









# IBM Connections Adminblast

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Make Your Data Work for You



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IBM **CHAMPION** 

- Consultant at panagenda
- IBM Connections since version 3.0 / 2010
- IBM Notes / Domino since 2008
- Focusing in ICS
  - Deployment & consulting
  - Optimization and migration
- “panagendian” since 2016
- IBM Champion



Let's get started!  
#0 to #61



Make Your Data Work for You

# #0 Update your APNS certificates **NOW!**

- APNS certificates will expire tomorrow (September 20)!
  - Push notifications (iOS) will stop working
- iFix is available for 4.5 CR5, 5.0 CR4, 5.5 CR3, 6.0 (June Fix)
  - ↪ [http://www-01.ibm.com/support/docview.wss?uid=swg22008484&myms=swglotus&mymp=OCS SYGQH&mync=E&cm\\_sp=swglotus-\\_-OCSSYGQH-\\_-](http://www-01.ibm.com/support/docview.wss?uid=swg22008484&myms=swglotus&mymp=OCS SYGQH&mync=E&cm_sp=swglotus-_-OCSSYGQH-_-)

# #1 Surveys Setup with Connections 6.0

- stax.properties needs to be customized
  - Java 1.8 only
  - Within `<installdir>/java_1.8_64/jre/lib`

```
# =====  
#  
javax.xml.stream.XMLInputFactory=com.ibm.xml.xlxp.api.stax.XMLInputFactoryImpl  
javax.xml.stream.XMLOutputFactory=com.ibm.xml.xlxp.api.stax.XMLOutputFactoryImpl  
#javax.xml.stream.XMLEventFactory=com.ibm.xml.xlxp.api.stax.XMLEventFactoryImpl
```

- WebSphere Plugin ESI Cache needs to be disabled
  - WAS 8.5.5.10 +

[Web servers](#) > [webserver1](#) > [Plug-in properties](#) > [Caching](#)

Use this page to configure caching properties for a web server plug-in.

Configuration

---

**Caching**

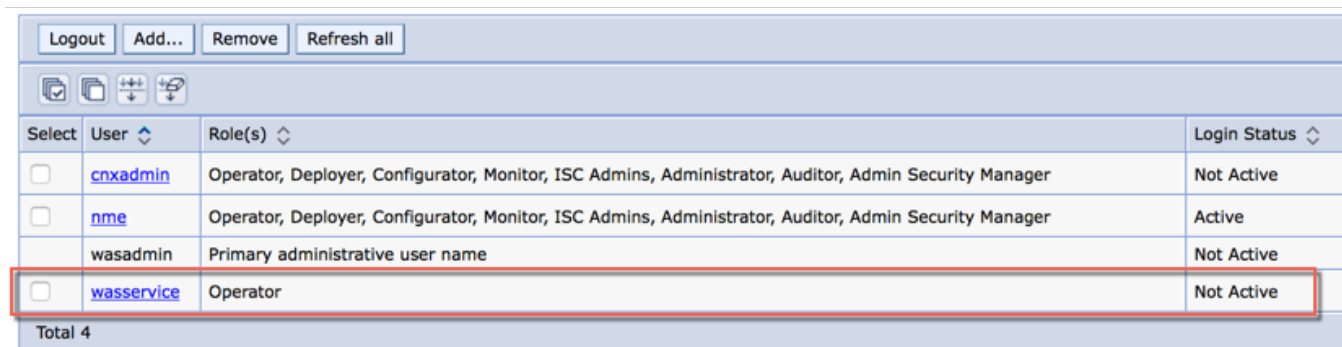
Enable Edge Side Include (ESI) processing to cache the responses

Enable invalidation monitor to receive notifications

Maximum cache size  
1024 KB

## #2 Use custom user for WebSphere services

- Stopping WebSphere requires a user and password
  - soap.client.props
  - Service definition (/etc/init.d/ or Windows registry)
- Increase security
  - Use different passwords
    - Plain password on Linux
    - Encoded (not encrypted) on Windows
  - Create a local WebSphere user with “operator” access level
    - WebSphere service user only needs access level to start/stop/restart the environment



The screenshot shows a user management interface with a table of users. The table has columns for 'Select', 'User', 'Role(s)', and 'Login Status'. The 'wasservice' user is highlighted with a red box. The interface also includes buttons for 'Logout', 'Add...', 'Remove', and 'Refresh all' at the top, and a 'Total 4' indicator at the bottom.

