Introduction to Cloud Manager

Objectives:

Describe Cloud Manager and the basic Cloud Manager terminologies

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- Set up programs
- Describe Cloud Manager Git
- Get started with Cloud Manager
- Push a release candidate to Cloud Manager

Cloud manager for Adobe Experience Manager (AEM)



Self Service Portal

Easily access & manage the cloud environment and CI/CD pipeline



Flexible Deployments

Schedule code deployments during specified time frames



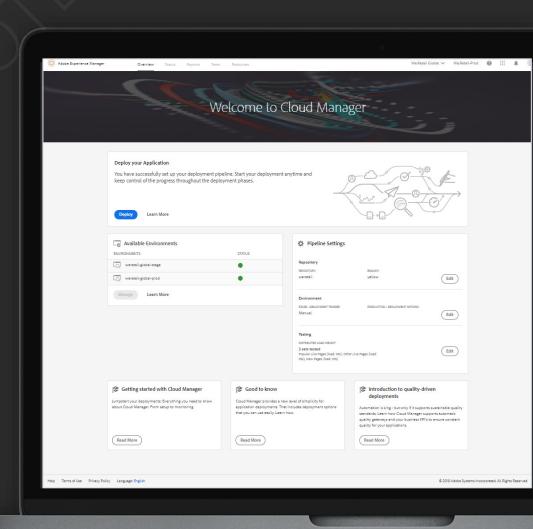
CI/CD Pipeline

Code inspection, performance testing, and security validation



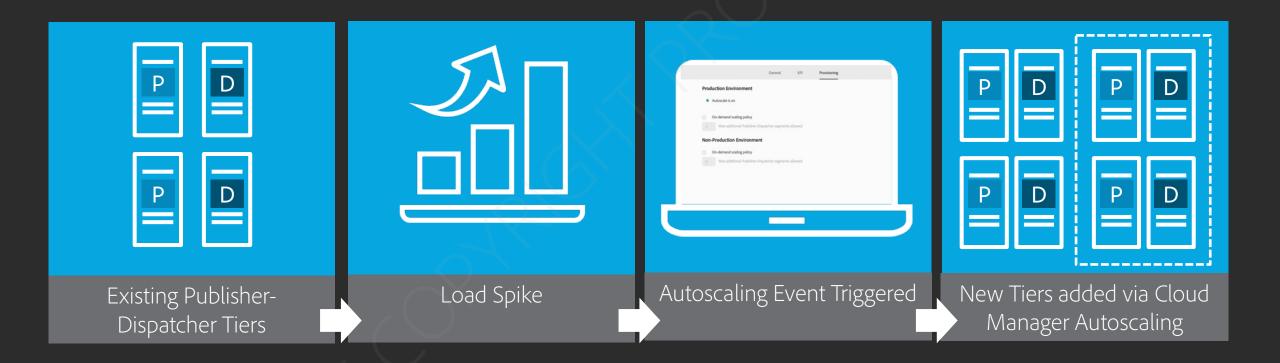
Auto-scaling

Detects the need for additional capacity during unexpected spikes





Autoscaling in action



Adobe

Cloud manager entities

AEM Cloud Manager

 Single entry point for the Operations & Developer Personas to create and manage components of AEMaaCS

Programs

Self-service creation of AEM applications (AEM Sites, AEM Assets) with associated code repository

Environments

Self-service creation of AEM environments (production and non-production – for example, demos, POC, training...)

Pipelines

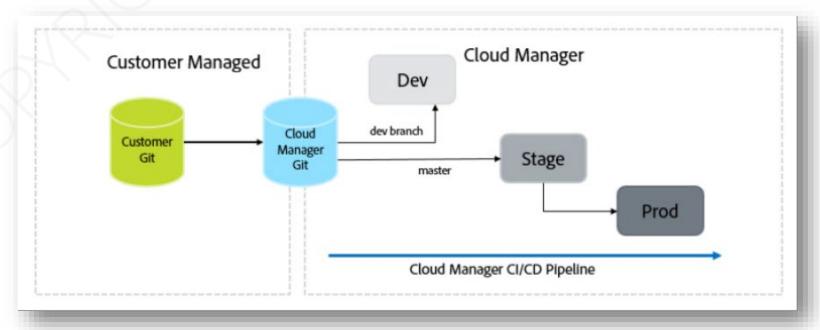
Self-service creation of CI/CD pipelines for best practices

