

# Search in SharePoint 2013

Presented by Peter Carson  
President, Envision IT

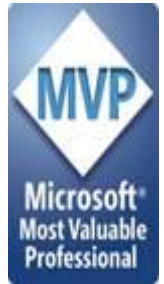
May 30, 2013



# Peter Carson



- President, Envision IT
- SharePoint MVP
- Virtual Technical Specialist, Microsoft Canada
- [peter@envisionit.com](mailto:peter@envisionit.com)
- <http://blog.petercarson.ca>
- [www.envisionit.com](http://www.envisionit.com)
- Twitter @carsonpeter
- VP Toronto SharePoint User Group



# Agenda

- [Envision IT Overview](#)
- Search Architecture in SharePoint 2013
- Search Features
  - General Search
  - Content Search Web Part
  - Catalogs and Cross-Site Publishing
  - Topic Pages
- Search at Envision IT
- Shakespeare Search Developer Demo
  - Catalogs and Cross-Site Publishing
  - Content Search Web Part
  - General Search
- Wrap-Up and Q&A



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Monday, February 4, 2013

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Wednesday, February 13, 2013

[Cast List for 2013 Season Decided](#)

Friday, March 29, 2013

[Mishap during Rehearsal](#)

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## Media Spotlight

Monday, May 6, 2013

[ESC on CBC](#)

[Read all media spotlight articles »](#)

## Vivamus at lectus

Donec ullamcorper dui sollicitudin augue tincidunt nec blandit sem varius. Duis lacinia viverra varius. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Nulla porta dolor a neque interdum placerat. Vivamus ut nisi magna. Maecenas in mauris eu est rhoncus viverra fermentum id nulla.

# Agenda

- Envision IT Overview
- **Search Architecture in SharePoint 2013**
- Search Features
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# Introduction

- Search is new and different from all previous versions of SharePoint
- The platform has been consolidated
  - Built on a combination of FAST Search and SharePoint Search components, as well as new development work – it is the same from Foundation to Server
  - Foundation Search is intended to replace WSS Search, Microsoft Search Server and Search Server Express from previous versions of SharePoint
- It's used pervasively throughout the product now in many different ways, in different features
  - eDiscovery, navigation, topic pages, Internet facing business sites, etc.

# Search in SharePoint 2010

	<b>SharePoint Search</b>	<b>FAST Search</b>
<b>Focus</b>	Enterprise search	Search application platform
<b>Strengths</b>	Ease of deployment, low TCO	Scale, Extensibility
<b>Limitations</b>	Limited extensibility	Complex deployment, maintenance
<b>Products</b>	SharePoint Foundation, SharePoint Server, Search Server	FAST Search for SharePoint, FAST Search for Internet Sites