Select	User	Role(s)	Login Status
<input type="checkbox"/>	<a href="#">cnxadmin</a>	Operator, Deployer, Configurator, Monitor, ISC Admins, Administrator, Auditor, Admin Security Manager	Not Active
<input type="checkbox"/>	<a href="#">nme</a>	Operator, Deployer, Configurator, Monitor, ISC Admins, Administrator, Auditor, Admin Security Manager	Active
	wasadmin	Primary administrative user name	Not Active
<input type="checkbox"/>	<a href="#">wasservice</a>	Operator	Not Active

## #3 *globalSenderEmailAddress* is not working completely

- `<property name="globalSenderEmailAddress">mail@mail.com</property>`  
`<property name="alwaysUseGlobalSender">true</property>`  
`<property name="globalSenderName">Connections Newsletter</property>`
- If you use `globalSenderEmailAddress` (`notification-config.xml`)
  - Mails contain reply-to address "news-admin@example.com"
  - So replies of users can't be delivered
- You need to configure **all** mail addresses one by one
  - RegEx is your friend: `\w*-admin@example.com`

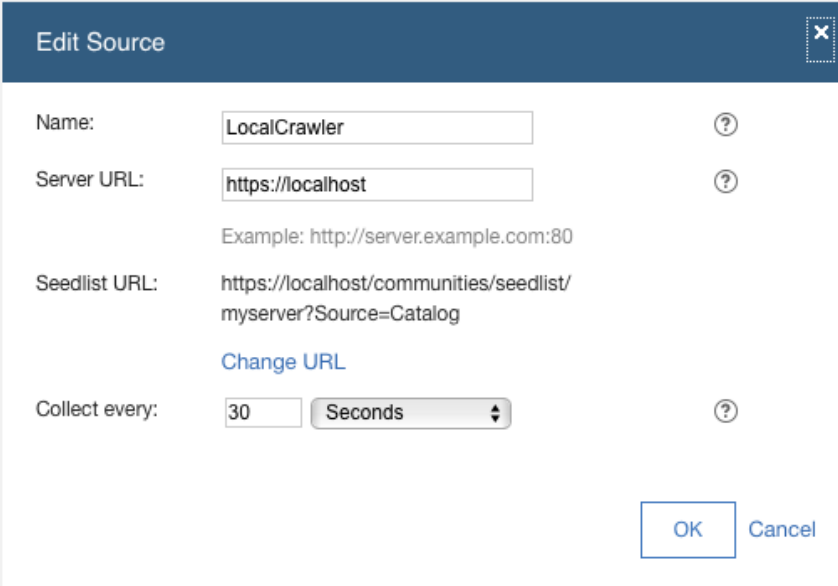
# #4: Orient Me Installation Cheat Sheet

- Define mount points
  - /pv
  - /var/lib
  - /opt
- Don't use Hosts entries!
  - If you need them startup a small bind container instead
- Installation is possible using *sudo* but you will need the root password
- Setup needs direct internet access
  - Customize Installation to allow proxy usage
- Change your admin user password!
  - Some manually tasks are needed
- More information
  - <https://meisenzahl.org/2017/06/02/social-connections-11-need-know-orient/>



# #5 Do **not** change the Community catalog seedlist url

- Using *https://cnx.pana.local*
  - Connections will try to access seedlists using HTTPS on host *cnx.pana.local*
  - Does not support TLS 1.2
- Using *https://localhost*
  - This is the default value which will do something complete different
  - Connections will use a internal (not HTTPS) request to access the seedlists
  - Supports multi-node environments



**Edit Source**

Name:  ?

Server URL:  ?  
Example: http://server.example.com:80

Seedlist URL:   
[Change URL](#)

Collect every:   ?

## #6 WAS & 4096-bit SSL keys

- Will not work out of the box if using 4096-bit key
  - On IBM HTTP Server
  - With any third-party integration (iNotes, ...)
- You need to copy the unrestricted java policy to every node
  - Download here
    - ↳ <https://www14.software.ibm.com/webapp/iwm/web/preLogin.do?source=jcesdk>
  - Copy to <was\_home>/<java\_version>/jre/lib/security
  - You need to redo this every WebSphere Java update ;-)
- WebSphere Application Server is now able to connect to those hosts

## #7 Configure Textbox.io using JVM generic properties

- You can use JVM generic properties instead of the *application.conf* file
  - *-Dephox.allowed-origins.origins.0=https://cnx.pana.local*
  - *-Dephox.allowed-origins.origins.1=http://cnx.pana.local*
  - *-Dephox.allowed-origins.url=https://cnx.pana.local/ephox-allowed-origins/cors*
  - Skip the last line for 5.5 CR2 / 6.0 and later.
    - It prevents new code to be loaded

## #8 Do **not** trigger seedlist validation regularly

- Seedlist validation does **not** delete temp files
  - New seedlist data will be created every time
  - Could cause full disk space
    - `<localdata>/search/persistence/seedlist*.attempted.xml`
    - Amount depends on environment
- Happens when
  - Accessing `/search/serverStatus`
  - Calling `SearchService.validateSeedlist("")`

## #9: Download Connections 6.0 software

- This list of part numbers will help you
  - ↪ <http://www-01.ibm.com/support/docview.wss?uid=swg24043485>
  - Unfortunately, not everything is included, but it's a good starting point

