



Installation and configuration guide
Nuxeo OCR addon

Document tracking

Change history

Version	Date	Authors		Description
1.0.0	08/09/2020	Sébastien (OCDM)	Guillaume	Initial version
1.0.1	14/09/2020	Sébastien (OCDM)	Guillaume	Nuxeo feedback
1.0.2	18/09/2020	Sébastien (OCDM)	Guillaume	Options management

Distribution history

Version	Date	Distributed to	For
1.0.0	14/09/2020	Sébastien Guillaume (OCDM)	Provided to Nuxeo
1.0.1	16/09/2020	Sébastien Guillaume (OCDM)	Provided to Nuxeo
1.0.2	19/09/2020	Sébastien Guillaume (OCDM)	Provided to Nuxeo

Documentary references

Name	Version	Description

Table of Contents

Document tracking.....	2
Change history.....	2
Distribution history.....	2
Documentary references.....	2
Table of Contents.....	3
1. Main concept.....	4
2. Installation.....	5
2.1. Online installation.....	5
2.2. Offline installation.....	5
3. License.....	6
4. Configuration.....	7
4.1. Keystore/Truststore.....	7
4.1.1. Keystore.....	7
4.1.2. Truststore.....	7
4.2. Configuration options.....	8
4.2.1. Option 1 : Configuration without encryption, not recommended.....	8
4.2.2. Option 2 : Using encrypted properties in nuxeo.conf.....	9
4.2.3. Option 3 : Using properties in nuxeo.conf and \$JAVA_OPTS.....	10
4.3. Configuration check.....	11

1. Main concept

Nuxeo OCR addon is designed to provide a fulltext extraction solution embedded in Nuxeo using a secured OCR service accessible through REST API.

Your Nuxeo instance must have access to this endpoint <https://dm-ocr.oceaneconsulting.com>

This service is provided by Oceane Consulting DM but can be installed on promise depending on customer (contact nuxeo@oceaneconsulting.com for any informations and requests).

2. Installation

On Nuxeo marketplace page, select the Nuxeo OCR addon provided by Oceane Consulting DM. On the detail page, click on Install button. You can either install the package “online” with a registered Nuxeo instance or download the marketplace as a zip file and install it “offline”. Follow the installation instructions provided depending on you choice.

In both cases, installation must be done from the server where Nuxeo instance is installed. Nuxeo must be stop/started or restarted to complete the installation.

For all following command lines, `$NUXEO_HOME` is the root folder where Nuxeo instance is installed.

2.1. Online installation

```
$NUXEO_HOME/bin/nuxeoctl stop
$NUXEO_HOME/bin/nuxeoctl mp-install ocdm-ocr-nuxeo-extension-
marketplace-<version>
$NUXEO_HOME/bin/nuxeoctl start
```

2.2. Offline installation

```
$NUXEO_HOME/bin/nuxeoctl stop
$NUXEO_HOME/bin/nuxeoctl mp-install /<your-storage-path>/ocdm-ocr-
nuxeo-extension-marketplace-<version>.zip
$NUXEO_HOME/bin/nuxeoctl start
```

3. License

This addon, in this version 1.0.0, does not need any license key to work.

4. Configuration

Before starting this part, you must have :

- ▶ A Nuxeo instance installed with access to the Oceane Consulting DM OCR service available at <https://dm-ocr.oceaneconsulting.com>
- ▶ Nuxeo OCR addon installed
- ▶ A valid subscription to Oceane Consulting DM OCR service (a username/password provided by Oceane Consulting DM)
 - ▶ By default, this addon provides a pre-configured test account with username *ocdm01* and related password.
 - ▶ **This account is sufficient for testing purpose but must be changed in production environment (contact nuxeo@oceaneconsulting.com for any informations and requests)**

4.1. Keystore/Truststore

4.1.1. Keystore

No keystore needed for this current version 1.0.0 of this addon. For future release, authentication mechanism with key will be available.