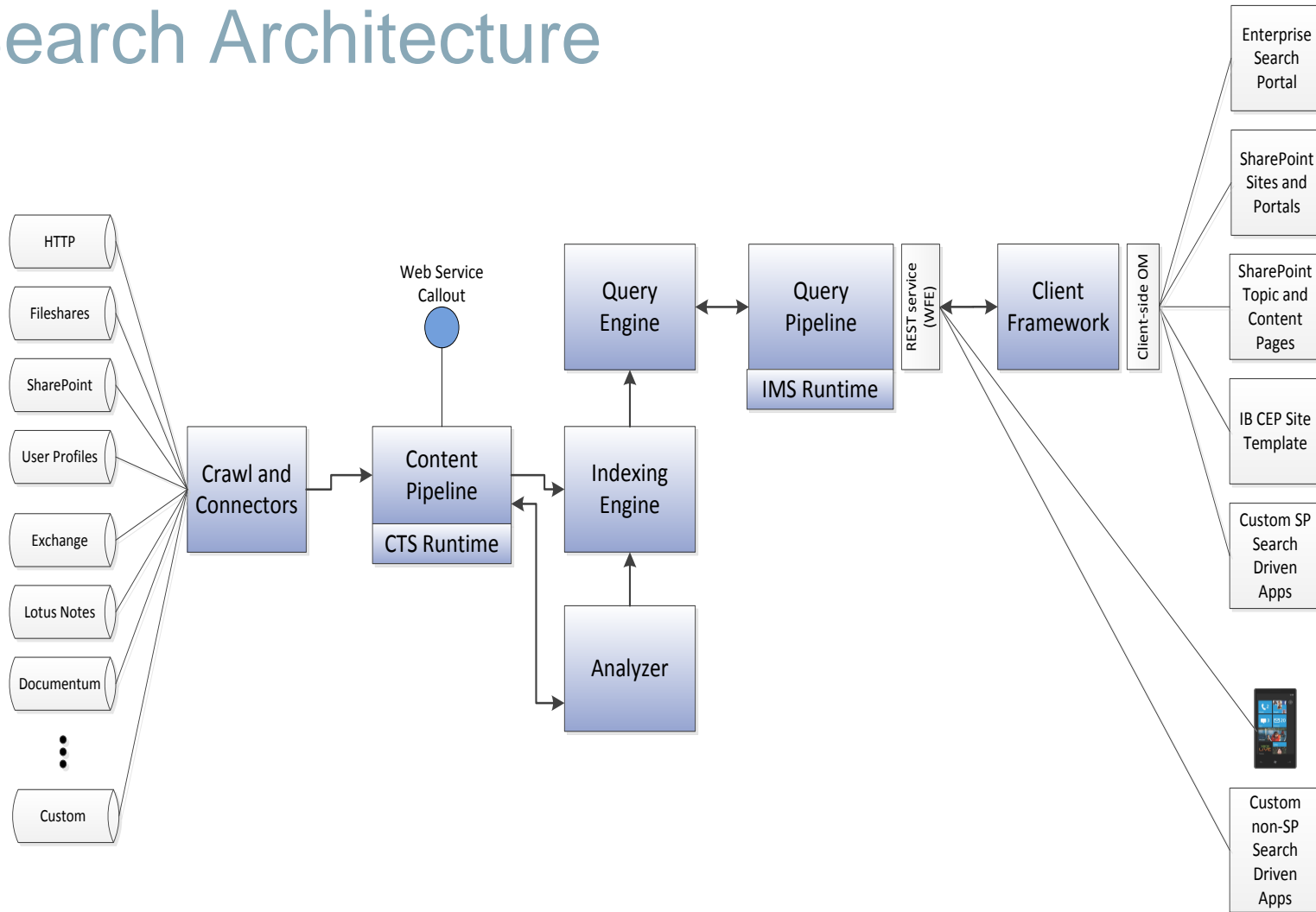
# Search in SharePoint 2013

- Single Extensible Platform
  - FAST Engine
  - SharePoint Crawler
  - Best of both!
- Same Search Platform in both SharePoint and Exchange

