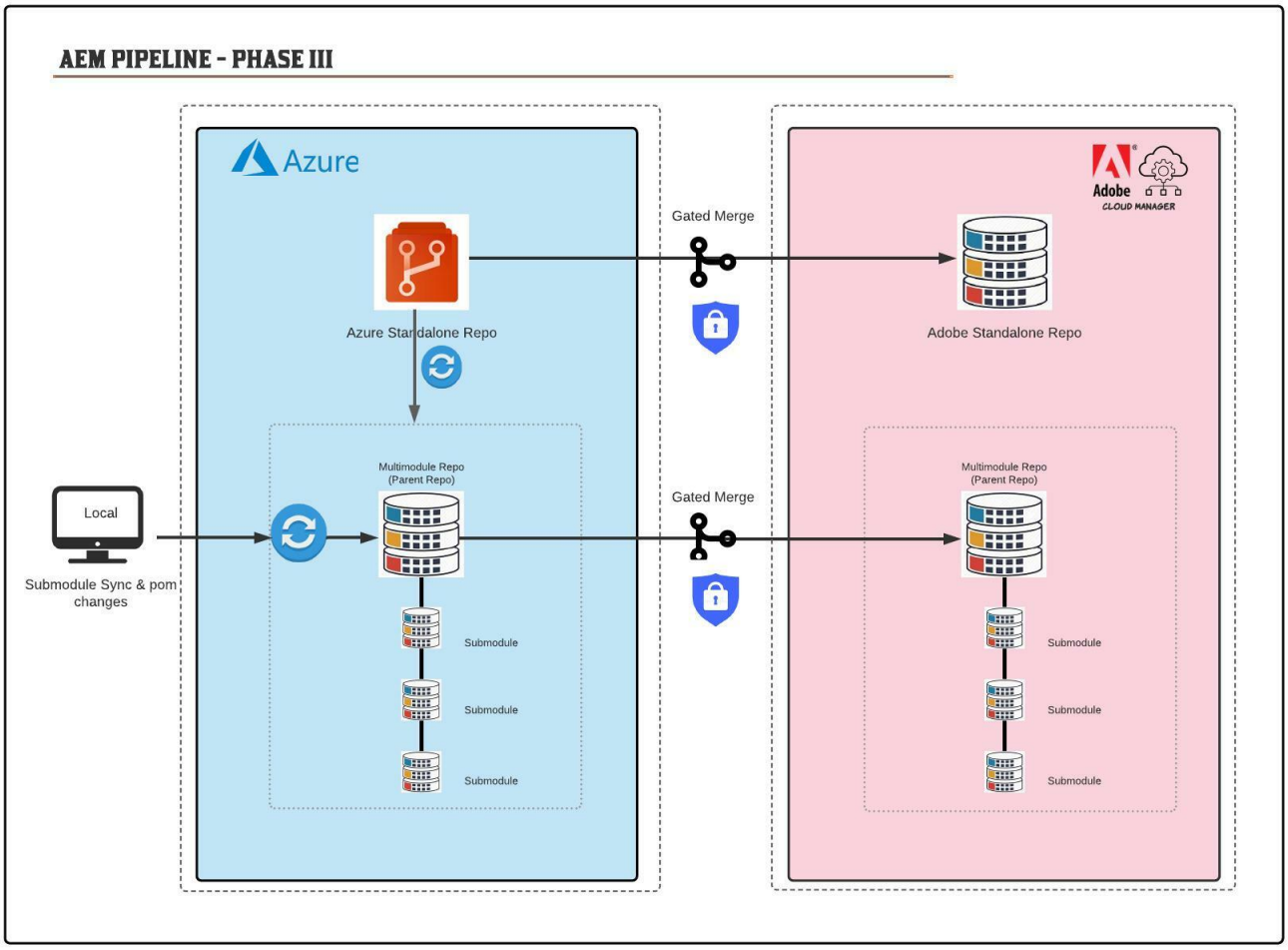
Implementation & Validation of Phase III: (Parallel syncing model)

Note: With reference to the requirement proposed by the AEM developers during the Working Session Call the below document has been created.

