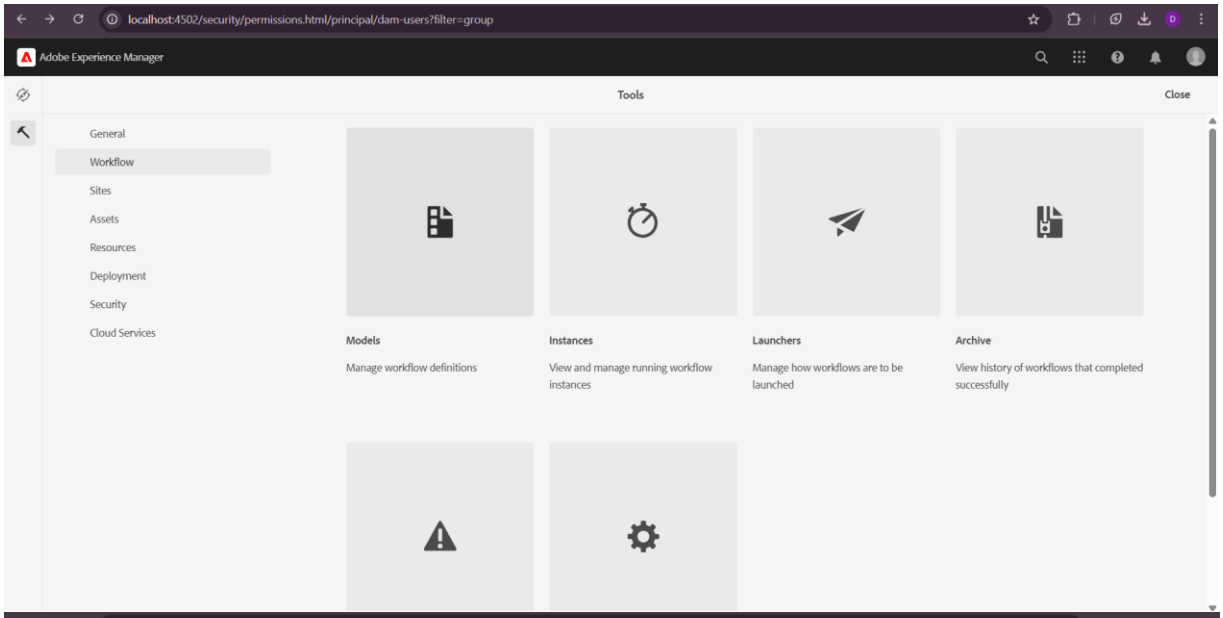
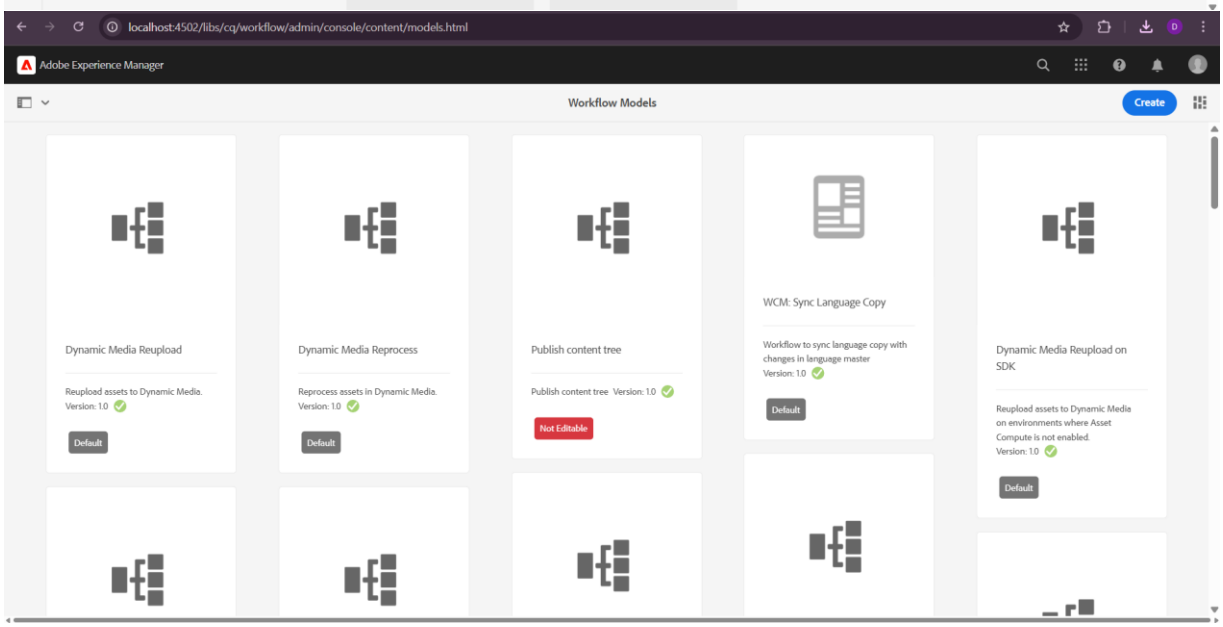
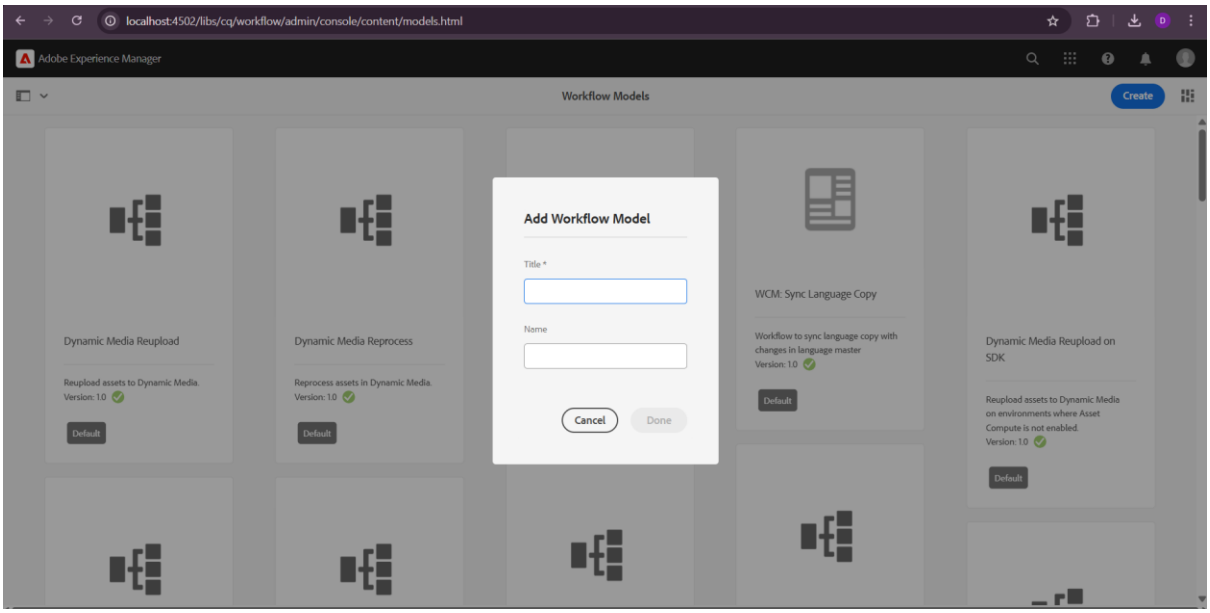
1. Create Custom Workflow (my custom workflow).
Go to Tools > Workflow > Models.
Click on "Create".
Enter the title: my custom workflow.
Click on "Create & Open".
Add a Process Step to the workflow model.
Configure the Process Step:

