

Albert Šuntić

- Living in Podgorica, Montenegro
- Father of two and husband
- Passionate PHP developer with over
 20 years of experience in the field
- Working at ServMask on developing new features for All In One WP Migration plugin and extensions
- Sport (football) lover



How did it start?



How did it start?

Have you ever felt frustrated by the slow pace of development?

Let me share a story that might sound familiar.

Two years ago, at ServMask, I discovered the power of rapid development tools that changed everything for me....





Add miss

All = 19

We have WP CLI onto a vailable in the rest of the cloud extensions others, you will need to check). This task is into all extensions into all extensions

Composer



Composer

Composer offers several key benefits

- Efficiency
- Consistency
- Reusability
- Version Control
- Automation



Understanding Composer Packages

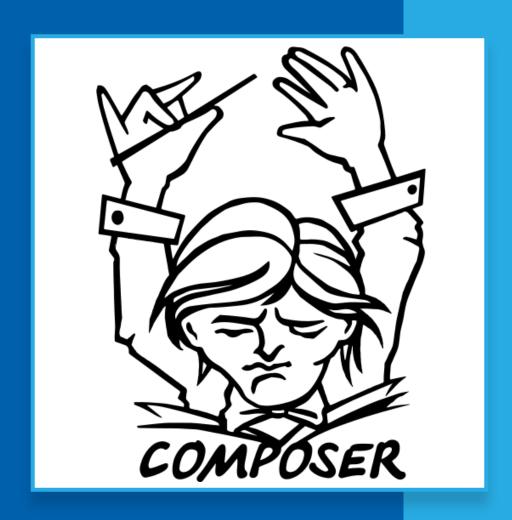
- Packages are essential building blocks in software development, providing reusable components and functionality.
- They encapsulate code, libraries, or resources that solve specific problems or fulfil certain requirements.

Types of Packages

- 1. Library
- 2. Framework
- 3. Utility
- 4. Application

Benefits of Composer Packages

- 1. Modularity
- 2. Reusability
- 3. Scalability
- 4. Community



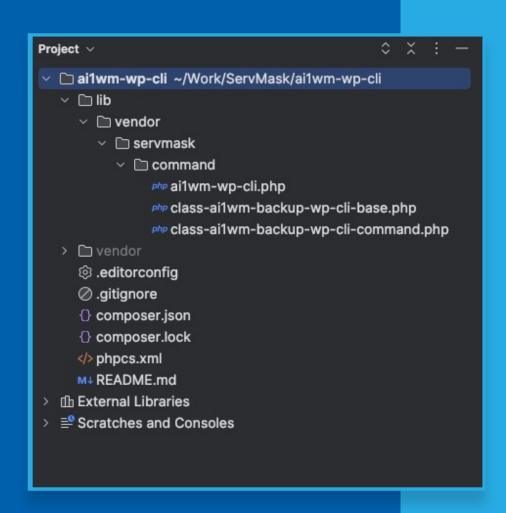
Composer Private Packages

What are Private Packages?

- Private packages are Composer packages that are not publicly available on Packagist or other repositories.
- They are typically internal libraries developed by organizations for their own use.

Setting Up Private Packages

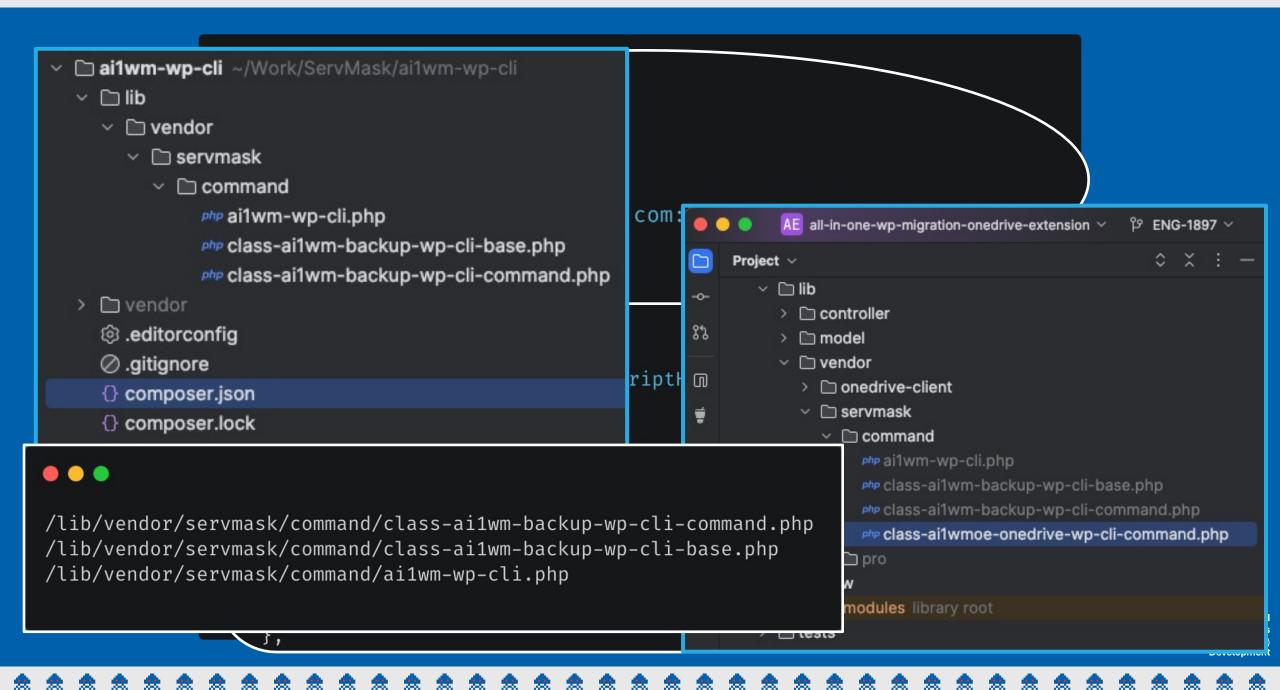
- Private packages are hosted in private repositories, such as GitHub, GitLab, or Bitbucket.
- Composer supports authentication with these repositories using tokens or SSH keys.
- Once authenticated, private packages can be installed and managed just like public packages.