# Search Architecture



# Search Architecture



# SharePoint 2013 Architecture



SharePoint Web Front Ends



Office Web Apps Servers



SharePoint Application Servers

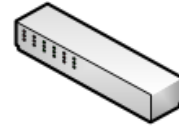


Active Directory



Clustered or Always On  
SQL Server

# SharePoint 2013 Architecture



Network Load Balancer



SharePoint Web Front Ends



Office Web Apps Servers



SharePoint Application Servers



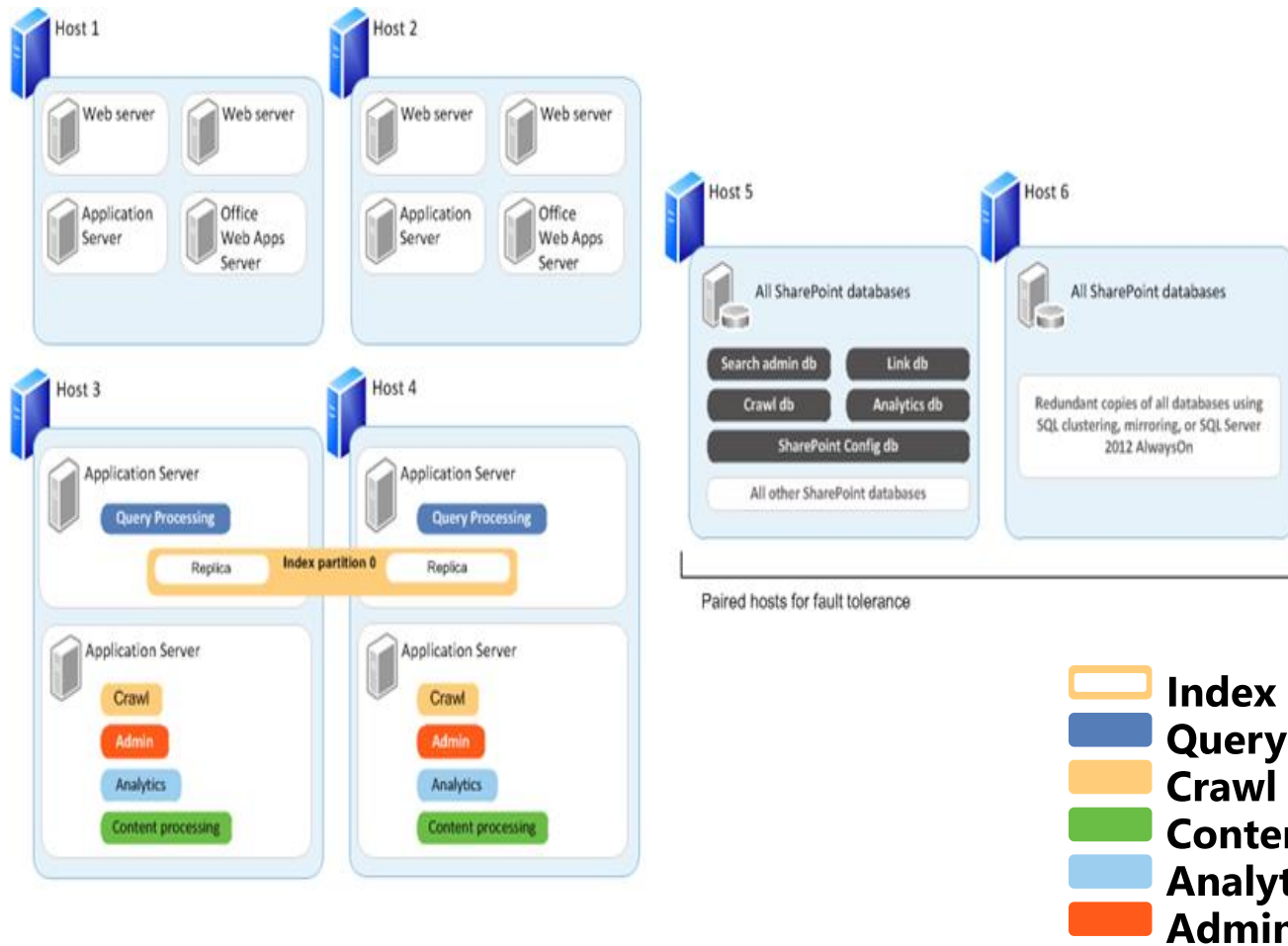
Active Directory



Clustered or Always On  
SQL Server

# Small Example

## Target: 10 Million Items



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# Display Templates

- Used to customize the look and feel of search results in many different scenarios
- Part of 2013 Design Manager feature
- Similar in concept to the new master page design process
- Author in HTML
- Auto-converted to JS files
- Much simpler than working in XSLT



# Site Search

- Easy to setup and very powerful search experience
- Can create a search centre from a site template
  - Creates a new site
  - General, people, conversations, video, and advanced search pages are all created
  - Default verticals of Everything, People, Conversations, and Videos are defined
- Can also add search web parts directly to a page
- Use Display Templates to customize the look and feel
  - No more XSLT