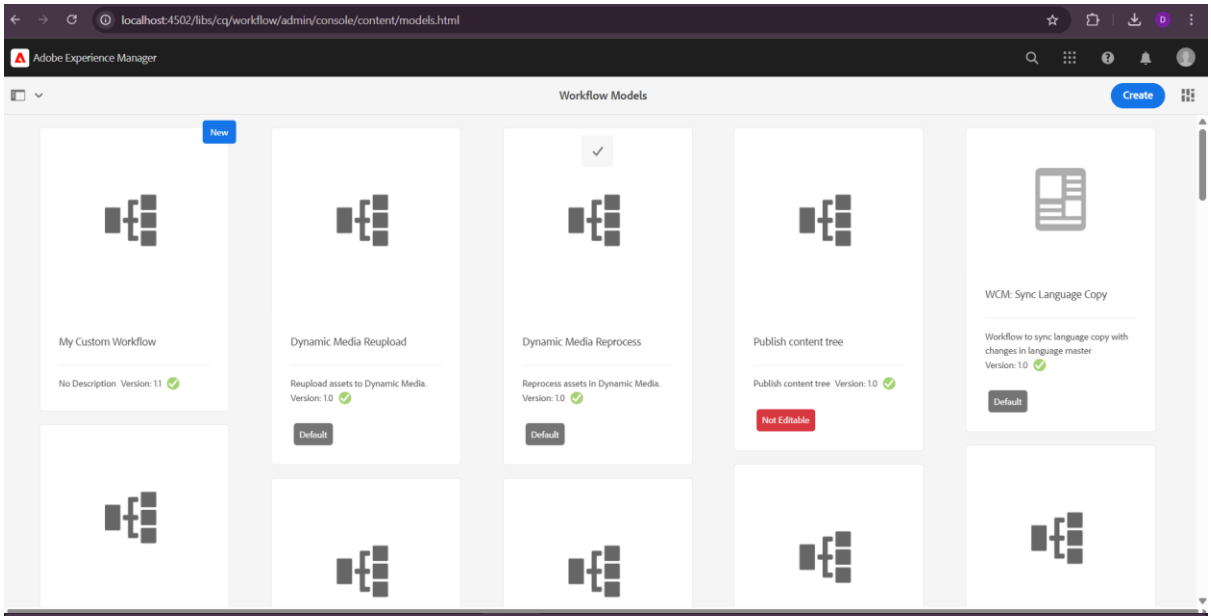
- Title: Custom Process Step
- Process: CustomWorkflowProcess

