



**adaptTo()**

EUROPE'S LEADING AEM DEVELOPER CONFERENCE

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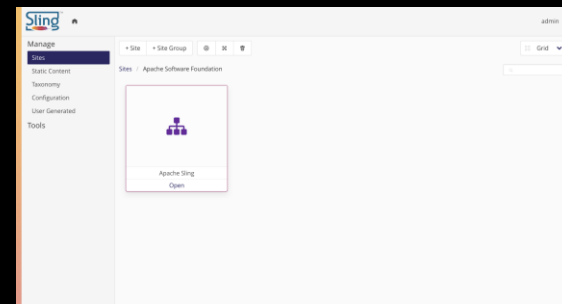
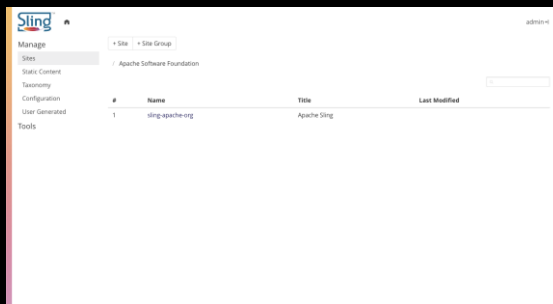
# Sling CMS: Building a Simple CMS on Apache Sling

Dan Klco, Adobe



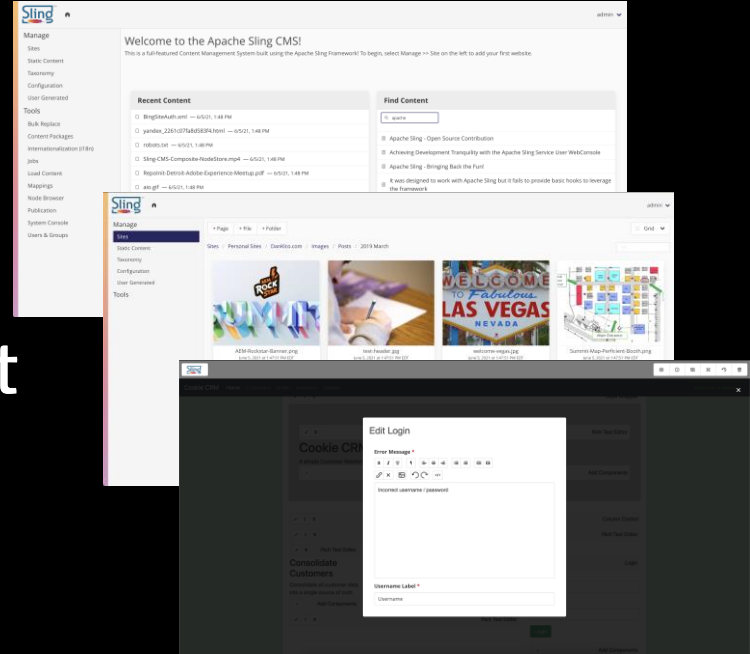
Wait, doesn't Adobe have a CMS?

