# adaptTo()

#### EUROPE'S LEADING AEM DEVELOPER CONFERENCE 25<sup>th</sup> – 27<sup>th</sup> SEPTEMBER 2023

ACS Content Sync Yegor Kozlov



- CRX Package Manager requires escalated access
- There are challenges to set up incremental updates.
- Installing a package resets version history.



- AEMaaCloudCS compatible, e.g. you can sync https://author-xxxx.adobeaemcloud.com from https://authoryyyy.adobeaemcloud.com
- Sync any authorable content like Pages, Assets, Tags, XFs, CFs, etc..
- Support for incremental updates



# How does Content Sync Work?

Fetch the catalog of resources from the source instance

- /content/path1 lastModified1
- /content/path2 lastModified2
- /content/path3 lastModified3

 Compare it with the local state, compute the delta and synchronizes it via Sling JSON Export/Import.



## JSON Export/Import Mechanics



#### Sling Content Importer API

```
"jcr:primaryType": "cq:PageContent",
"jcr:mixinTypes": [
    "cq:LiveRelationship",
    "mix:versionable"
],
"jcr:createdBy": "admin",
"jcr:title": "Magazine",
"jcr:versionHistory": "e5b69fe5-9e4d-42e6
"cq:template": "/conf/wknd/settings/wcm/t
"cq:lastRolledout": "2020-09-30T17:38:21.
"jcr:predecessors": [
    "aala715d-3ccb-4f6c-ad55-927bfelfccea'
```

],

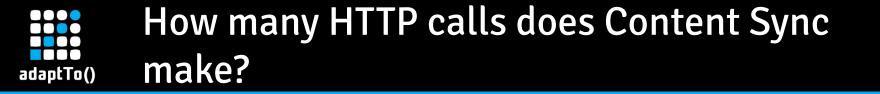
"jcr:created": "2023-07-03T11:58:33.909+0
"cq:lastModified": "2020-09-30T17:38:06.7
"jcr:description": "Read articles about a
"jcr:baseVersion": "aala715d-3ccb-4f6c-ad
"jcr:isCheckedOut": true,



# What can I sync?

# Any authorable content

- Pages
- Assets
- Experience Fragments
- Content Fragments
- Tags
- /conf/\* data like templates, CF models, etc.



 Ballpark estimation is O(N) where N is the number of content resources (cq:Page, dam:Asset, etc.)

 e.g., it takes an HTTP call to sync a cq:Page resource, so to sync a tree of N cq:Page nodes the tool will make minimum N HTTP calls.



### Live Demo



- The default algorithm is based on the cq:lastModified/jcr:lastModified timestamp
- Users can plug in their custom strategies by implementing com.adobe.acs.commons.contentsync.UpdateStr ategy interface



- https://adobe-consulting-services.github.io/acs-aemcommons/features/contentsync/index.html
- <u>https://github.com/Adobe-Consulting-Services/acs-aem-commons</u>
  - since v6.2.0