

## Session : Introduction to AEM & Runmodes

### EXERCISE

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1. Define the priority when run mode are applied using options

slings.properties file

system properties (-D)

**Ans.** When defined together, run modes defined by system properties (-D) take priority over those defined in the sling.properties file.

2. Creating an OSGi service which has two properties to configure. Define these configuration for run modes :

a. Dev

b. Dev, pub

**Ans:**

Default configurations:

```
@ TechBlogConfig.java x
1 package com.aem.training.core.configurations;
2
3 import org.osgi.service.metatype.annotations.AttributeDefinition;
4 import org.osgi.service.metatype.annotations.AttributeType;
5 import org.osgi.service.metatype.annotations.ObjectClassDefinition;
6
7 @ObjectClassDefinition(name = "Tech Blog Configurations")
8 public @interface TechBlogConfig {
9
10     @AttributeDefinition(name = "Blog Category", type = AttributeType.STRING)
11     String bundleCategory() default "Technology";
12
13     @AttributeDefinition(name = "Blog Rank", type = AttributeType.INTEGER)
14     int rank() default 1;
15 }
```

Showing change in configurations due to author.dev run mode:

Config.author.dev -> com.aem.training.core.services.TechBlog.xml:

```
com.aem.training.core.services.TechBlog.xml x
1  <?xml version="1.0" encoding="UTF-8"?>
2  <jcr:root
3      xmlns:sling="http://sling.apache.org/jcr/sling/1.0"
4      xmlns:jcr="http://www.jcp.org/jcr/1.0"
5      jcr:primaryType="sling:OsgiConfig"
6      bundleCategory="Developer"
7      rank="2"
8  />
9
```

<http://localhost:4502/system/console/status-slingsettings> - Showing dev and author as running mode of running instance

```
Apache Sling Settings
Sling ID = e5663d13-e85b-4f95-905b-30e9698b3467
Sling Name = Instance e5663d13-e85b-4f95-905b-30e9698b3467
Sling Description = Instance with id e5663d13-e85b-4f95-905b-30e9698b3467 and run modes [dev, s7connect, crx3, author, samplecontent, crx3tar]
Sling Home = /home/syed/Executables/aem/crx-quickstart
Sling Home URL = file:/home/syed/Executables/aem/crx-quickstart/
Run Modes = [dev, s7connect, crx3, author, samplecontent, crx3tar]
```

Updated Configurations based on **dev** run mode

Tech Blog Configurations

Blog Category:

Blog Rank:

Configuration Information

Persistent Identity (PID): com.aem.training.core.services.TechBlog

Configuration Binding: Unbound or new configuration

Cancel Reset Delete Unbind Save

Showing change in configurations due to publish.dev run mode:

Config.publish.dev -> com.aem.training.core.services.TechBlog.xml:

```
com.aem.training.core.services.TechBlog.xml x
1 <?xml version="1.0" encoding="UTF-8"?>
2 <jcr:root
3     xmlns:sling="http://sling.apache.org/jcr/sling/1.0"
4     xmlns:jcr="http://www.jcp.org/jcr/1.0"
5     jcr:primaryType="sling:OsgiConfig"
6     bundleCategory="Publisher"
7     rank="3"
8 />
```

<http://localhost:4503/system/console/status-slingsettings> - Showing publish and dev as running mode of running instance

## Adobe Experience Manager Web Console Sling Settings

[Main](#) [OSGi](#) [Sling](#) [Status](#) [Web Console](#)

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Apache Sling Settings

Sling ID = bf5d5582-a01f-438d-96fc-90a80425b52b  
Sling Name = Instance bf5d5582-a01f-438d-96fc-90a80425b52b  
Sling Description = Instance with id bf5d5582-a01f-438d-96fc-90a80425b52b and run modes [dev, s7connect, crx3, samplecontent, publish, crx3tar]  
Sling Home = /home/syed/Executables/aem/publish-instance/crx-quickstart  
Sling Home URL = file:/home/syed/Executables/aem/publish-instance/crx-quickstart/  
Run Modes = [dev, s7connect, crx3, samplecontent, publish, crx3tar]

Updated Configurations based on **publish, dev** run mode

Tech Blog Configurations

Blog Category

Publisher

Blog Rank

3

Configuration Information

Persistent Identity (PID)

com.aem.training.core.services.TechBlog

Configuration Binding

Unbound or new configuration

Cancel

Reset

Delete

Unbind

Save

----- END -----