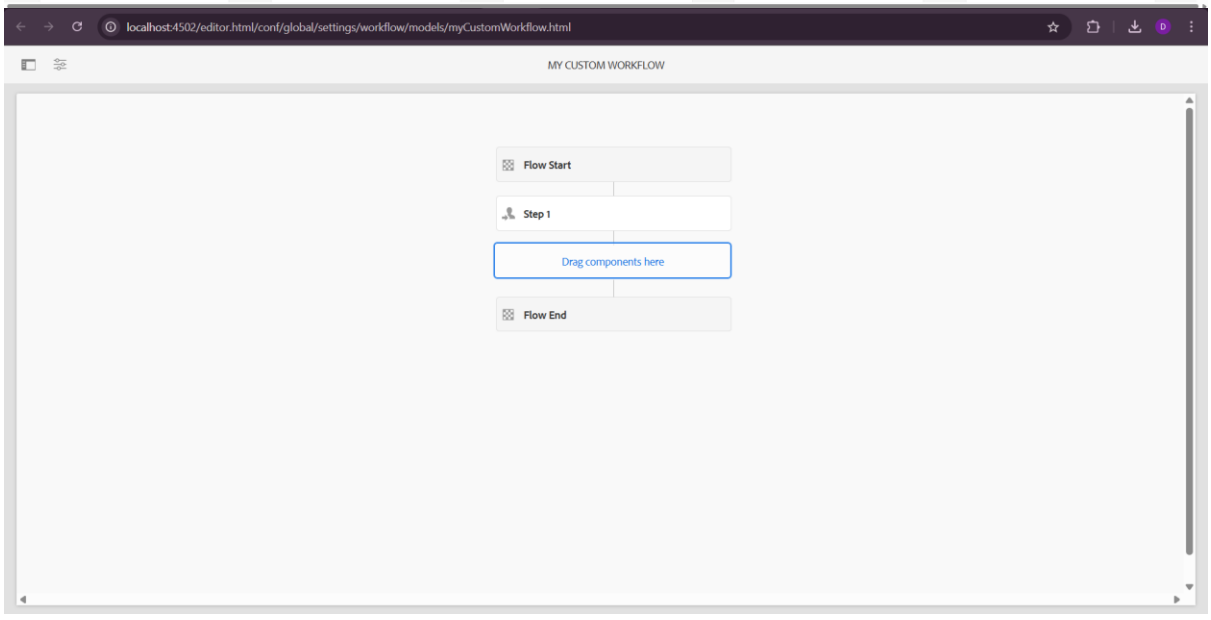
Save the workflow.

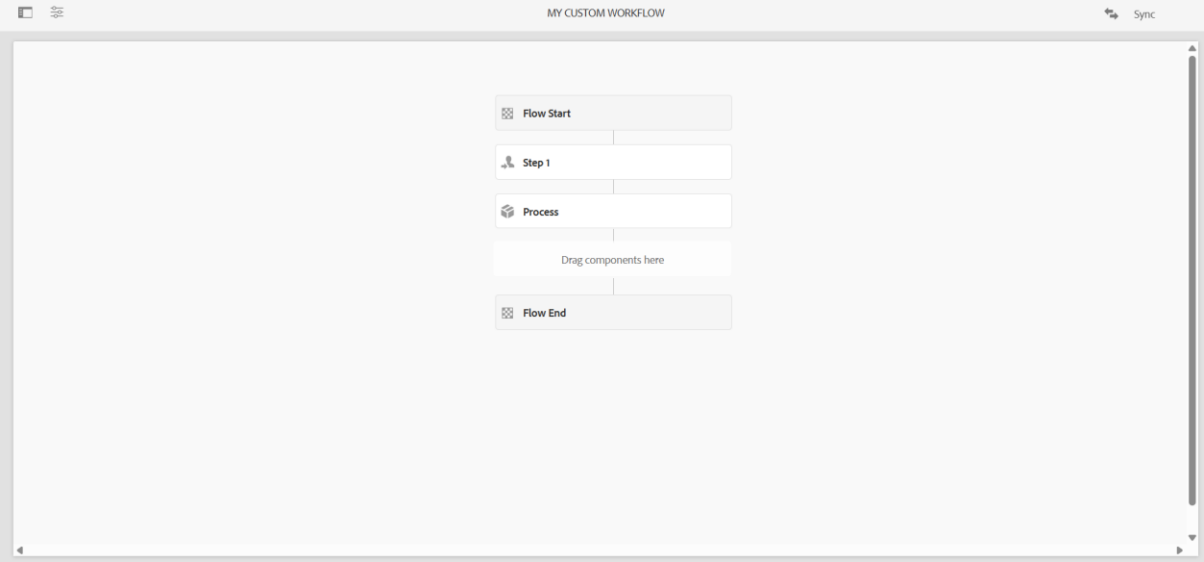





localhost:4502/libs/cq/workflow/admin/console/content/models.html
Adobe Experience Manager
Workflow Models
Create
Add Workflow Model
Title *
Name
Cancel
Done
Dynamic Media Reupload
Reupload assets to Dynamic Media.
Version: 1.0
Default
Dynamic Media Reprocess
Reprocess assets in Dynamic Media.
Version: 1.0
Default
WCM: Sync Language Copy
Workflow to sync language copy with changes in language master
Version: 1.0
Default
Dynamic Media Reupload on SDK
Reupload assets to Dynamic Media on environments where Asset Compute is not enabled.
Version: 1.0
Default

