#DNUG44

Installationserfahrungen mit Connections 6 Deep Dive



Profile | Files

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Pink Technology



Pink is a vision about changing IBM Connections

- Starts with Connections 6, Pink is a Vision, not a Release
- Collaboration Platform Built for Today
- Made for Developers: Everything is an API
- Open Ecosystem; Customizable
- Containerized Deployment
- Microservice Based Architecture
- New Technology Stack
- Continuous, Simultaneous Delivery of New Features to on Premises and Cloud
- Flexible Data Residency

Co-existence between Blue, Green and Pink Presentation 1048 - The Future Is PINK: IBM Connections Your Way...



Considerations for Pink

- There are no considerations that impact the Connections 6 installation process!
- Same procedure as with 5.5
- Orient Me is an optional extension
- Connections 6 does not need Orient Me, but Orient Me will require you to have Connections 6 up and running
- Some post-installation steps are needed for hook into each other
- Don't try to install Connections and Orient Me on the same machine it might technically work but would very likely result in an unmanageable nightmare

Pink Technology

Modern CI-CD

Continuous Integration / Continuous Development ad II: 72 Sci Hire France

StrongLoop / IBM API Connect (node.js/express)

Programming languages

SWIFT / GO

React.js

MongoDB

Redis

Nginx

Docker

Javascript Library NoSQL DB Swiss Army Knife for Data Webserver Virtualization





Why do we do Microservices?

Lets look at an example



More than 500 Microservices Between 100 and 1000 Changes per Day

Question: could you do this with traditional programming and virtualization? NO

Monolithic Applications versus Microservices



Monolithic Applications versus Microservices



Comparing Virtual Machines and Containers



Comparing Virtual Machines and Containers



Step 1: Installation WAS Elements



Connections 6 - Medium Deployment



Connections 6 - Medium Deployment



Troubleshooting - same procedure as before...

- Understand what the logs are telling you (What does CLFRW0604E mean...?) https://www.ibm.com/support/knowledgecenter/SSYGQH_6.0.0/admin/troubleshoot/c_error_codes.html
- Different components different logs. Have you ever customized the access.log? https://www.ibm.com/developerworks/library/co-websphere-access-feature/
- Logs should be maintained size, rollover, language... e.g. call wsadmin.bat -lang jython -f d:\ibm\scripts\addJvmProperty.py all user.language en
- Tools, tools, tool...even if it's only Baretail plus FireBug plus Fiddler, it helps a lot!
- A timeless classic: Don't forget to sync changes
- What's the key size of your SSL certificate?

Step 2: Installation Orient Me



Overview Installation



Prerequisites

- Pink is designed to be horizontally scalable, but all containers can be installed on one VM for convenience too
- One VM:

CentOS 7.3 or RHEL 7.3, 4 CPU, 16 GB RAM, 200 GB disk (more topologies coming soon)

- Configured CentOS or RHEL distribution yum repository
- root password on Linux VM(s)
- Connections Pink FQHN
- Connections 6.0 (Blue) FQHN
- Connections 6.0 (Blue) WebSphere admin user / password
- Internet connectivity

Pitfalls

- You will need to have DNS in place!
- No, connectivity via etc/hosts won't work
- So, if you plan to setup a local VMWare environment on your desktop, enable (or install) a DNS service within the Connections box
- If you have DNS running, make sure that this is not overwritten by DHCP
- Try name resolution from within a POD
- Install as root no sudo...
- Keep your CentOS / Redhat as Spartan as possible
- Disk space: Today, most of the Orient Me code (and middleware) is installed in the root partition (e.g. /dev/centos/root)
- Automatic partitioning assigns only 50% of your available disk space to this

 consider manual partitioning or extend default size

INSTALLING THE BASE ENVIRONMENT

#/opt/deployCfC/deployCfC.sh \
 --boot=cnxpink-fqhn
 --master=cnxpink-fqhn
 --worker_list=cnxpink-fqhn, ...,
 --proxy=cnxpink-fqhn
 --ignore os requirements

#/opt/deployCfC/deployCfC.sh --help

SETTING UP THE PERSISTENT VOLUMES

```
# mkdir -p /pv/mongo-node-{0,1,2}/data/db
# mkdir -p /pv/solr-data-{1,2,3}
# mkdir -p /pv/zookeeper-conf-{1,2,3}
# mkdir -p /pv/zookeeper-data-{1,2,3}
# chmod -R 777 /pv
```

```
# kubectl create -f /install-dir/fullPVCs.yml
# kubectl create -f /install-dir/fullPVs_hostPath.yml
```

INSTALLING ORIENT ME

cd /install-dir/microservices/hybridcloud/
./install.sh

What is happening

- Push Docker images into local registry
- Deploy Docker images via Kubernetes using Yaml files
 - * lifecycle management characteristics how and when

* ports

- * resource consumption
- * number of instances
- * everything configuration

In case something went wrong

#/opt/deployCfC/deployCfC.sh \
 --boot=cnxpink-fqhn
 --master=cnxpink-fqhn
 --worker_list=cnxpink-fqhn, ...,
 --proxy=cnxpink-fqhn
 --ignore os requirements