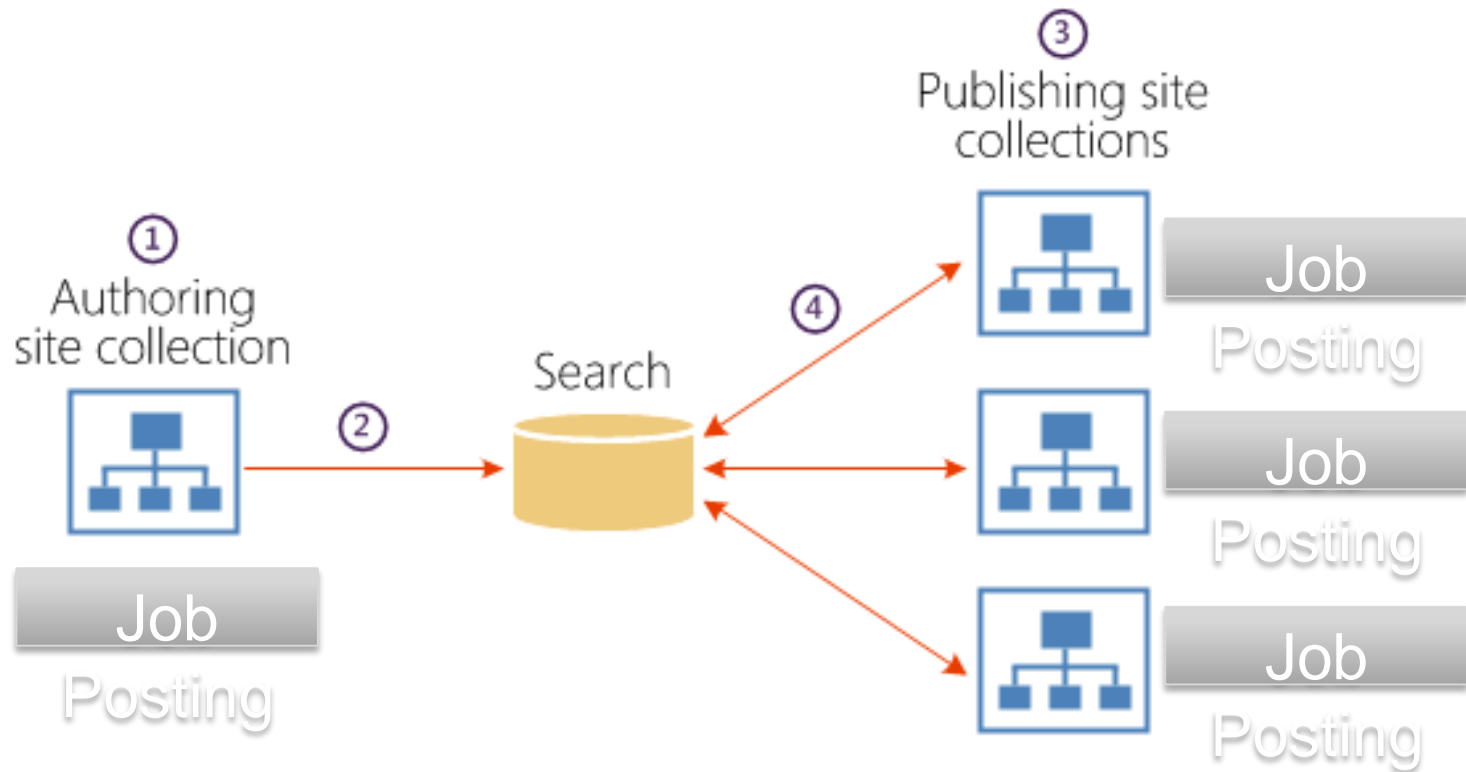
# Content Search Web Part

- Similar in concept to the Content Query Web Part
- Many advantages
- Can go across sites, site collections, web apps, even farms
- Leverages the search index -> very scalable
- Query Builder makes it easy to define your results
- Use Display Templates to customize the look and feel
  - No more XSLT
- Part of the Enterprise CAL

## Cross-Site Publishing

- Reuse content between different sites, including site collections and farms
- Catalogs can surface lists into publishing sites with category and item pages
- Can be surfaced through the Content Search Web Part
- No need to create and publish web pages
- Create custom, friendly URLs
- Metadata based navigation based

# Cross Site Publishing



## Catalogs

# Results

Consistent  
Displays

Manage  
content in  
one place

No need  
to create  
pages

No need  
to format

Metadata  
Navigation



## Site Settings › Term Store Management Tool

SEARCH

TAXONOMY TERM STORE

English

- Managed Metadata Service Application Proxy
- People
- Search Dictionaries
- System
- Site Collection - sphvm-114-sites-products
  - Product Hierarchy
    - Electronics
      - Audio
      - Cameras
      - Computers
        - Computers accessories
        - Desktops
        - Laptops
        - Monitors
        - Printers, scanners and fax
        - Tablets
      - Home appliances
      - Phones
      - TV and video

GENERAL

**Managed Metadata Service Application Proxy**

**Available Service Applications**  
A site may consume multiple metadata applications. Select the one to see in the tree view.  
Managed Metadata Service Appl

**Sample Import**  
The SharePoint metadata manager can import a term set from a UTF-8 CSV format file. Use the sample file as a template for creating import files. Then import the file into the desired group to create a new term set.  
[View a sample import file](#)

**Term Store Administrators**  
You can enter user names, group names, or e-mail addresses. Separate them with semicolons. These users will be permitted to create new term set groups and assign users to the group manager role.  
redmond.pkmacc;

**Default Language**  
Select the default language for all Metadata in the system. All terms must be translated into the default language.  
English

**Working Languages**  
Select the "translation of" languages for terms in the term store. This will allow a term to have language.  
Select languages from:  
Installed language packs  
Add >> English

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Recent

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Site Contents

Products ⓘ

+ new item or edit this list

All Items Approve/reject Items My submissions ... Find an item

✓	📄	Title	Item Number	Group Number	Language Tag	Item Category	Rollup Image	Approval Status
		Southridge Video Laptop15.4W M1548	5637146264	5637145762	en-US	Laptops		Approved
		Southridge Video Laptop15.4W M1548	5637146265	5637145762	en-US	Laptops		Approved
		Southridge Video Laptop15.4W M1548	5637146266	5637145762	en-US	Laptops		Approved
		Southridge Video Laptop15.4W M1548	5637146267	5637145762	en-US	Laptops		Approved
		Southridge Video Laptop8.9 E0890	5637146268	5637145763	en-US	Laptops		Approved