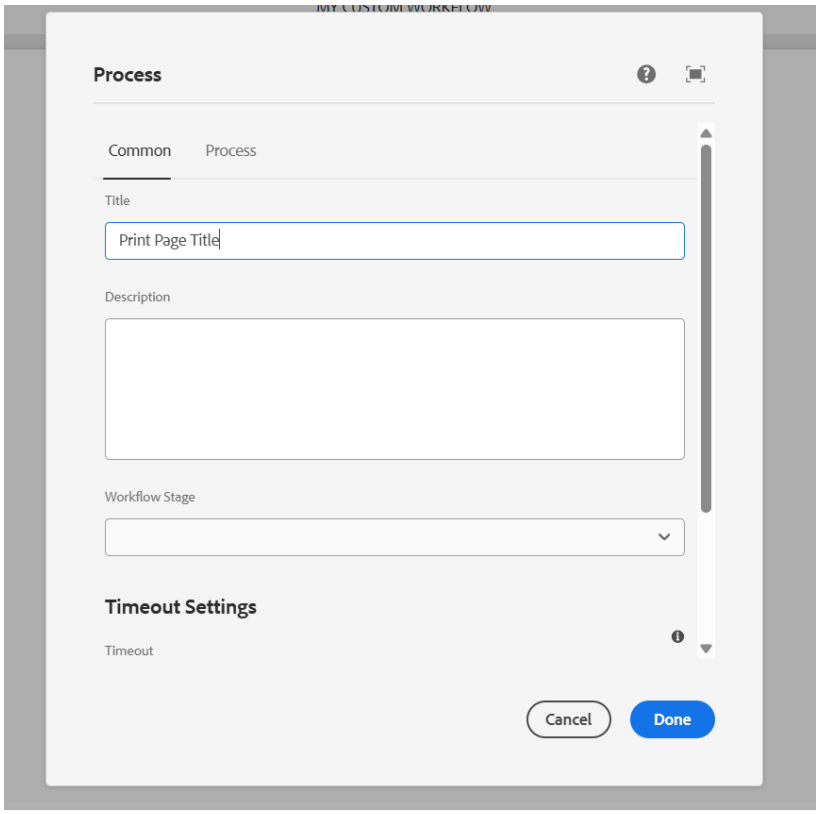

localhost:4502/libs/cq/workflow/admin/console/content/models.html
Adobe Experience Manager
Workflow Models
Create
New
My Custom Workflow
No Description Version: 1.1
Dynamic Media Reupload
Reupload assets to Dynamic Media.
Version: 1.0
Default
Dynamic Media Reprocess
Reprocess assets in Dynamic Media.
Version: 1.0
Default
Publish content tree
Publish content tree Version: 1.0
Not Editable
WCM: Sync Language Copy
Workflow to sync language copy with changes in language master
Version: 1.0
Default


localhost:4502/editor.html/conf/global/settings/workflow/models/myCustomWorkflow.html
MY CUSTOM WORKFLOW
Flow Start
Step 1
Drag components here
Flow End



2.Create custom workflow process and print the page title in logs and run this workflow in page so that it can give some metadata in logs