# Sling CMS: Quick History



# What is Sling CMS?

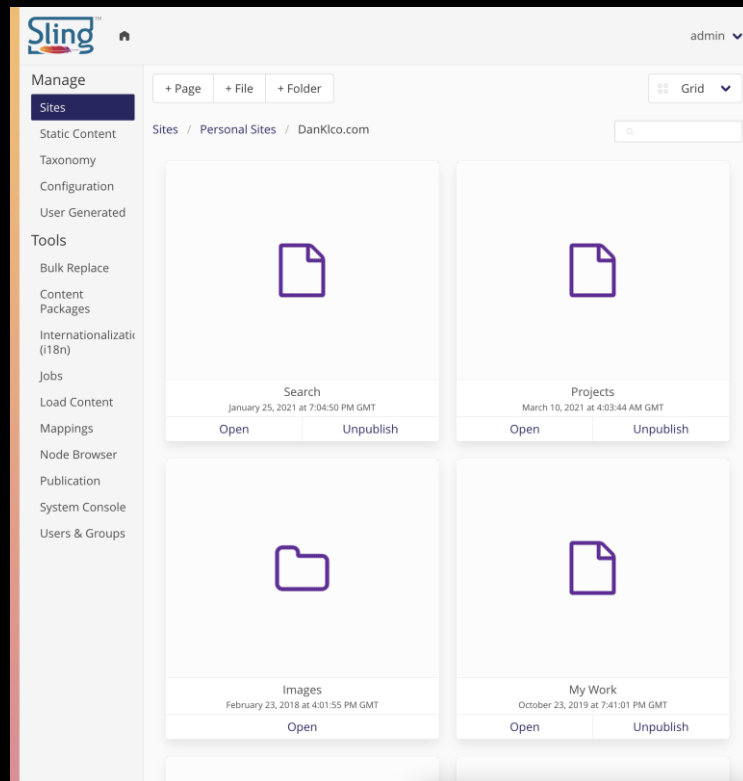
- Simple and lightweight
- Built on Apache Sling + Feature Model
- Built with Apache Sling best practices
- Free and Open Source



# What is Sling CMS good at?

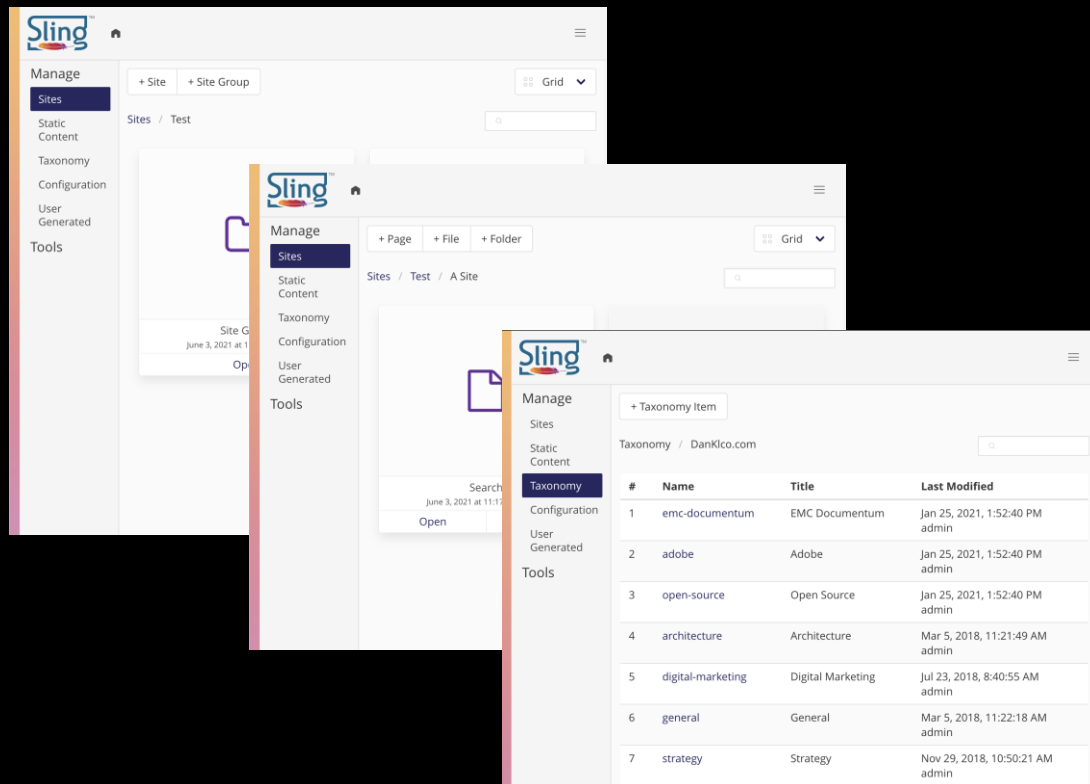
- Single Tenant – Multi-Site Setups
- Docker Deployments
- Asset Support (Metadata Extraction, Thumbnail Generation, Image Compression)
- Drag & Drop WYSIWYG Authoring
- Content-heavy vs interaction heavy sites
- Component and Template Framework

