



# IBM Connections Adminblast



Christoph Stoettner

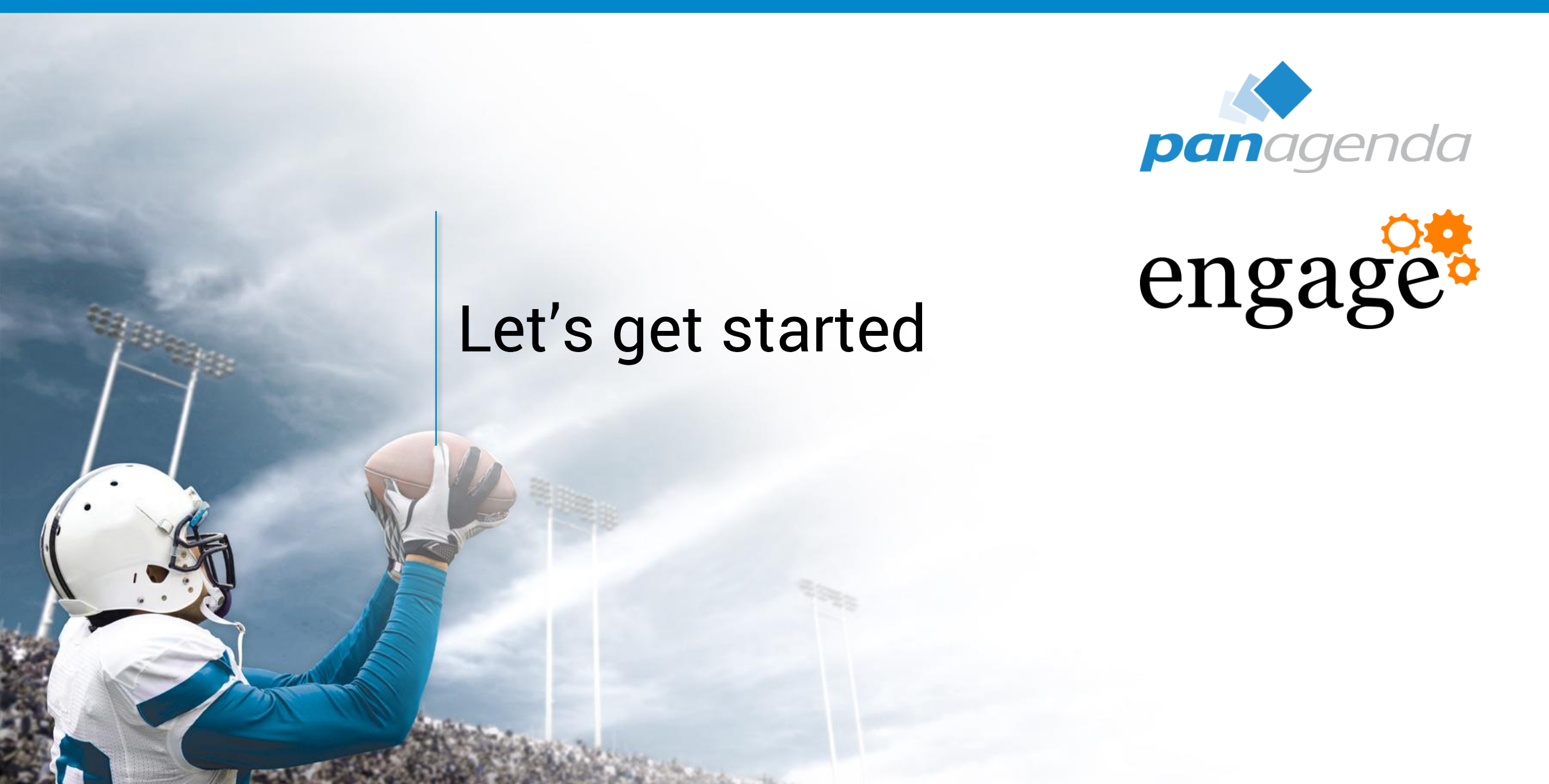
Make Your Data Work for You



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- Senior Consultant at panagenda
  - IBM Notes / Domino since 1999
  - IBM Connections since version 2.5 / 2009
- Experience in
  - Migrations
  - Deployments
  - Administration
  - Performance Analysis
- Focusing in
  - Deployment and Optimizing IBM Connections
  - Monitoring / panagenda ConnectionsExpert
- Husband and father
- Beer or Wine?



