

# Elasticsearch

for full-text search and data analytics

# What we will talk about

## Full-text Search

REST API, indexing, searching & plugins

## Distributed Nature

sharding & replication

## Data Analytics

facets & aggregations

## JBoss.org Use Cases

What is...?

*Lucene*

What is...?



elasticsearch.

# Full-text Search

REST API

Indexing

Searching

DEMO TIME

# Full-text Search

## Plugins

Data Pull (Rivers), Analysis, Monitoring (Marvel) ...

## Visual plugins

Bigdesk, Hammer, Head, HQ, Inquisitor, Kopf, Paramedic, SegmentSpy, Sense (part of Marvel) ...

# Distributed Nature

Sharding

Replication

# Data Analytics

Facets

Aggregations



# JBoss.org Use Cases

- 2010** - started working with Elasticsearch
- 2012** - first production release
  - [search.jboss.org](http://search.jboss.org)
- 2013** - decided to use Elasticsearch much more
  - [Searchisko](http://Searchisko)
- 2014** - [www.jboss.org](http://www.jboss.org)
  - (upcoming) new [search.jboss.org](http://search.jboss.org)
  - (plan) custom JBoss.org sites search

# search.jboss.org

## JBoss Community Search

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hibernate

▼ Projects Order by: Name | Frequency  Sort results by: Newest first

<b>Hibernate (3769)</b> <ul style="list-style-type: none"><li>Bean Validation (175)</li><li><b>Infinispan (156)</b></li><li>Seam (47)</li><li>JBoss AS7 (25)</li><li>JBoss Dev Frm. (13)</li><li>JBoss Cache (9)</li><li>Weld (6)</li><li>JBoss RPM (3)</li></ul>	<ul style="list-style-type: none"><li>Aerogear (0)</li><li>CDI (0)</li><li>DNA (0)</li><li>EmbJOPR (0)</li><li>Errai (0)</li><li>ESB (0)</li><li>Forge (0)</li><li>Gatein (0)</li><li>Guvnor (0)</li></ul>	<ul style="list-style-type: none"><li>HornetQ (0)</li><li>JBoss Cluster (0)</li><li>JBoss 11On (0)</li><li>JBoss OSGI (0)</li><li>JBoss Tools (0)</li><li>JBoss TS (0)</li><li>JBoss WS (0)</li><li>JBossWS CXF (0)</li><li>JBossWS Metro (0)</li></ul>	<ul style="list-style-type: none"><li>JBPM (0)</li><li>JOPR (0)</li><li>JSFUnit (0)</li><li>mod_cluster (0)</li><li>ModeShape (0)</li><li>Netty (0)</li><li>PicketLink (0)</li><li>RichFaces (0)</li><li>Rules (0)</li></ul>	<ul style="list-style-type: none"><li>Scribbling (0)</li><li>SwitchYard (0)</li><li>Teiid (0)</li><li>Teiid Designer (0)</li><li>Tohu (0)</li><li>Wise (0)</li></ul>
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**Time Frame**  
Any time  
Past week  
Past month  
Past quarter  
Past year  
Custom range...

**Mailing List**  
 Dev (3911)  
 Announce (14)  
 Other (0)  
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**Top Authors**   
 Steve Ebersole (1710)  
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**Matching content per month**

Total hits: 3925 for query **hibernate** (took 36ms) Page 1 of 393

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 Forge (0)


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 Guvnor (0)


 HornetQ (0)


 JBoss Cluster (0)


 JBoss I10n (0)

 JBoss OSGI (0)


 JBoss Tools (0)


 JBoss TS (0)


 JBoss WS (0)


 JBossWS CXF (0)


 JBossWS Metro (0)


 JBPM (0)


 JOPR (0)


 JSFUnit (0)

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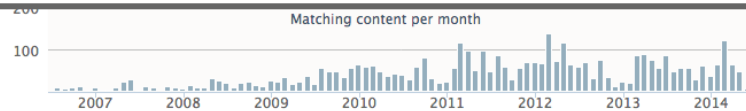
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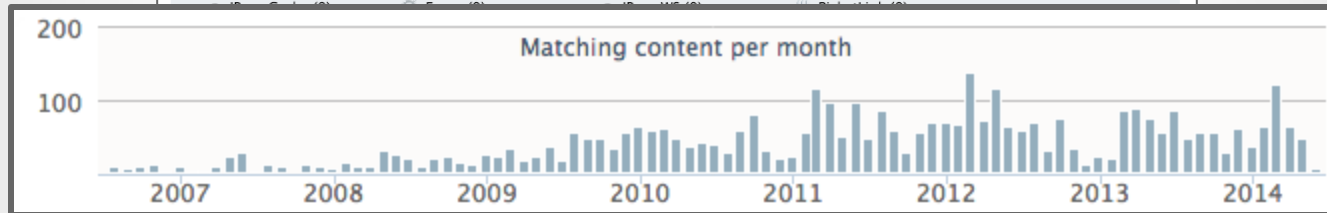
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# search.jboss.org

