

visionCMS™ Vision Search Installation

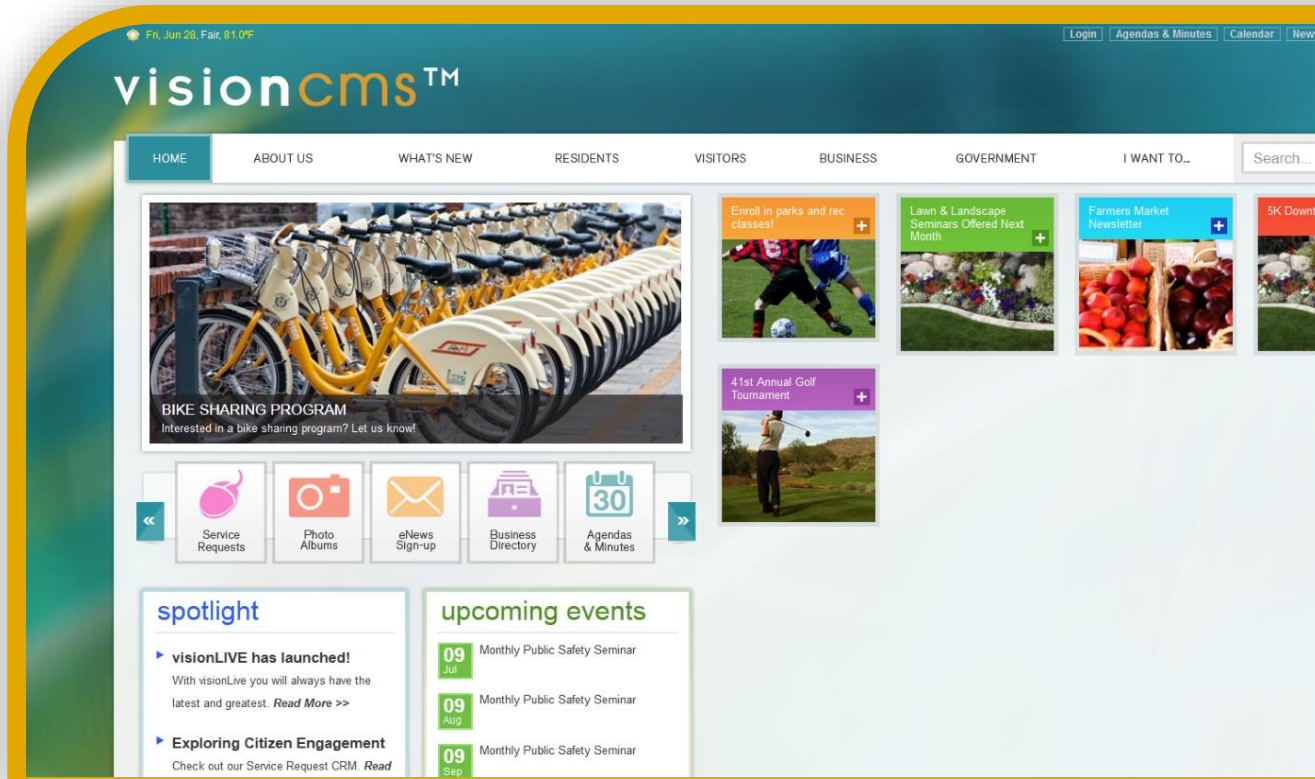


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Install Crawler & Indexer

Install JRE (version 1.8 +)

1. Download JRE (jre-8u65-windows-x64.exe) from <http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html>
Or you can get from Gold FTP: */ctxusftp/Software/Java/jre-8u65-windows-x64.exe*
2. Install JRE under **C:\Java\jre1.8.0_65**
3. 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)

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

Install MySQL Workbench (Community Version is OK)

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

The screenshot shows the MySQL Workbench Administration - Options File dialog box. The 'Networking' tab is selected, and the 'max_allowed_packet' setting is highlighted with a red box, showing a value of 32M. The 'Data / Memory size' section is also visible.

Setting	Value	Description
<input checked="" type="checkbox"/> max_allowed_packet	32M	Max packet length to send to/receive from server
<input type="checkbox"/> net_buffer_length	16384	Buffer length for TCP/IP and socket communication

SSL settings:

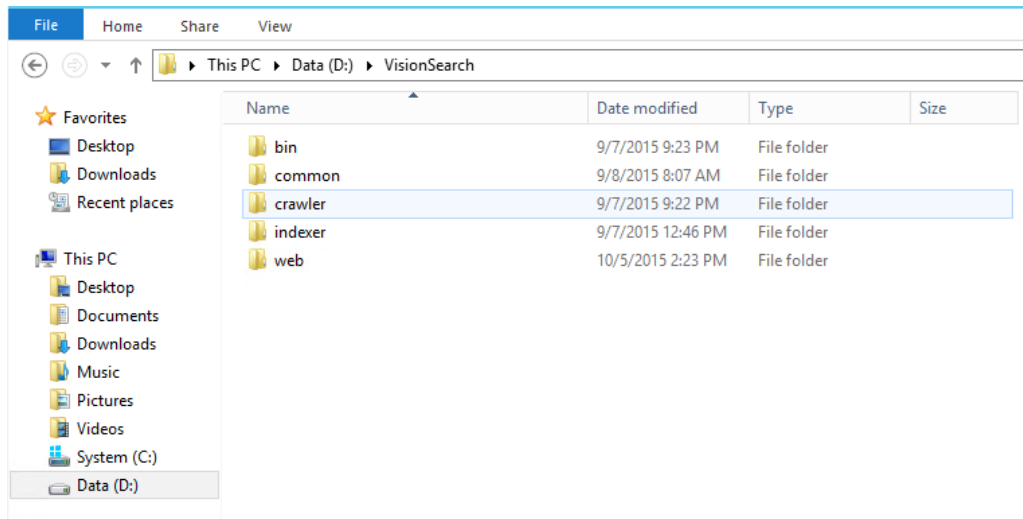
- ssl: Enable SSL for connection (automatically enabled with ...)
- ssl-ca: The path to a file that contains a list of trusted SSL CA ...
- ssl-capath: The path to a directory that contains trusted SSL CA c ...
- ssl-cert: X509 cert in PEM format (implies --ssl)
- ssl-cipher: SSL cipher to use (implies --ssl)
- ssl-crl: The path to a file that contains certificate revocation l ...
- ssl-crlpath: The path to a directory that contains certificate revoc ...
- ssl-key: X509 key in PEM format (implies --ssl)
- ssl-verify-server-cert: For clients, verify server host name against Common P

Timeout Settings:

- connect_timeout: 10: The number of seconds the mysqld server waits for a handshake
- interactive_timeout: 28800: The number of seconds the server waits for activity or
- net_read_timeout: 30: Number of seconds to wait for more data from a conn

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:



➤ 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 <http://localhost:8983/visionsearch> 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.