Developers Approach to Search Applications

DEV 209

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#SPEvo13 #DEV209
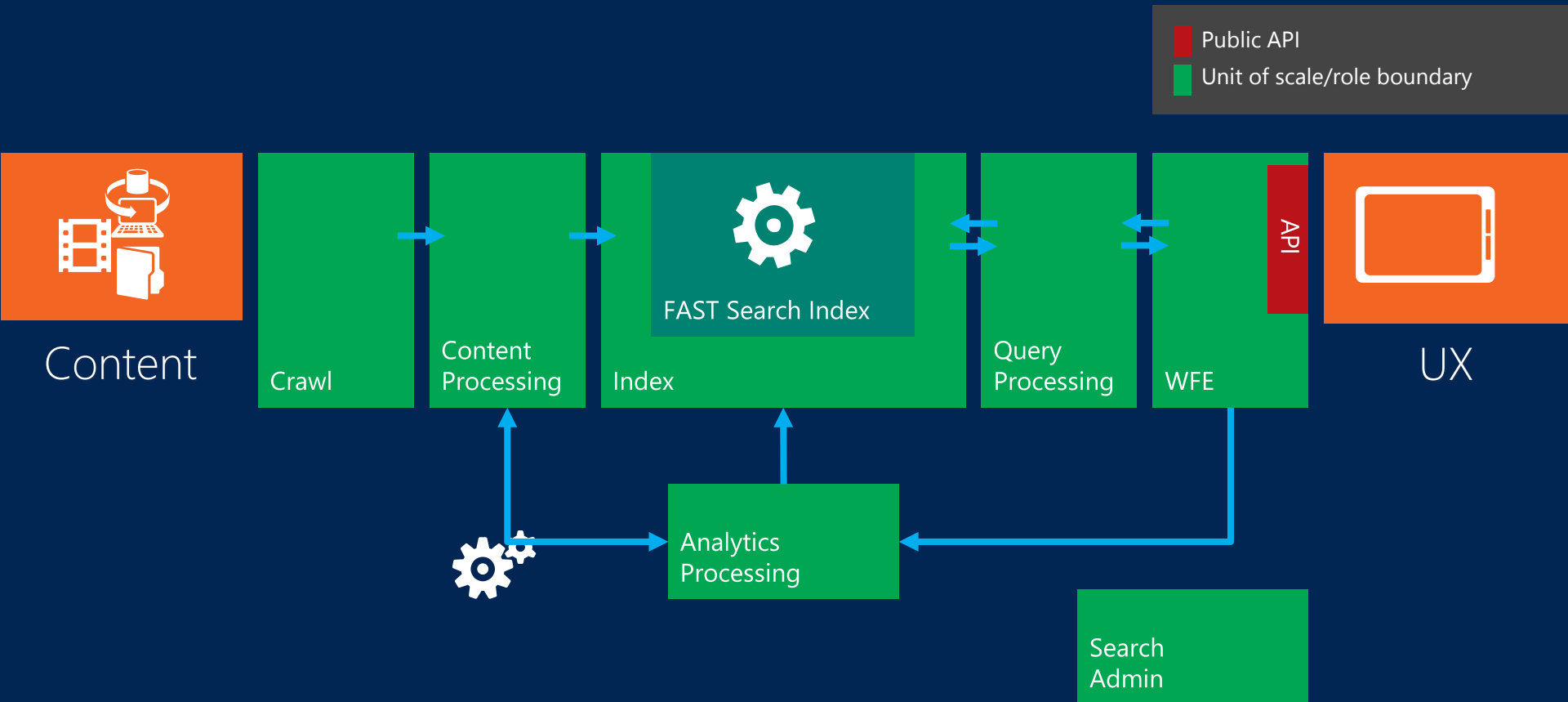
Agenda