See more detailed presentation from Berlin BuzzWords 2011

<http://www.slideshare.net/lukas.vlcek/bbuzz-lukasvlcek2011>

<http://vimeo.com/26553486>



# Searchisko

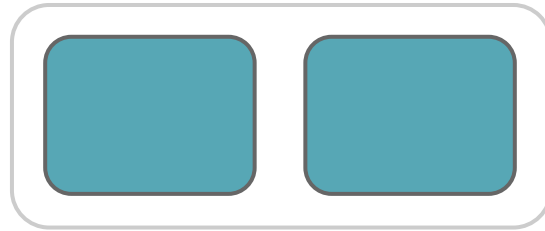
- Content providers
- Data normalizations
- [REST API](#)
- Optional data persistence outside ES
- Indexing and reindexing tasks
- More fine grained access roles (WIP)

# Searchisko



Elasticsearch cluster

# Searchisko

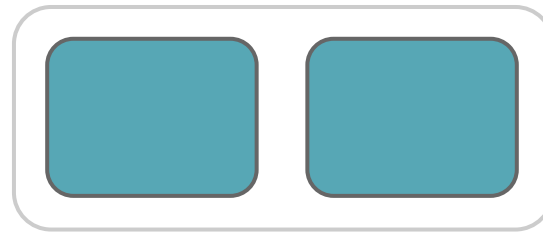


Clusted JBoss EAP



Elasticsearch cluster

# Searchisko



Clustered JBoss EAP



Elasticsearch cluster



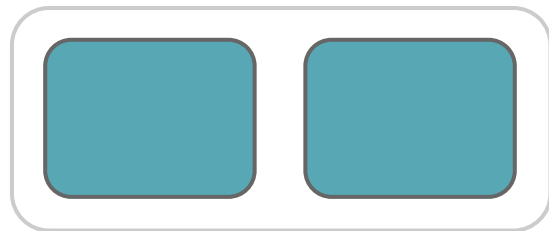
Persistent  
DB

# Searchisko

Content Providers

Content Consumers

JBoss Developer  
Tutorials, Articles,  
Solutions, Quickstarts,  
Videos, Static web pages  
...



Clusted JBoss EAP



Elasticsearch cluster



Persistent DB

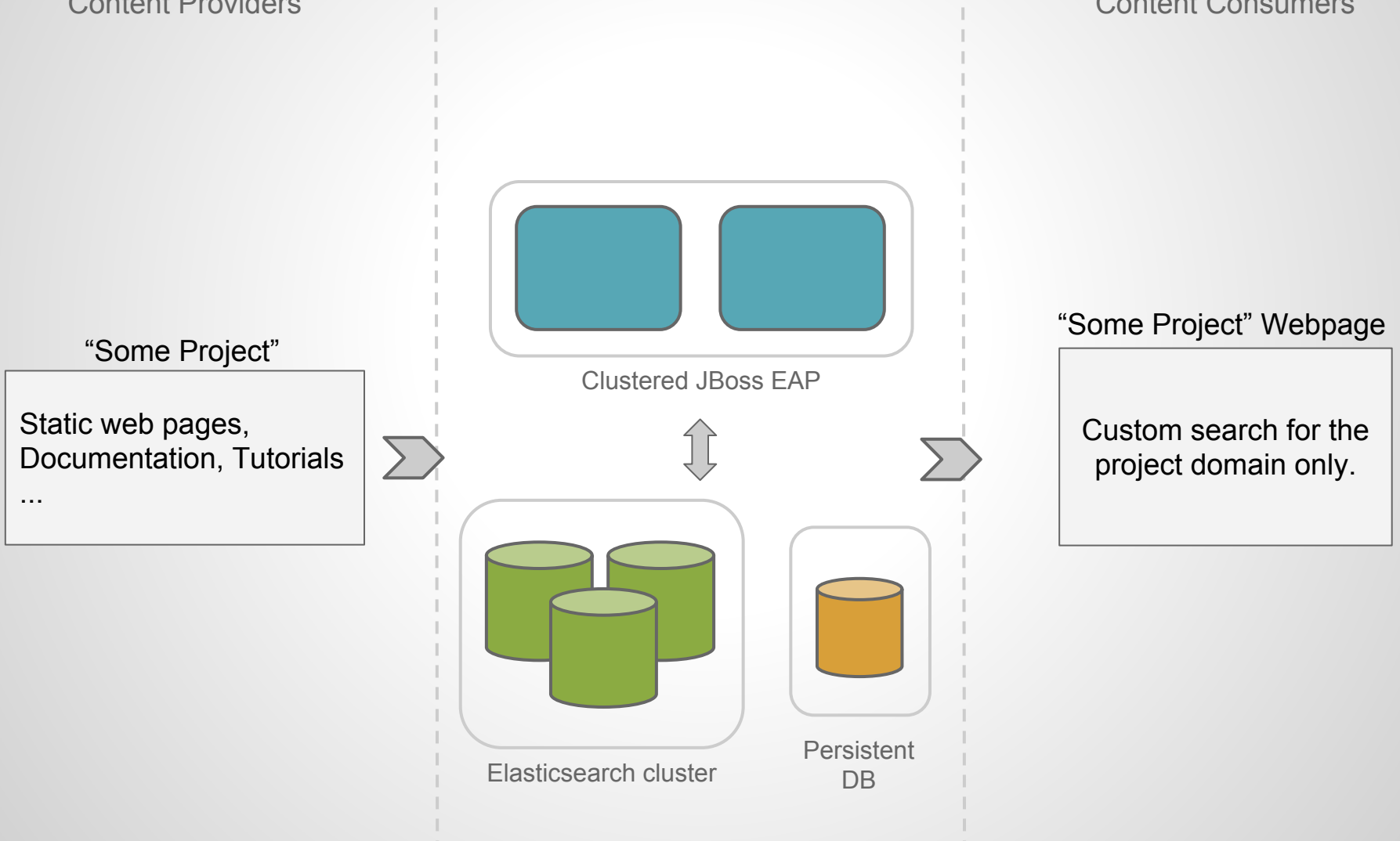
JBossDeveloper  
(www.jboss.org)

