

# Introduction to AEM & Runmodes

## Exercise

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

sling.properties file

system properties (-D)

Ans. The priorities of the above methods would be as follows

1. System Properties (-D):-

```
arpit@arpit:~/Author$ java -XX:MaxPermSize=256m -Xmx1024M -jar AEM_6.5_Quickstart.jar -Dsling.run.modes=author,qa
```

2. Sling.properties file:-

```
org.osgi.framework.system.packag  
sling.run.modes=author,dev  
felix.jpms.java.sql=,javax.sql;
```

In this i have defined both properties for the same instance and the output instance is of (Author ,qa) type therefore System properties (-D) has higher precedence than sling properties file.

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#### Apache Sling Settings

```
Sling ID = 92296af4-4fe8-4078-b318-a2c48cfb8beb  
Sling Name = Instance 92296af4-4fe8-4078-b318-a2c48cfb8beb  
Sling Description = Instance with id 92296af4-4fe8-4078-b318-a2c48cfb8beb and run modes [qa, s7connect, crx3, author, samplecontent, crx3tar]  
Sling Home = /home/arpit/Author/crx-quickstart  
Sling Home URL = file:/home/arpit/Author/crx-quickstart/  
Run Modes = [qa, s7connect, crx3, author, samplecontent, crx3tar]
```

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

a. Dev

In this first i started the author,dev instance of aem and checked the Configuration.

CustomConfiguration	
Serial Number	<input type="text" value="2"/>
Serial number (Serial.Number)	
Employee	<input type="text" value="author.dev"/>
Configuration Information	
Persistent Identity (PID)	com.aem.training.core.servic
Configuration Binding	<a href="#">Unbound or new configurati</a>

b. Dev,pub

In this i started the publish,dev instance of aem and checked the Configuration.

CustomConfiguration	
Serial Number	<input type="text" value="3"/>
Serial number (Serial.Number)	
Employee	<input type="text" value="publish.dev"/>
Configuration Information	
Persistent Identity (PID)	com.aem.training.core.
Configuration Binding	<a href="#">Unbound or new config</a>

Folder structure of configuration:

- ▼ training
  - ▶ clientlibs
  - ▶ components
  - ▶ config
  - ▶ config.author
  - ▼ config.author.dev
    -  com.aem.training.core.services.MyServiceImpl.xml
  - ▼ config.publish.dev
    -  com.aem.training.core.services.MyServiceImpl.xml

Code:-

1. Author,dev:-

```
<?xml version="1.0" encoding="UTF-8"?>  
<jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0" xmlns:jcr="http://www.jcp.org/jcr/1.0"  
  jcr:primaryType="sling:OsgiConfig"  
  Serial.Number="2"  
  Employee.Name="author.dev"/>
```

2. Publish,dev:-

```
<?xml version="1.0" encoding="UTF-8"?>  
<jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0" xmlns:jcr="http://www.jcp.org/jcr/1.0"  
  jcr:primaryType="sling:OsgiConfig"  
  Serial.Number="3"  
  Employee.Name="publish.dev"/>
```