- **Sites / Static Content**
  - Pages
  - Folders
  - Files
- **Taxonomy**
- **User Generated Content**
- **Configuration**
  - File
  - Templates
  - Components
- **Tools**



# Sling CMS Content Types

- Sites / Site Groups
- Folders
- Pages
- Files
- Taxonomies



The image displays three overlapping screenshots of the Sling CMS user interface, illustrating different content management views:

- Top Screenshot (Sites View):** Shows the 'Manage' section with options for '+ Site' and '+ Site Group'. The breadcrumb path is 'Sites / Test'.
- Middle Screenshot (Pages/Folders View):** Shows the 'Manage' section with options for '+ Page', '+ File', and '+ Folder'. The breadcrumb path is 'Sites / Test / A Site'.
- Bottom Screenshot (Taxonomy View):** Shows the 'Manage' section with a '+ Taxonomy Item' button. The breadcrumb path is 'Taxonomy / Danklco.com'. It features a table with the following data:
 

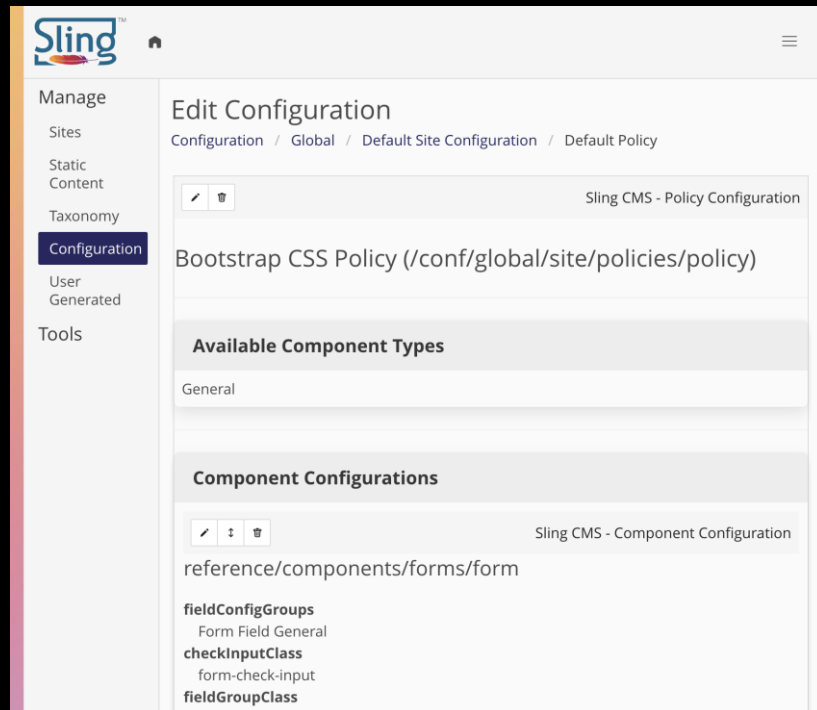
#	Name	Title	Last Modified
1	emc-documentum	EMC Documentum	Jan 25, 2021, 1:52:40 PM admin
2	adobe	Adobe	Jan 25, 2021, 1:52:40 PM admin
3	open-source	Open Source	Jan 25, 2021, 1:52:40 PM admin
4	architecture	Architecture	Mar 5, 2018, 11:21:49 AM admin
5	digital-marketing	Digital Marketing	Jul 23, 2018, 8:40:55 AM admin
6	general	General	Mar 5, 2018, 11:22:18 AM admin
7	strategy	Strategy	Nov 29, 2018, 10:50:21 AM admin

# Demo: Creating Content



## Configurations via Sling CA Configs:

- Page Templates
- Component Policies
- Component Configurations
- Rewriter Configuration
- File Transformations
- File Editors