Phase III is to **merge the latest code from Azure to Adobe CM Environment** (Adobe Cloud Manger) for the production Deployment. The deal is update the Adobe Cloud Manager Standalone and the Multi-Module Repos from Azure

Below is the step-wise process of the Phase III implementation at a high-level:

1. In order to achieve the objective initially, the Azure Multi-Module repo code has to be updated from local. The required submodule in pom.xml file has to be uncommented and to be pushed to Azure Multimodule Repo to reflect the changes on local to Azure
2. Based on the mappings, the uncommented submodule will find it's respective Repo, URL & Branch in Azure and merges the code from Azure to Adobe Standalone Repo. This stage can be enabled with Gated Approvals.
3. Then Azure Multimodule Repo merges the code to Adobe Multimodule Repo. This stage is enabled with Gated Approvals.



The above Azure Standalone Repo indicates all the OUS-AWCM Repositories on Azure

After Phase II pipeline is implemented, when the code is ready on Azure Standalone Repo Master branch, Phase III process starts

Azure Multi-module Repo is cloned from Adobe CM to mirror the Remote environment

Phase III Implementation:

The updated plan to achieve the above Architecture through an automated pipeline for Phase III.

Note: Though the tasks have been altered compared to the initial plan proposal, the outcome would be the same.

Pre-requisites of the Pipeline:

As the Azure repo names are different from Adobe repo names, a mapping has to be done to these Repos in order to configure an automated pipeline

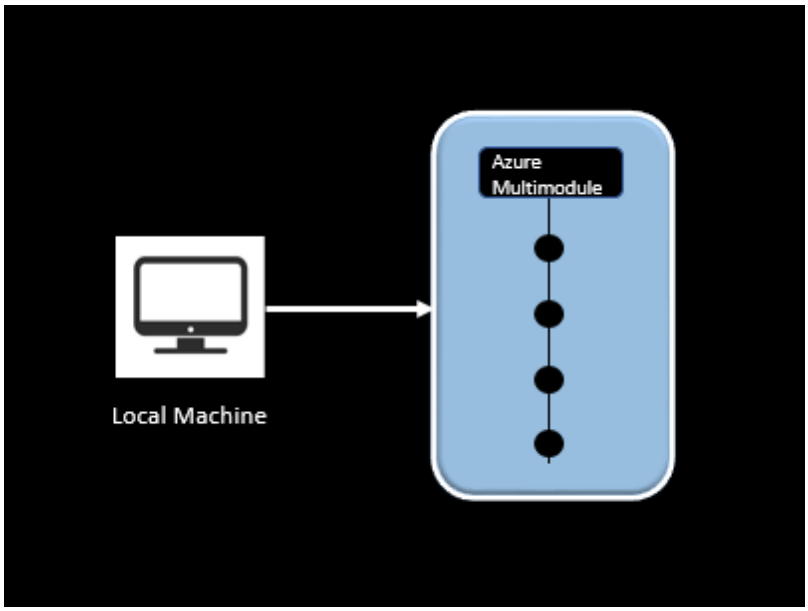
Tasks identified (in-detailed):