▶ New 2013 Search API

▶ Creating custom search controls

▶ Adding query time logic
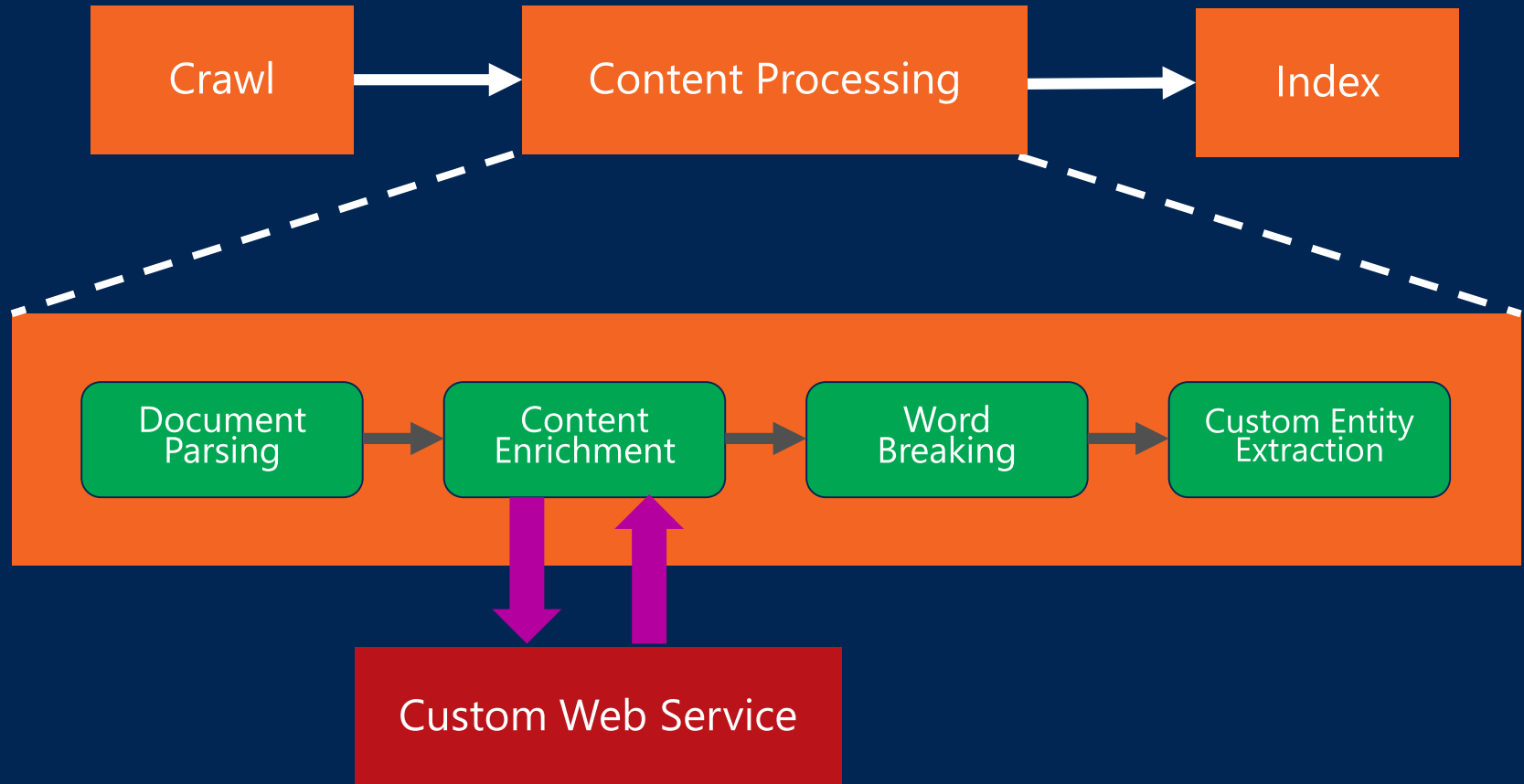
▶ REST interface to search

