



# AEM – Developer Friendly Tools

*Listing of AEM tools that makes developers life easier*

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# Browser Plugins

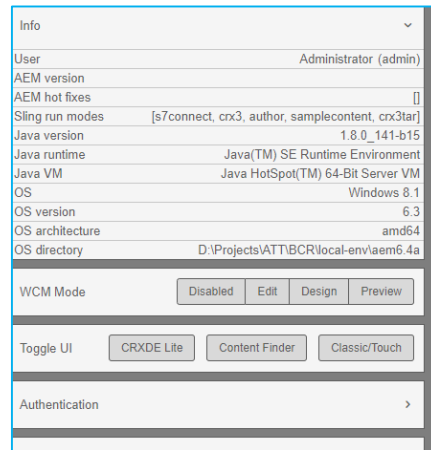
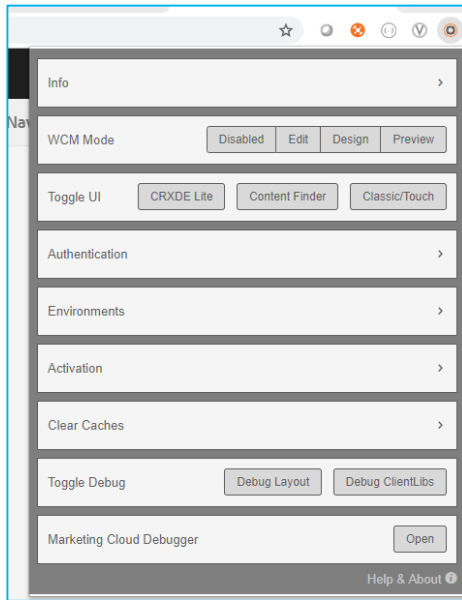
# Chrome extension for AEM developers



This is a collection of tools and links to help the daily AEM developer work a little faster.

## Features:

- Shows the user, AEM, Sling, Java & OS details of the instance
- Helps to toggle between edit, design & preview WCM modes or disable WCM mode
- Helps to toggle between Touch, Classic & CRXDE view
- Provides single click activate / deactivate functionality
- Has links to delete the client libs and compiled jsp caches



More details at

<https://chrome.google.com/webstore/detail/aem-developer/hgjhcngmldfpgpakbnffnbnmcmohfmfc>

# AEM Chrome Plug-in



Provides a devtools panel for AEM development. This plugin includes an in-browser Log Tracer and also has Adaptive Forms development tooling

## Features:

- Log Tracer surfaces per-request server side data quickly and conveniently into your Chrome dev tools panel
- Adaptive Forms: a robust suite of AEM Adaptive Form developer tools!

The screenshot displays the AEM Chrome DevTools interface. The top panel shows the Log Tracer with a table of requests. The bottom panel shows the Adaptive Forms section with a 'BindRef Errors' tab. A green banner indicates 'No BindRef errors detected'. Below this, there are sections for 'Field with incorrect bindRef value:', 'Fields missing a bindRef property:', and 'Fields with incorrect minOccurs value:'. The bottom-most panel shows a debug log for a JCR-SQL2 statement.

Status	URL	Method	Queries	Resp. Time
200	http://localhost:4502/home/users/B/BxD-WyoW3NEvtg4gzm.infinity.json	GET	0	20m
200	http://localhost:4502/content/we-retail/ca/en/experience/_jcr_content/cont...	GET	0	23m
200	http://localhost:4502/content/we-retail/ca/en/experience/_jcr_content/cont...			
200	http://localhost:4502/content/we-retail/ca/en/experience/_jcr_content/cont...			
200	http://localhost:4502/content/we-retail/ca/en/experience/_jcr_content/cont...			
200	http://localhost:4502/content/we-retail/ca/en/experience/_jcr_content/cont...			
200	http://localhost:4502/content/we-retail/ca/en/experience/_jcr_content/cont...			

GET http://localhost:4502/content/we-retail/ca/en/experience/\_jcr\_content/contexthub.commerce.smartlists.js

Log (12) Request Progress (89) Queries (1) Logger Names

Download Search Logs

• DEBUG org.apache.jackrabbit.oak.query.QueryEngineImpl

Parsing JCR-SQL2 statement: SELECT \* FROM [social:asiResource] AS c WHERE (pathnameSource.type = 'commerce/smartlist' AND ISDESCENDANTNODE(c, '/content/usergenerated/asi/jcr/etc/commerce/smartlists') AND c.[userIdentifier] = 'admin') ORDER BY [smartlist\_default\_b] DESC, [timestamp] DESC

More details at

<https://chrome.google.com/webstore/detail/aem-chrome-plugin/ejdcnikffjleeffpigeikhccpepplaode>

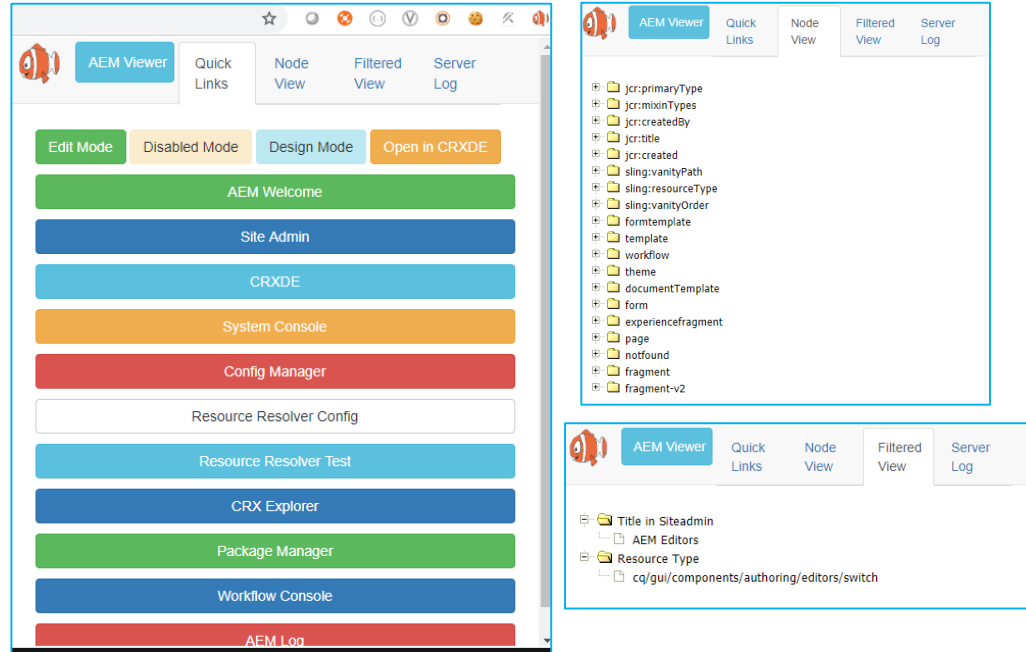
# AEM Viewer



An extension which helps developers and testers to quickly check information about a page which is hosted in Adobe AEM/Day CQ.