# #10 Tuning your database

- Heavily increase performance by running DB2 maintenance tasks
- Scripts available within `<cnxroot>/xkit/connections.sql/`
- Run in following order:
  - *Runstat*
  - *Reorg*
  - *Runstat*
- Run them regularly
- You need to build own scripts for custom databases
  - ↪ <https://meisenzahl.org/2017/02/25/connections-database-performance-tuning/>

- If so, some of your users may be unable to use SSO
  - Users with many group memberships
  - Mostly VIPs ;-)
- SPNEGO authentication header can have up to 12392 bytes
  - Default *LimitRequestFieldSize* size is 8192 bytes
- Add *LimitRequestFieldSize 16384* into your *httpd.conf*
  - Will prevent: *HTTP 400 - Bad Request (Request header too long)*
  - The whole group membership is stored within the header

# #12 “TLS 1.2 only” environments

- Possible, but you need:
  - Connections 6.0
  - Connections 5.5 CR2 +
    - including latest Textbox.io, FEB
    - WebSphere 8.5.5.9
- FileNet Config Manager will not work
- Docs/Viewer 2 CR1 IF7 +
- You need to configure some more stuff (Documentation)
- Java 1.8 (6.0 only): Customize JVM Generic Properties
  - *-Dcom.ibm.jsse2.overrideDefaultTLS=true*
- Please do not try this with a previous Connections version!
  - You will find the whole story here [↪ https://meisenzahl.org/2016/10/26/using-tls-1-2-only-configuration-with-ibm-connections/](https://meisenzahl.org/2016/10/26/using-tls-1-2-only-configuration-with-ibm-connections/)



- Only use **one** search dictionary!
  - Issues since Connections 2.5
- Enable “Accent-insensitive search”
  - You will find “René” when searching for “Rene”
- Enable “1 to 2 matching”
  - You will find “Stoettner” when searching for “Stöttner”
- Integrate Connections type ahead search (Apache Solr)
- “Ignore Punctuation” setting is **not** working
  - Searching for “IBM” will not display “I.B.M” within results

# #14 Orient Me sizing

- CFC Master, Boot, Proxy node
  - 4 CPU, 2.x GHZ, 8GB memory, and at least 100GB disk
- Worker node
  - 8 CPU, 2.x GHZ, 24GB memory, and 100GB disk
- Storage (for MongoDB and Solr indexes)
  - 100GB disk
- You would like to run a small Orient Me development environment?
  - 6.0.0.1+ will not run with less than 8 Cores
  - Downsizing Orient Me is possible but not supported!
  - More information:
    - <https://meisenzahl.org/2017/07/06/downsizing-orient-me/>

## #15 Do **not** use IBM JRE for Apache Solr

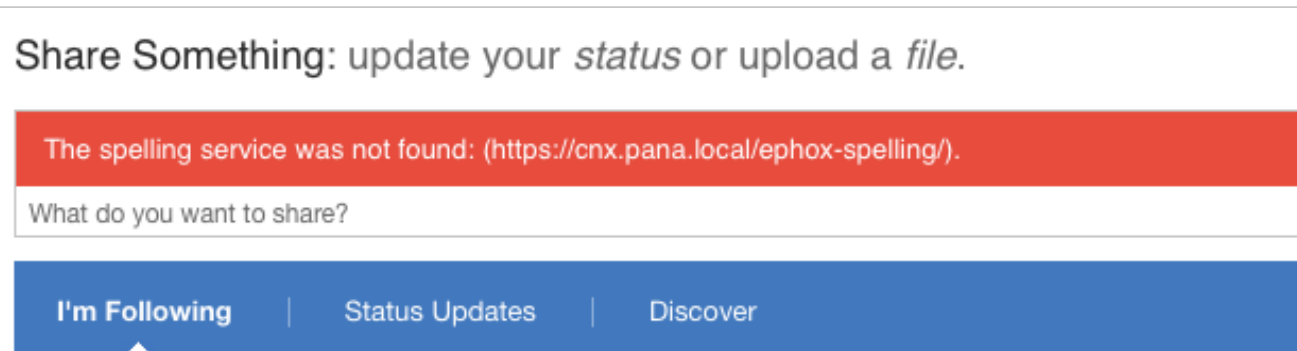
- Apache Solr is needed for Connections type ahead search
- IBM JRE will break some Solr Dashboard Widgets
  - Use the latest Oracle JRE
- More information (thanks Ben!)
  - ↪ <https://collaborationben.com/2016/06/22/which-jre-to-use-with-ibm-connections-solr/>

## #16 How-to: Set *EMPLOYEE\_EXTENED* role for all users

- Export all user mail addresses using a SQL export
- Change role using a wsadmin call
  - ProfilesService.setBatchRole(EMPLOYEE\_EXTENED, "mail.txt")
- More information
  - ↪ [http://www.stoeps.de/adding-employee\\_extended-to-all-users/](http://www.stoeps.de/adding-employee_extended-to-all-users/)
- Changing role directly within the database is **not** supported!

