

## System Setup

Wednesday, September 10, 2025 10:36 AM

### Git Repo build - <https://github.com/uhc-tech-medicare-retiree-common/uhc-cs-community-plan/actions/runs/17591995642>

```
mvn clean install -s .mvn/settings-local.xml -PautoInstallPackage -DskipTests -U
```

### Maven issues - CoPilot

Quick cache reset if needed:

```
rm -rf ~/.m2/repository/com/day/jcr ~/.m2/repository/org/apache/jackrabbit-  
~/.m2/repository/com/adobe ~/.m2/repository/com/uhg-  
~/.m2/repository/biz/netcentric-  
mvn -U -s .mvn/settings-local.xml -pl all -am clean install -DskipTests
```

[ERROR] The bundle version change (1.0.15 to 1.0.29) is too low, the new version must be at least 1.1.0

- The root POM version is already set to 1.1.0-SNAPSHOT. If you still see the baseline error, the local Maven repo may have stale artifacts, or a module is not picking up the new version.

```
rm -rf ~/.m2/repository/com/uhg/uhcmr/uhccp/cs/uhccp.core  
mvn clean install -s .mvn/settings-local.xml -DskipTests -U
```

The Maven build now fails at the frontend-maven-plugin step because it cannot download Node.js due to a PKIX/certificate error, and then cannot run npm because Node was not installed.

- Use your system Node/npm instead of downloading:  
Set the property useSystemNode to true in your Maven command: This will skip the Node download and use the Node/npm already installed on your system.

```
mvn clean install -s .mvn/settings-local.xml -DskipTests -U -DuseSystemNode=true
```



Add .npmignore file in .m2

```
mvn clean install -PautoInstallPackage -DskipTests -U
```

### Maven Build Failure Resolution Summary - CoPilot

Here's a comprehensive summary of all the changes we made to resolve the Maven build failures in your AEM project:

#### Initial Issues Identified

1. Baseline versioning error - bnd-baseline-maven-plugin failed due to insufficient version bump
2. Node.js compatibility issues - node-sass incompatible with Node.js v24
3. Network/Registry issues - Need to use internal Artifactory registry instead of public npm

#### Changes Made

##### 1. Version Bumping (Baseline Fix)

Root POM ([pom.xml](#)):

- Updated version: 1.0.29-SNAPSHOT → 1.1.0-SNAPSHOT

All Child Module POMs:

- [pom.xml](#) - Updated parent version to 1.1.0-SNAPSHOT

##### 2. Registry Configuration (Network Fix)

Root POM ([pom.xml](#)):

```
<!-- Updated from public URLs to internal Artifactory -->  
<nodeDownloadRoot>http://repo1.uhc.com/artifactory/nodejs-org/</nodeDownloadRoot>  
<npmDownloadRoot>http://repo1.uhc.com/artifactory/api/npm/npm-virtual/npm/</npmDownloadRoot>  
<npmRegistryURL>https://repo1.uhc.com/artifactory/api/npm/npm-virtual/</npmRegistryURL>
```

##### 3. Node.js Compatibility Fix

Package Dependencies ([package.json](#)):

```
// Updated gulp-sass version and added dart-sass  
"gulp-sass": "^5.1.0", // was: "^4.0.1"  
"sass": "^1.69.0", // new dependency  
// Removed node-sass override  
"overrides": {  
  "ip": "2.0.1"  
  // removed: "node-sass": "^8.0.0"  
},
```

##### Gulpfile Configuration ([gulpfile.babel.js](#)):

```
// Added new imports  
import * as sass from 'sass';  
import gulpSass from 'gulp-sass';  
// Configured gulp-sass with dart-sass  
const sassProcessor = gulpSass(sass);  
// Updated API call  
.pipe(sassProcessor) // was: .pipe($.sass.sync({  
  outputStyle: 'expanded',  
  precision: 10,  
  includePaths: ['.']  
}).on('error', sassProcessor.logError)) // was: $.sass.logError
```

##### Key Technical Details

Root Cause Analysis:

