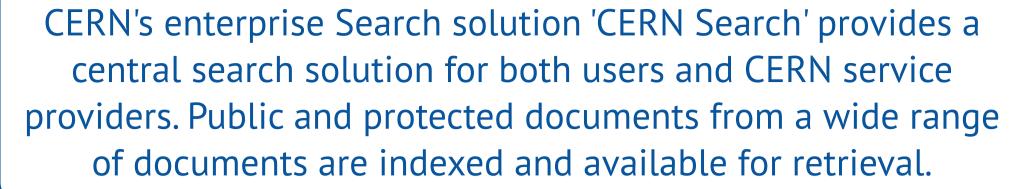


Update on CERN Search: SharePoint 2013

E. Alvarez, S. Fernandez, A. Lossent, I. Posada, A. Wagner [CERN]



High Availability

2000 daily queries

29 servers

33 million documents

Improved design

12000 daily page views

High Reliability

1100 daily unique visitors

3 server farms

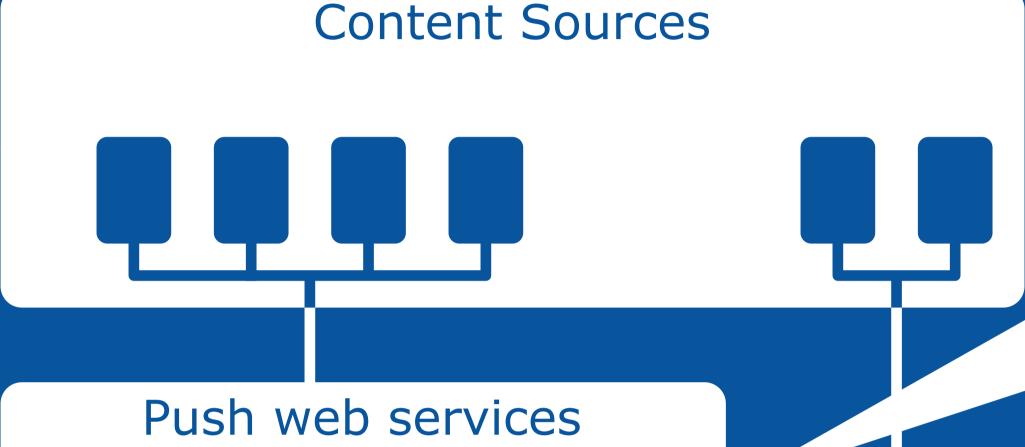
· Push model.

· Pull model.

· Dynamic URI list.







Pre-processing Crawler

Indexing



· Sets ACL for each document.

· Stores data in protected space.

Extracts metadata from binary

files.

· Analyze and split documents in several stages.

Access control for each source.

- · Custom processing.
 - Different processing by content source.
 - · Dynamic property mapper.
 - Property mapping by configuration.
- · Auto load-balanced CEWS call.

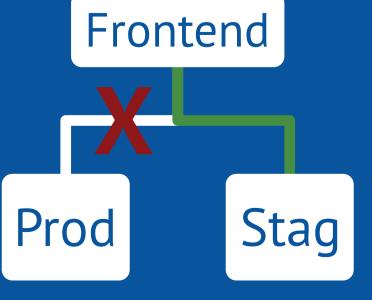
 Microsoft SharePoint 2013 search engine.