## Features:

- The result has been split into two views , first tab shows the RAW data and the second tab shows the Skimmed Data .
- Intention is to show data in a non geeky way in the "Skimmed Data" tab and dumping the raw data in the "RAW Data" tab.



More details at

<https://chrome.google.com/webstore/detail/aem-viewer/hjacgomkpcmhaoahmgijfpakaocchmm>

# CQ Helper



With this tool, you can say "goodbye" to the days of cluttered bookmark menus full of links to individual CQ tools.

## Features:

- It allows you to make a single bookmark to each of the CQ environments you regularly work in, then use the menu to jump between different tools provided by CQ.
- For example, if you're currently viewing CRXDE Lite in your browser, you can open the menu and click Felix Console to quickly open a new tab with Felix console on the same server.
- Additionally, it provides common shortcuts used when browsing pages in author mode.



More details at

<https://addons.mozilla.org/en-US/firefox/addon/cq-helper>

# How to develop Browser Extensions for AEM



This blog post gives detailed instructions on how to develop an AEM browser extension for chrome and firefox

## Key details:

- Has the sample code for developing a simple browser extension for opening a published page from Author instance
- Covers all the steps from creating the code, extension icon to downloading the created plugin as zip

```
{
  "manifest_version": 2,
  "name": "Access and Edit",
  "description": "Access and Editing Tool for Adobe Experience Manager",
  "version": "1.0",

  "browser_action": {
    "default_icon": "pencil.png"
  },
  "permissions": [
    "tabs",
    "http://*/",
    "https://*/"
  ],
  "background": {
    "scripts": ["eaem.js"]
  }
}
```

```
(function(){
  var authorPrefix = 'http://localhost:4502';

  chrome.browserAction.onClicked.addListener(function(tab) {
    chrome.tabs.getSelected(null, function(tab){
      var parser = document.createElement('a');
      parser.href = tab.url;

      var path = "";

      if(parser.pathname.indexOf("/cf") == 0){
        path = parser.pathname + parser.hash + parser.search;
      }else{
        path = "/cf#" + parser.pathname + parser.search;
      }

      path = authorPrefix + path;
      chrome.tabs.create({url : path});
    });
  });
})();
```

More details at

<http://experience-aem.blogspot.com/2015/01/aem-browser-extension-to-open-publish-page-in-author.html>



# Content Migration



# AMPLEXOR's Content Package Tool for AEM



A Content Package Tool (CPT), it is ideal for multilingual content management.

## Advantages of this tool:

- With its familiar user interface built in the updated AEM Touch-Enabled UI, this tool enables any content author to create content packages in a fast and easy-to-use way, without requiring any technical skills
- It offers a simple three step process to create content package

The image displays three overlapping dialog boxes from the AMPLEXOR's Content Package Tool for AEM. Each dialog box has a title bar with a close button (X) and a 'Path' input field with a folder icon. The 'Add page' dialog includes checkboxes for 'Activate', 'Sub pages', 'Language copies', and 'Live copies'. The 'Add label' dialog includes checkboxes for 'Activate', 'Language copies', and 'Live copies'. The 'Add tag' dialog includes an 'Activate' checkbox and 'Cancel' and 'Save' buttons at the bottom right.

More details at

<https://blog.amplexor.com/digitalexperience/en/tips-and-tools-to-import-and-export-content-in-aem>

# aemsync



An AEM (Adobe CQ) Synchronization Tool. This tool pushes code changes to AEM instance(s) upon a file change.

## Key Features are

- There is no vault dependency.
- It can push to multiple instances at the same time (e.g. author and publish).
- IDE/editor agnostic.
- Works on Windows, Linux and Mac.

## Installation

With **npm** do:

```
npm install aemsync -g
```

## Usage

### Commandline

Usage:  
aemsync [OPTIONS]

#### Options:

-t <targets>	Default is http://admin:admin@localhost:4502
-w <path_to_watch>	Default is current
-p <path_to_push>	Path to push directly; used instead of above, no watching takes place
-e <exclude_filter>	Micromatch exclude filter; disabled by default
-i <sync_interval>	Update interval; default is 300ms
-u <packmgr_path>	Package manager path; default is /crx/packmgr/service.jsp
-d	Enable debug mode
-h	Displays this screen

```
aemsync -t http://admin:admin@localhost:4502,http://admin:admin@localhost:4503 -w ~/workspace/my_project
```

More details at

<https://github.com/gavoja/aemsync>

# VLT

The Jackrabbit FileVault tool (VLT) is a tool developed by The Apache Foundation that maps the content of a Jackrabbit/AEM instance to your file system.

## Features

- A command line tool that has similar functions as source control system client (such as a Subversion (svn), providing normal check-in, check-out and management operations, as well as configuration options for flexible representation of the project content.
- Comes with AEM, but is not installed by default. To install, copy the archive file from the cq-quickstart/opt/filevault, extract it and add **<archive-dir>/vault-cli-<version>/bin** to your environment **PATH**



```
Jackrabbit FileVault [version 3.1.16] Copyright 2013 by Apache Software
Foundation. See LICENSE.txt for more information.

Usage:
  vlt [options] <command> [arg1 [arg2 [arg3] ..]]

Global options:
  -xjcrlog <arg>           Extended JcrLog options <omit argument for help>
  -xdavex <arg>            Extended JCR remoting options <omit argument for help>
  --credentials <arg>      The default credentials to use
  --update-credentials      if present the credentials-to-host list is updated
                           in the ~/.vault/auth.xml
  --config <arg>           The JcrFs config to use
  -v <--verbose>           verbose output
  -q <--quiet>             print as little as possible
  --version                print the version information and exit
  --log-level <level>     the log4j log level
  -h <--help> <command>  print this help

Commands:
  export                   Export the Vault filesystem
  import                   Import a Vault filesystem
  checkout <co>           Checkout a Vault file system
  status <st>             Print the status of working copy files and
                           directories.
  update <up>             Bring changes from the repository into the working
                           copy.
  info                    Displays information about a local file.
  commit <ci>             Send changes from your working copy to the
                           repository.
  revert <rev>            Restore pristine working copy file <undo most local
                           edits>.
  resolved <res>          Remove 'conflicted' state on working copy files or
                           directories.
  propget <pg>            Print the value of a property on files or
                           directories.
  proplist <pl>           Print the properties on files or directories.
  propset <ps>            Set the value of a property on files or directories.
  add                     Put files and directories under version control.
  delete <del,rn>         Remove files and directories from version control.
  diff <di>               Display the differences between two paths.
  rcp                     Remote copy of repository content.
  sync                    Control vault sync service
  console                 Run an interactive console
```