The screenshot shows the Sling Configuration Editor interface. The left sidebar contains a navigation menu with the following items: Manage, Sites, Static Content, Taxonomy, Configuration (highlighted), User Generated, and Tools. The main content area is titled "Edit Configuration" and shows the breadcrumb path: Configuration / Global / Default Site Configuration / Default Policy. Below this, there is a configuration entry for "Sling CMS - Policy Configuration" with the path "/conf/global/site/policies/policy". Underneath, there is a section for "Available Component Types" with a "General" tab. Below that, there is a section for "Component Configurations" with a configuration entry for "Sling CMS - Component Configuration" with the path "reference/components/forms/form". The configuration details for this entry are as follows:

<b>fieldConfigGroups</b>	Form Field General
<b>checkInputClass</b>	form-check-input
<b>fieldGroupClass</b>	

# Demo: Creating a Template

# How do I get started?

## Download a Release

- Get it from Github or the Sling Site:  
<https://sling.apache.org/downloads.cgi>  
Run `java -jar [cms].jar` to start

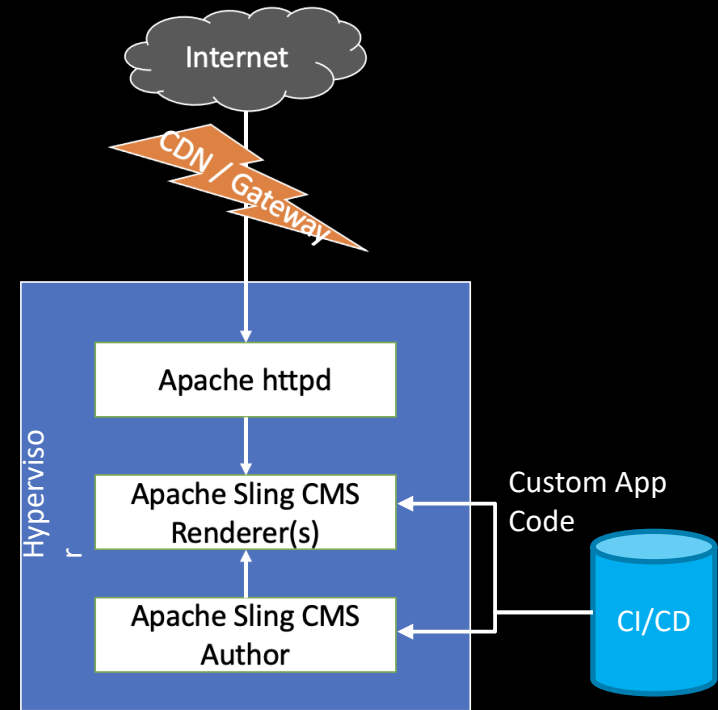
## Build from Source

- Clone  
<https://github.com/apache/sling-org-apache-sling-app-cms.git>
- Run `mvn clean install`
- Double click the jar at `./feature/target` to start

# Sling CMS Deployments: New Way

# Deploying Sling CMS – Traditional Way

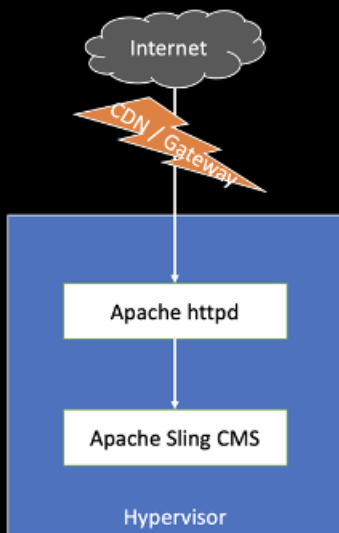
- Deploy as a traditional J2EE app
- Manual upgrades
- Infrastructure not source controlled