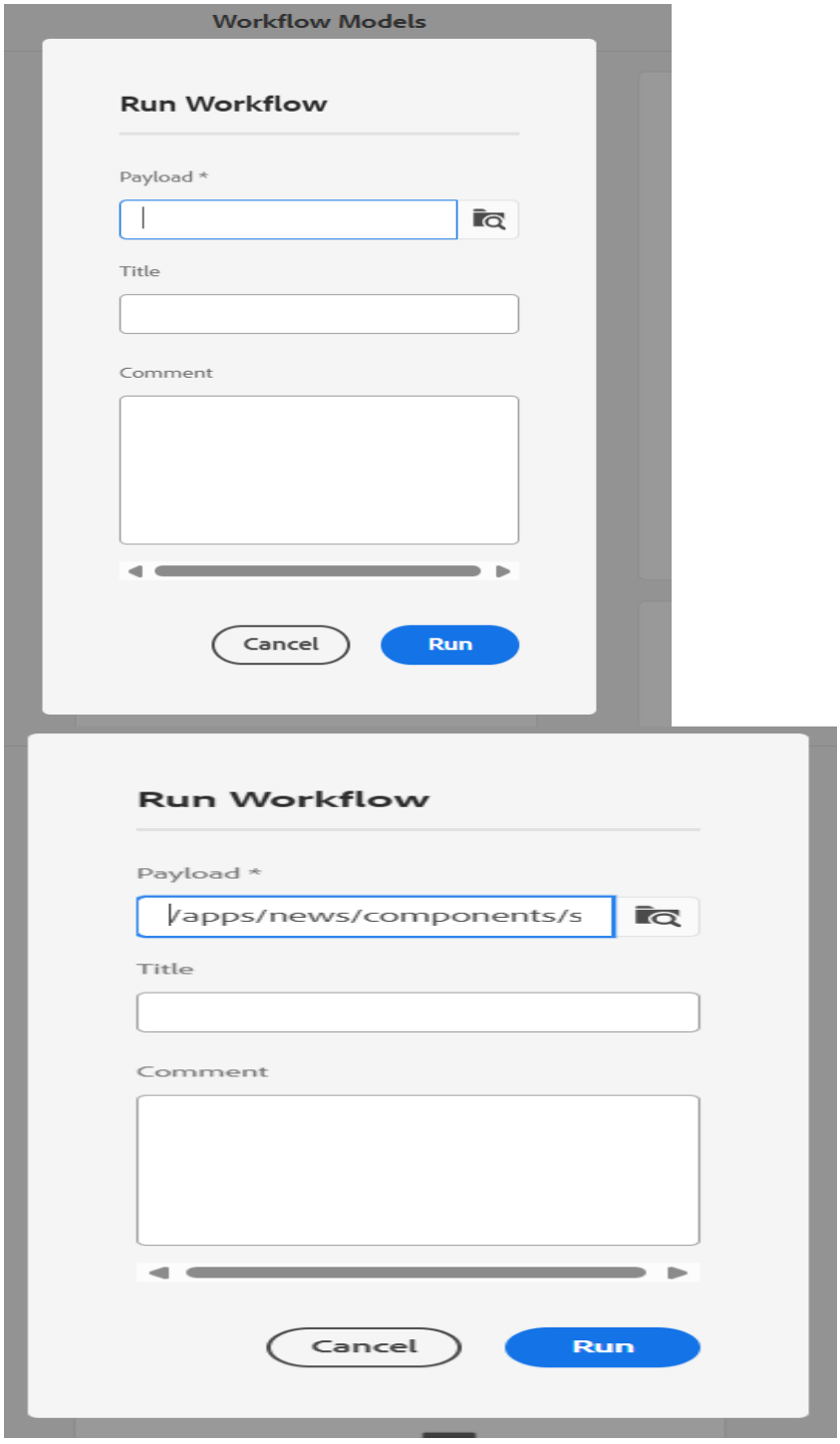
Configure the Process Step : In Process Tab : Provide a custom class name like com.example.core.workflows.PrintPageTitleProcess Title: "Print Page Title Step



Create a Workflow Process Java Class Go to AEM project: /core/src/main/java/com/myTraining/core/workflows/PrintPageTitleProcess.java

```
@Component(service = WorkflowProcess.class, property = {"process.label=Print Page Title"})
 public class PrintPageTitleProcess implements WorkflowProcess {
private static final Logger LOG = LoggerFactory.getLogger(PrintPageTitleProcess.class);
@Override
public void execute(WorkItem workItem, WorkflowSession workflowSession, MetaDataMap metaDataMap) {
try {
String path = workItem.getWorkflowData().getPayload().toString();
ResourceResolver resolver = workflowSession.adaptTo(ResourceResolver.class);
if (resolver != null) {
 Resource resource = resolver.getResource(path + "/jcr:content");
 if (resource != null) {
 String title = resource.getValueMap().get("jcr:title", String.class);
LOG.info("Page Title: {}", title);
}
else {
LOG.warn("Resource not found at: {}", path);
} } }
catch (Exception e)
 {
 LOG.error("Error executing workflow process: ", e);
} } }
```

Run the workflow:



3.Create Event handler in aem and print the resource path in logs.

Create a java file named CustomeventHandler.java

C:\Users\LENOVO\training\aem\codebase\myTraining\core\src\main\java\com\myTraining\core\li steners\CustomeventHandler.java

```
@Component(
service = EventHandler.class,
immediate = true,
property = {
EventConstants.EVENT_TOPIC + "=" + SlingConstants.TOPIC_RESOURCE_ADDED } )
public class ResourceEventHandler implements EventHandler {
```

private static final Logger LOG = LoggerFactory.getLogger(ResourceEventHandler.class);
@Override
public void handleEvent(Event event) {
String resourcePath = (String) event.getProperty(SlingConstants.PROPERTY_PATH);
LOG.info("Resource added at path: {}", resourcePath);
} }

4.create sling job to print hello world message in logs:

Create HelloWorldSlingJob.java file inside the following path core/src/main/java/myTraining /jobs/HelloWorldSlingJob.java

Package com.muTraining.jobs
import org.apache.sling.event.jobs.Job;
import org.apache.sling.event.jobs.consumer.JobConsumer;
import org.osgi.service.component.annotations.Component;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
@Component(service = JobConsumer.class, property = {"job.topics=custom/job/helloworld"})
public class CustomSlingJob implements JobConsumer {
private static final Logger LOG = LoggerFactory.getLogger(CustomSlingJob.class);
@Override
public JobResult process (Job job) {
LOG.info("Hello World from Sling Job!");
return JobResult.OK;
} }

5.Create one schedular to print the yellow world in logs in every 5 mins through custom configuration using cron expression.