▶ People Search

The Toolbox

▶ Search Center

▶ Search Applications

▶ Content Enrichment

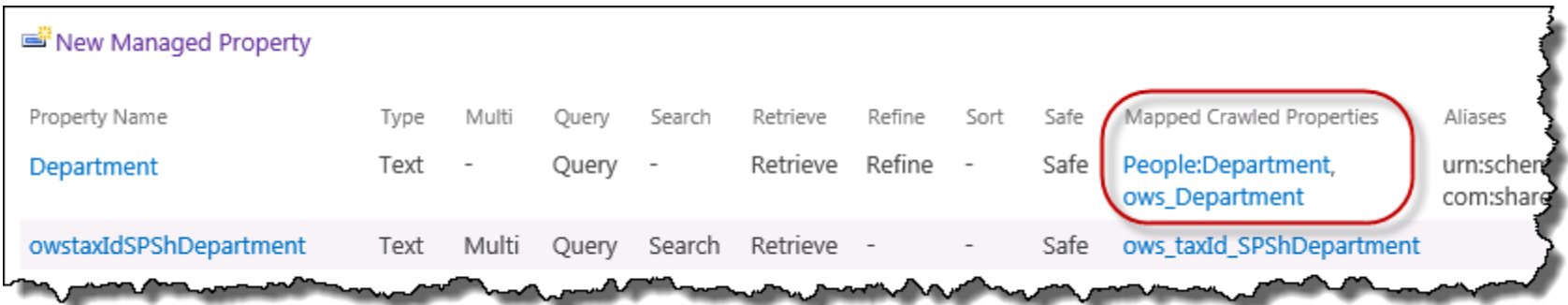▶ Custom BCS Connectors for Indexing

SharePoint 2013 Search Architecture

Content Processing

Crawl → Content Processing → Index

Document Parsing → Content Enrichment → Word Breaking → Custom Entity Extraction

Custom Web Service

The Name Game

▶ Field Names <> Managed Property Names
▶ Profile Property Names<>Managed Property Names

Property Name	Type	Multi	Query	Search	Retrieve	Refine	Sort	Safe	Mapped Crawled Properties	Aliases
Department	Text	-	Query	-	Retrieve	Refine	-	Safe	People:Department, ows_Department	urn:schem com:share
owstaxIdSPShDepartment	Text	Multi	Query	Search	Retrieve	-	-	Safe	ows_taxId_SPShDepartment	

New Managed Property

Managed Properties

▶ Not only for Administrators anymore

- Farm

- Site Collection

- Site

▶ Managed Property Controls

- Type & Multivalue

- Query, Search, Retrieve, Refine, Sort, Safe

Query Language Options

▶ Keyword Query Language (KQL)

- Default query language

▶ FAST Query Language (FQL)

- Available, though disabled by default

▶ SQL Query Language

- Removed from SharePoint 2013

KQL

- ▶ Free text
  - SharePoint
- ▶ Wildcard
  - Share*
- ▶ Property
  - Author:McD*, ContentType:Image
- ▶ NEAR, ONEAR
  - SharePoint NEAR Social