--uninstall=clean

Step 3: Connecting Orient Me <-> WAS Elements



ENABLING PROFILES EVENTS FOR ORIENT ME

2	*F:\IBM\Wizards\TDIPopulation\win\TDI\conf\LotusConnections-config\tdi-profiles-config.xml - Notepad++ [Administrator]	_ 🗆 X			
File Ed	lit Search View Encoding Language Settings Tools Macro Run Plugins Window ?	х			
httpd.	conf 🔀 🔚 tdi-profiles-config.xml 🔀				
10		~			
11	The source code for this program is not published or otherwise				
12	<pre><!-- divested of its trade secrets, irrespective of what has been--></pre>				
13	<pre><!-- deposited with the U.S. Copyright Office--></pre>				
14					
15	***********************************</td <td></td>				
16					
17	<tdiconfig <="" id="tdi-profiles" td=""><td></td></tdiconfig>				
18	xmlns="http://www.ibm.com/profiles-config"				
19	xmlns:tns="http://www.ibm.com/profiles-config"				
20	xmlns:xs1="http://www.w3.org/2001/XMLSchema-instance"				
21	xs1:scnemalocation="nttp://www.iDm.com/profiles-config profiles-config.xsd">				
22	<profile_xtensionattributes></profile_xtensionattributes>				
20	This extension attribute is required by the 'WyJinks' profile widget				
25					
26	<pre>cymlFileAttribute</pre>				
27	extension Id="profileLinks"				
28	achemaFile="profile-links.xsd"				
29	indexBindingExpr="/linkroll/link/@name /linkroll/link/@url">	_			
30	<pre>indexFields></pre>	=			
31	<indexfield fieldexpr="/linkroll/link/@name" fieldname="linkName"></indexfield>				
32					
33	-				
34	<pre></pre>				
35					
36	cproperties>				
37	<property name="com.ibm.lconn.profiles.config.EnableManagerChangeEvent" value="true"></property>				
38	<property name="com.ibm.lconn.profiles.config.EnableTDIEventOverride" value="true"></property>				
39	-				
40					
41					
42		<u> </u>			
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CONFIGURING HTTP SERVER FOR ORIENT ME

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📇 tdi-profiles-config.xml 🗵 🔚 httpd.conf 🗵					
881			^		
882	Win32DigableBccentFy				
884	HIGZDIDADICHOOLPUDA				
885					
887	LoadModule Was_ap22_module "f:\IBM\WebSphere\Plugins\bin\32bits\mod_Was_ap22_http.dll WebSpherePluginConfig "F:\IBM\WebSphere\Plugins\config\webserver1\plugin-cfg.xml"				
888					
889	LoadModule ibm_ssl_module modules/mod_ibm_ssl.so				
891	Listen 0.0.0.0:443				
892	Wintual Heat #:442				
894	ServerName wwts-martti-ic6.ibmcollabcloud.com				
895					
896	ProxyPreservenost on ProxyPass "/social" "http://wwts-martti-om.ibmcollabcloud.com:30001/social"				
898	ProxyPassReverse "/social" "http://wwts-martti-om.ibmcollabcloud.com:30001/social"				
899	ProxyPass "/itm" " <u>http://wwts-martti-om.ibmcollabcloud.com:31100/itm</u> " ProxyPassReverse "/itm" "http://wwts-martti-om.ibmcollabcloud.com:31100/itm"				
901					
902	#DocumentRoot C:\IBM\HTTPServer\htdocs	1			
904	SSLEnable				
905					
907	SSLDisable				
908					
910	ProxyPreserveHost On				
911	ProxyPass "/social" "http://wwts-martti-om.ibmcollabcloud.com:30001/social"				
912	ProxyPassReverse "/social" " <u>nttp://wwts-martti-om.ibmcollabcloud.com:300001/social</u> " ProxyPass "/itm" "http://wwts-martti-om.ibmcollabcloud.com:31100/itm"				
914	ProxyPassReverse "/itm" "http://wwts-martti-om.ibmcollabcloud.com:31100/itm"				
915	Kevfile "F:\IBM\HTTPServer\kevs\kev.kdb"	1			
917	SSLStashFile "F:\IBM\HTTPServer\key.sth"		≡		
918			$\overline{}$		
Normal t	ext file length : 31,931 lines : 918 Ln : 914 Col : 77 Sel : 0 0	Windows (CR LF) UTF-8	INS		

REDIRECTING TRAFFIC TO REDIS APPLICATION

kubectl get services

Check <port-number> for redis container

cd /installdir/microservices/hybridcloud/bin
./configureRedis.sh cnxpink-fqhn <port-number> http://cnxblue-fqhn

IMPORT EXISTING USER INTO ORIENT ME

kubectl get pods -o wide

• Look for number in people-migrate-XXXXX-XXXXX



Installationserfahrungen mit Connections 6: Deep Dive





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