More details at

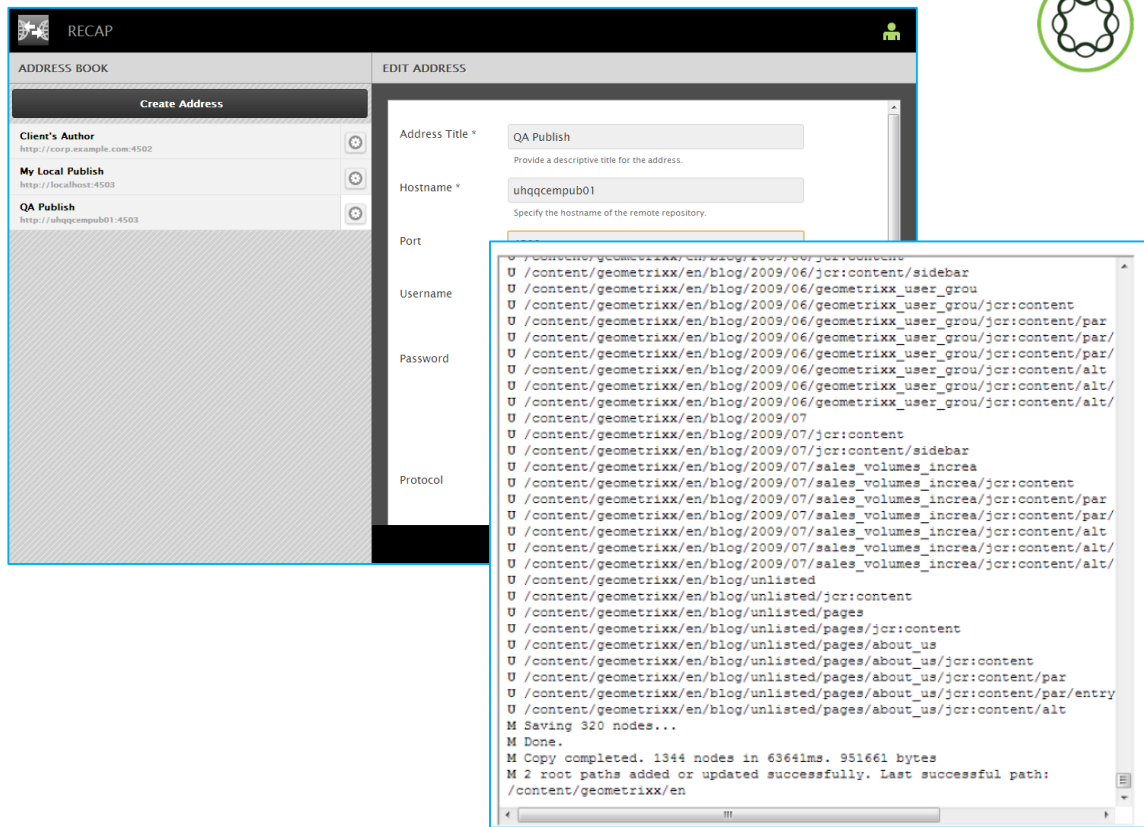
<https://helpx.adobe.com/experience-manager/6-3/sites/developing/using/ht-vltool.html>

# Recap

An rsync tool for CRX! Recap is based on the 'vlt rcp' command, but focuses on providing a simple web interface for syncing content between CRX instances, using a browser instead of the command-line.

## Primary Objective:

- To enable a team of CQ developers in a shared testing environment to work more easily with content creators and QA testers to troubleshoot bugs and other issues on their local machines without having to waste as much time as they currently do with the overhead of creating packages specific to the problem, downloading those packages, and installing them locally.



More details at

<http://adamcin.net/net.adamcin.recap/>

# Grabbit



The purpose of this tool is to provide a fast and reliable way of copying content from one Sling (specifically Adobe CQ/AEM) instance to another.

## How it works:

- Grabbit creates a stream of data using Google's Protocol Buffers aka "ProtoBuf".
- Protocol Buffers are an extremely efficient (in terms of CPU, memory and wire size) binary protocol that includes compression.
- Doing a continuous stream avoids the latency issues. Depending on the size and nature of the data, as well as network latency, can achieve speed improvements ranging from 2 to 10 times that of Recap/vlt

```
~~~~~GRABBIT~~~~~  
  
Enter Client [http(s)://server:port] to initiate Grabbit request  
localhost:4502  
  
Client Username :  
  
Client Password :  
Enter "n" for new job request, "m" to monitor, or "q" to quit  
█
```

```
~~~~~Jobs kicked off~~~~~  
  
Transaction ID: 2146784730021051176  
Job IDs: 2252362278037316410  
  
~~~~~Client configuration : Client : localhost:4502 Config: /Users/jeff.bornemann/Desktop/test.json~~~~~  
Enter "n" for new job request, "m" to monitor, or "q" to quit  
█
```

More details at

<https://github.com/TWCable/grabbit>

# aemigrate

A set of AEM migration utilities. It includes scripts for migration of asset binaries, asset properties, asset folders & handling tag hierarchies. These scripts are developed in Python

It includes:

- Utilities for handling asset binaries (uploading, downloading)
- Utilities for handling asset properties (extracting, updating, fetching the asset list)
- Utility for creating asset folder taxonomy
- Utilities for managing tags (creating, extracting)

```
Reading config path
Config path not defined. Using default path
Loading configuration file cfg/run_config.json
configuration parameters:
{
  "cq_protocol": "http",
  "cq_host": "localhost",
  "cq_port": "4502",
  "cq_user": "admin",
  "cq_password": "admin",
  "base_path": "/content/dam",
  "asset_json_node": "hits",
  "path_json_node": "jcr:path",
  "path_list": "in/paths_to_process.lst",
  "extract_properties": [
    "jcr:path",
    "jcr:content/jcr:lastModified"
  ],
  "properties_output": "out/properties_dump.csv",
  "trace_log": "logs/trace.log",
  "error_log": "logs/error.log",
  "status_log": "logs/status.log"
}

Initializing...
Loading configured path list for processing
Done... paths loaded:
/content/dam

Count: 1 paths loaded for processing
Fetching metadata of all assets for processing
```

More details at

<https://github.com/ashokkumarta/aemigrate>





# DevOps

# aem-cookbook



This cookbook installs and configures Adobe Experience Manager (AEM). Includes install recipes for author, publish & dispatcher module

## Features:

- Unattended installation of AEM author, publish, and dispatcher nodes.
- Automatically search for and configure AEM cluster members using chef searches.
- Configure replication agents using the replicator provider.
- Configure dispatcher farms with the farm provider.
- Deploy and remove AEM packages with the package provider.

## Supported Platforms

- CentOS

## Supported Versions

- AEM 6.0.0
- AEM 5.6.1
- AEM 5.6.0
- CQ 5.5.0

## Attributes

Key	Type	Description	Default
<code>['aem']['version']</code>	String	AEM version	<code>nil</code>
<code>['aem']['download_url']</code>	String	URL to AEM jar file	<code>nil</code>
<code>['aem']['license_url']</code>	String	URL to AEM license file	<code>nil</code>
<code>['aem']['dispatcher']['mod_dispatcher_url']</code>	String	URL to AEM dispatcher (.tar.gz or .so)	<code>nil</code>
<code>['aem']['dispatcher']['version']</code>	String	dispatcher module version	<code>nil</code>

More details at

<https://github.com/tacitknowledge/aem-cookbook>



# aemaint



A set of scripts and utilities to perform AEM maintenance activities. It includes script for performing tar compaction.

## Features:

- Automates the manual process of compaction
- Fully automated, checks for each step completion before reporting its status and moving to the next step
- Easy integration with automatic scheduling systems like Jenkins