2013 Search API
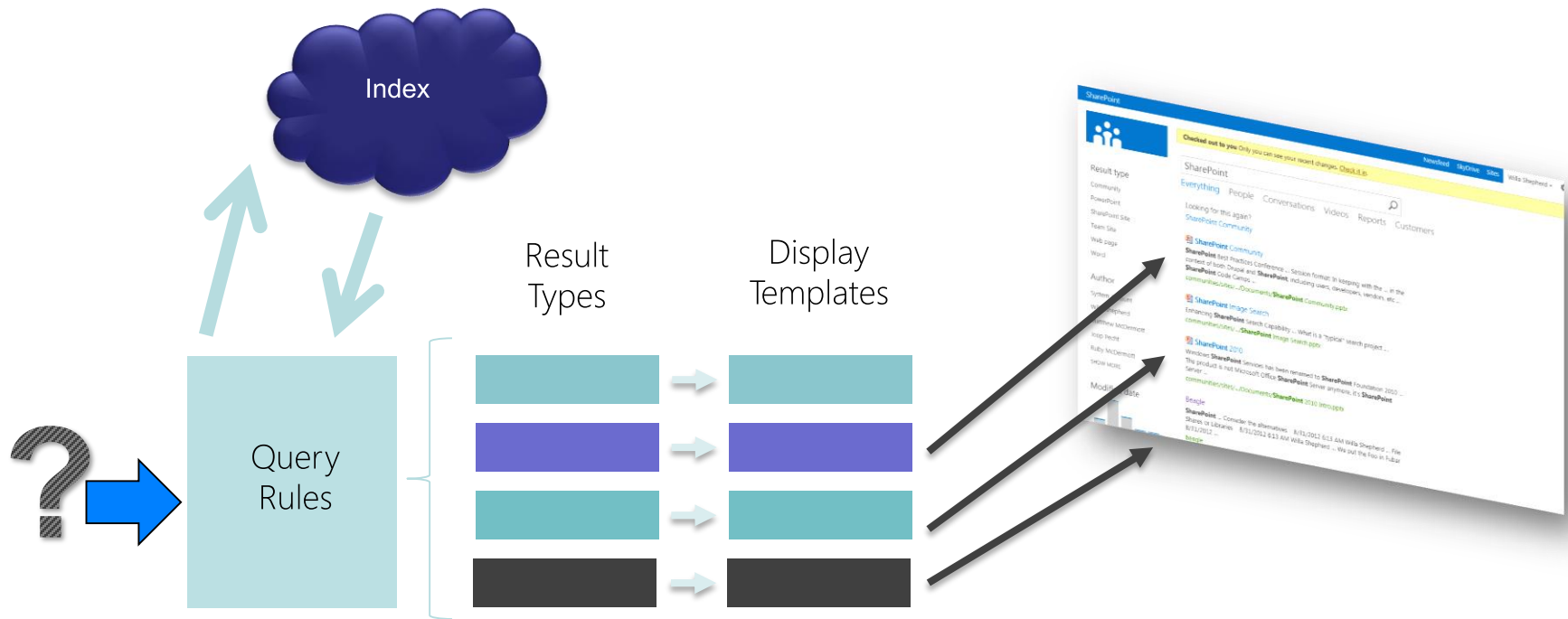
- ▶ REST
- ▶ CSOM

- ▶ Search.asmx is deprecated

Demo

Keyword Query Language and the Search REST API

SEARCHING SHAREPOINT

REST Query Enhancements

Operation	Example	Purpose
SourceId	&SourceId='b09a7990-05ea-4af9-81ef-edfab16c4e31'	Specify the Result Source
SelectProperties	&selectproperties='PictureUrl, PreferredName'	Managed Properties to return
EnableNicknames	&enablenicknames=true	Nickname matching
EnablePhonetic	@enablephonetic=true	Enable phonetic matching
ClientType	&clienttype='CorpApp'	Name of the client issuing the query

2013 Search Results

Index

Query Rules

Result Types

Display Templates

Demo

Display Templates, Query Rules and Result Sources

IMPROVING THE SEARCH CENTER

Demo

Can we do BI in the Search Center?

REFINERS

Search Options

Operation	URL	Description
query	/_api/search/query	HTTP Get and is used to retrieve search results.
postquery	/_api/search/postquery	HTTP POST and is used to retrieve search results. This method can be used to overcome URI length restrictions when using the HTTP GET based method "query".
suggest	/_api/search/suggest	HTTP GET and is used to retrieve query suggestions.

Demo

Windows 8 and REST for People Search

PEOPLE SEARCH

Payload Optimization

► Use JSON, it is 10% smaller than XML
  - Accept: application/json;odata=verbose

► Use Query Modifiers
  - bypassresulttypes=true
  - selectproperties='PreferredName, author, ...'
  - rowlimit, startrow, rowsperpage, etc

► Use compression (gzip or deflate)
  - Accept-Encoding: gzip,deflate

MSDN Resources

► SharePoint Queries

- http://bit.ly/XwFKpv

► SharePoint Search REST

- http://bit.ly/110O2oP

► Search Connectors

- http://bit.ly/17vAne7

► Content Enrichment

- http://bit.ly/ZRpN9M

Thank you for attending!

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http://bit.ly/McDSPEvo13