



Search in SharePoint 2013

see more.



Leaders in SharePoint Solutions

Peter Carson



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- Twitter @carsonpeter
- VP Toronto SharePoint User Group





SERVICES

Leaders in SharePoint Solutions



PRODUCTS

Products to Enrich your SharePoint Experience



Envision IT Services Overview

Focused on complex SharePoint solutions, Envision IT is the “go-to” partner for Microsoft SharePoint, building integrated public web sites, Intranets, Extranets, and web applications that leverage your existing systems anywhere over the Internet.



Products



Envision IT
Extranet User Manager
for SharePoint



Envision IT
Digital Marketing Suite
for SharePoint



Envision IT
Video Player
for SharePoint



Envision IT
Image Rotator
for SharePoint



Envision IT
Photo Viewer
for SharePoint



Envision IT
Custom 404
for SharePoint

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

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

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

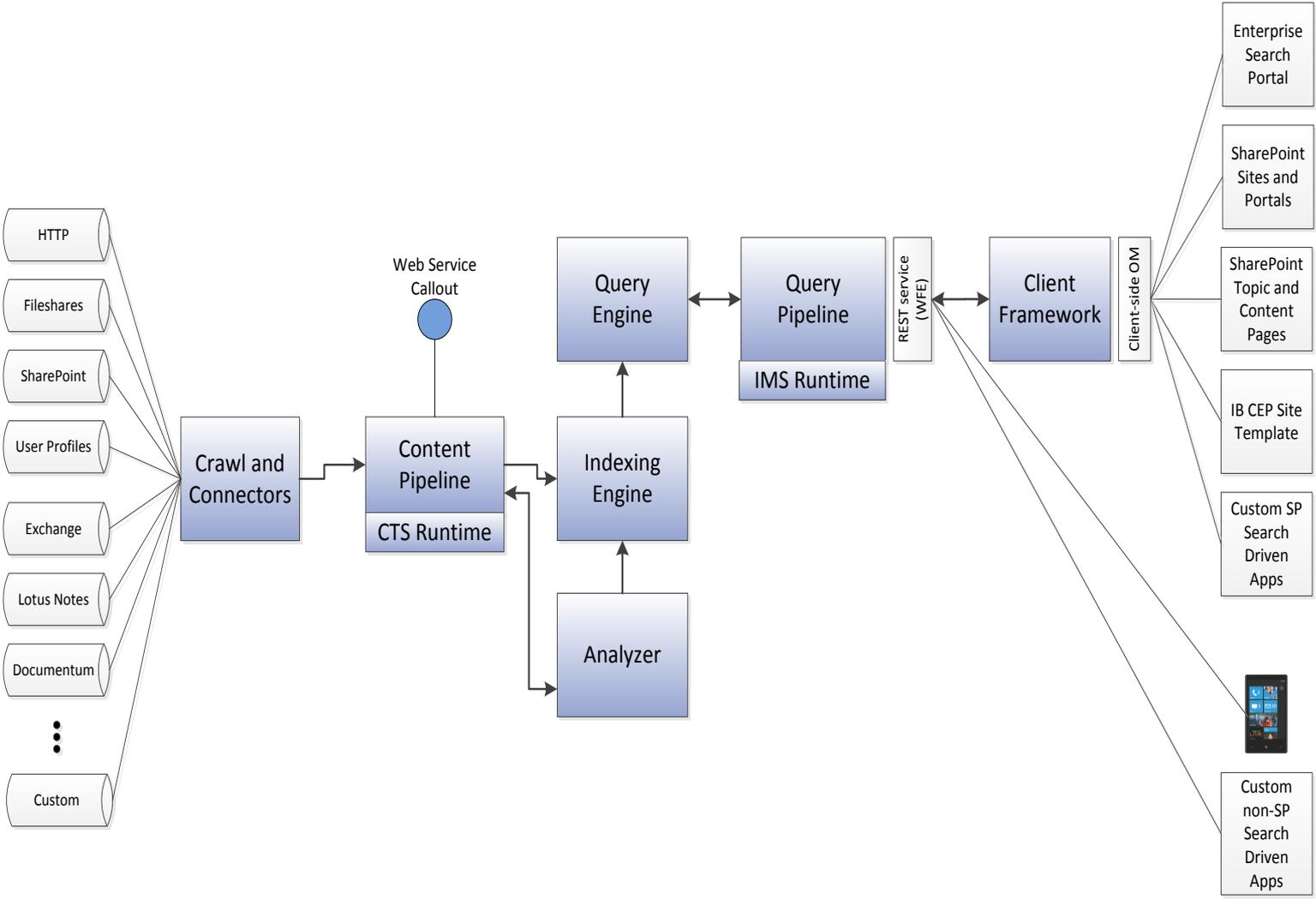