1. When code is ready in Azure Standalone Repo the initial modifications are to be done in the local machine

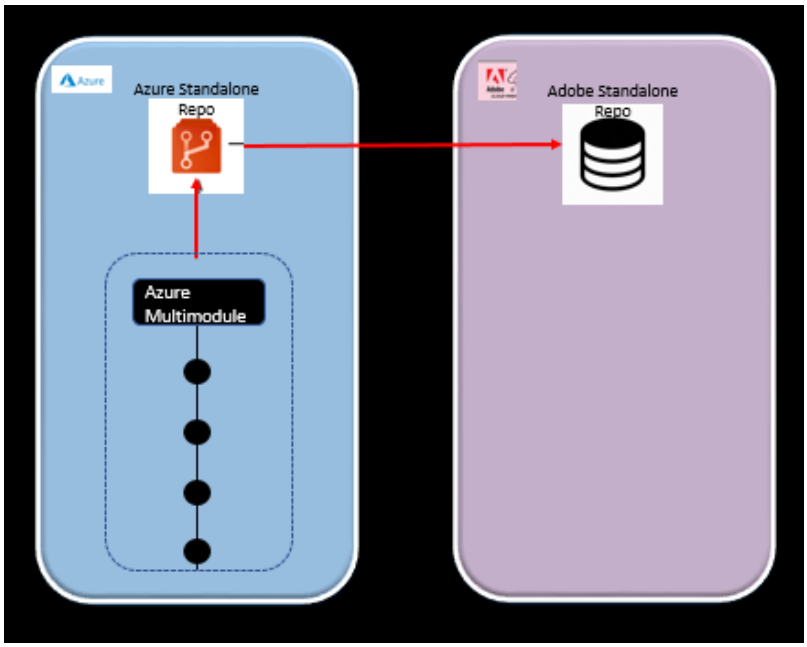
a) Sync the latest code from Azure Standalone repo to to its submodule using git commands

- $ git fetch ------ $ git merge ----- add, commit, push
- $ git submodule update --remote ------- $ git pull (from parent repo) ------ add, commit, push
- Delete and recreate the existing submodule or create new if it is not existed (Not recommended)

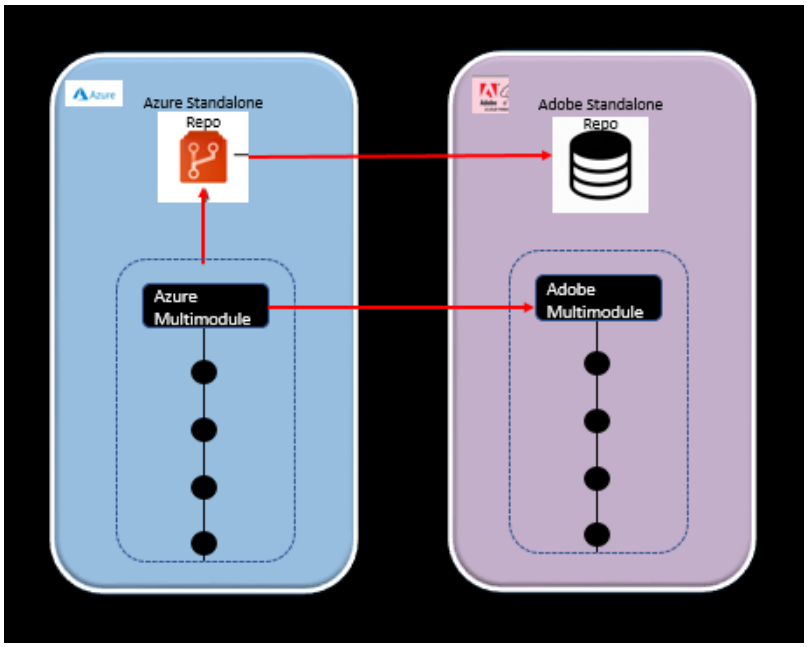
b) Modify the pom.xml by uncommenting the required submodules and push these changes to Azure Multimodule Repo



2. Once the changes are moved to Azure Multimodule Repo, the pipeline triggers. Based on the Repo-Submodule mappings the pipeline pushes the code from Azure Standalone to Adobe Standalone Repo



3. The next task is to push the code from Azure Multi-Module Repo to Adobe multi-Module Repo. Hence the requirement is achieved.



Change in the Plan - Root Cause:

- At the time of delivery of the pipeline the developer from the AEM team realized that the .gitmodules file has Azure Repo URLs and Names which may not be desirable at Target Environment, Adobe CM.
- The entire setup has been changed to Z-Model later to achieve the ad hoc requirement.