```
./aem-compaction-run.sh localhost 4503 admin admin /opt/aem/crx-quickstart
```

```
aem-host:  hostname on which AEM is running
aem-port:  port on AEM is running
admin-id:  AEM admin user id
admin-passwd:  AEM admin password
aem-crx-quickstart-path: The base path at which AEM is installed
```

More details at

<https://github.com/ashokkumarta/aemaint>



# Development Utilities

# PyAEM



PyAEM is a Python client for Adobe Experience Manager (AEM) API.

Features includes python APIs for

- Content management – Create, update, Activate
- User management – Check, create user/group, add, remove permission
- Package management – Create, update, build, download, upload, install, replicate, delete
- Bundle management – Install, stop, start

```
pip install pyaem
```

```
import pyaem
```

```
aem = pyaem.PyAem('admin', 'password')
```

```
aem.create_path('/content/mysite')
```

```
aem.activate_path('/content/mysite')
```

```
aem.does_user_exist('/home/users/m', 'myuser')
```

```
aem.create_user('/home/users/m', 'myuser', 'mypassword')
```

```
aem.add_user_to_group('myuser', '/home/groups/m', 'mygroup')
```

```
aem.does_group_exist('/home/groups/m', 'mygroup')
```

```
aem.create_group('/home/groups/m', 'mygroup')
```

```
aem.create_package('mygroup', 'mypackage', 1.2.3)
```

```
aem.update_package('mygroup', 'mypackage', 1.2.3, acHandling = 'true')
```

```
aem.update_package_with_filter('mygroup', 'mypackage', 1.2.3, '/content/dam', acHandling = 'true')
```

```
aem.build_package('mygroup', 'mypackage', 1.2.3)
```

```
aem.download_package('mygroup', 'mypackage', 1.2.3, '/mnt/ephemeral0')
```

```
aem.upload_package('mygroup', 'mypackage', 1.2.3, '/mnt/ephemeral0', force = 'true')
```

```
aem.install_package('mygroup', 'mypackage', 1.2.3)
```

```
aem.replicate_package('mygroup', 'mypackage', 1.2.3)
```

```
aem.delete_package('mygroup', 'mypackage', 1.2.3)
```

```
aem.change_password('myuser', 'mynewpassword')
```

```
aem.publish_package('myuser', 'http://somehost:8080', 'publish')
```

```
aem.upload_file('/welcome.html')
```

```
aem.start_bundle('mybundle')
```

```
aem.stop_bundle('mybundle')
```

```
aem.install_bundle('mybundle', 1.2.3, '/mnt/ephemeral0')
```

More details at

<https://github.com/wildone/pyaem>

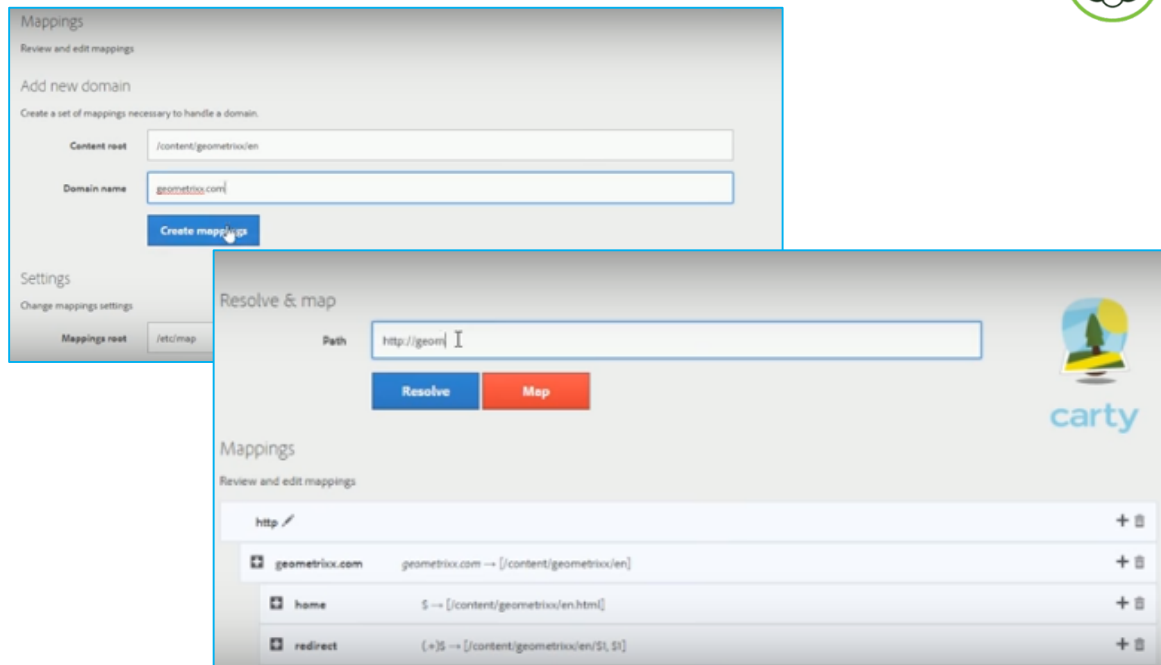
# Carty



Carty is an integrated tool to create, edit, review and test Sling mappings for Adobe CQ/AEM.

## Advantages:

- No more switching between Felix Console and CRX DE tabs to check if the mappings finally work as expected.
- No more guessing why given URL resolves to a content path or vice versa - Carty will tell exactly which entries has been applied to a given path and why.
- You may use an automatic mapping generator (just enter domain and content path) or manually edit your configuration if you need more precise control.



More details at

<http://cognifide.github.io/Carty/>

# SlingQuery



SlingQuery is a Sling resource tree traversal tool inspired by the jQuery.

## Features:

- Useful for operations to traverse the resource tree
- Provides flexible filtering syntax
- Supports lazy evaluation of the query result
- Immutable SlingQuery object which is thread-safe
- And its fluent, friendly, jQuery-like API.

**Note: This tool has been contributed to Apache Sling project**

## Apache Sling Query

This module is part of the [Apache Sling](#) project.

SlingQuery is a Sling resource tree traversal tool inspired by the [jQuery](#).

See the full documentation on [Apache Sling website](#).

More details at

<http://cognifide.github.io/sling-query/>

# AEM Rules for SonarQube



This tool is intended to find common bugs and bad smells specific for AEM development.

Documentation of each rule is available from SonarQube interface after plugin installation

This ruleset helps enforce

- Good practices in AEM coding
- Prevent possible bugs in AEM project development
- Sling & slice related coding Rules



**AEM Rules**  
for SonarQube

## Manual

1. [Download](#) `aemrules-x.y.jar` or build AEM Rules for SonarQube plugin.
2. Paste it into `sonarqube/extensions/plugins` directory.
3. Restart SonarQube.
4. Go to rules section and activate AEM rules in your profile.

More details at

<http://cognifide.github.io/aem-rules-for-sonarqube/>

# Maven CRX Plugin



This is a plugin designed for Maven 2.x+ based builds to automate CRX compliant packages deployment.

It allows to set up upload and install commands as a step in a build process speeding up entire development cycle

## Features:

- Uploads a selected artifact to a running CRX instance.
- Installs previously uploaded artifact in a running CRX instance.
- Activates (replicates and installs) previously uploaded artifact on all publish instances (requires CRX 2.3 or later).