# Catalogs

## Category Page

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OTHER VALUES  
APPLY \$13.888

RETCOLOR  
Black  
Blue  
White  
Silver  
Green  
SHOW MORE

Litware 2G MP3 Player E200 ★★★☆☆ \$21.57	Litware 2G MP3 Player E200 ★★★★★ \$21.57	Litware 2G MP3 Player E200 ★★★☆☆ \$21.57
Litware 2G MP3 Player E200 ★★★★★ \$21.57	Litware 4G MP3 Player E400 ★★★★★ \$59.99	Litware 4G MP3 Player E400 ★★★☆☆ \$59.99
Litware 4G MP3 Player E400	Litware 4G MP3 Player E400	NT 8GB MP3 Player new model ★★★★★

## Item Page

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**CONTOSO**  
electronics superstore

Audio | Cameras | Computers | Home appliances | Phones | TV and video

Litware 2G MP3 Player E200  
ITEM NUMBER: 5637148690  
\$21.57 ★★★★★ (3.4 out of 5)

2 GB MP3 player with LCD display for easy navigation between files and playlists. Plays MP3 and WMA files. Integrated voice recorder. High speed USB 2.0 interface.

Color:

Product description | Specification | Customer reviews | Accessories

**Overview**

2 GB MP3 player with LCD display for easy navigation between files and playlists. Plays MP3 and WMA files. Integrated voice recorder. High speed USB 2.0 interface. This great product is sure to provide years of use. It's an attractive addition to any household, useful and fun. Make the most of all the great features, share the benefits with family and friends, and get a good deal in the process. And remember, here at Contoso we won't be undersold. We will beat any competitor price. Just bring in our competitor's advertisement or coupon, and we will match their price and give you an additional 10 percent discount! Customer satisfaction is our top priority.

**Features**

- More value for your money.
- Functional and attractive.
- Make a great gift!

[www.contoso.com/products/Audio-Liware2g](http://www.contoso.com/products/Audio-Liware2g)

# Topic Pages

- Shows all items that match a topic
- Could be hundreds of virtual pages
- Only one template page
- Easily customizable and SEO friendly (each topic appears to be its own page)
- Content by search web part open search against a query or result source
- May be able to surface the topic pages themselves as site search results



# Public Health Ontario

About Information by Topic Services & Tools Data & Analytics Learning & Development

Home > Information By Topic > Influenza SHARE

## Influenza

1-10 of 11 results

**Ontario Influenza Bulletin**  
Reports for the 2012-13 season ... and conditions:Infectious diseases:**Influenza**Diseases and conditions:Infectious diseases:**Influenza**:**Influenza**-like illnessEpidemiology and Surveillance ...  
30/08/2012

**Influenza Vaccine Effectiveness Study**  
VE) Study started as a pilot program in BC in 2004 to monitor annual **influenza** circulation and VE against lab confirmed **influenza**. Ontario joined this initiative in 2008 ...  
29/03/2012

**Lunch and Learn: Influenza: Antivirals, Reassortments and Laboratory Testing**  
Group of The Ontario Health Plan for an **Influenza** Pandemic and is a member of the Pandemic **Influenza** Laboratory Preparedness Network, Canadian Public Health ... Stay up-to-date on upcoming ...  
28/03/2012

**Surveillance Services**  
2011-2012 Ontario **Influenza** Bulletins ... diseasesCommunicable and Infectious diseases:**Influenza**Laboratory Testing and Sciences ... Ontario **Influenza** Bulletin ...  
29/10/2012

**Laboratories surveillance updates**  
Reports click on the year below. Click here for 2011-12 Ontario **Influenza** Bulletins and Maps ... Health Ontario Laboratories in Ontario for **influenza** and other viral respiratory pathogens. ...  
30/08/2012

**Featured**  
**Ontario Influenza Bulletin**  
30/08/2012

**Learning & Development**  
**Influenza Vaccine Effectiveness Study**  
29/03/2012  
**Lunch and Learn: Influenza: Antivirals, Reassortments and Laboratory Testing**  
28/03/2012  
**Pandemic Learning Event (1): pH1N1 Primary Care Providers**  
02/04/2012