Search in SharePoint 2013

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

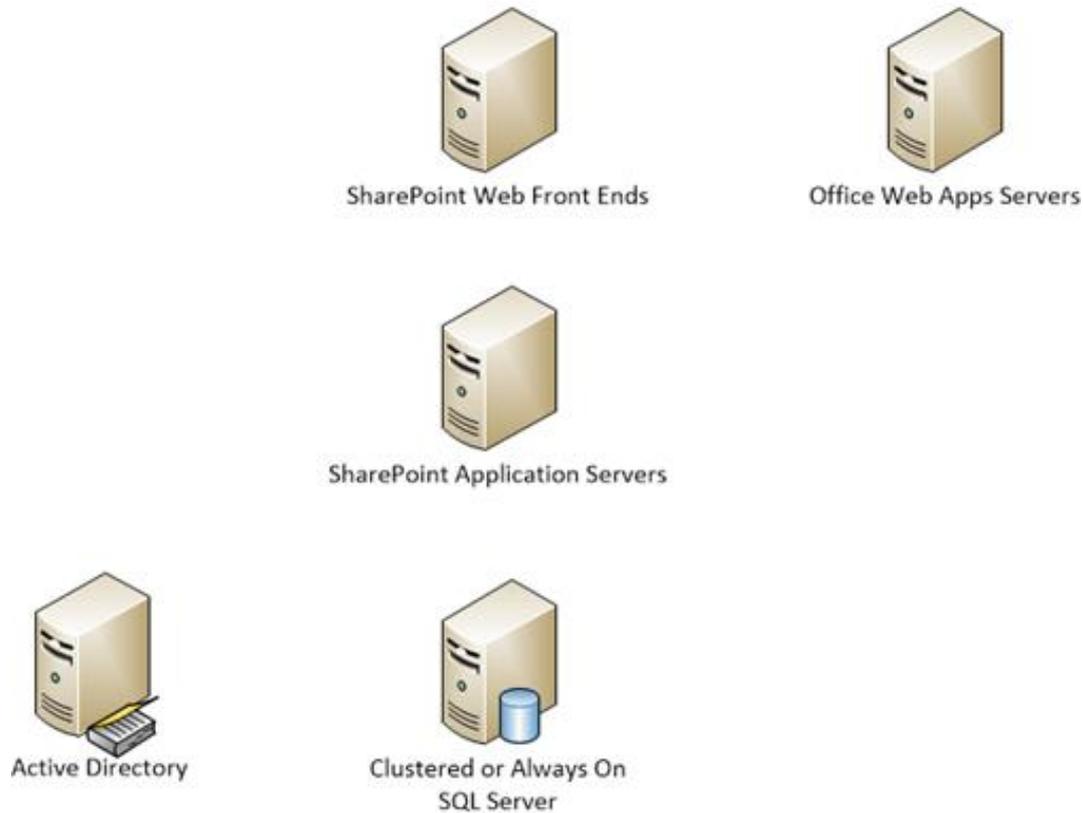
Search Architecture



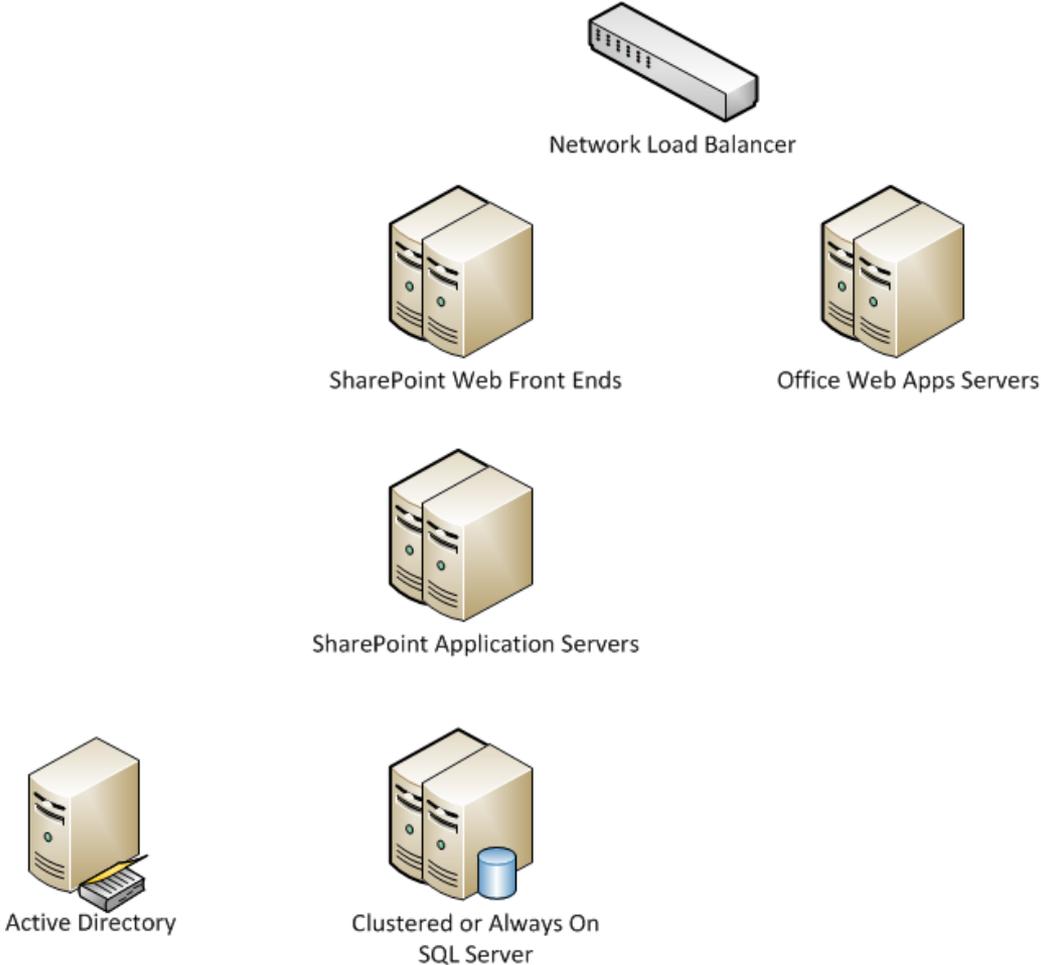
Search Architecture



SharePoint 2013 Architecture

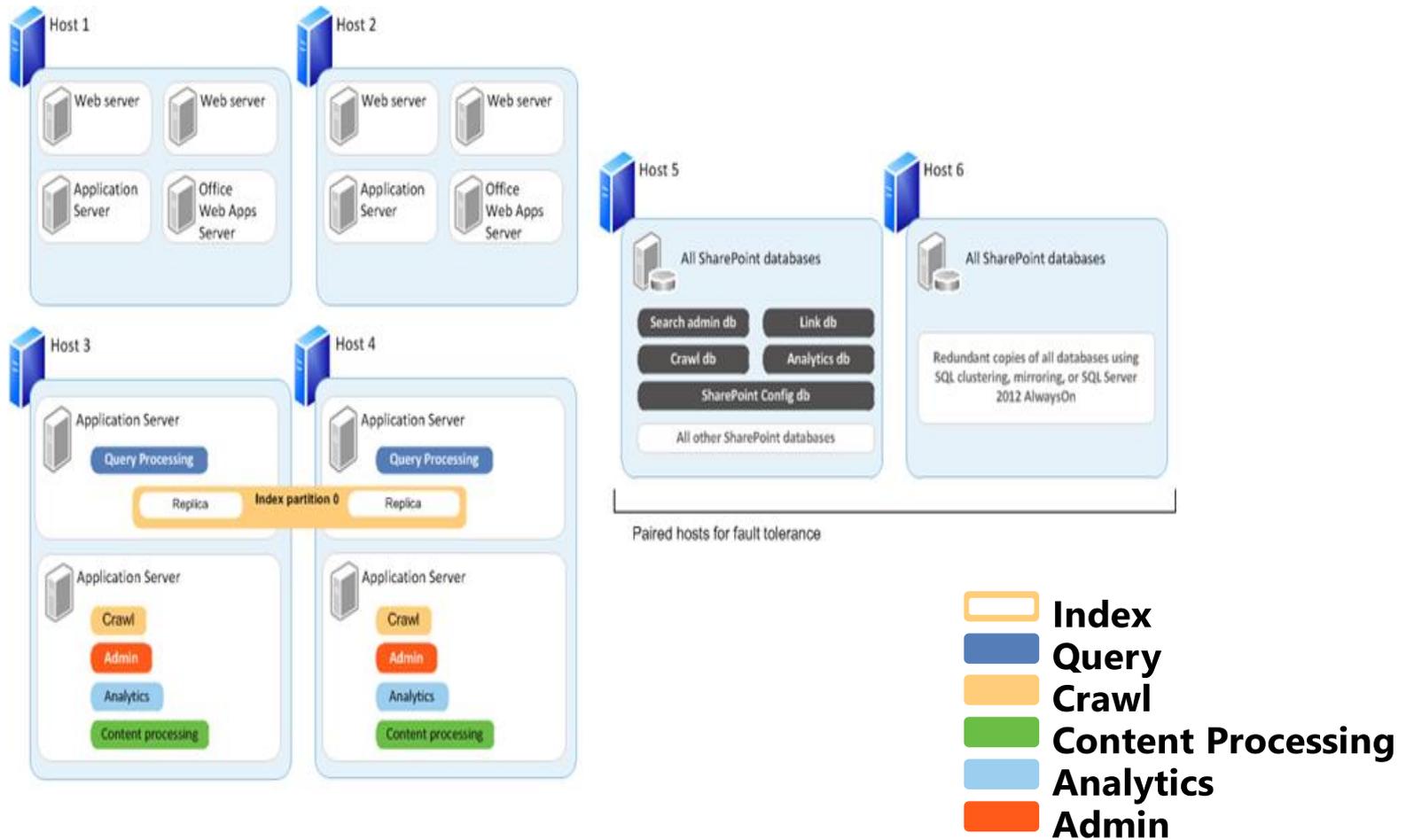


SharePoint 2013 Architecture



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

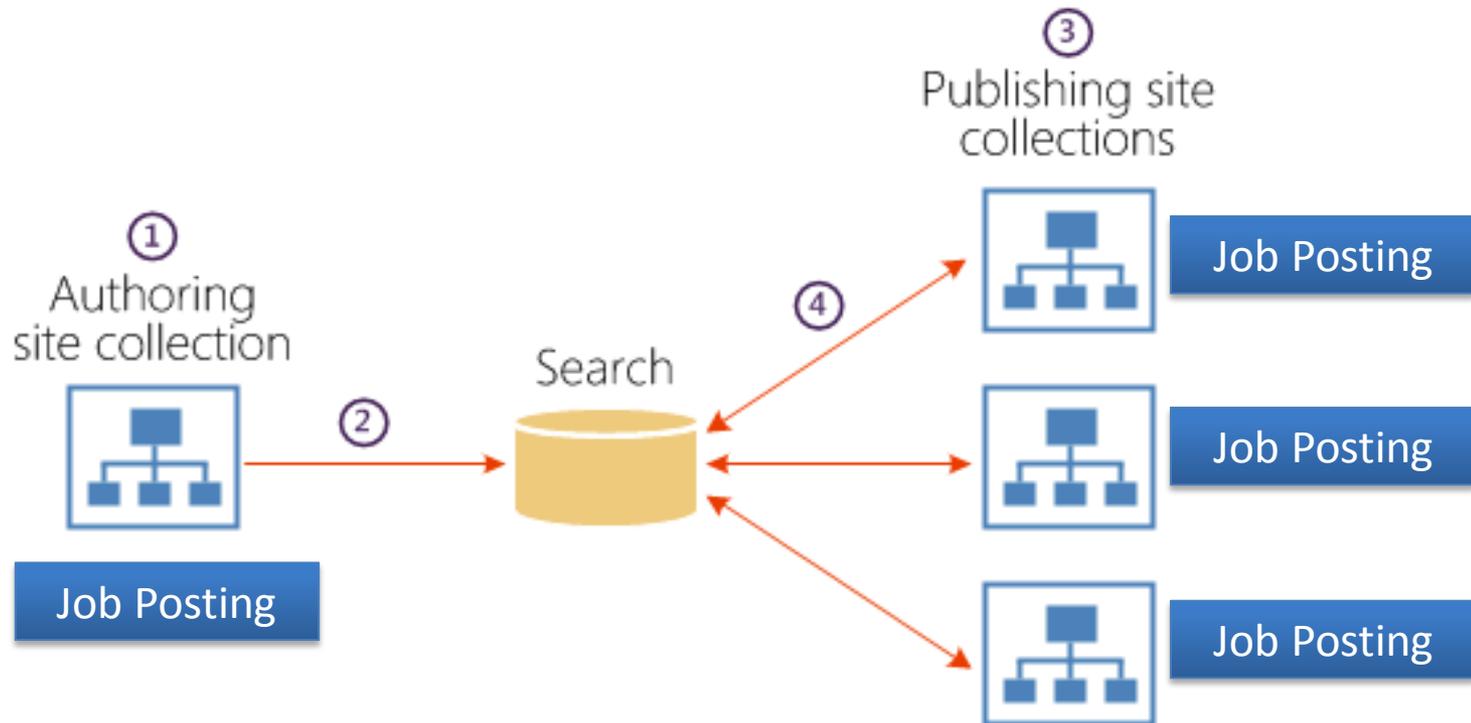
Content Search Web Part

- 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

SharePoint

Products

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 in this set are defined in this default language.

English

Working Languages

Select the "translation of" languages for terms in the term store. This will allow a term to have language translations.

Select languages from:

Installed language packs

Add >>

English

Products

Products ⓘ

Home

Lists

Recent

- Products
- Site Contents

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