The complex block contains several overlapping screenshots of the JBoss Developer website. The top screenshot shows the main navigation and a featured article titled 'TicketMonster on OpenShift'. Below it, there are screenshots of 'Upstream Projects' and a list of articles related to Hibernate, including 'Java EE 6 with Hibernate 3', 'Hibernate 4: The Next Generation', and 'How to Use Hibernate 3 in an Application'.

# Searchisko

Content Providers

Content Consumers



# Searchisko

Content Providers

JBoss Developer

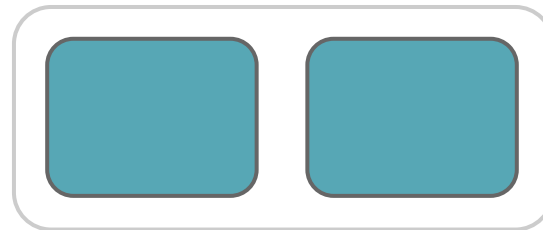
Tutorials, Articles,  
Solutions, Quickstarts,  
Videos, Static web pages  
...

“Some Project”

Static web pages,  
Documentation, Tutorials  
...

.ORG Community

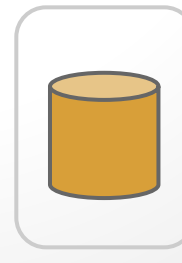
Emails, JIRA issues,  
Forum posts, Blogs, IRC  
logs ...



Clusters



Elasticsearch cluster

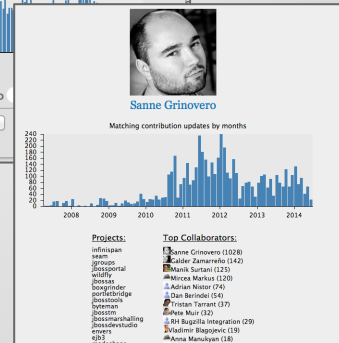
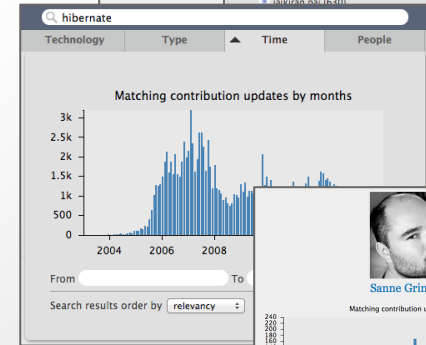
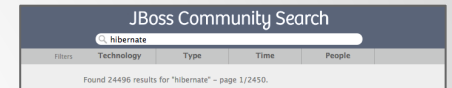


Persistent DB



Content Consumers

(upcomig) search.jboss.org



# Searchisko

See more detailed presentation from DevConf.cz 2014

<http://www.devconf.cz/filebrowser/download/372>



# Questions?

**Thank you!**