## #17 Using Textbox.io spellchecking service with Chrome

- You need to import your SSL chain into the WebSphere cacerts store
  - cacerts store is located in `<was_home>/<java_version>/jre/lib/security`
  - You need to redo this every WebSphere Java update
- If not, you will get a HTTP 500 for `https://<url>/ephox-spelling/1/correction`
- More information (thanks Michael!)
  - <https://www.urspringer.de/2016/02/16/ssl-certificate-issue-with-ephox-textbox-io-editor-in-ibm-connections-5-5/>



# #18 Read-only and read-write profile fields

- Synced profile fields should be read-only!
- Please recheck your configuration
  - We have seen this too many times!
- Customize *profiles-type.xml* as needed
  - *readwrite*
  - *read*

**CONTACT INFORMATION** BACKGROUND PHOTO PRONUNCIATION

Update your contact information. Fields that are not editable are populated with values from your profile. Fields that are not populated are for you to enter or value yourself.

Name: Nico Meisenzahl

Building:

Floor:

Office:

Office number:

IP telephony number:

Mobile number:

Pager number:

Fax number:

Alternate email:

Blog link:

Job title:

Assistant:

Time zone:

- Thumbnail file path is stored within database
  - Hard coded, no variables are used
- You need to manually adjust them after changing the Connections shared directory path
- More Information
  - <https://meisenzahl.org/2016/06/28/url-preview-pictures-not-displayed-migration/>

## #20 ACCE (FileNet Admin Interface) login isn't working



- Exclude `/acce` from `mod_deflate` (`httpd.conf`)
  - *SetEnvIf Request\_URI ^/acce(.\*) no-gzip dont-vary*
- Use English as browser language



- Prevent issues with some widgets
  - *request-url!=/profiles/widget-catalog/;request-url!=/Calendar.xml;request-url!=/Recomm.xml*
- When using Docs or/and Viewer
  - *request-url!=/docs/;request-url!=/conversion/;request-url!=/viewer*
- When using Mac Connections Plugin
  - *request-url!=/files/serviceconfigs*
- Tip: Save `krb5.conf` and `keytab` outside the WebSphere java folder

## #22 Surveys setup: Browser language

- Launches on new installation or upgrade when access /surveys
- Will not work with non-English browser languages
  - UI is only available in English
- **Tip: Use portable Firefox**

## #23 Post-upgrade task: Connections fixes

- Delete temp directories after **every** iFix or CR update
  - <appsrv-profile>/temp/\*
  - <appsrv-profile>/wstemp/\*
- Use a shell/cmd script!
  - Otherwise look twice or search your backup!
- If not, you will get nice UI bugs ;-)

## #24 Fix for IBM Cloud private 1.2 & CfC 1.1

- Certificates for GUI and Docker registry expired at August 22
  - Access to GUI is denied after successfully authentication
  - Pull/push request are not working (like Orient Me installation)
- IBM released a Fix which replaces those certificates
  - [https://www.ibm.com/developerworks/community/blogs/fe25b4ef-ea6a-4d86-a629-6f87ccf4649e/entry/Certificate\\_update?lang=en](https://www.ibm.com/developerworks/community/blogs/fe25b4ef-ea6a-4d86-a629-6f87ccf4649e/entry/Certificate_update?lang=en)
- Not needed for new deployments

## #25 Wiki images are missing after 5.5 GA upgrade

- Short mod\_rewrite rule will fix this issue
  - *RewriteRule "^/library/(.\*)" "/wikis/form/api/library/\$1" [R,L]*
- Do **not** use the fix IBM provided
  - Insecure mod\_proxy configuration!
- Fixed with 5.5 CR1 and 6.0
- More information
  - [↪ http://www.stoeps.de/missing-images-in-wikis-after-migration-to-ibm-connections-5-5/](http://www.stoeps.de/missing-images-in-wikis-after-migration-to-ibm-connections-5-5/)

## #26 Debug FileNet without ACCE

- Why? You have issues on startup or you are unable to access /acce
- Add debug settings using JVM generic properties
  - `-DskipTLC=true -Dlog4j.configuration=file:///log4j.xml`
- More information
  - [↳ https://meisenzahl.org/2015/12/13/debugging-filenet-issues-without-using-acce/](https://meisenzahl.org/2015/12/13/debugging-filenet-issues-without-using-acce/)