The screenshot shows the 'Audio' category page on the Contoso Electronics Superstore website. The page features a navigation bar with 'Audio' selected, and other categories like 'Cameras', 'Computers', 'Home appliances', 'Phones', and 'TV and video'. A sidebar on the left includes filters for 'RETBASPRICE' (a price range slider from 10 to 1,000), 'RETONSALE' (a 'False' checkbox), 'RETBRAND' (a 'Contoso' checkbox), and 'RETCOLOR' (a list of colors: Black, Blue, White, Silver, Green). The main content area displays a grid of nine MP3 player products, each with an image, name, star rating, and price. A blue arrow points from the first product in the grid to the Item Page.

Product Name	Price
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	\$59.99
Litware 4G MP3 Player E400	\$21.57
Litware 4G MP3 Player E400	\$59.99
NT 8GB MP3 Player new model	\$59.99

Item Page

The screenshot shows the 'Item Page' for the 'Litware 2G MP3 Player E200'. The page features a large product image of a red MP3 player with earbuds. To the right of the image, the product name 'Litware 2G MP3 Player E200' is displayed, along with the item number '563714690', a price of '\$21.57', and a star rating of '3.4 out of 5'. Below the price, there is a 'Color' dropdown menu set to 'Red'. The page also includes a 'Product description' section with an 'Overview' and 'Features' sub-sections. The 'Overview' section contains a paragraph of text, and the 'Features' section lists three bullet points: 'More value for your money.', 'Functional and attractive.', and 'Make a great gift!'. The page also has a navigation bar with 'Audio' selected and other categories like 'Cameras', 'Computers', 'Home appliances', 'Phones', and 'TV and video'.

Litware 2G MP3 Player E200
ITEM NUMBER: 563714690
\$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: Red

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

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

External Content

- External systems such as SQL databases or line of business systems such as Dynamics CRM
- Can be exposed in SharePoint as external lists
- Search can crawl this content
- Display templates can be used to customize the presentation

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

Pre-Configured CSWPs

- Popular Items
 - Shows items that have been recently viewed by many users
- Recently Changed Items
 - Shows items that have been modified recently. This can help site users track the latest activity on a site or a library
- Recommended Items
 - Show content recommendations based on usage patterns for the current page
- All of these can be further configured by editing their properties, and changing the search criteria

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Search Scenario

SharePoint 2013 Farm

<https://secure.envisionit.com>

<http://www.envisionit.com>

<http://blog.petercarson.ca>

Envision IT
Products to Enrich your SharePoint Experience

Home | Operations | Development Products | Sales | Marketing | Clients

Welcome to Envision IT SECURE

Tuesday, April 16 2013
LONDON 15°
Partly Cloudy
High: 17° Low: 8°
Wind: 10/20/27/30km/h

Staff

SharePoint Team Blog

2013 Envision IT Privacy Policy

Envision IT
Products to Enrich your SharePoint Experience

Home | Products | Services | Case Studies | Purchase | Events | News | About Us

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.