**Data & Analytics**  
We did not find any results for **Influenza** .

**Tools**

Narrow your results

# Usage Analytics

- Built for scale from the ground up
  - Detail data rolled up every 15 days & anonymized
  - Daily events purged every 15 days; monthly events after 3 years
  - Lifetime counts always retained
- Counts views & unique items/day
  - Shows recent (2-weeks) and lifetime count
  - Trims least visited content
  - Pushes aggregate data to reporting database
- Drives recommendations capabilities on content
  - Calculations injected into search index as sortable managed properties
  - Deep integration with search engine
  - Can influence search relevance based on content usage
- Includes preconfigured CBS Web Part – “Top Pages”

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# Search Scenario

## SharePoint 2013 Farm

<https://secure.envisionit.com>

<http://www.envisionit.com>

<http://blog.petercarson.ca>

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Welcome to Envision IT SECURE

Tuesday, April 16 2013  
LONDON 15°  
Partly Cloudy  
High: 17° Low: 4°  
Wind: 10-20 GPM

Staff

SharePoint Team Blog

Quick links  
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Team Foundation Server  
Vacation Calendar

My recent documents  
Secure 2013 Corporate Project Plan  
Secure 2013 Audit  
Secure 2013 Audit  
Secure 2013 Audit

Peter's blog  
SharePoint Summit 2013  
Envision Wins Microsoft MVPACT Award  
SharePoint Security  
Feb 26th 2013

Privacy Policy

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Products & Services

Upcoming Events

There's lots happening this year, and Envision IT is excited to be hosting informative seminars/webinars and participating in a number of SharePoint events. We have been busy working with the new SharePoint 2013, and we would love to meet with you and share some of the solutions we have been working on.

DevTech Toronto/Message  
May 30, 2013  
Envision IT is pleased to announce that our President, Peter Carson, will be speaking at this year's DevTech Conference being held in Mississauga from May 27-31, 2013. Peter's presentation will be on SharePoint Search.

SharePoint Summit 2013  
August 05, 2013  
Envision IT is pleased to announce that our President, Peter Carson, has been invited to speak at the upcoming SharePoint Summit in Washington D.C. from August 5-7, 2013.

Recent Events

Envision IT to Speak at SharePoint Summit 2013  
May 14, 2013  
Envision IT is excited to announce that our President, Peter Carson, will be one of the featured speakers at the SharePoint Summit in Toronto from May 13-15, 2013. Peter will deliver a presentation on Web Content Management in SharePoint 2013.

Peter Carson MVP  
"Creating a Dialogue around Microsoft SharePoint"

Aug 13, 2012

Upgrading a 2010 Publishing Site to SharePoint 2013 Part One

It's been a while since I posted, and now I have a backlog of SharePoint 2013 content that I'd like to get posted out there, so I need to find the time. I've been busy with the home since early this year, so now that it's quiet, it's time to start getting things done.

I figured the best place to start would be one of my favorite topics: Upgrading and Web Content Management (WCM). What better place to start on that than on my blog site itself, which is hosted on SharePoint 2010.

Being a WCM fan, when it came time to move my blog site to SharePoint 2013, I decided not to use the Blog Template, but rather have it off the WCM publishing site template. This gave me much better control over the branding and user experience, but it required some work to pull it all together. Some of it I never did get fully completed, so I'll have to get back to that one. I have custom web parts for the archive and tag cloud sections that I need to replace, as well as some around the anonymous commenting and CAPTCHA requirements for a public blog. I'll save that for another day, but hopefully soon.

... (Read More)

Aug 13, 2012

Upgrading a 2010 Publishing Site to SharePoint 2013 Part Two

If you have a look at the [TechNet SharePoint 2013 Preview](#) articles, you'll see that Microsoft has done a great job of documenting a lot of the cool new features in 2013. The first paragraph briefly describes an improvement to the Word cut and paste experience for content authors. I can't say enough how important I see that being, so I've developed a full post just on that topic at [SharePoint 2013 Word Cut and Paste](#).

Naturally, I was keen to try the feature out, so one of the first things I did was open my new 2013 blog site (which still hosted the 2010), and paste some rich text in from Word. They don't disappoint to see that it does work. What I don't realize is that I had to complete the site collection upgrade to be able to see the new features (like 2010 made really dense work like 2010).

It was now time to try the Site Collection Upgrade. Much like in 2010, in the Site Collection Administration section of Site Settings, there is a Site Collection Upgrade option. Choosing the page

SharePoint 2010  
Microsoft MVP  
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# Search Implementation



# Secure Search

SharePoint Peter Carson

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sharepoint demo

Everything People Secure Web Site Peter's Blog

**SharePoint Demo Script**  
secure.vm13-demo.envisionit.com/.../SharePoint Demo Script.docx

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Products to Enrich your **SharePoint** Experience ... Leaders in **SharePoint** Solutions ...  
www.vm13-demo.envisionit.com

Peter Carson  
Iron **SharePoint** ... **SharePoint** Tips ... catalogs/masterpage/Forms/AllItems.aspx  
Default Manage site content and structure 4 False Reorganize content ...  
blogpeter.vm13-demo.envisionit.com

FAST Search for **SharePoint** – "Hello World"  
Target Audience: **SharePoint** Professionals who are installing FAST Search for the first  
... How to setup your first FAST Search for **SharePoint** Server ... **Demos** ... Provide a  
link to a Feedback ...  
secure.vm13-demo.envisionit.com/.../SPC228-FAST Search fo...