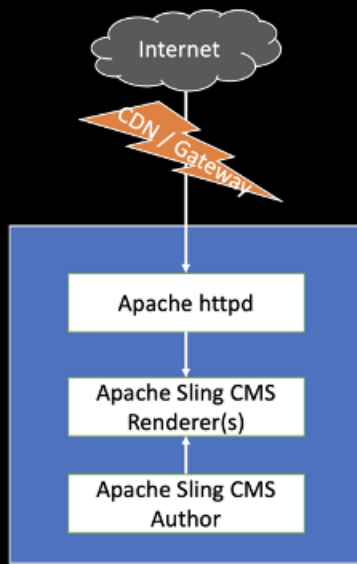
Traditional VM Deployment

# Deployment Models

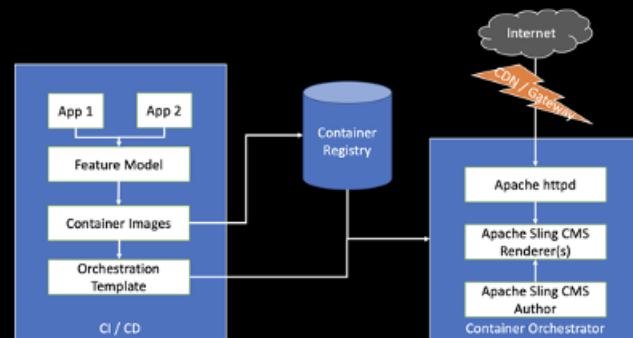
## Standalone



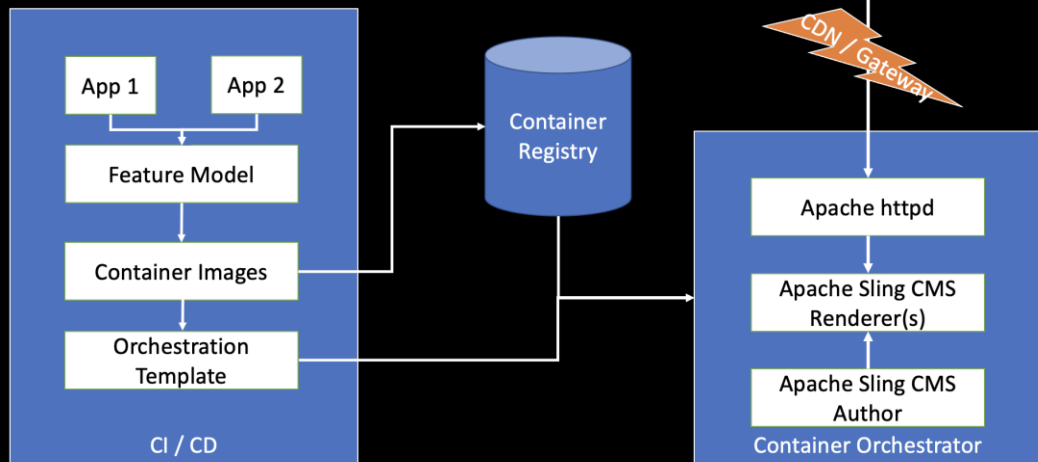
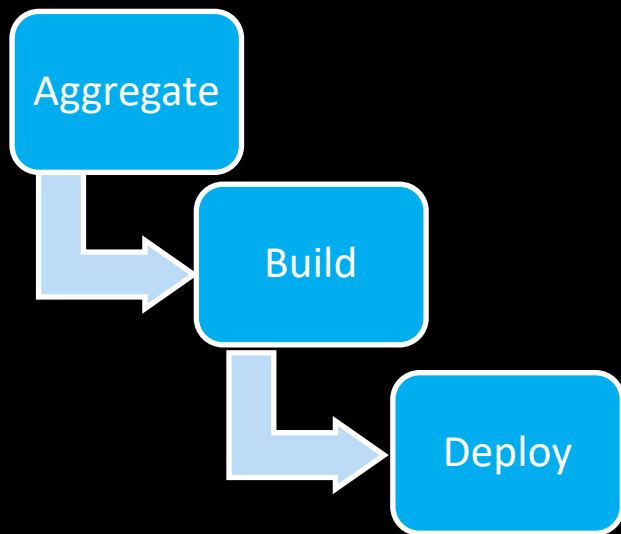
## Author - Renderer



