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Install Crawler & Indexer

Install JRE (version 1.8 +)

- Download JRE (jre-8u65-windows-x64.exe) from <u>http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-</u> <u>2133155.html</u> Or you can get from Gold FTP: /ctxusftp/Software/Java/jre-8u65-windowsx64.exe
- 2. Install JRE under C: Java jre1.8.0_65
- Add Windows Environment Variable
 Variable Name: *JAVA_HOME* Variable Value: *C: Java jre1.8.0_65*
- 4. Test Java Installation in cmd.
 Java –version
 If installed successfully, above command will show the installed java version.

Install MySQL (Community Version is OK)

- Download MySQL Community Server (5.6+) from <u>http://dev.mysql.com/downloads/</u> Or you can get from Gold FTP: /ctxusftp/Software/MySQL
- 2. Install MySQL under *D:* | *Program Files*

Install MySQL Workbench (Community Version is OK)

- Download MySQL Workbench Community (6.1+) from <u>http://dev.mysql.com/downloads/</u> Or you can get from Gold FTP: /ctxusftp/Software/MySQL
- 2. Install MySQL under *D: Program Files*
- 3. Change *max_allowed_packet* to *32M*

VISION

visionSearch Installation Guide

A Local instance MySQL56 ×					
File Edit View Query Database Server Tools Scripting Help					
			Ø		
Navigator	Query 1 Administration - Options File >				
MANAGEMENT ¹²	Local instance MySOLE6				
Server Status	Ontions File	Locate option:			
Client Connections					
Users and Privileges	General Logging InnoDB Networking	dvanced Other Security Replication MyISAM Performance			
Status and System Variables	Data / Memory size				
A Data import/Restore	Imax_allowed_packet	32M Max packet length to send to/receive from server			
	net_buffer_length	16384 Buffer length for TCP/IP and socket communication			
INSTANCE					
Server Logs	SSL	5-11-00 for every feet (a)	terre Really and the day of		
Options File	55I	Enable SSL for connection (automatically enabled with			
DEDECODMANICE	ssi-ca	The path to a file that contain	is a list of trusted SSL CA		
	ssl-capath	The path to a directory that contains trusted SS			
Performance Reports					
👌 Performance Schema Setup	ssi-cert	X509 cert in PEM format (impliesssl)			
SCHEMAS 🚸 🖉	ssl-cipher	SSL cipher to use (impliesss	0		
Q Filter objects	ssi-cri	The path to a file that contain	is certificate revocation li		
▶ Sakila ▶ Search_crawler	ssi-cripath	The path to a directory that c	ontains certificate revoc		
<pre>search_mvc_dev test</pre>	ssi-key	X509 key in PEM format (impli	esssl)		
World	ssl-verify-server-cert	For clients, verify server host	name against Common №		
	Timeout Settings				
	connect_timeout	10 The number of seconds the m handshake'	ysqld server waits for a (
	interactive_timeout	28800 The number of seconds the se	erver waits for activity or		
	net_read_timeout	30 Number of seconds to wait for	r more data from a conne		

Preparation

- 1. Check Environment Variables
 - a. If you installed Nutch before, please remove "Nutch_HOME" Environment Variable.
- 2. Create a folder in D: or anywhere you want to install vision search, there should not be any space in the folder path. Usually, we install Crawler, Indexer, Vision Search Web UI into the same folder.
- 3. Extract Vision Search Java App (**Released_VisionSearch_JavaApp.zip**) Package to this folder.