Services  
October 23: Extranets in **SharePoint** 2013 October 30: Search in **SharePoint** 2013  
November 06: Digital Marketing Suite and **SharePoint** 2013 ... **SharePoint** 2013 is here  
...  
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HSFO Intranet

Result type

Excel

PDF

PowerPoint

Web page

Word

Zip

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Author

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Modified date

One Year Ago Today

SharePoint Demo Script

Envision IT Site Walkthrough

Create a Site

Create doc

Version history

Add a user

Review workflow

Search

People search

My sites

Forms

Excel Services

Publishing

PAGE 1 OF 1

Changed by Peter Carson on 7/20/2007 2:50 AM

EDIT FOLLOW SEND VIEW LIBRARY



# www Search



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Result type

PDF

SharePoint Site

Web page

Zip

Modified date



All

extranet

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## Services

Public Web Sites Intranets Extranets Board of Directors Portal SharePoint ... by Solution Type Intranets Extranets Public Web Sites Business Process Automation ...  
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## Login

by Solution Type Intranets Extranets Public Web Sites Business Process Automation ... Public Web Sites Intranets Extranets Board of Directors Portal SharePoint ...  
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## Impact 2012

by Solution Type Intranets Extranets Public Web Sites Business Process Automation ... Public Web Sites Intranets Extranets Board of Directors Portal SharePoint ...  
[www.vm13-demo.envisionit.com/impact2012](https://www.vm13-demo.envisionit.com/impact2012)

<https://www.vm13-demo.envisionit.com/products>

Peter

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Web Page

30 views

The screenshot shows a SharePoint site with a blue header and navigation menu. The main content area is divided into several sections: a navigation menu on the left, a central banner with a plus sign and equals sign, and three columns of content below. The columns are titled 'Upcoming Events', 'New Releases', and 'Latest News'. The 'Upcoming Events' section lists several events with dates and titles. The 'New Releases' section lists two releases with version numbers and dates. The 'Latest News' section lists several news items with titles and dates.

Results from this site

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# www Events Products



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Products > Events



## Upcoming Events

There's lots happening this Fall, and Envision IT is excited to be hosting and attending a number of SharePoint events in the coming weeks. Our developers and consultants are busy ramping up on SharePoint 2013, and we would love to meet with you and share some of the solutions we have been working on.

### Webinar 2012-10-30 What's New in Search in SharePoint 2013

Tuesday, October 30, 2012



During this webinar Envision IT will compare and contrast Search in SharePoint 2013 with both SharePoint 2010 and FAST Search for SharePoint.

### Webinar 2012-11-06 Digital Marketing Suite and SharePoint 2013

Tuesday, November 6, 2012



During this webinar Envision IT will explore some of the new features of SharePoint 2013, and how we are leveraging those in our new 2013 versions of our products.

### SharePoint Conference 2012

Monday, November 12, 2012



Envision IT is excited to announce that once again we will be exhibiting at the Microsoft SharePoint Conference in Las Vegas, Nevada from November 12th to 15th, 2012





# www Events Services



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# Secure Events



Search

Home > Secure

Welcome to  
**Envision IT**  
**SECURE**



Tuesday, April 16 2013



LONDON  
**15°**  
Partly Cloudy  
High: 13° Low: 8°  
Wind: SW 27.36km/h

[Full forecast](#)

#### Quick links

[CRM](#)  
[SPLATT](#)  
[Team Foundation Server](#)  
[Vacation Calendar](#)

#### My recent documents

- Secure 2013 Upgrade Project Plan  
4/8/2013 9:03 PM
- Secure-2013-Mockup  
4/15/2013 3:48 PM
- Secure 2013 Mockup  
4/16/2013 2:38 PM

#### Peter's blog

[SharePoint Summit 2011](#)  
[Envision Wins 2010 Microsoft IMPACT Award](#)  
[SharePoint Saturday](#)  
[Tech Days 2010](#)