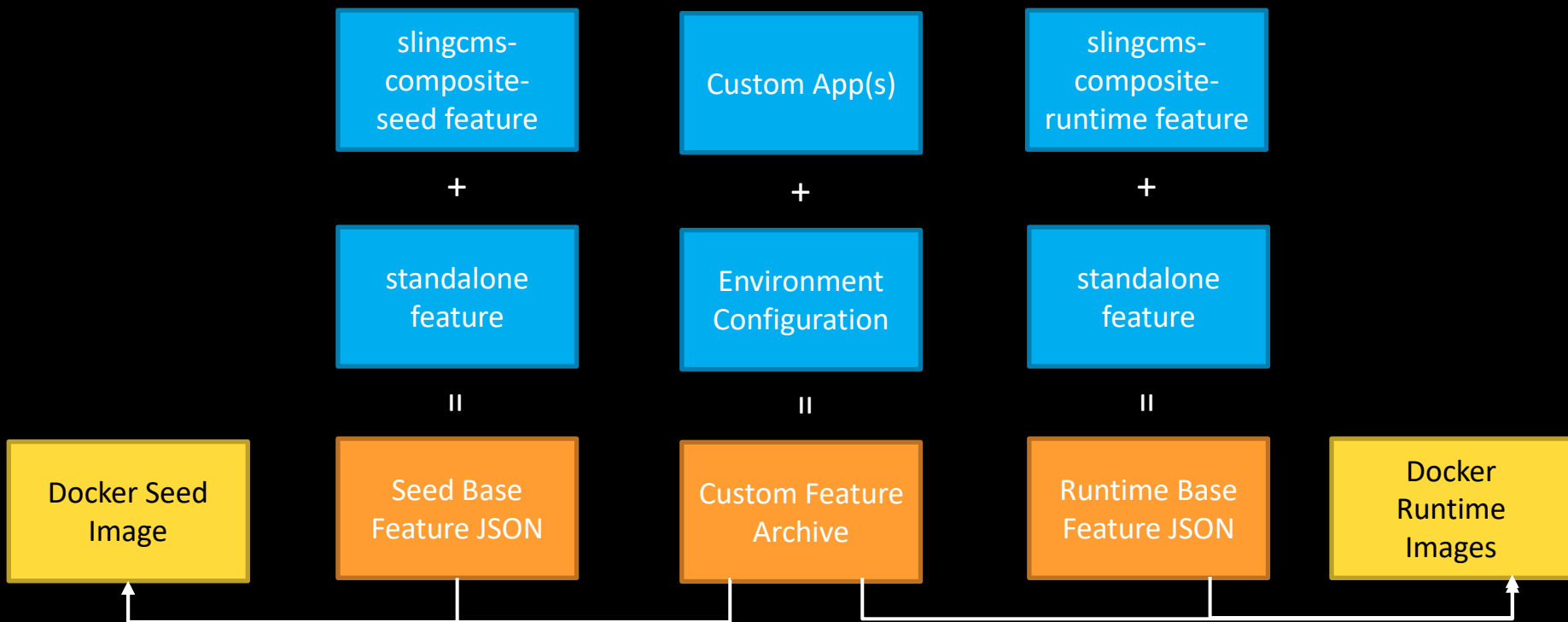
## Containerized Composite



# Deploying Sling CMS – Better Way

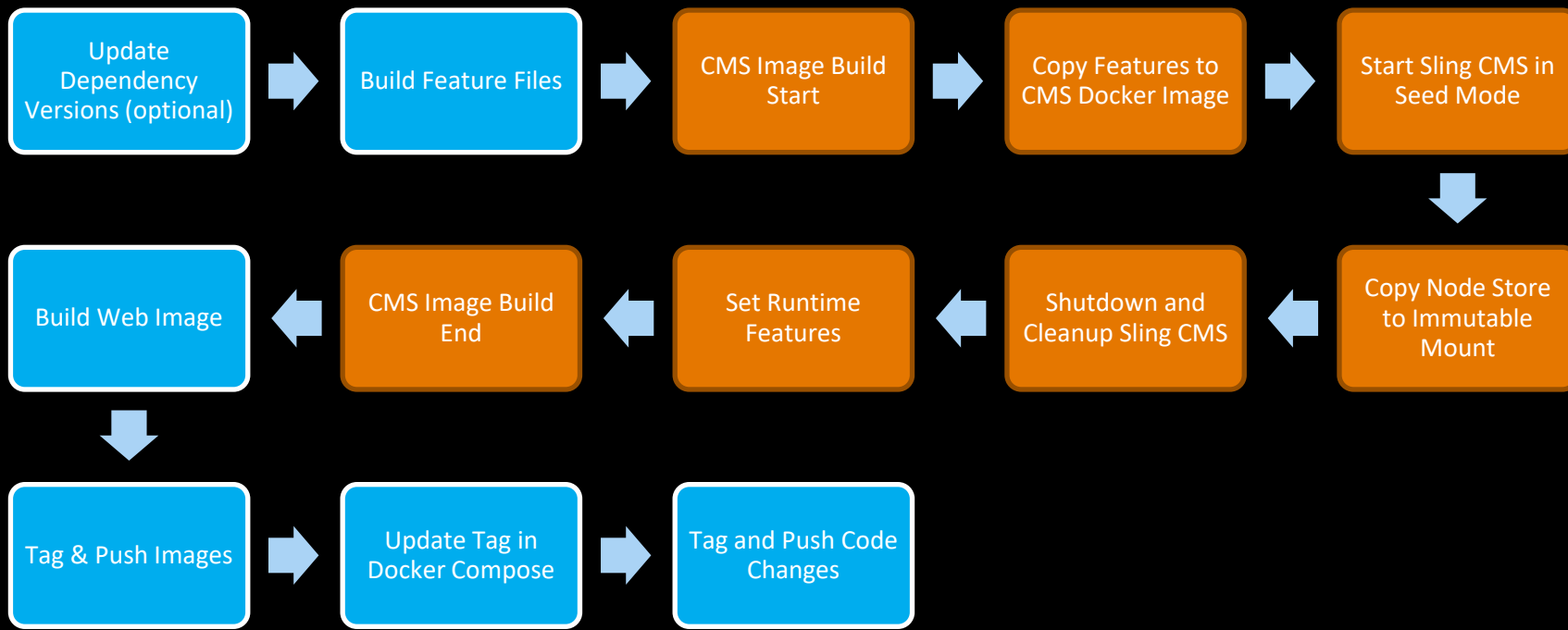


# Aggregating Features

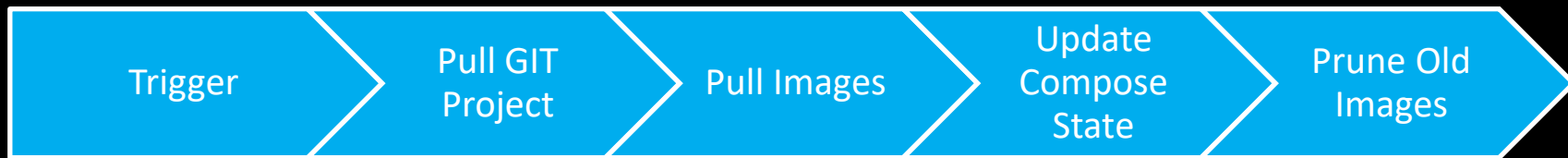




# Build Steps



# Deployment Steps



# End to End Demo

# Next Steps: Challenges of Cloud Scale

- Traditional App in Docker
- Only ~9/12 Factor App
- Embracing Containerization brings new problems

Questions?