```
cd [folder of your choice]
git clone git://github.com/Cognifide/Maven-CRX-Plugin.git
cd Maven-CRX-Plugin
```

```
mvn clean install
```

## Usage

Set up POM file (check documentation for more configuration options):

```
(...)
<plugin>
  <groupId>com.cognifide.maven.plugins</groupId>
  <artifactId>maven-crx-plugin</artifactId>
  <version>1.0.3</version>
  <configuration>
    <url>${crx.url}</url>
    <user>${crx.username}</user>
    <password>${crx.password}</password>
  </configuration>
</plugin>
(...)
```

More details at

<http://cognifide.github.io/crx-plugin/>

# Slice



Slice is a framework which simplifies AEM development by using dependency injection pattern. It glues Sling and Google Guice together, allowing you to map resources to Java models seamlessly

## Features

- Lean and neat code, slicker design!
- Improved testability of code
- Improved maintenance of your code
- Easy to start with! Slice is easy to learn
- Faster development – with code reuse, dependency injection and simplicity
- Overall costs reduced!

## Usage

Add dependencies to your POM file:

```
(...)  
<dependency>  
  <groupId>com.cognifide.slice</groupId>  
  <artifactId>slice-core-api</artifactId>  
  <version>4.4.0</version>  
</dependency>  
<dependency>  
  <groupId>com.cognifide.slice</groupId>  
  <artifactId>slice-core</artifactId>  
  <version>4.4.0</version>  
</dependency>  
<dependency>  
  <groupId>com.cognifide.slice</groupId>  
  <artifactId>slice-mapper</artifactId>  
  <version>4.4.0</version>  
</dependency>  
<dependency>  
  <groupId>com.cognifide.slice</groupId>  
  <artifactId>slice-mapper-api</artifactId>  
  <version>4.4.0</version>  
</dependency>  
(...)
```



# Slice

## Prerequisites

- AEM / Apache Sling 2
- Maven 2.x, 3.x

More details at

<http://cognifide.github.io/slice/>



# cq5tools



A collection of scripts to allow one to administrate parts of CQ5 without having to use the GUI and thus avoid RSI. Especially useful when handling many instances on many machines.

## The tool set includes

- `change-cq5-passwords` - change the admin password in the five (CQ5.4) or the two (CQ5.5) places one needs to change it for it to be changed everywhere
- `cq5-replication` - display replication agent logs, test replication agent configuration, and create new replication agents all from the command line
- `cq5-users` - create an initial set of users

```
change-cq5-passwords --newpw s3cr3t
```

```
cq5-replication --command=report --pw=s3cr3t
```

Name	Blocked	Paused	Enabled	Title	transportUri	Description
flush				Dispatcher Flush	http://localhost:8000/dispatcher/invalidate.cache	
publish	false	false	true	Default Agent	http://localhost:4503/bin/receive?slings:authRequestLo	
publish_reverse	false	false	true	Reverse Replication Agent	http://localhost:4503/bin/receive?slings:authRequ	
static			false	Static Agent	static:///	

```
cq5-replication --command=create --pw=s3cr3t --agents cage1 --fqdn cage.example.com
```

```
Copying publish author agent to cage1
```

```
cq5-replication --command=create --pw=s3cr3t --agents cloud1,cloud2 --fqdn cloud.example.com
```