package com.myTraining .core.jobs;

import

org.apache.sling.commons.scheduler.Scheduler;

import

org.osgi.service.component.annotations.Activate;

import

```
org.osgi.service.component.annotations.Component;
import
org.osgi.service.component.annotations.Reference;
import
org.osgi.service.metatype.annotations.Designate;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
@Component(service = Runnable.class, immediate = true, property = {
"scheduler.expression=0 */5 * * * ?","scheduler.concurrent=false"})
@Designate(ocd = YellowWorldScheduler.Config.class)
public class YellowWorldScheduler implements Runnable {
private static final Logger LOG = LoggerFactory.getLogger(YellowWorldScheduler.class);

@Reference
private Scheduler scheduler;
@Activate
protected void activate() {
LOG.info("Yellow World Scheduler Activated");
}
@Override
public void run() {
LOG.info("Yellow World from Scheduler!");
 }}
```

6.Create 3 users and add them in a group(Dev author create this new group) and give permission to read only for /content and /dam folder only and they should have
replication access as well.

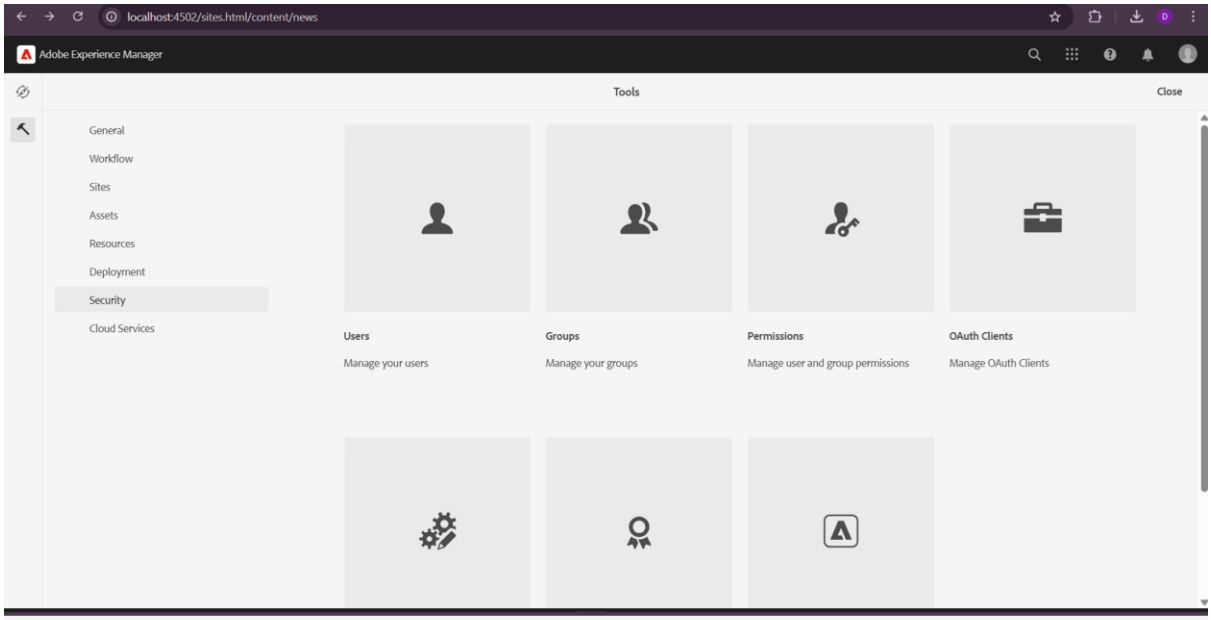
Go to AEM as an Administrator (http://localhost:4502). Navigate to