Cloud Manager Terminology

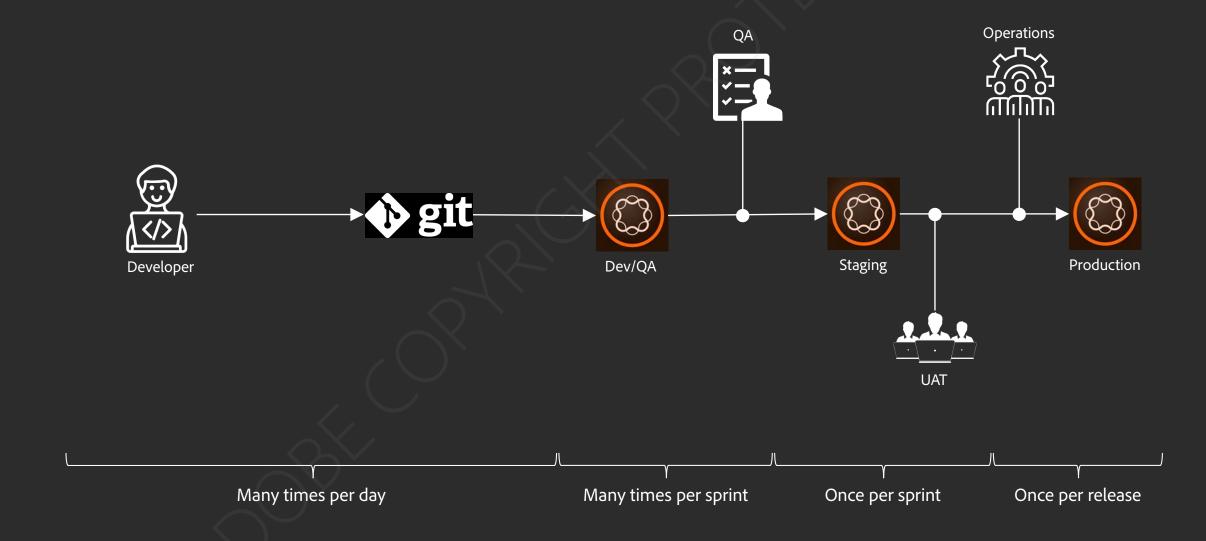
AEM Author Tier	Describes the authoring environment for Sites and Assets
AEM Publish Tier	Describes the publishing environment for Sites
Adobe Pipeline	Mechanism for publishing content from author to publish
Asset Microservices	Cloud-based digital asset processing service
AEM Image	Artifact that contains the AEM product code and customer code
Git repository	Location where customer code is stored

Loading custom code in AEM

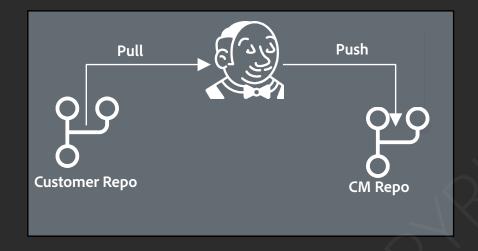
- Every Cloud Manager Program is bound to a single git repository
- Pipelines connect to a CM git branch
 - o Branches can be tested by a code quality pipeline
 - o Different Branches can be loaded onto different environments
- Production pipelines auto create a release tag

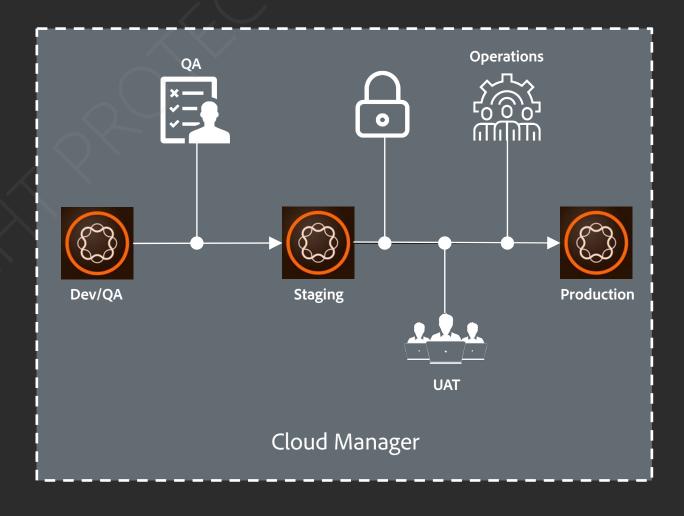


Traditional AEM deployment workflow



How does Cloud Manager fit in?