```
Copying publish author agent to cloud1
```

```
Copying publish author agent to cloud2
```

```
cq5-replication --command=report --pw=s3cr3t
```

Name	Blocked	Paused	Enabled	Title	transportUri
cage1	false	false	true	cage1	http://cage1.cage.example.com:4503/b
cloud1	false	false	true	cloud1	http://cloud1.cloud.example.com:4503
cloud2	false	false	true	cloud2	http://cloud2.cloud.example.com:4503
flush				Dispatcher Flush	http://localhost:8000/dispatcher/inv
publish	false	false	true	Default Agent	http://localhost:4503/bin/receive?sl
publish_reverse	false	false	true	Reverse Replication Agent	http://localhost:4503/bin/recei
static			false	Static Agent	static:///

More details at

<https://github.com/42Lines/cq5tools>



# Integrated Development Environment (IDE) Support

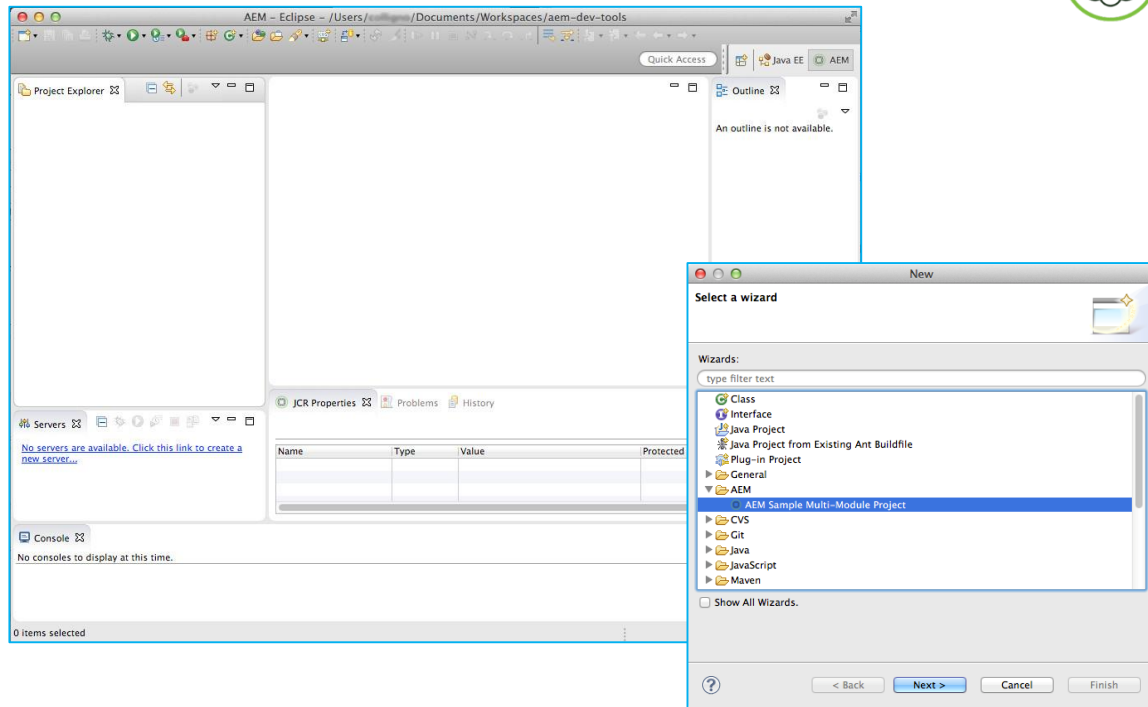
# AEM Developer Tools for Eclipse



It offers several features that make AEM development easier

## Features:

- Seamless integration with AEM instances through Eclipse Server Connector.
- Synchronization for both content and OSGi bundles.
- Debugging support with code hot-swapping capability.
- Simple bootstrap of AEM projects via a specific Project Creation Wizard.
- Easy JCR properties edition.



More details at

<https://helpx.adobe.com/in/experience-manager/6-3/sites/developing/using/aem-eclipse.html>

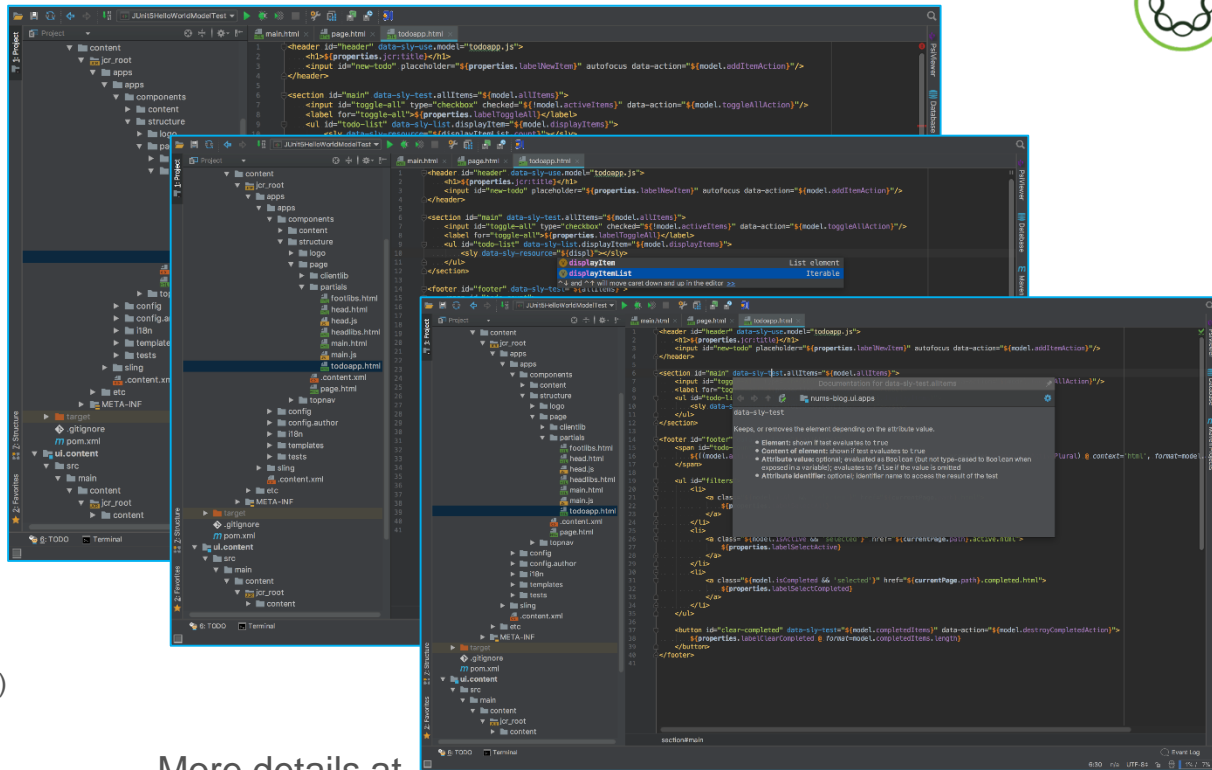
# AEM IntelliJ Plugin



## IntelliJ Platform plugin for Adobe Experience Manager

### Features:

- JCR roots auto-detection
- HTL/Sightly support (HTML files under jcr\_root directory)
- syntax validation and highlighting
- auto-completion, inspections and documentation for:
  - block attributes (data-sly-\*)
  - global objects (properties, currentPage,...)
  - properties (jcr:title, cq:lastModified, ...)
  - built-in expression options (context, ...)
  - display contexts (html, scriptToken, ...)
  - use objects, block variables, template parameters, ...



More details at

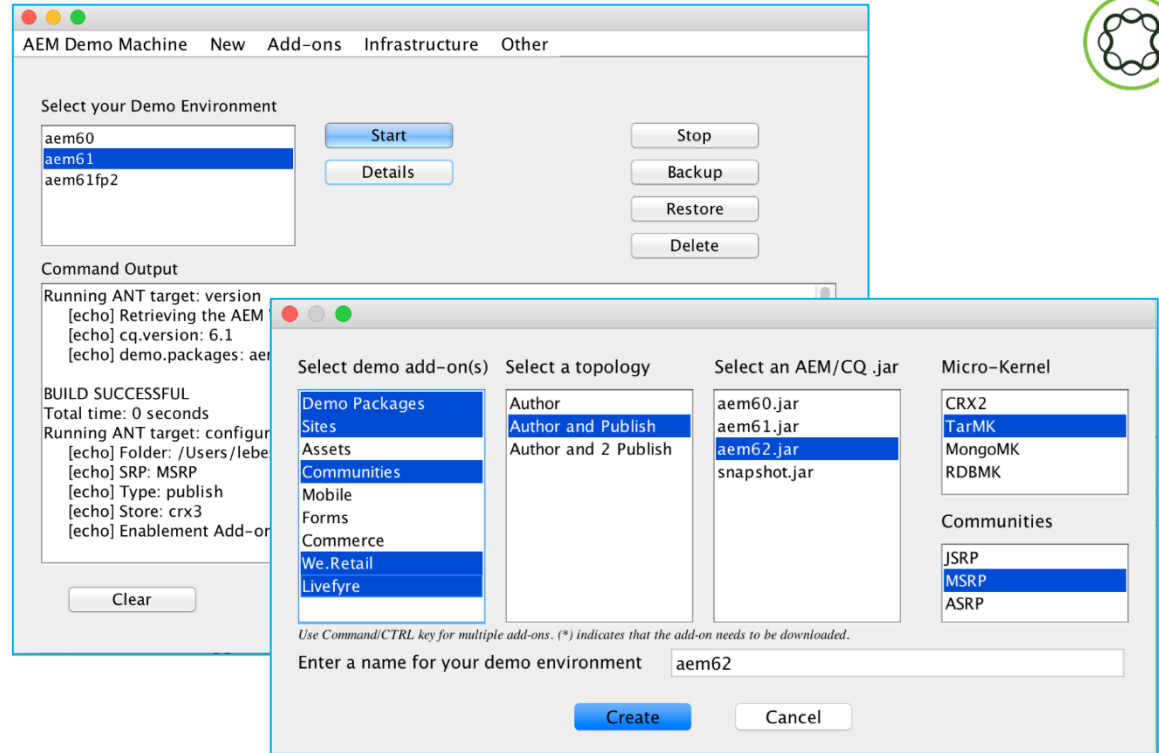
<https://plugins.jetbrains.com/plugin/9269-aem-intellij-plugin>