The folder structure will be:

File Home Share	View			
🔄 🍥 👻 🕆 🚺 🕨 TI	his PC 🔸 Data (D:) 🕨 VisionSearc	h		
🔆 Favorites	Name	Date modified	Туре	Size
📃 Desktop	퉬 bin	9/7/2015 9:23 PM	File folder	
鷆 Downloads	퉬 common	9/8/2015 8:07 AM	File folder	
📃 Recent places	퉬 crawler	9/7/2015 9:22 PM	File folder	
	퉬 indexer	9/7/2015 12:46 PM	File folder	
🌉 This PC	퉬 web	10/5/2015 2:23 PM	File folder	
朣 Desktop				
Documents				
鷆 Downloads				
🚺 Music				
📄 Pictures				
📔 Videos				
🃥 System (C:)				
👝 Data (D:)				
Bin:				

a. visionsearch.bat



We can run this batch file instead of running two windows services

- b. visionsearchservice-crawler.bat
 - Crawler Windows Service install/uninstall batch file
- c. visionsearchservice-indexer.bat
 - Indexer Windows Service install/uninstall batch file
- > Common
 - a. JRE: we will use it if we don't install JRE. (but would better install JRE)
 - b. NSSM: we use it for install windows service
 - c. Win32: cygwin32. (Nutch needs it for Hadoop)
- > Crawler

Vision Search Crawler application (Java application, base on Nutch).

> Indexer

Vision Search Indexer application (Java application, base on Solr).

> Web

Vision Search Web UI (.NET application, developed by vision).

Install Crawler

Create Database in MySQL

- 1. Open MySQL Workbench
- 2. Create an EMPTY database: search_crawler
- 3. Create another database: search_mvc_dev.

Extract **Search_CREATE_DB.zip** to get two SQL Scripts.

- a. Run search_create.sql. (Please uncomment the first line to use the database)
- b. Run search_data.sql. (Please uncomment the first line to use the database)

Configure Crawler

- 1. Configure database information of search_crawler in |crawler|conf|gora.properties
 - gora.sqlstore.jdbc.url
 - gora.sqlstore.jdbc.user
 - gora.sqlstore.jdbc.password
- 2. Configure database information of search_mvc_dev in

|crawler|conf|hibernate.cfg.xml

- connection.url
- connection.username
- > connection.password

Install Crawler Windows Service

- 1. Open cmd.exe (Run as Administrator)
- 2. Relocate to **/bin** folder
- 3. Run *visionsearchservice-crawler.bat install* command to install Crawler Windows Service

(*visionsearchservice-crawler.bat remove* command will remove Crawler Windows Service)



Install Indexer

Configure Indexer

- 1. Configure database information of search_mvc_dev in *indexer | webapps | visionsearch | WEB-INF | classes | hibernate.cfg.xml*
 - a. connection.url
 - b. connection.username
 - c. connection.password

Install Indexer Windows Service

- 1. Open cmd.exe (Run as Administrator)
- 2. Relocate to /bin folder
- 3. Run *visionsearchservice-indexer.bat install* command to install Indexer Windows Service

(*visionsearchservice-indexer.bat remove* command will remove Indexer Windows Service)

Install Web UI

Install Web UI

- 1. Get latest version for Web UI (**Released_SEARCH.zip**).
- 2. Setup Web UI as regular ASP.NET website
 - Note:
 - a. Licenses: Extract Released_Search Licenses.zip, we can get two licenses
 - Enterprise (Unlimited)
 This is for hosting on Vision Server, there is no limitation for how many search engines we can create.
 - Standard(5)
 This is for hosting on Client Server, this license can allow the user to create 5 search engines at most.
 - b. App Pool settings, please use Integrated Mode and Network Service identity.
- 3. Configure Web UI
 - a. Go to |*web*|*Configuration*|*Custom.config*, change connection string.
 - b. Go to | web | Configuration | Custom.config, add or change app setting
 - i. *SolrSearchURL -> http://localhost:8983/visionsearch*
 - c. Add *Log* folder if not exist under |*web*|*Configuration*|
 - d. Set *Read/Write* permission for *Network Service* account on *Log* folder.

Start Windows Service & Test

Since Crawler Windows Service depends on Indexer Windows Service, when you start Crawler Windows Service, it will automatically start Indexer Windows Service.

After the two windows service has been started,

> You can access <u>http://localhost:8983/visionsearch</u> in browser to test Indexer.



- > Open the Web UI website address in browser to test Web UI
- > Try to add a search engine in Web UI, and index now to test Crawler.