Let's get started

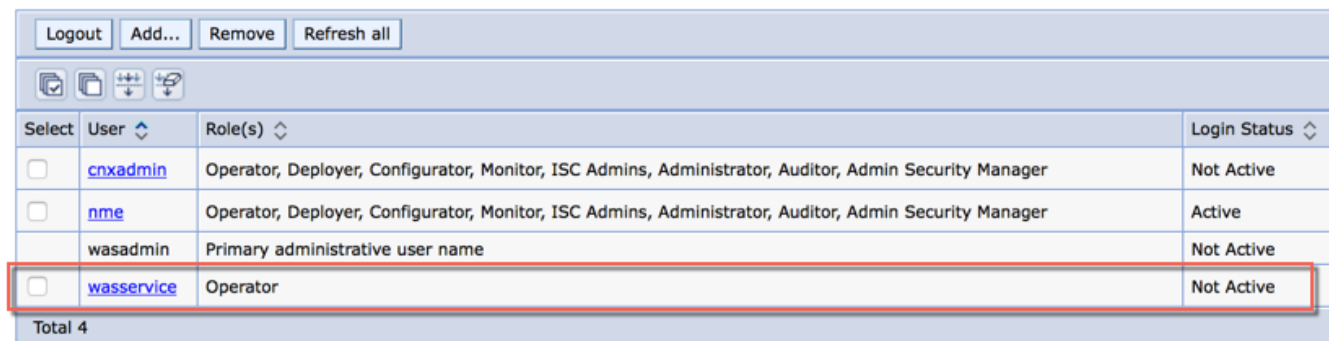
  
*panagenda*

  
engage

Make Your Data Work for You

# #1 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

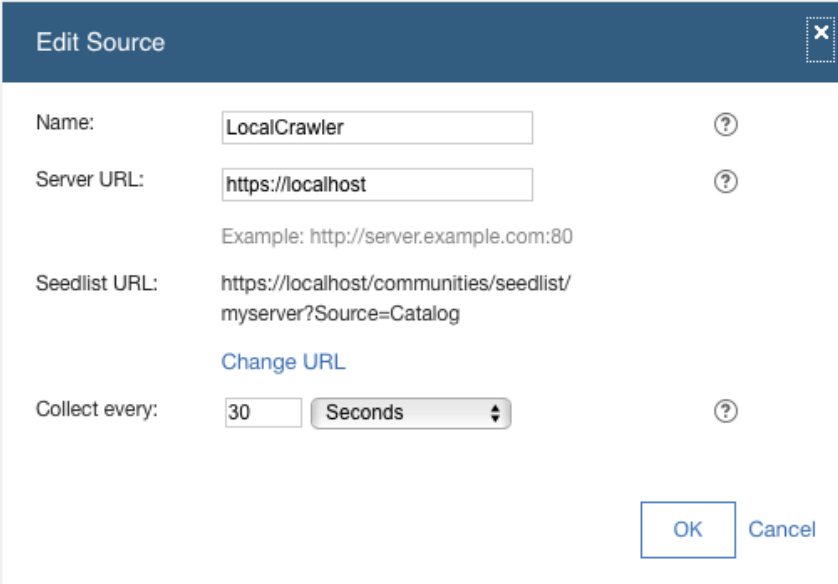
## #2 *globalSenderEmailAddress* is not working completely

```
<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
  - Happens with 5.5 gold and CR2 (not tested with CR1 and CR3)
- You need to configure **all** mail addresses one by one

# #3 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



The screenshot shows a dialog box titled "Edit Source" with a close button (X) in the top right corner. It contains the following fields and options:

- Name:** LocalCrawler (with a help icon ?)
- Server URL:** https://localhost (with a help icon ?)  
Example: http://server.example.com:80
- Seedlist URL:** https://localhost/communities/seedlist/myserver?Source=Catalog  
[Change URL](#)
- Collect every:** 30 (input field) Seconds (dropdown menu) (with a help icon ?)

At the bottom right, there are "OK" and "Cancel" buttons.

## #4 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/jre/lib/security
  - Remember to redeploy after **each** WebSphere Java update ;-)
- WebSphere Application Server is now able to connect to those hosts

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

- You can use JVM generic properties instead of the application.conf file
- Need to be a generic property! Custom property is not working
  - IBM Connections 5.5, 5.5CR1
    - 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
  - IBM Connections 5.5CR2
    - Dephox.allowed-origins.origins.0=https://cnx.pana.local
    - Dephox.allowed-origins.origins.1=http://cnx.pana.local



## #6 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("")`

# #7 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/](https://meisenzahl.org/2017/02/25/connections-database-performance-tuning/)

## #8 You're using SPNEGO and don't know *LimitRequestFieldSize*?

- 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

## #9 “TLS 1.2 only” environments

- Possible, but you need:
  - Connections 5.5 CR2 including latest Textbox.io, FEB
  - WebSphere 8.5.5.9
- FileNet Config Manager will not work
- Docs/Viewer will need a *httpd.conf* customization
  - RewriteCond %{HTTPS} !=on
  - RewriteCond %{Request\_URI} !/docs
  - RewriteCond %{Request\_URI} !/conversion
  - RewriteCond %{Request\_URI} !/viewer
  - https://%{SERVER\_NAME}/\$1 [NE,R,L]
- You need to configure some more stuff
- 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/)

# #10 Tuning search index

- 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”
- Include Connections type ahead search (Apache Solr)
- “Ignore Punctuation” setting is **not** working
  - Searching for “IBM” will not display “I.B.M” within results

# #11 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
- More information (thanks Ben!)
  - <https://collaborationben.com/2016/06/22/which-jre-to-use-with-ibm-connections-solr/>