# AEM Demo Machine



The AEM Demo Machine consists of Graphical user interface / User Interface, scripts and packages to install, to manage and to run demos for AEM [Sites], Assets, Communities, Mobile and Forms, which in most situations require more setup than starting a QuickStart instance, and sometimes additional infrastructure such as MongoDB, SOLR, MySQL, FFMPEG or email servers.

The AEM Demo Machine was tested successfully with CQ 5.5, CQ 5.6.1, AEM 6.0, AEM 6.1, AEM 6.2, AEM 6.3 and current internal 6.4 snapshots, on Windows, OS X, Linux and Docker.



More details at

<https://github.com/Adobe-Marketing-Cloud/aem-demo-machine/wiki>

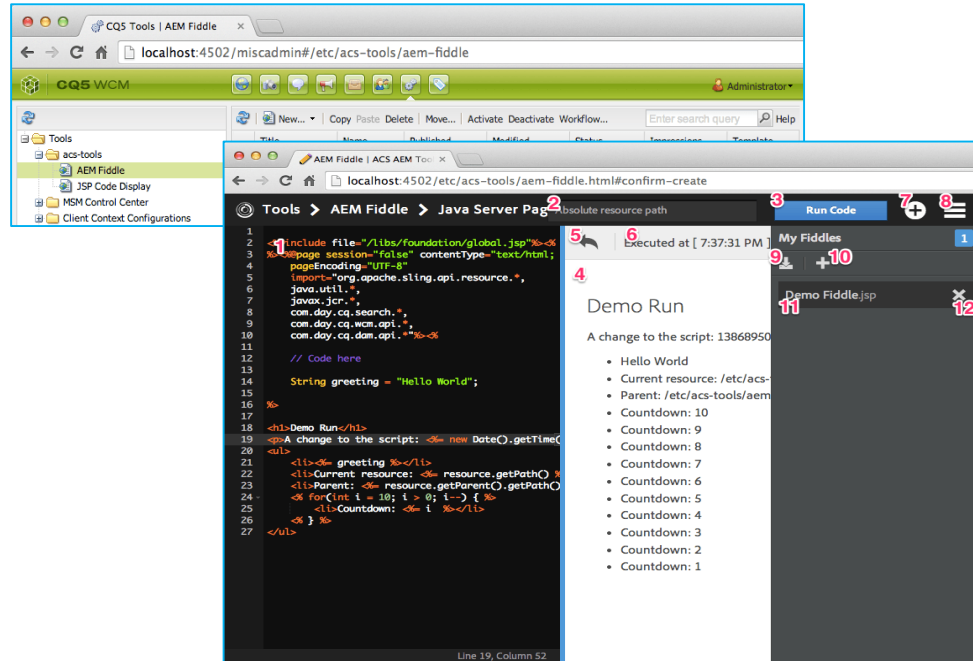
# AEM Fiddle



The intent of AEM Fiddle is to provide an accessible, developer friendly environment for experimentation, POCs and other one-off tasks. AEM Fiddle is not intended to be used as a full fledged application development environment.

## Advantages:

- AEM Fiddle's fundamental advantage over other AEM IDEs is: time to execution.
- Most AEM IDE/development tooling requires the orchestration of scripts, resources and sling:resourceTypes.
- AEM Fiddle allows you to begin coding and executing your code in seconds (literally).



More details at

<https://adobe-consulting-services.github.io/acs-aem-tools/features/aem-fiddle/index.html>



# Testing

# SecureCQ

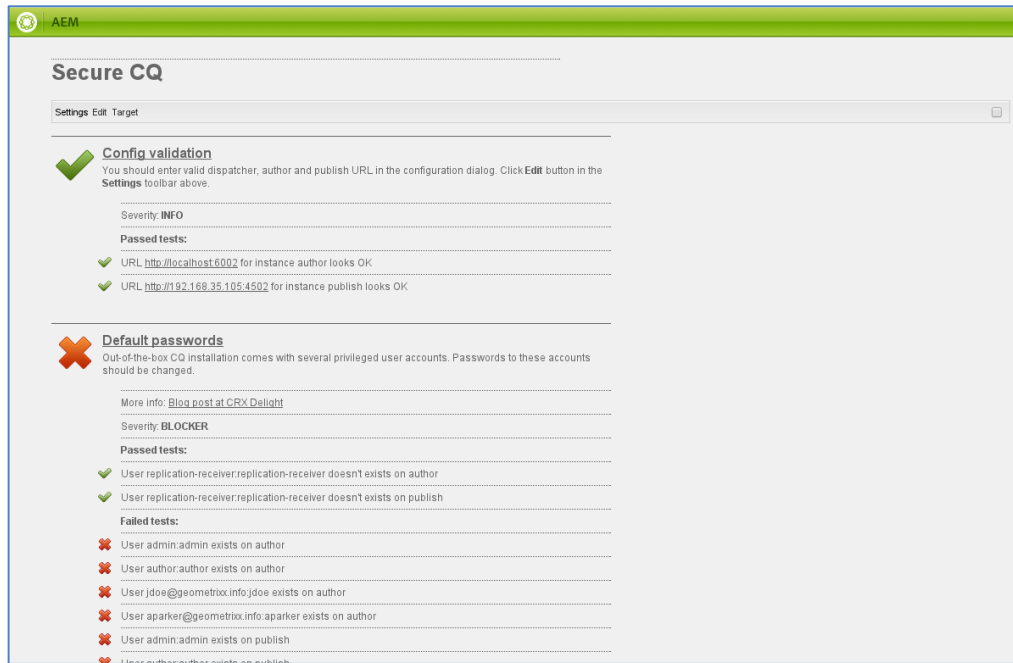


Secure CQ is a tool which can be used to find the most popular security problems in your CQ instance.

It tests both author, publish instances and also validates the dispatcher

It checks for

- if the default passwords are changed
- if there are no unnecessary protocols enabled after being published
- if the the administrator console access is disabled
- if content-grabbing selectors are restricted on the dispatcher
- Other checks



More details at

<http://cognifide.github.io/secure-cq/>



# Tough Day



It is a an application that allows you to stress test the limits of your AEM instance. It can be run out of the box with the default test suite or it can be configured to fit your testing needs.

## Default use cases tested:

- Create pages and live copies for them (including rollouts)
- Get Homepage
- Run queries in querybuilder
- Create asset hierarchies
- Delete assets