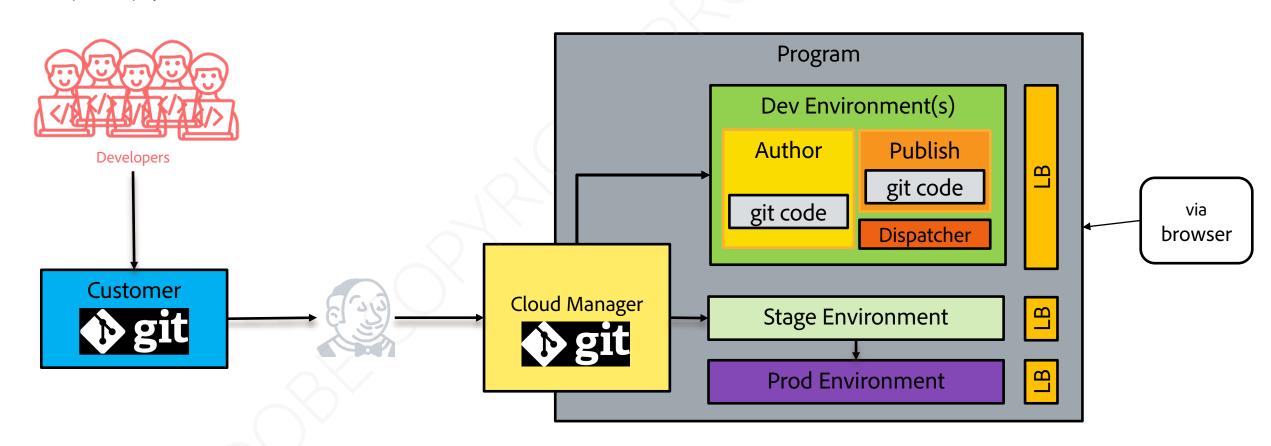


develop/release

master

AEM as a Cloud Service code flow

Develop Maven project on AEMaaCS Quickstart



Cloud Manager API

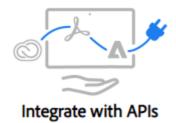
- Allows access to Cloud Manager programs, pipelines & environments by an authorized technical account
- Allows for integration of the Cloud Manager CI/CD pipeline with other systems
- Composed of two components:
 - An inbound HTTP-based API
 - Reads and manipulates the state of CI/CD pipelines
 - An outbound event system
 - Receives events when key events happen in CI/CD pipelines



Adobe I/O

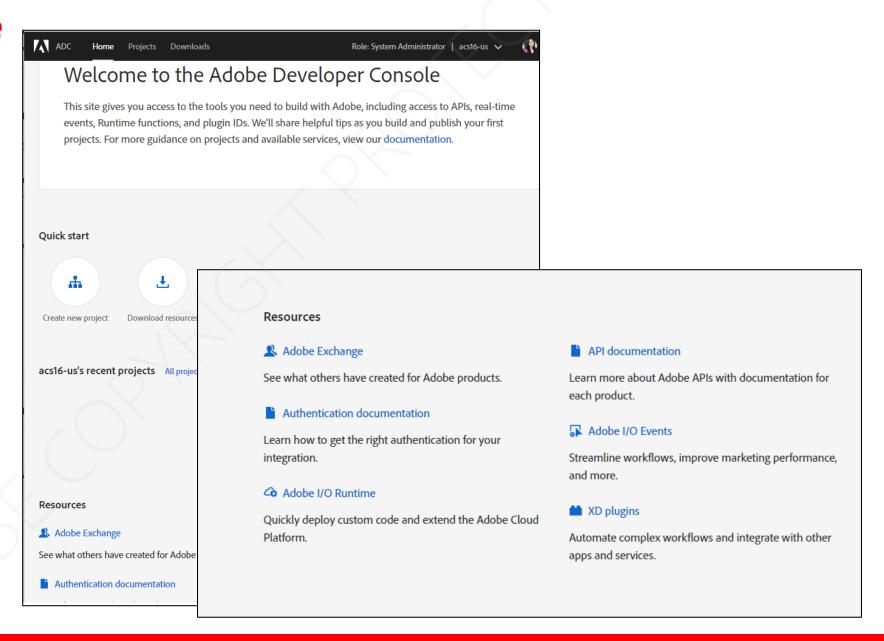
- Adobe developer's portal
 - Serverless platform
- Integrates and extend Adobe's cloud platform
- Allows to securely access Adobe's APIs
- Allows to respond to events across the platform





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Adobe I/O console



Adobe I/O CLI (aio) with Cloud Manager

Provides command line access to a variety of Adobe services Provides developers the ability to:

- Tail logs from AEMaaCS services
- Manage Cloud Manager pipelines from the CLI
- Installation

```
$npm install -g @adobe/aio-cli
$ aio plugins:install
@adobe/aio-cli-plugin-cloudmanager
```