# #27 Enable HTTP compression on IHS

- `LoadModule deflate_module modules/mod_deflate.so`
- `DeflateCompressionLevel 6`
- `AddOutputFilterByType DEFLATE application/atom+xml`  
`AddOutputFilterByType DEFLATE application/atomcat+xml`  
`AddOutputFilterByType DEFLATE application/javascript`  
`AddOutputFilterByType DEFLATE application/json`  
`AddOutputFilterByType DEFLATE application/octet-stream`  
`AddOutputFilterByType DEFLATE application/x-javascript`  
`AddOutputFilterByType DEFLATE application/xhtml+xml`  
`AddOutputFilterByType DEFLATE application/xml`  
`AddOutputFilterByType DEFLATE text/css`  
`AddOutputFilterByType DEFLATE text/html`  
`AddOutputFilterByType DEFLATE text/javascript`  
`AddOutputFilterByType DEFLATE text/plain`  
`AddOutputFilterByType DEFLATE text/xml`  
`AddOutputFilterByType DEFLATE text/xsl`
- `SetEnvIf Request_URI ^/acce(.*) no-gzip dont-vary`  
`SetEnvIfNoCase Request_URI \.(zip|exe|jar|gz|jpe?g|png)$ no-gzip dont-vary`  
`Header append Vary User-Agent env=!dont-vary`

## #28 When doing a FileNet or Docs upgrade...

- ...do **not** forget to remap applications
  - FileNet & Navigator
  - Docs, Viewer & Conversion
- Without they will not be accessible through IHS



## #29 Recheck */docs* and */viewer* interservice URL

- There were some issues in previous versions
  - Missing interservice URLs
  - Double entries
- Some stuff isn't working properly without
  - CCM integration
  - Access file preview via Activity Stream

## #30 New Orient Me deployments

- Use latest fix version (6.0.0.3)
- 6.0.0.2 fixes a Docker version issue
  - Older versions will not install successfully!
- Every fix release needs a complete uninstall & reinstall
  - This may change in the future
- Check your mountpoints

# #31 How-to: Delete Communities using REST

- First REST call will put the Community into the trash
- Second call will purge the Community completely
- Tip: When creating Communities within monitoring checks you should execute the REST call twice!
- More information
  - ↪ [https://www-10.lotus.com/ldd/lcwiki.nsf/xpAPIViewer.xsp?lookupName=IBM+Connections+5.5+API+Documentation#action=openDocument&res\\_title=Deleting\\_communities\\_programmatically\\_ic55&content=apicontent](https://www-10.lotus.com/ldd/lcwiki.nsf/xpAPIViewer.xsp?lookupName=IBM+Connections+5.5+API+Documentation#action=openDocument&res_title=Deleting_communities_programmatically_ic55&content=apicontent)

- Recheck NUMDB value after **every** Connections database upgrade
  - *db2 get dbm cfg | grep NUMDB*
- SQL update scripts sometimes include NUMDB settings
- If not, you will get issues when using integrations like Docs, FEB or third-party

## #33 Oracle: Check user password expiration

- Oracle database users are created through the Connections Wizard SQL scripts
- Oracle default user password expiration value is 365 days
  - *ALTER PROFILE DEFAULT LIMIT PASSWORD\_LIFE\_TIME UNLIMITED*

## #34 Debug user synchronization

- Profile & user synchronization  
(`<tdisol>/etc/profiles_tdi.properties`)
  - `source_ldap_debug=true`
  - `debug_*=true` (update profile, collect, managers, ...)
  - `trace_profile_tdi_javascript=*` (debug, fine, finer, all)
- TDI issues (`<tdisol>/etc/log4j.properties`)
  - `log4j.rootCategory=DEBUG, Default`
- `sync_updates_clean_temp_files=false`
  - This will force TDI not to delete the temp files
    - LDAP export
    - Database export

- Recheck your configuration after installing Connections or Docs UNC share access
  - WebSphere variables - Slashes have to be forward slashes
  - *sib-engine.xml* - Slashes have to be backward slashes
    - Alternatively use `${MESSAGE_STORE_PATH}`
- More information (Thanks Victor!)
  - <https://notesbusters.com/2016/02/22/connections-5-5-install-problem-for-websphere-cluster-settings-with-unc-shares/>

## #36 Don't miss to import the DB2

- DB2 will work 90 days without a license
- You can check your license status using `db2licm -l`
  - *Expiry date: "Permanent"*
- **Tip: You will need a new TSAMP license when using DB2 HADR with TSAMP after upgrading to DB2 10.5 FP8 (Connections 5.5)**



## #37 Debug Windows Connections plugin

- Launch *DITrace.exe* (<installpath>/Connections Desktop Plugins)
- Reproduce issues
- Save traces using *DITrace.exe*
- More information
  - ↪ <https://www-01.ibm.com/support/docview.wss?uid=swg21681420>

- Chrome 60 breaks some stuff in nearly all Connections versions (4.0, 4.5, 5, 5.5 6.0)
  - Commenting status updates will not work
  - Community events functionally is broken
- IBM released fixes for 5.5 CR1+ and 6.0
  - ↪ <http://www-01.ibm.com/support/docview.wss?uid=swg22007236>