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

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

Recent Events

Envision IT to Speak at SharePoint Summit
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've posted, and now I have a backlog of SharePoint 2013 content that I'd like to get posted out there, and I need to find the time. I've been playing with the beta since early this year. My view that it is great, it is time to start testing again. I figured the best place to start would be here at my favorite topic: 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 templates, but rather have it off the full WCM publishing site template. This gave me much better control over the branding and user experience, but it required some extra 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 archives and tag cloud sections that I need to finish, as well as move around the anonymous commenting and CAPTCHA requirements for a public blog. I'll have that for another day, but hopefully soon.

... (Read More)

Aug 13, 2012

Upgrading a 2010 Publishing Site to SharePoint 2013 Part Two

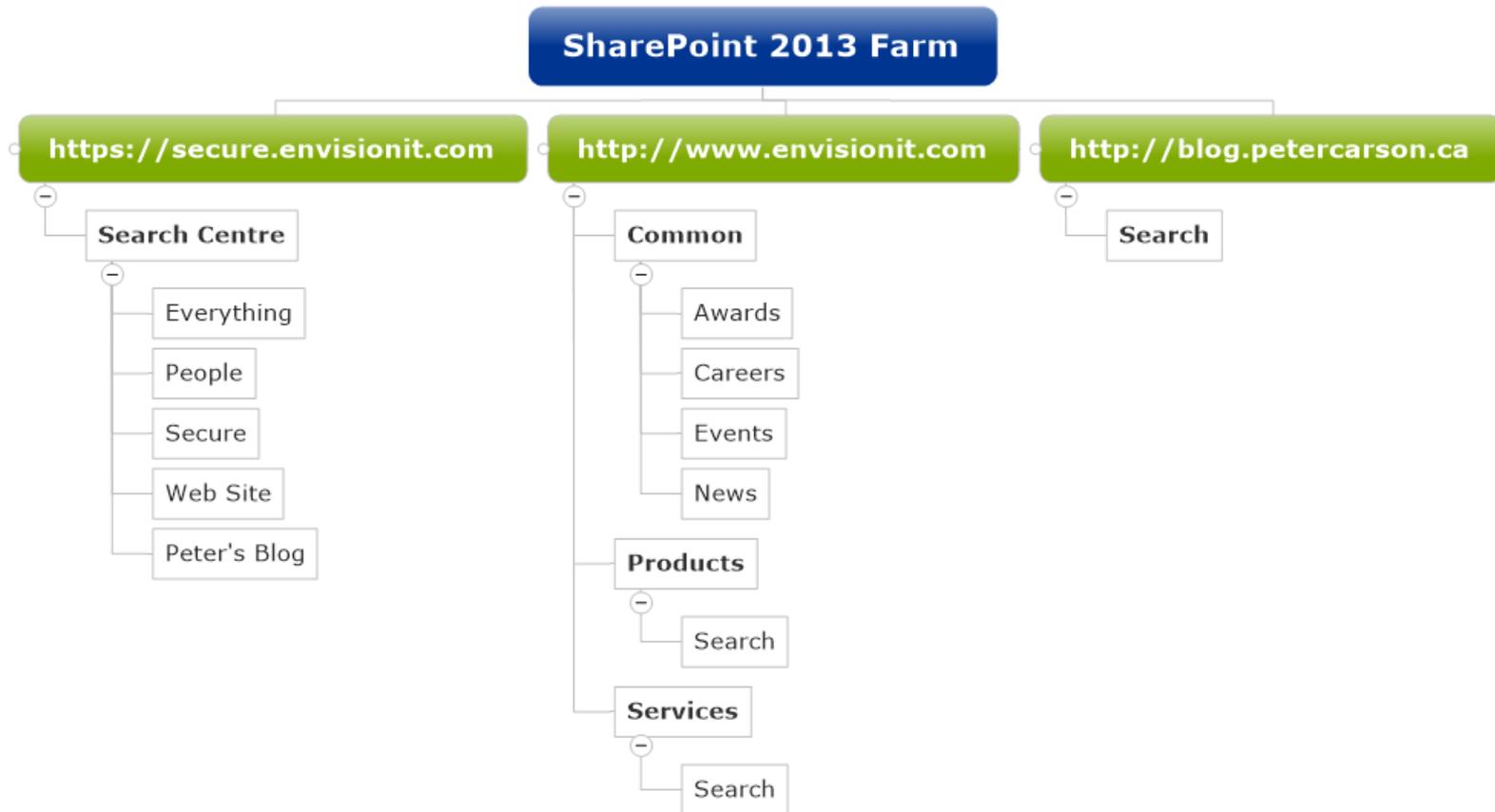
If you have a look at the TechNet SharePoint 2013 Preview articles, you'll see that Microsoft has done a great job of documenting a lot of the cool new features in 2013. The first paragraph briefly describes an improvement to the Web ID and page experience for content editors. I can't say enough how impressed I am that being, as I've devoted a full post just on that topic at SharePoint 2012 Word Cdn and Pulse.