## #12 How-to: Set *EMPLOYEE\_EXTENDED* role for all users

- Export all user mail addresses using a SQL export
- Change role using a wsadmin call
  - ProfilesService.setBatchRole(EMPLOYEE\_EXTENDED, "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!

## #13 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/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/>

Share Something: update your *status* or upload a *file*.

The spelling service was not found: (<https://cnx.pana.local/ephox-spelling/>).

What do you want to share?

I'm Following

Status Updates

Discover



# #14 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 , 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:

## #15 Old URL preview thumbnails are missing after a migration

- 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/](https://meisenzahl.org/2016/06/28/url-preview-pictures-not-displayed-migration/)

# #16 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

# #17 Extend SPNEGO exclusion filter

- 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

# #18 FEB browser setup isn't working

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

# #19 Post-upgrade task: Connections fixes

- Delete temp directories after **every** iFix or CR update
  - <appsrv-profile>/temp/\*
  - <appsrv-profile>/wstemp/\*
- If not, you will get nice UI bugs ;-)

# #20 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
- 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/)

# #21 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/)



## #22 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
```

## #23 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

## #24 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

# #25 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

## #27 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*

# #28 Debug user synchronization

- Profile & user synchronization (<tdisol>/etc/profiles\_tdi.properties)
  - source\_ldap\_debug=true
  - debug\_update\_profile=true
  - debug\_collect=true
- 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/>



## #30 Don't miss the DB2 license import

- 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

# #31 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>

## #32 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

## #33 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
- Editing macro enabled files will work out of the box
- More information
  - <https://meisenzahl.org/2017/01/01/preview-xlsm-files-within-ibm-connections/>

# #34 Reimport Highway settings after 5.5 migration

- Otherwise, Activity Streams (Homepage, Profiles) will not work
  - Access issues caused by missing permissions
- 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)

# #35 Connections 5.5 browser push notification

- 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...
- Recheck your threads configuration on IHS and WAS
  - *ThreadLimit* in *httpd.conf*
  - Web Container Thread Pool for every App-Server