# #39 Strong ciphers configuration (SSL LABS A)

- SSLCipherSpec ALL NONE
- SSLCipherSpec ALL +TLS\_ECDHE\_RSA\_WITH\_AES\_128\_CBC\_SHA256
- SSLCipherSpec ALL +TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256
- SSLCipherSpec ALL +TLS\_ECDHE\_RSA\_WITH\_AES\_256\_CBC\_SHA384
- SSLCipherSpec ALL +TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384
- SSLCipherSpec ALL +TLS\_RSA\_WITH\_AES\_128\_GCM\_SHA256
- SSLCipherSpec ALL +TLS\_RSA\_WITH\_AES\_256\_GCM\_SHA384
- SSLCipherSpec ALL +TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA256
- SSLCipherSpec ALL +TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA256
- Notes 8.5.x and < TLS 1.2 support (SSL LABS A-)
  - SSLCipherSpec ALL +TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA
  - SSLCipherSpec ALL +TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA

## #40 Enable Viewer to preview .xlsm

- Required versions
  - Connections 5.5 CR2
  - Docs 2 CR1
- You need to customize *viewer-config.json* and include some MIME types
  - Fixed with Docs 2 CR2
  - Editing macro enabled files will work out of the box
- More information
  - [↪ https://meisenzahl.org/2017/01/01/preview-xlsm-files-within-ibm-connections/](https://meisenzahl.org/2017/01/01/preview-xlsm-files-within-ibm-connections/)

# #41 Reimport Highway settings after 5.5 migration

- Otherwise, Activity Streams (Homepage, Profiles) will not work
  - Access issues caused by missing permissions
  - Not needed with 6.0
- Copy “00000000-0000-0000-0000-000000000000.json”
  - From `<cnxshared>/configuration/`
  - To `<cnxshared>/configuration/update`
- `execfile("highwayAdmin.py")`  
`HighwayService.updateSettingsFromFile()`
- *More information (Thanks Michele!)*
  - [https://www.ibm.com/developerworks/community/blogs/4021cbfe-77ed-4a39-89de-59b2fd63adb5/entry/IBM\\_Connections\\_5\\_5\\_403\\_error\\_for\\_the\\_Activity\\_Stream\\_in\\_Profiles\\_after\\_migration?lang=en](https://www.ibm.com/developerworks/community/blogs/4021cbfe-77ed-4a39-89de-59b2fd63adb5/entry/IBM_Connections_5_5_403_error_for_the_Activity_Stream_in_Profiles_after_migration?lang=en)

## #42 Connections browser push notification

- Connections 5.5 and 6 only
  - New App: PushNotification
- Based on long-polling requests
  - Client sends POST request to */push/form/comet/connect*
  - Server holds the request open and waits until response information becomes available
  - Server responses or timeout kills the request
  - Client sends new POST request...
- Use Nginx as proxy
  - [https://www.ibm.com/support/knowledgecenter/SSYGQH\\_6.0.0/admin/install/inst\\_post\\_nginx.html](https://www.ibm.com/support/knowledgecenter/SSYGQH_6.0.0/admin/install/inst_post_nginx.html)
- Or recheck your threads configuration on IHS and WAS
  - *ThreadLimit* in *httpd.conf*
  - Web Container Thread Pool for every App-Server

## #43 Customize log language

- WAS: Customize JVM generic properties for **all** JVMs
  - *-Duser.language=en -Duser.region=US*
  - Non-English logs are causing issues
- TDI: Customize `ibmdisrv.sh/bat`
  - *LOG\_4J="-Dlog4j.configuration=file:etc/log4j.properties"*  
*-Duser.language=en -Duser.region=US*

## #44 Secure your mod\_proxy configuration

- LoadModule proxy\_module modules/mod\_proxy.so  
LoadModule proxy\_http\_module modules/mod\_proxy\_http.so
- ProxyRequests Off
- <Proxy \*>  
    Order deny,allow  
    Allow from all  
</Proxy>
- ProxyPass /abc http://<fqdn>/abc  
ProxyPassReverse /abc http://<fqdn>/abc



# #45 Orient Me & SPNEGO

- SSO will not work by default
- Customize configmap *connections-env*
  - ic-homepage-url: https://cnx6.pana.local/social/auth/blue-auth
- Redeploy pods
  - orient-webclient-\*
  - itm-services-\*

```
# Please edit the object below. Lines beginning with a '#' will be ignored,  
# and an empty file will abort the edit. If an error occurs while saving this file will be  
# reopened with the relevant failures.  
#  
apiVersion: v1  
data:  
  deployment_type: HYBRID_CLOUD  
  ic-admin-password: password  
  ic-admin-user: cnxadmin  
  ic-auth-token-name: ltpaToken2  
  ic-connections-url: https://cnx6.pana.local/social/auth/blue-auth  
  ic-homepage-url: https://cnx6.pana.local/homepage  
  ic-host: cnx6.pana.local  
  ic-profiles-url: https://cnx6.pana.local/profiles  
  jwt-secret: this_is_the_real_secret
```