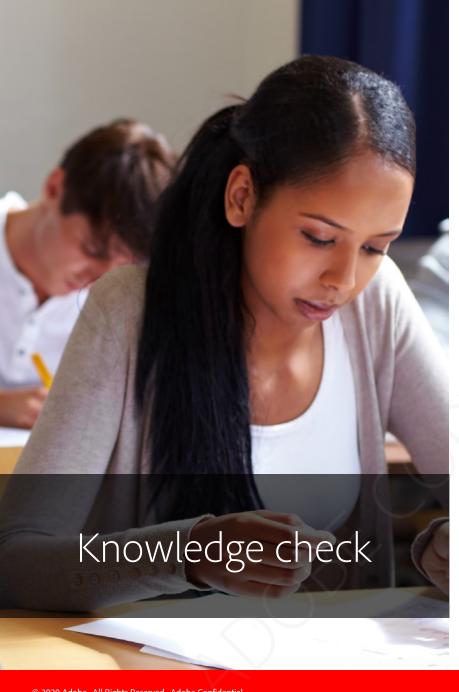
```
C:\WINDOWS\system32>npm install -g @adobe/aio-cli
                ted @hapi/joi@16.1.8: joi is leaving the @hapi organization and moving back to 'j
            recated @hapi/address@2.1.4: This version has been deprecated and is no longer suppor
    VARN deprecated @hapi/formula@1.2.0: This version has been deprecated and is no longer suppor
    WARN deprecated @hapi/topo@3.1.6: This version has been deprecated and is no longer supported
        deprecated @hapi/pinpoint@1.0.2: This version has been deprecated and is no longer suppo
        deprecated @hapi/hoek@8.5.1: This version has been deprecated and is no longer supported
        deprecated core-js@2.6.11: core-js@<3 is no longer maintained and not recommended for us
your dependencies to the actual version of core-js@3.
        deprecated fsevents@1.2.13: fsevents 1 will break on node v14+ and could be using insecu
   WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/r
     ARN deprecated request-promise-native@1.0.9: request-promise-native has been deprecated beca
 see https://github.com/request/request/issues/3142
   WARN deprecated har-validator@5.1.5: this library is no longer supported
::\Program Files\nodejs\aio -> C:\Program Files\nodejs\node modules\@adobe\aio-cli\bin\run
:\Program Files\nodejs\adobe -> C:\Program Files\nodejs\node modules\@adobe\aio-cli\bin\run
 deasync@0.1.20 install C:\Program Files\nodejs\node modules\@adobe\aio-cli\node modules\deasync
 node ./build.js
win32-x64-node-10` exists; testing
Binary is fine; exiting
```

aio-cli-plugin-cloudmanager commands

- aio cloudmanager
- aio cloudmanager:advance-current-execution PIPELINEID
- aio cloudmanager:cancel-current-execution PIPELINEID
- aio cloudmanager:delete-environment ENVIRONMENTID
- aio cloudmanager:delete-pipeline PIPELINEID
- aio cloudmanager:delete-program PROGRAMID
- aio cloudmanager:get-current-execution PIPELINEID
- aio cloudmanager:get-execution-step-details PIPELINEID EXECUTIONID
- aio cloudmanager:get-execution-step-log PIPELINEID EXECUTIONID ACTION
- aio cloudmanager:get-quality-gate-results PIPELINEID EXECUTIONID ACTION

aio-cli-plugin-cloudmanager commands

- aio cloudmanager:list-available-log-options ENVIRONMENTID
- aio cloudmanager:list-current-executions
- aio cloudmanager:list-environment-variables ENVIRONMENTID
- aio cloudmanager:list-environments
- aio cloudmanager:list-pipeline-variables PIPELINEID
- aio cloudmanager:list-pipelines
- aio cloudmanager:list-programs
- aio cloudmanager:open-developer-console ENVIRONMENTID
- aio cloudmanager:set-environment-variables ENVIRONMENTID
- aio cloudmanager:set-pipeline-variables PIPELINEID
- aio cloudmanager:start-execution PIPELINEID
- aio cloudmanager:tail-log ENVIRONMENTID SERVICE NAME



Which of the following are part of Cloud Manager Environment? Select the three correct answers.

A. Author Instance



B. LDAP

C. Publish Instance



D. Dispatcher 🗸



- Cloud Manager enables organizations to self-manage Experience Manager in the cloud
- Key Features
 - Self Service Interface
 - CI/CD Pipeline
 - Flexible Deployments
 - Autoscaling
- Continuous Integration Pipeline: Promote code changes and eliminate manual processes remotely