## #36 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*

# #37 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



- 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](http://www.ibm.com/support/knowledgecenter/SS3KLZ/com.ibm.java.diagnostics.healthcenter.doc/topics/introduction.html)

# #39 Configure log rotation

- WAS
  - Within JVM settings
  - Don't forget to configure **all** JVMs
  - Issues within Connections installer
    - 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 (crontab, scheduled task)

# #40 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

## #41 How-to: Configure mobile push using forward proxy

- 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`

# #42 WebSphere & DH key size

- WAS supports only 2048 bit or less
- Enforce a specific DH key size
  - `<washome>/java/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/](https://collaborationben.com/2016/07/12/ibm-connections-mail-and-ephemeral-diffie-hellman-key-size-error/)

# #43 Post-upgrade: IBM Connections 5.5 CR2 Surveys


- IBM renamed Surveys from `/forms` to `/surveys`
- Rewrite `/forms` to prevent broken links/bookmarks
  - RewriteRule `^/forms/(.*)$ https://%{SERVER_NAME}/surveys/$1 [NE,L,R]`

## #44 Extend wsadmin on Linux

- *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*

# #45 Include mobile links in notification mails

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

 **Blogs** (1 new updates)

[View all...](#)

Julian Robichaux liked Florian Vogler's blog entry [redacted] in the [redacted] blog. Jan 17

Open in Mobile





- 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!

## #48 *connectionsAdmin* J2C role

- 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)



# #50: 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 or have to change the PATH change the WebSphere variable
- Example: OpenNTF Generic HTML or XPage Widget
  - create {CONNECTIONS\_CUSTOMIZATION\_PATH}/communities/widgets
  - extract the widgets to this folder

```
[root@cnx-was-55 tmp]# ls -al /opt/IBM/cnxShared/customization/communities/**/*

/opt/IBM/cnxShared/customization/communities/widgets/HTMLWidget:
total 24
drwxr-xr-x 2 root root 89 Jan 24 11:25 .
drwxr-xr-x 4 root root 42 Jan 24 11:25 ..
-rw-r--r-- 1 root root 7613 Jan 24 11:25 htmlWidget.js
-rw-r--r-- 1 root root 4362 Jan 24 11:25 htmlWidget.xml
-rw-r--r-- 1 root root 126 Jan 24 11:25 readme.txt
-rw-r--r-- 1 root root 185 Jan 24 11:25 widgets-config.xml

/opt/IBM/cnxShared/customization/communities/widgets/XPagesWidget:
total 52
drwxr-xr-x 2 root root 4096 Jan 24 11:25 .
drwxr-xr-x 4 root root 42 Jan 24 11:25 ..
-rw-r--r-- 1 root root 777 Jan 24 11:25 GenericXPagesWidget.xsp
-rw-r--r-- 1 root root 858 Jan 24 11:25 GenericXPagesWidget.xsp-config
-rw-r--r-- 1 root root 126 Jan 24 11:25 readme.txt
-rw-r--r-- 1 root root 197 Jan 24 11:25 widgets-config.xml
-rw-r--r-- 1 root root 22527 Jan 24 11:25 xpagesWidget.js
-rw-r--r-- 1 root root 5619 Jan 24 11:25 xpagesWidget.xml
```

```
<!-- Generic HTML and XPages Widget START -->
<widgetDef defId="HTML Widget"
  themes="wpthemeNarrow wpthemeWide wpthemeBanner"
  modes="view edit"
  showInPalette="true"
  uniqueInstance="false"
  url="{communitiesSvcRef}/widgets/HTMLWidget/htmlWidget.xml">
</widgetDef>
<widgetDef defId="XPages Widget"
  themes="wpthemeNarrow wpthemeWide wpthemeBanner"
  modes="view edit fullpage"
  showInPalette="true"
  uniqueInstance="false"
  url="{communitiesSvcRef}/widgets/XPagesWidget/xpagesWidget.xml">
</widgetDef>
<!-- Generic HTML and XPages Widget END -->
```

# Questions?



Presentation download:



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Thank You