4.1.2. Truststore

Access to Oceane Consulting DM OCR service is secured and only available in HTTPS. You must trust the Oceane Consulting DM certificate storing it in a Java truststore (asking to Oceane Consulting DM, with a browser or with command lines, ...).

Using Linux, openssl and keytool allow you to fetch, create and check your truststore using the following command lines.

Retrieve certificate from Oceane Consulting DM website :

```
echo | openssl s_client -servername dm-ocr.oceaneconsulting.com -  
connect dm-ocr.oceaneconsulting.com:443 | sed -ne '/BEGIN  
CERTIFICATE-/,/-END CERTIFICATE-/p' > /tmp/ocdm-cert.crt
```

Add the downloaded certificate to your truststore :

```
keytool -import -trustcacerts -alias ocdm2020 -file /tmp/ocdm-  
cert.crt -keystore /tmp/nuxeo-truststore.jks
```

Check your truststore

```
keytool -list -keystore /tmp/nuxeo-truststore.jks -storepass
changeit -alias ocdm2020
```

4.2. Configuration options

Following options are available to configure your Nuxeo OCR addon.

- ▶ Option 1 is the default way but Oceane Consulting DM does not recommend this option as password will be available *“in clear-text”* in your configuration files
- ▶ **Option 2 is the recommended option with a better security**
- ▶ Option 3 is using JAVA_OPTS variable for truststore

Once your option chosen and defined, restart your Nuxeo instance to apply your new configuration.

4.2.1. Option 1 : Configuration without encryption, not recommended

This option is the simplest as all informations, including your passwords, appear “in clear-text” in configuration files.

Update the `$NUXEO_HOME/bin/nuxeo.conf` file to add the following properties :

Property	Optional / Mandatory	Description
ocdm.ocr.username	<i>Optional for testing purpose</i>	A default username is defined and embedded for testing purpose For production environment, contact Oceane Consulting DM to retrieve your proper authentication informations
ocdm.ocr.password	<i>Optional for testing purpose</i>	A default password is defined and embedded for testing purpose For production environment, contact Oceane Consulting DM to retrieve your proper authentication informations
ocdm.ocr.trustStoreType	Mandatory	Truststore type
ocdm.ocr.trustStorePath	Mandatory	Truststore path
ocdm.ocr.trustStorePassword	Mandatory	Truststore password

Sample :

```
##-----
## OCDM Addons
##-----
ocdm.ocr.username=ocdm01
ocdm.ocr.password=K3_q$Q(qTdR2*p+YS3LNg-LQ}AvtEW
```



```
ocdm.ocr.trustStorePath=conf/nuxeo-truststore.jks
ocdm.ocr.trustStoreType=jks
ocdm.ocr.trustStorePassword=changeit
```

4.2.2. Option 2 : Using encrypted properties in nuxeo.conf

This recommended option allows to encrypt password, that means passwords do not appear “in clear-text” in configuration files.

Update the `$NUXEO_HOME/bin/nuxeo.conf` file to add the following properties :

Property	Optional / Mandatory	Description
<code>ocdm.ocr.username</code>	<i>Optional for testing purpose</i>	A default username is defined and embedded for testing purpose For production environment, contact Oceane Consulting DM to retrieve your proper authentication informations
<code>ocdm.ocr.trustStoreType</code>	Mandatory	Truststore type
<code>ocdm.ocr.trustStorePath</code>	Mandatory	Truststore path

Then use encryption as described here [Sensitive Configuration Data Encryption](#) with following properties :

Property	Optional / Mandatory	Description
<code>ocdm.ocr.password</code>	<i>Optional for testing purpose</i>	A default password is defined and embedded for testing purpose For production environment, contact Oceane Consulting DM to retrieve your proper authentication informations
<code>ocdm.ocr.trustStorePassword</code>	Mandatory	Truststore password