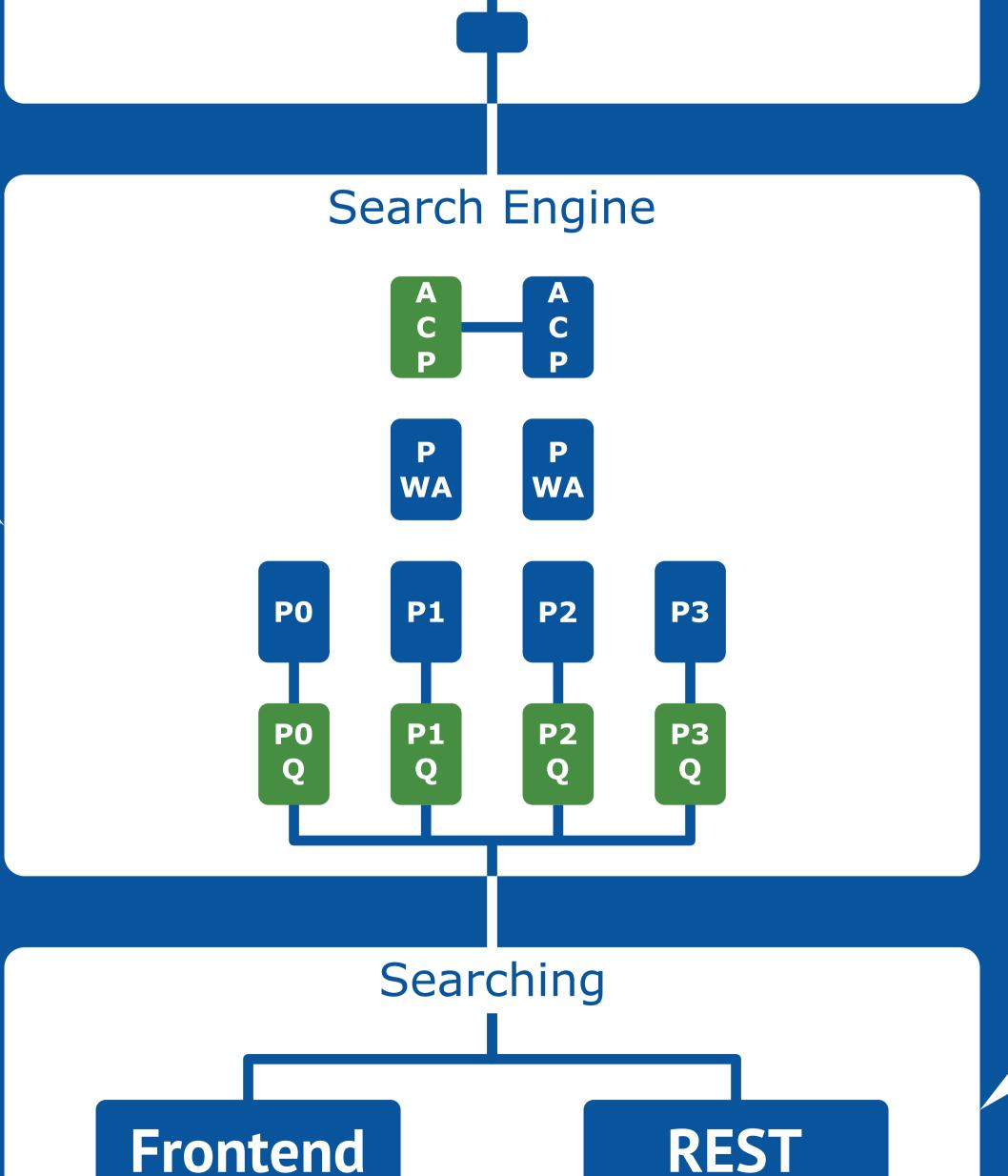
Redundancy of key components.

A: Admin component. C: Crawl component. P: Processing component. WA: Web Analyzer. Px: Index Partition x. Q: Query component.

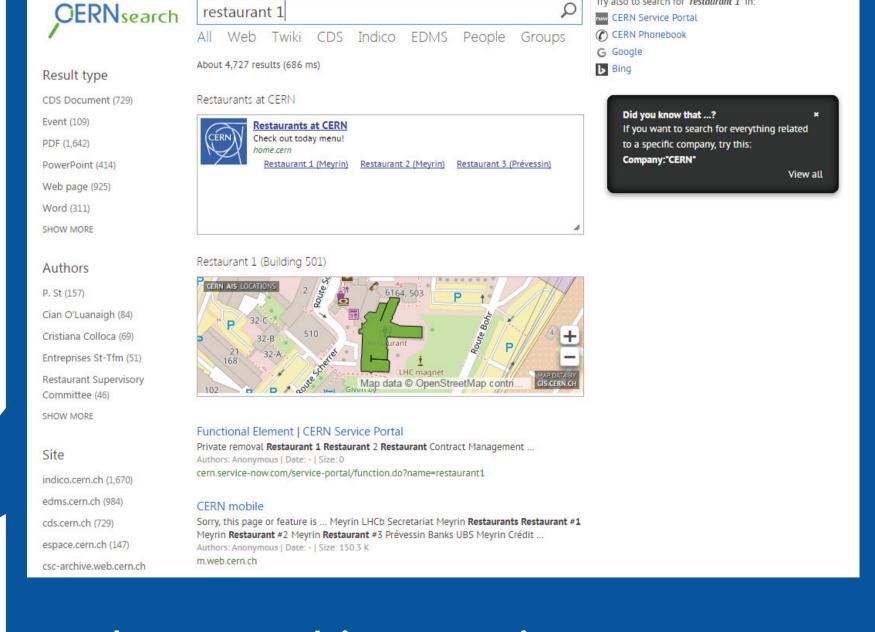
Staging farm as high availability failover.



<5 seconds switch.</p>



- · User interface upgraded.
- · Improved user experience.
 - · Thesaurus for acronyms.
 - · Promoted CERN most relevant sites.
 - · Map integration for locations.



https://home.cern

 Improved integration as search backend.