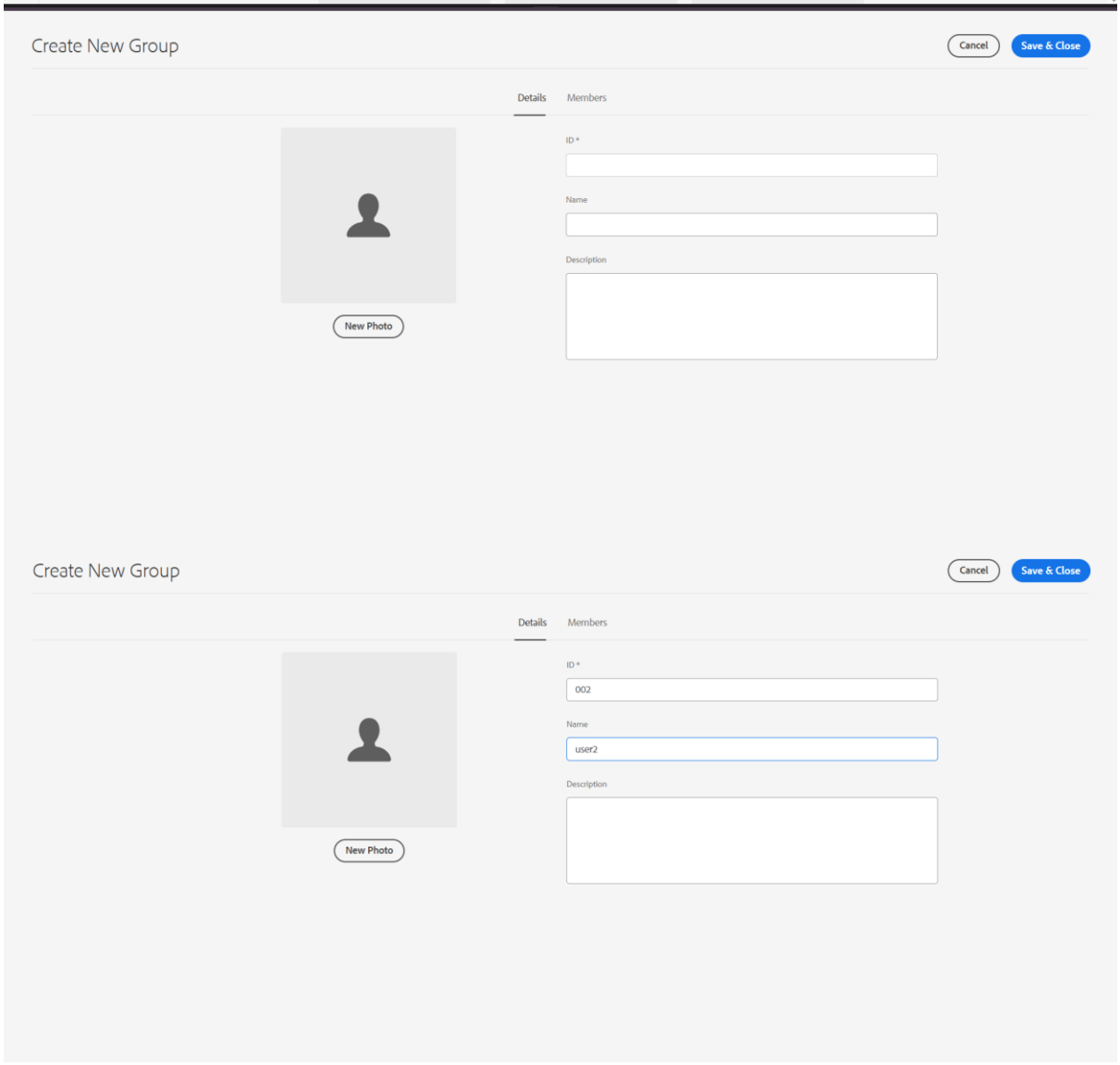
Tools → Security → Groups

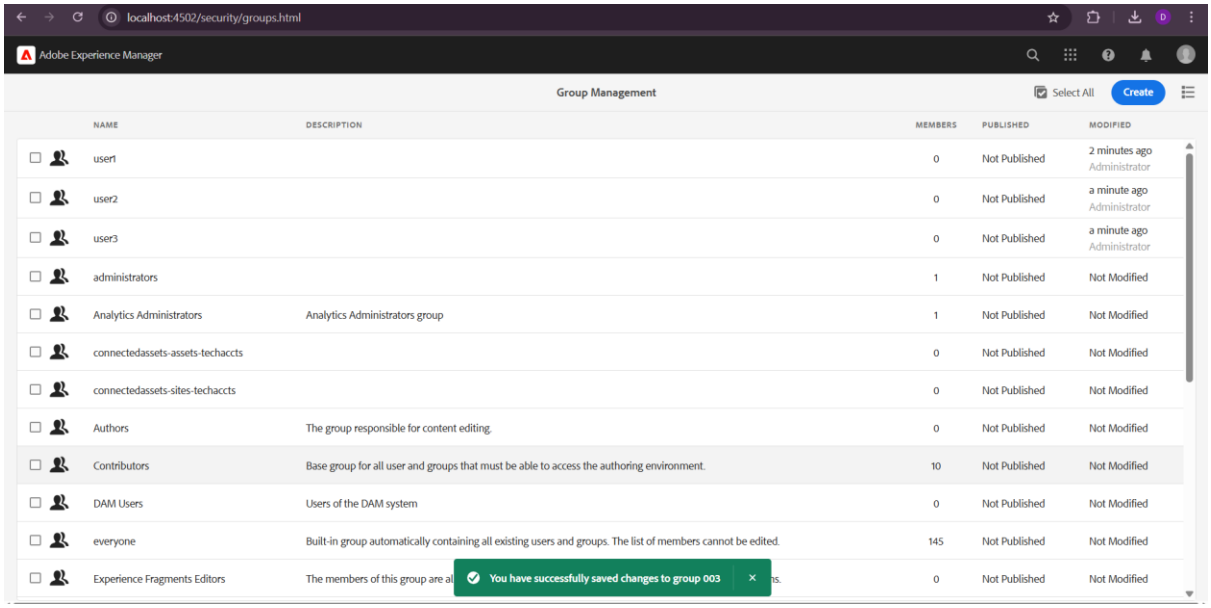
Click Create → Create Group.

