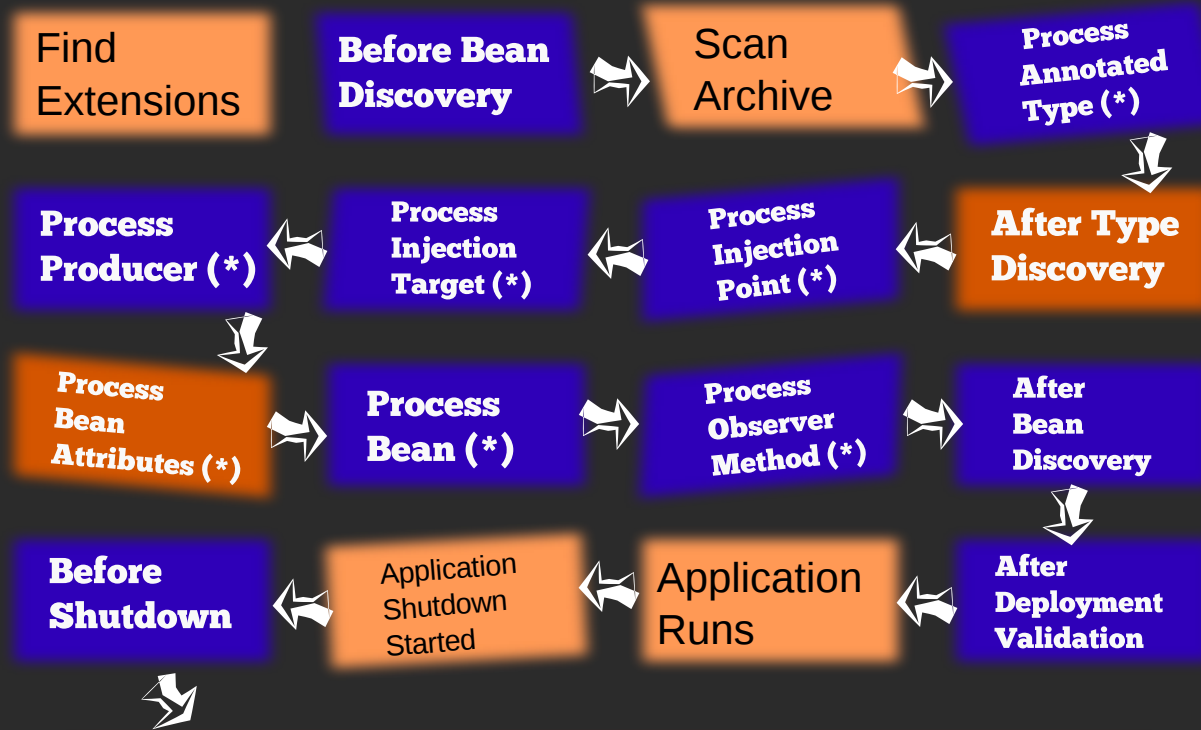
services file

POJO observing one of the CDI lifecycle events

**OKAY, MAYBE ONLY 2 :)**

**WHEN ARE THEY APPLIED?**

# Application Deploy



*Application Terminates*

# MORE INFO

<http://docs.jboss.org/cdi/api/1.0/>

<http://docs.jboss.org/cdi/api/1.1/>

<http://docs.jboss.org/cdi/api/1.2/>

# LET'S TAKE A LOOK AT SOME

<https://github.com/astefanutti/metrics-cdi/blob/master/impl/src/main/java/io/astefanutti/metrics/cdi>

[https://docs.jboss.org/weld/reference/latest/en-US/html/extend.html#\\_container\\_lifecycle\\_events](https://docs.jboss.org/weld/reference/latest/en-US/html/extend.html#_container_lifecycle_events)



# WHAT ABOUT APACHE DELTASPIKE?

What is it?

How do I get it?

# HOW CAN APACHE DELTASPIKE HELP?

Source of examples from experts

Default implementation for metadata classes

Additional helpers

# HELPERS

BeanUtils

HierarchyDiscovery

Annotateds

# METADATA HELPERS

ImmutableBean wrappers

Basic Context implementation

AnnotatedInstanceProvider

WrappingbeanBuilder

# DELTASPIKE LINKS

<https://github.com/apache/deltaspikes>

<http://deltaspikes.org>

**RECAP**

**EXTENSIONS ALLOW YOU  
TO CUSTOMIZE THE  
PLATFORM**

# CDI

Customize the platform

life cycle events

observable



# APACHE DELTASPIKE

vast set of extensions

helpers for extension authors

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