Runmodes and Configs for Fun and Profit

Lightningtalks.adaptTo(Berlin, 2011)

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Huh?

Short Intro on how to use custom runmodes together with sling:OsgiConfig to easily manage different configurations and environments.

Info based on real-world usage of these features in CQ 5.4

 Sling trunk might have added features (e.g. save-back of configs)

Runmodes

 CQ - author or publish (Do NOT remove!) Multiple additional custom runmodes possible Suggested Use Servironment: local, dev, test, prod Location: berlin, basel, timbuktu
 Company: acme, partner, customer
 Special system type: importer

Setting runmodes

Via JVM Options (recommended)
 Usually via CQ_JVM_OPTS in start script

 -Dsling.run.modes=author,dev,berlin

 Via Sling Properties
 File launchpad/sling.properties

 sling.run.modes=author,dev,berlin



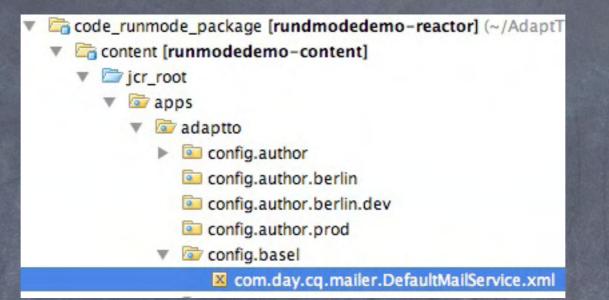
(as seen on South Park ;)



1) sling:OsgiConfig

ay cy mail	I Service					
The mail s	service can be used to send er	mails.				
SMTP server host name	The mailer uses this SMTP server to send messages (smtp.host)					
SMTP server port	25 Port number to use to connect to the SMTP server (smtp.port)					
SMTP user	The user for authentication through SMTP (smtp.user)					
SMTP password	The password for authentication through SMTP (smtp.password)					
"From" address	The email address to use in the "From:" field of messages sent by the mailer (from.address)					
SMTP use SSL	If enabled, an SSL connection is set up. (smtp.ssl)					
Debug email	If enabled, interactions with the SMTP server are dumped to the operating system terminal that runs Sling (debug.email)					
onfigurat	tion Information					
Persistent Identity (PID)		com.day.cq.mailer.DefaultMailService				
Configuration Binding		Unbound or new configuration				

2) Runmode-aware config



```
jcr:primaryType="sling:OsgiConfig"
```

```
smtp.host="{String}basel-mailrelay.example.com"
smtp.port="{String}465"
smtp.user="{String}john.doe"
smtp.password="{String}secret"
from.address="{String}noreply@example.com"
smtp.ssl="{Boolean}true"
debug.email="{Boolean}false"
/>
```

3) Profit

ay CQ Mail	Service			:			
The mail s	ervice can be used	to send emails.					
SMTP	basel-mailrelay.example.com						
server The mailer uses this SMTP server to send messages (smtp.host) host name							
SMTP	465						
server port	Port number to us	se to connect to the SMTP server (smtp.port)					
SMTP user	john.doe						
	The user for authentication through SMTP (smtp.user)						
SMTP	secret	secret					
password	The password for authentication through SMTP (smtp.password)						
"From" address	noreply@example.com						
	The email address to use in the "From:" field of messages sent by the mailer (from.address)						
SMTP use SSL							
	If enabled, an SSL connection is set up. (smtp.ssl)						
Debug email							
	If enabled, interactions with the SMTP server are dumped to the operating system terminal that runs Sling (debug.email)						
Configurat	ion Information						
Persistent Identity (PID) com.day.cq.mailer.DefaultMailService		com.day.cq.mailer.DefaultMailService					
Configuratio	n Binding	Day Communique 5 Mailer (com.day.cq.cq-mailer), Version 5.4.0		_			
		Save	Reset Abo	ort			

//,

Naming Config Locations

/apps/adaptto/config/ 0 All Systems, runmode-independent /apps/adaptto/config.berlin/ Systems with berlin runmode /apps/adaptto/config.dev.berlin/ 0 Systems with berlin AND dev runmode

Example – Instances

Instance	Runmodes			
	Туре	Environment	Location	
#1	author	dev	berlin	
#2	author	prod	basel	
#3	author	prod	berlin	

Example - Configs

Different mailserver configs per location

- config.basel/
 com.day.cq.mailer.DefaultMailService.xml
- o config.berlin/ com.day.cq.mailer.DefaultMailService.xml

Sen-/Disabling debugging per environment

config.prod/
 com.day.cq.wcm.core.impl.WCMDebugFilter.xml

o config.dev/

com.day.cq.wcm.core.impl.WCMDebugFilter.xml

Hints & Suggestions 1/2

Partial configs not supported Config with most matching runmodes wins Always set all properties to avoid confusion String Use a type indicator (e.g. {Boolean}, {String}, etc.) in every property /apps wins over /libs (as always) KISS principle ("Keep it simple, stupid!")

Hints & Suggestions 2/2

JCR installer keeps a digest. Thus you can't reinstall an identical config as just before.

Config for same component at config.dev.berlin and config.berlin.author put on system with dev, berlin and author runmodes

JCR installer gives them the same priority, so do this only if you want one of them randomly applied ;)

Questions?