Enter Group Name: eg:dev-authors

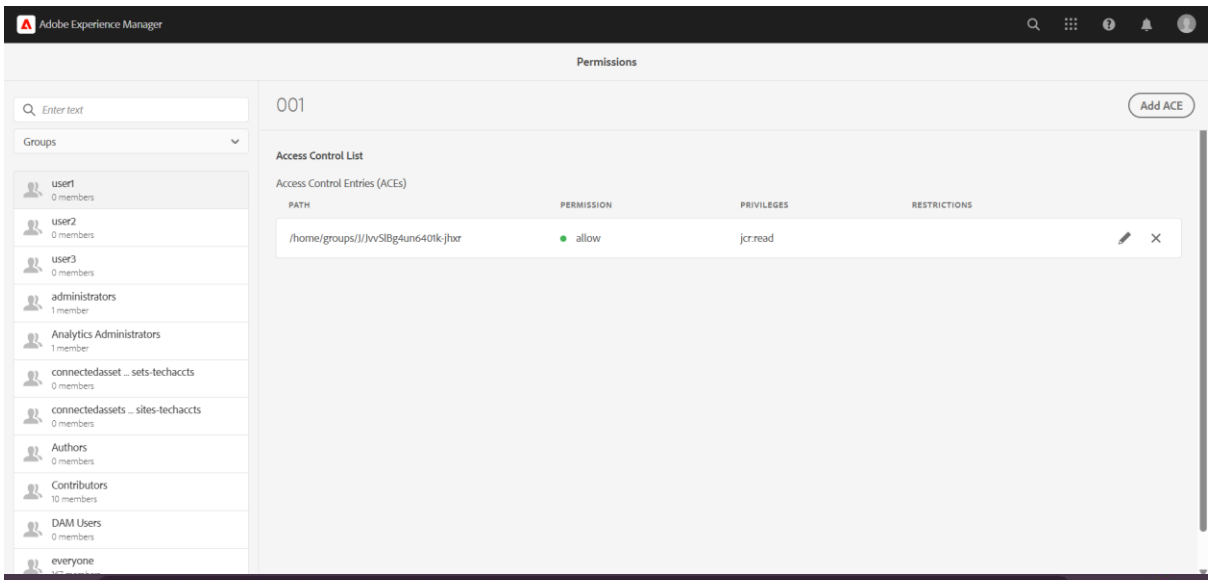
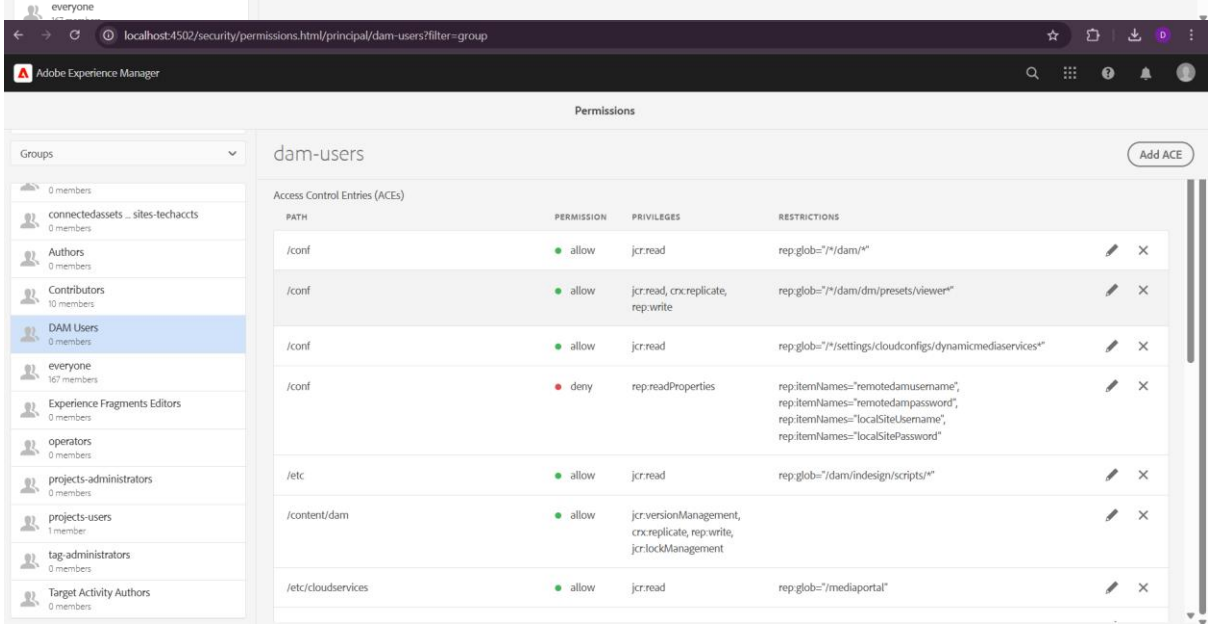
Click Save


localhost:4502/sites.html/content/news
Adobe Experience Manager
Tools
Close
General
Workflow
Sites
Assets
Resources
Deployment
Security
Cloud Services
Users
Manage your users
Groups
Manage your groups
Permissions
Manage user and group permissions
OAuth Clients
Manage OAuth Clients


Create New Group
Cancel
Save & Close
Details
Members
ID *
Name
Description
New Photo
Create New Group
Cancel
Save & Close
Details
Members
ID *
002
Name
user2
Description
New Photo



Assign Permissions to the Group:

Navigate to Tools → Security → Permissions.

Click on the group and set Read-Only Access.