- Using PMI
  - Analyze WebSphere related stuff (Connections pool size, Heap size)
  - Included
  - More information
    - [http://www.ibm.com/support/knowledgecenter/SS7K4U\\_8.5.5/com.ibm.websphere.nd.multiplatform.doc/ae/cprf\\_pmidata.html](http://www.ibm.com/support/knowledgecenter/SS7K4U_8.5.5/com.ibm.websphere.nd.multiplatform.doc/ae/cprf_pmidata.html)
- Using Health Center
  - Full stack (CPU, I/O, Java runtime, Threads)
  - Eclipse IDE Plugin
  - More information
    - <http://www.ibm.com/support/knowledgecenter/SS3KLZ/com.ibm.java.diagnostics.healthcenter.doc/topics/introduction.html>

# #47 Configure log rotation

- WAS
  - Within JVM settings
  - Don't forget to configure **all** JVMs
  - Issues within Connections installer (5.5 only)
    - Recheck settings after installation!
- DB2
  - *db2 update dbm cfg using diagsize 256*
  - Delete logs after X days (crontab, scheduled task)
- TDI
  - Customize *<tdisol>/etc/log4j.properties*
    - `log4j.appender.Default=org.apache.log4j.RollingFileAppender`
    - `log4j.appender.Default.MaxFileSize=10MB`
    - `log4j.appender.Default.MaxBackupIndex=10`
- IHS
  - Customize *httpd.conf*
    - `ErrorLog "|<ihsroot>/bin/rotatelog -l /opt/IBM/HTTPServer/log/error_log.%Y.%m.%d 10M"`
    - `CustomLog "|<ihsroot>/bin/rotatelog -l /opt/IBM/HTTPServer/log/access_log.%Y.%m.%d 10M" common`
  - Delete logs after X days using crontab or scheduled task

# #48 How-to: Add customized profile types

- Why?
  - Customize displayed/available profile fields
  - Enable or disable profile widgets
- Configure “profileType” within *map\_dbrepos\_from\_source.properties*
- Customize profiles-types.xml
- Customize widgets-config.xml
  - `<layout resourceSubType="<customprofile>">`  
...  
`</layout>`
  - profileType default needs to be the last one!

## #50 Orient Me & https only Connections environment

- You need to customize the *connections-env* configmap
  - Redeploy orient-webclient-\* and itm-services-\* pods afterwards
- More information (Thanks Charlie!)
  - [https://www.ibm.com/developerworks/community/blogs/4021cbfe-77ed-4a39-89de-59b2fd63adb5/entry/Configuring\\_Connections\\_server\\_to\\_only\\_allow\\_https\\_traffic\\_causes\\_status\\_updates\\_likes\\_comments\\_from\\_Orient\\_Me\\_to\\_fail](https://www.ibm.com/developerworks/community/blogs/4021cbfe-77ed-4a39-89de-59b2fd63adb5/entry/Configuring_Connections_server_to_only_allow_https_traffic_causes_status_updates_likes_comments_from_Orient_Me_to_fail)

```
new-relic-license-key: ""
orient-cnx-host: cnx6.pana.local
orient-cnx-interservice-host: cnx6.pana.local
orient-cnx-interservice-port: "443"
orient-cnx-interservice-scheme: https
orient-cnx-port: "443"
orient-cnx-scheme: https
redis-auth-enabled: "true"
```

- Connections environment is unable to connect to Apple/Google push gateway directly
- Customize *mobile-config.xml*
  - `<ProxyHost> </ProxyHost>`  
`<ProxyPort> </ProxyPort>`
- Configure authentication alias if needed
  - `proxyMobilePushNotificationJAASAuth`

# #52 WebSphere & DH key size

- WAS supports only 2048 bit or less
- Enforce a specific DH key size
  - `<washome>/<java_version>/jre/lib/security/java.security`
    - `jdk.tls.disabledAlgorithms=DH keySize <768`
- Define DH key size on Domino
  - Default DH key size was increased to 4096 bit with Domino 9.0.1 FP4 IF2
  - `SSL_DH_KEYSIZE=2048` (notes.ini)
    - Requires at least Domino 9.0.1 FP3 IF2
  - Mail integration!
- More information (Thanks Ben!)
  - <https://collaborationben.com/2016/07/12/ibm-connections-mail-and-ephemeral-diffie-hellman-key-size-error/>