```
java -jar toughday2.jar --host=localhost
```

## Getting Help

Tough Day 2 offers a wide range of help options that can be accessed from the command line. For example:

```
1 | java -jar toughday2.jar --help_full
```

By using a yaml configuration file:

```
1 | globals:
2 |   host : localhost
3 | tests:
4 |   - add : CreateAssetTreeTest
5 |     properties:
6 |       name : FirstAssetTree
7 |   - add : CreateAssetTreeTest
8 |     properties:
9 |       name : SecondAssetTree
```

```
- add : CreateAssetTreeTest
  properties :
    name : UploadAsset
    weight : 5
    base : 3
    foldertitle : IAmAFolder
    assettitle : IAmAnAsset
    count : 100
```

More details at

<https://helpx.adobe.com/experience-manager/6-3/sites/developing/using/tough-day.html>

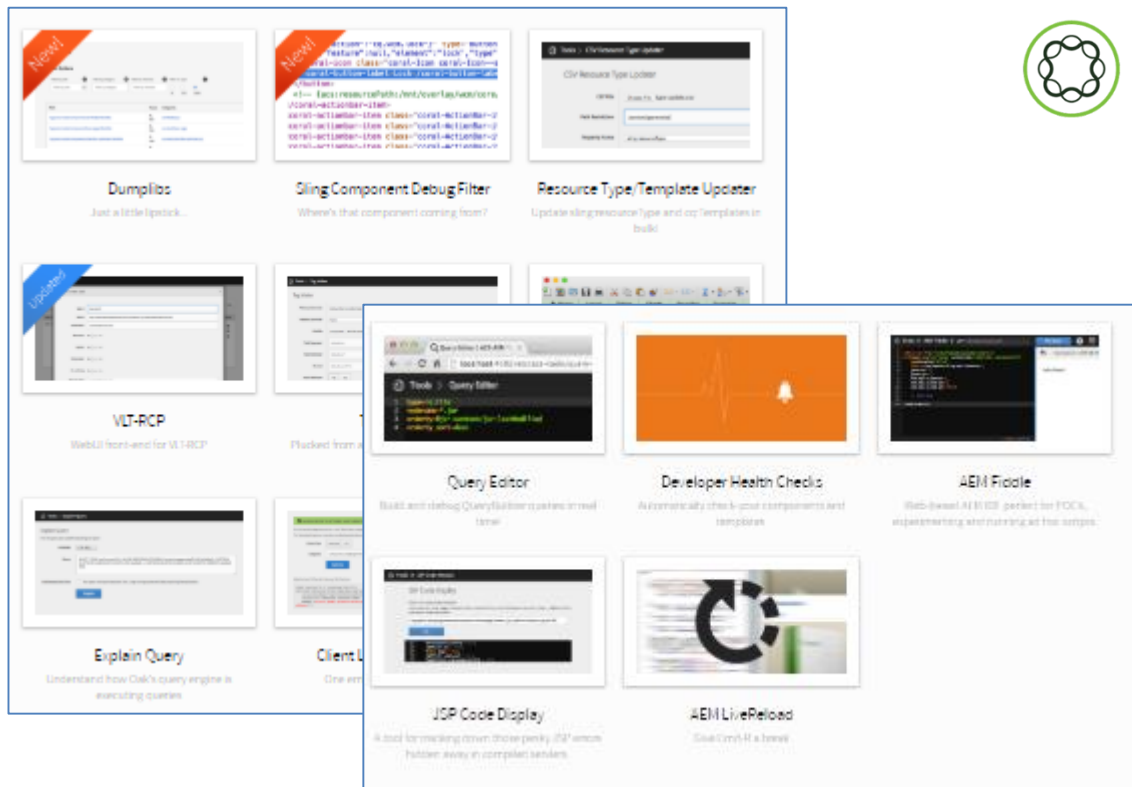


# ACS Tools

# ACS AEM Tools

A growing set of tools maintained by Adobe Consulting Services. These tools are meant to make developers life easier.

Note: These tools are not recommended to be deployed to Production and are meant only for developers use



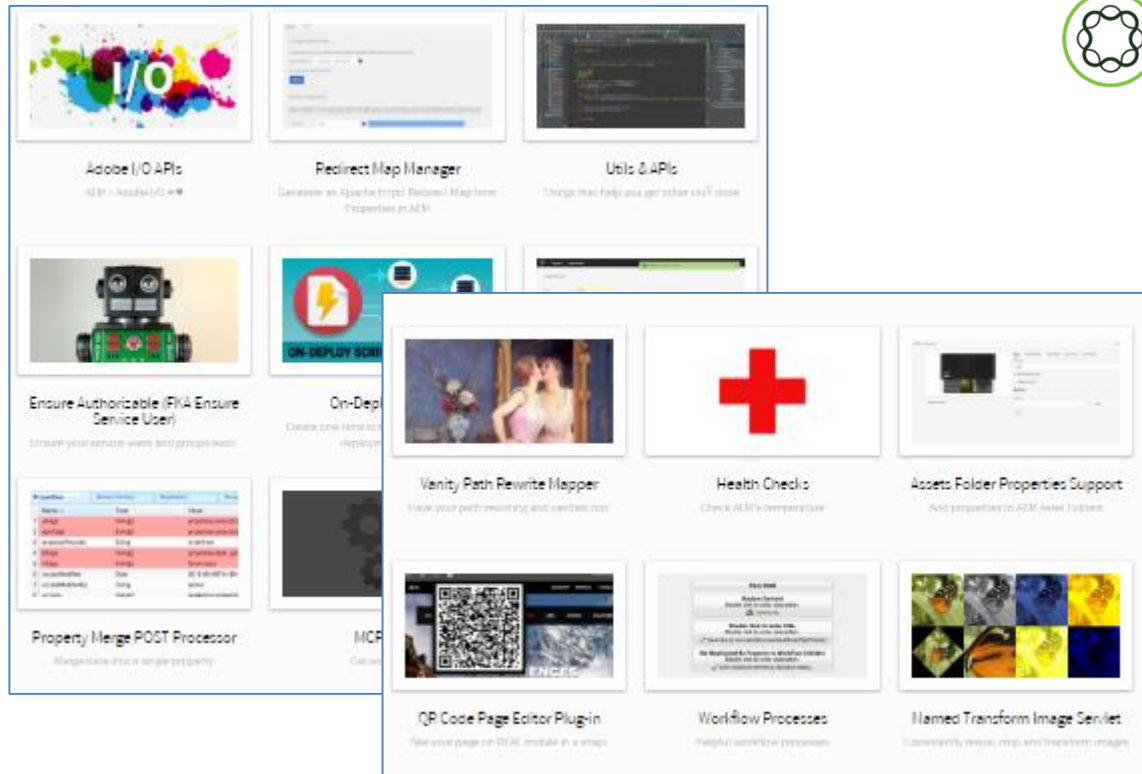
More details at

<https://adobe-consulting-services.github.io/acs-aem-tools/>

# ACS AEM Commons

A growing set of utilities & reusable components maintained by Adobe Consulting Services; which can be used as-is or leveraged as a base to build solutions on.

Note: Unlike ACS AEM Tools, the components under ACS AEM Commons can be deployed to production. However note that AEM support license do not cover any issues or bugs with these components.



More details at

<https://adobe-consulting-services.github.io/acs-aem-commons/>



# Thank You

Feedback and suggestions welcome. Please write to  
ashokkumar\_ta / ashokkumar.ta@gmail.com