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 I'll feature in Part 2), and make some test links in French. They went 2. disappointed to see that it didn't work. What I can't recall is that I had to configure the site collection upgrade to be able to use the new feature (see 2013 mode really does 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 this page

SharePoint 2010
Microsoft Word Web Part
Links
About Peter Carson
Envision IT

Search Implementation



Secure Search

The screenshot shows a SharePoint search interface. At the top, a navigation bar includes 'Home', 'Operations', 'Development', 'Products', 'Sales', 'Marketing', 'Clients', 'Quick Links', 'Search', and 'My Site'. The user 'Peter Carson' is logged in. A search bar contains the text 'sharepoint demo'. Below the search bar, filters for 'Everything', 'People', 'Secure', 'Web Site', and 'Peter's Blog' are visible. The search results are categorized by 'Result type' (Excel, PDF, PowerPoint, Web page, Word, Zip) and 'Author' (Peter Carson, Joe Seguin, Amanda DaCosta, Peter Mackenzie, Peter A. Carson). A 'Modified date' bar chart shows activity from 'One Year Ago' to 'Today'. The top result is a document titled 'SharePoint Demo Script' with a preview window open. The preview shows a table of contents with items like 'Envision IT Site Walkthrough', 'Create a Site', 'Create doc', 'Version history', 'Add a user', 'Review workflow', 'Search', 'People search', 'My sites', 'Forms', 'Excel Services', and 'Publishing'. The document was changed by Peter Carson on 7/20/2007 2:50 AM. Action buttons for 'EDIT', 'FOLLOW', 'SEND', and 'VIEW LIBRARY' are at the bottom of the preview.

www Search



Products to Enrich your SharePoint Experience

- Home
- Products
- Services
- Case Studies
- Purchase
- Events

Products > Results

Result type

extranet

PDF

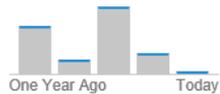
SharePoint Site

Web page

Relevance

Zip

Modified date



All

Products

Public Web Sites Intranets Extranets Board of Directors Portal SharePoint ... October 23: Extranets in SharePoint 2013 October 30: Search in SharePoint 2013 ...
www.vm13-demo.envisionit.com/products

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

Services

Public Web Sites Intranets Extranets Board of Directors Portal SharePoint ... by Solution Type Intranets Extranets Public Web Sites Business Process Automation ...
www.vm13-demo.envisionit.com/Services

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

Peter

Products

30 views

Web Page

The screenshot shows a SharePoint web page for Envision IT. At the top, there's a navigation bar with 'Home', 'Products', 'Services', 'Case Studies', 'Purchase', and 'Events'. Below this, a search bar contains 'extranet'. The main content area features a grid of product tiles: 'ExtranetUserManager', 'Custom404', 'VideoPlayer', 'PhotoViewer', 'ImageLocator', and 'SharePoint.NET'. To the right, there are sections for 'Upcoming Events', 'New Releases', and 'Latest News'. The 'Upcoming Events' section lists seminars for October 23, 30, and November 28. The 'New Releases' section lists 'Extranet User Manager' and 'Video Player'. The 'Latest News' section includes an announcement for SharePoint 2013.

Results from this site

- Products
- Cloudshare Trial
- Case Studies

OPEN FOLLOW SEND



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Products > Events



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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



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Services > Events



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Leaders in SharePoint Solutions

Secure Events



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

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

Staff



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

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

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Initial Site Setup

- Download the package from 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

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Next Steps and Links

- Spin up a test environment
 - Your developer VM
 - www.cloudshare.com
- Download the Shakespeare package
- Try it out yourself

- www.envisionit.com/shakespeare
- <https://shakespeare.envisionit.com>
- <http://blog.petercarson.ca>