Sample :

```
##-----
## OCDM Addons
##-----
ocdm.ocr.username=ocdm01
ocdm.ocr.trustStorePath=conf/nuxeo-truststore.jks
ocdm.ocr.trustStoreType=jks
```

N.B. Following encrypted values for passwords depend on the encryption method so do not copy the following values as it

```
### BEGIN - DO NOT EDIT BETWEEN BEGIN AND END ###
ocdm.ocr.password=${$M2Lzc3MUBo/2u2cfIWWYqU==}
ocdm.ocr.trustStorePassword=${$3XCptwK4W/QOm3u7jAg105==}
server.status.key=6ei68gil
### END - DO NOT EDIT BETWEEN BEGIN AND END ###
```

4.2.3. Option 3 : Using properties in nuxeo.conf and \$JAVA_OPTS

Less secured, truststore password are available “in clear-text” using a simple command line like `ps -aux | grep java.net.ssl` on server.

Check documentation for any information on TrustStore with Nuxeo here : [Trust Store and Key Store Configuration](#).

N.B. With this option , you do not configure Nuxeo OCR addon truststore properties `ocdm.ocr.trustStoreType`, `ocdm.ocr.trustStorePath` and `ocdm.ocr.trustStorePassword`

Update the `$NUXEO_HOME/bin/nuxeo.conf` file to add the following properties :

Property	Optional / Mandatory	Description
<code>ocdm.ocr.username</code>	<i>Optional for testing purpose</i>	A default username is defined and embedded for testing purpose For production environment, contact Oceane Consulting DM to retrieve your proper authentication informations
<code>JAVA_OPTS=\$JAVA_OPTS -Djavax.net.ssl.trustStore=<truststore_path> -Djavax.net.ssl.trustStoreType=<truststore_type> -Djavax.net.ssl.trustStorePassword=<truststore_password></code>	Mandatory	Truststore path, type and password using JAVA OPTIONS of JRE
<code>ocdm.ocr.trustStoreType</code>	Do not define	Already defined in JAVA_OPTS
<code>ocdm.ocr.trustStorePath</code>	Do not define	Already defined in JAVA_OPTS
<code>ocdm.ocr.trustStorePassword</code>	Do not define	Already defined in JAVA_OPTS

Then use encryption as described here [Sensitive Configuration Data Encryption](#) with following properties :

Property	Optional / Mandatory	Description
ocdm.ocr.password	Optional for testing purpose	<i>A default password is defined and embedded for testing purpose</i> For production environment, contact Oceane Consulting DM to retrieve your proper authentication informations

Sample :

```
# Truststore
JAVA_OPTS=$JAVA_OPTS -Djavax.net.ssl.trustStore=conf/nuxeo-truststore.jks -Djavax.net.ssl.trustStoreType=jks -Djavax.net.ssl.trustStorePassword=changeit
```

```
##-----
## OCDM Addons
##-----
ocdm.ocr.username=ocdm01
```

```
### BEGIN - DO NOT EDIT BETWEEN BEGIN AND END ###
ocdm.ocr.password=${$M2Lzc3MUBo/2u2cfIWWYqU==}
```

4.3. Configuration check

Once configured, your Nuxeo instance must be started. Once started, you can check your configuration with the following URL : http://NUXEO_SERVER/nuxeo/runningstatus

- ▶ HTTP 200 if all checks pass and a JSON with the detailed status like

```
{
  "ocrManagerStatus": "ok",
  "runtimeStatus": "ok",
  "elasticSearchStatus": "ok",
  "ldapDirectories": "ok",
  "repositoryStatus": "ok"
}
```

or

- ▶ HTTP 500 if at least one check fails

```
{  
  "ocrManagerStatus": "failed",  
  "runtimeStatus": "ok",  
  "elasticSearchStatus": "ok",  
  "ldapDirectories": "ok",  
  "repositoryStatus": "ok"  
}
```

If any problem occurred during configuration, check the Nuxeo server.log file for any message available with possible error causes.