1. Semantic versioning: MINOR API changes required version bump from 1.0.x to 1.1.x
2. Node.js evolution: node-sass deprecated; dart-sass is the modern replacement
3. Corporate network: Internal registry required for security/compliance

Modern Stack Achieved:

- Node.js v24.8.0 compatibility
- Dart Sass (latest, maintained)

### Setup new AEM local

```
<<optional if need to update JVM>>  
cd ~/aem/author  
java -jar AEM_6.5_Quickstart.jar -unpack -r author  
Configure JVM and Ports = -Xmx2048m -XX:MaxPermSize=512M
```

```
cd ~/aem/author/crx-quickstart/bin  
./start
```

#### Install packages in below order

- Service pack
- Acs-commons
- Code
- Content
- XF & CF

### Install node.js

Install Homebrew  
/bin/bash -c "\$(curl -fsSL <https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh>)"

```
echo 'eval "$(
```

```
eval "$(/opt/homebrew/bin/brew shellenv)"' >> ~/.zprofile  
eval "$(/opt/homebrew/bin/brew shellenv)"'
```

Use homebrew to install the node and npm - <https://nodejs.org/en/download/>

Pwd - <https://github.com/shubhraghosh/Opum/blob/main/.zprofile>

```
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.3/install.sh | bash
```

```
export NVM_DIR="$HOME/.nvm"  
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm  
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This  
loads nvm bash_completion
```

nvm install node --latest-npm

```
set this one in .npmrc file [https://edgeinternaluhc.optum.com/si/eden/]  
registry https://repo1.uhc.com/artifactory/api/npm/npm-virtual/  
strict ssl=false
```

```
email=shubhra_gupta@optum.com  
always auth=true  
registry https://edgeinternaluhc.optum.com/artifactory/api/npm/gpd-npm-vir/  
//edgeinternaluhc.optum.com/artifactory/api/npm/gpd-npm-vir/  
_authToken=
```

set this npm registry for node installation

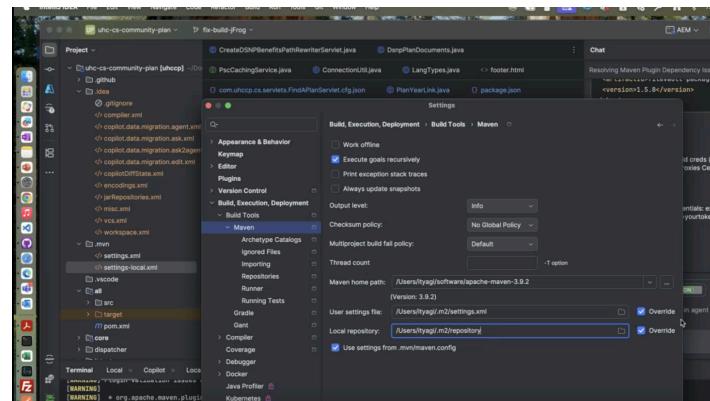
```
npm config set registry https://repo1.uhc.com/artifactory/api/npm/npm-virtual/
```

Add in ui.apps pom.xml

```
<nodeDownloadRoot>http://repo1.uhc.com/artifactory/nodejs-org/</nodeDownloadRoot>  
<npmDownloadRoot>http://repo1.uhc.com/artifactory/api/npm/npm-virtual/npm-</npmDownloadRoot>  
<npmRegistryURL>https://repo1.uhc.com/artifactory/api/npm/npm-virtual/npmRegistryURL</npmRegistryURL>
```

set this one in .npmrc file [<https://centraluhc.ifrog.io/ui/login>]

```
registry https://centraluhc.ifrog.io/artifactory/api/npm/gpd-npm-vir/  
email={email-id}  
always-auth=true  
//centraluhc.ifrog.io/artifactory/api/npm/gpd-npm-vir/_authToken={token-value}  
strict-ssl=false
```



- Internal dependency resolution

- AEM 6.5.13 compliance

The build is now robust, modern, and follows your organization's security requirements while maintaining full AEM functionality



## MKDOCS

```
Users/shubhra_gupta@optum.com/Library/Python/3.13/bin/mkdocs serve --dev-addr=127.0.0.1:8001 --livereload --watch-theme
```