## #53 Post-upgrade task: 5.5 CR2 Surveys

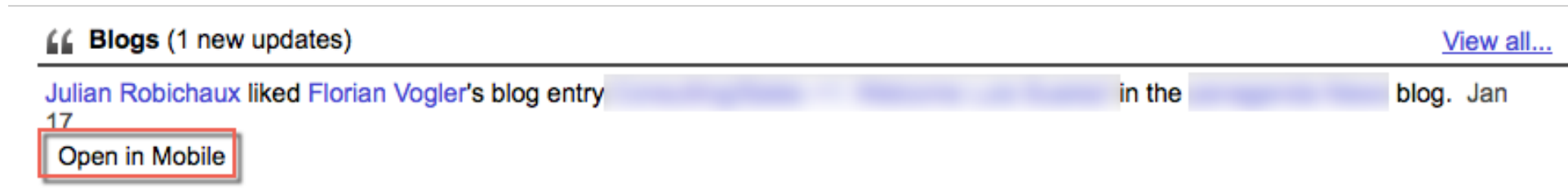
- Rewrite */forms* to prevent broken links/bookmarks
  - RewriteRule `^/forms/(.*)$ https://%{SERVER_NAME}/surveys/$1 [NE,L,R]`
- **Tip: Recheck your environment!**



- *rlwrap* will allow you to use command history and arrow keys within *wsadmin*
  - ↪ <https://github.com/hanslub42/rlwrap>
- *rlwrap ./wsadmin -lang jython*
- This is also working for other command line based tools
  - *db2*
  - *SQLPLUS*

# #55 Include mobile links in notification mails

- Allows users to access content using Connections mobile apps
- notification-config.xml
  - `<includeMobileLinksInNotifications>true</includeMobileLinksInNotifications>`



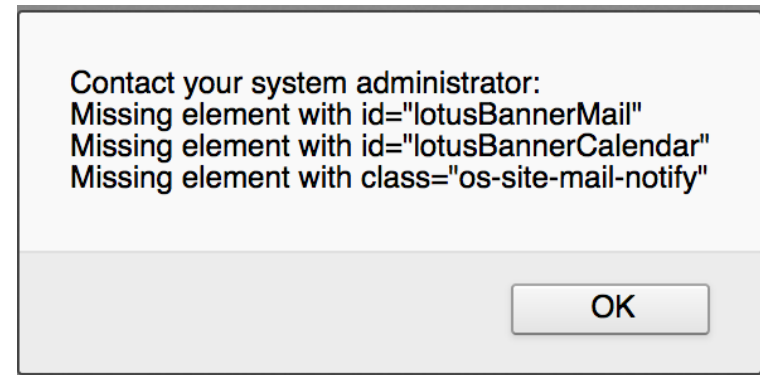


- Enable your Connections environment to use more than one Domino directory
  - Internal and external users
  - Special directory topology
- Define your repositories with their Base DN
- You need to edit the *wimconfig.xml*
  - These changes are not supported within ISC
- Customize following lines (one line for every repository)
  - OLD: `<config:baseEntries name="o=pana" nameInRepository="o=pana"/>`
  - NEW: `<config:baseEntries name="o=pana" nameInRepository=""/>`
  - No need to customize other lines!

- Do **not** use a local WebSphere repository user
- Many problems are related to this
  - Thumbnail generation in Gallery (3.0)
  - CCM and Docs stop working after some time (5.5)
  - Easier CCM migration (side-by-side)
- Changing the *connectionsAdmin* user is possible
  - ↪ [https://www-10.lotus.com/ldd/lcwiki.nsf/dx/Change\\_password\\_of\\_connectionsAdmin](https://www-10.lotus.com/ldd/lcwiki.nsf/dx/Change_password_of_connectionsAdmin)

# #59 Mail Integration with external users (5.5 only)

- Mail Integration should be deactivated for all external users by default
  - *header.jsp* script is **not** working correctly
  - *ROLE\_mail-user* Cookie is set to *true*
- Use LDAP group instead of “All authenticated in Application's Realm” to prevent errors
  - *mail-user* role needs to be changed in following Apps
    - Common
    - WidgetContainer
- Or customize *header.jsp*



## #60: Use variables in widgets-config.xml

- Widget documentations often show path names in widgets-config.xml
- Or even worse copies files to application ear
- Better move the files to `{CONNECTIONS_CUSTOMIZATION_PATH}/communities`
- Use `{communitiesSvcRef}` as a replacement in widgets-config.xml
- If you want to change the PATH, just change the WebSphere variable

- Indices will not be deleted which could cause full disk space
  - /var/lib/elasticsearch/
- Solution #1: Create a short script and schedule it using cronjob
  - More information
    - <http://www.stoeps.de/orient-me-elasticsearch-and-disk-space/>
- Solution #2: Change Docker storage driver to Devicemapper
  - Devicemapper is the recommended one for RHEL/CentOS (by Docker)
  - Will be official supported by IBM in future Orient Me releases
  - More information
    - <https://meisenzahl.org/2017/09/04/orient-me-rethink-your-docker-storage-driver-configuration/>





Presentation download:

↳ <https://www.slideshare.net/nmeisenzahl>

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