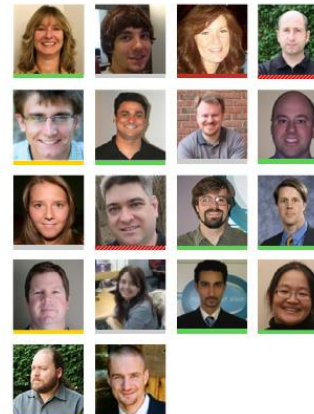
#### Upcoming Events

- webinar series** Webinar 2013-04-16 Extranets in SharePoint 2013  
April 16, 2013
- webinar series** Webinar 2013-04-16 Rich Media Support in SharePoint 2013  
April 16, 2013
- seminar series** Seminar 2013-04-25 Upgrading to SharePoint 2013  
April 25, 2013
- SharePoint Saturday Boston**  
April 27, 2013

#### SharePoint Team Blog

The SharePoint Team Blog has moved  
Don't miss the Virtual Launch Event for the New Office 365 for Business  
Following in SharePoint 2013  
Localization and Internationalization Improvements in SharePoint 2013  
Enabling modern SharePoint experiences on Windows 8 for students and teachers

#### Staff



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# Initial Site Setup

- Download the package from [www.envisionit.com/shakespeare](http://www.envisionit.com/shakespeare)
- Create the web app through Central Admin or PowerShell
- Modify the ShakespeareBuild\_2\_SetEnvironment.ps1 to match your environment
- Run ShakespeareBuild\_1\_Complete.ps1 to build the site
  - Creates the site collection
  - Populates the Term store
  - Creates the site columns, content types, lists, and libraries
  - Populates with content
- Enable the blob cache
  - Needed for image renditions
- Set the navigation to the term store

# Setup the Catalog

- Enable Cross-Site Collection Publishing Feature
  - Site settings - Site collection Features
- News List - Settings
- Set Catalog Settings
  - Enable this library as a catalog
  - Enable anonymous access
  - Catalog Item URL Fields - ID
  - Navigation Hierarchy - Catalog Term

# Configure Search

- Go to Central Admin – Manage Service Applications - Search
- Create a new content source just for Shakespeare
  - Under Content Sources
  - Need to remove it from the default Local SharePoint sites
  - Easier and faster to be able to do full crawls of just the one site
- Do a full crawl
  - Drop-down on the content source
  - Picks up the new site columns in the site
- Go to Search Schema
  - New Managed Property
  - SummaryOWSHTML
  - Searchable, Queryable, Retrievable, Safe
  - Add a Mapping
  - Ows\_ESCSummary
- Do another full crawl

# Connect the Catalog

- Site Settings - Manage catalog connections
- Connect to a catalog
- You should see the News catalog
- Connect
- Integrate the catalog into my site
- Set the Root term to News
- Create new pages with Oslo master page

# Configure the Category Page

- Navigate to /news/news
- Edit the page
- Set the page layout to Category-News
- Edit the web part
- Set the display templates to Control\_News and Item\_News
- Publish the page



# Configure the Item Page

- Select a News Item
  - Note that every item uses the same page
- Edit the page
- Set the page layout to CatalogItem-News
- Publish the page

# Add a Content Search Web Part

- Go to the home page
- Edit
- Add a web part to the lower left zone
- Under Content Rollup – Content Search
- Edit the web part
- Change the query
  - Items matching a content type
  - Show all content types
  - Select ESCNews
- Set the Display Templates
  - Control\_NewsRollup
  - Item\_NewsRollup
- Hit OK to save the web part
- Publish the page

# Create a Search Results Page

- Add a page
  - Search.aspx
- Edit the page
- Change the layout to ESC Search Page
- Add web parts
  - Zone 1 – Refinement
  - Zone 2 – Search Results
  - Zone 2 – Search Box
- Configure the Search Results web part
  - Uncheck Advanced, language drop-down, preferences, and AlertMe
- Hit OK to save the web part
- Publish the page

# Agenda

- Envision IT Overview
- Search Architecture in SharePoint 2013
- Search Features
  - General Search
  - Content Search Web Part
  - Catalogs and Cross-Site Publishing
  - Topic Pages
- Search at Envision IT
- Shakespeare Search Developer Demo
  - Catalogs and Cross-Site Publishing
  - Content Search Web Part
  - General Search
- **Wrap-Up and Q&A**

# Next Steps and Links

- Spin up a test environment
  - Your developer VM
  - [www.cloudshare.com](http://www.cloudshare.com)
- Download the Shakespeare package
- Try it out yourself
  
- [www.envisionit.com/shakespeare](http://www.envisionit.com/shakespeare)
- <https://shakespeare.envisionit.com>
- <http://blog.petercarson.ca>