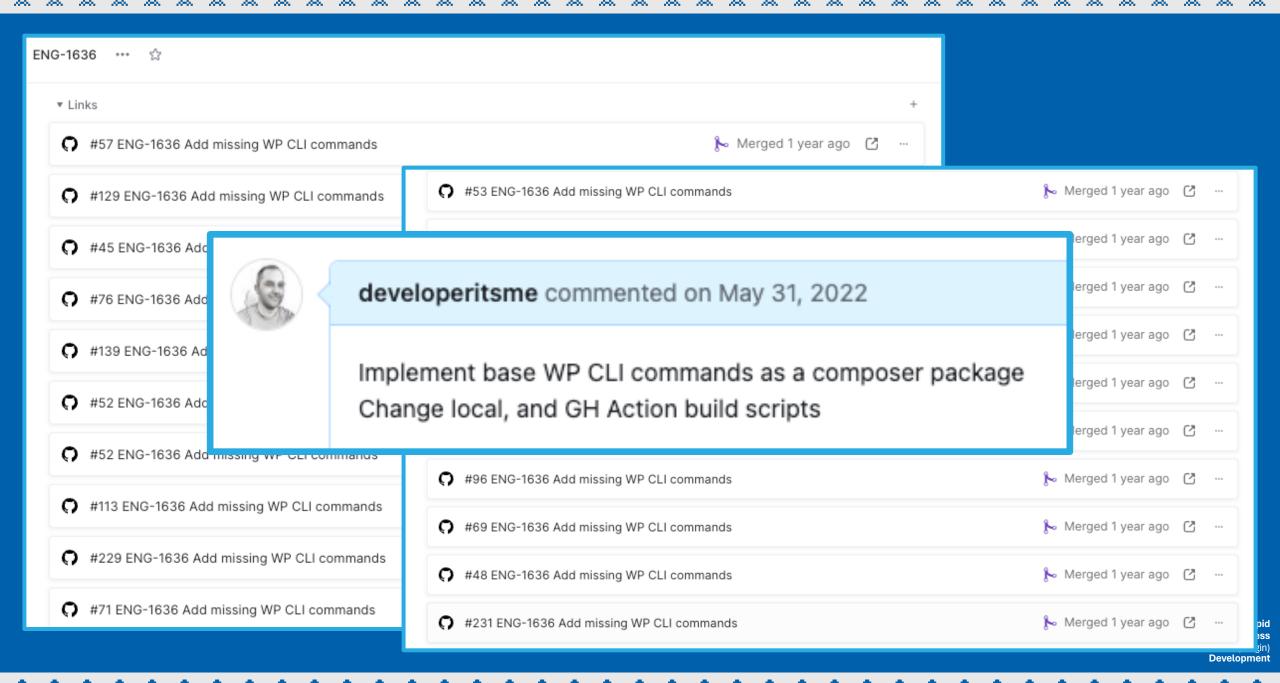


```
"name": "servmask/ai1wm-wp-cli",
    "description": "WP CLI Premium features for All-in-One WP Migration",
    "type": "library",
    "version": "2.2.1",
                                                      ai1wm-wp-cli ~/Work/ServMask/ai1wm-wp-cli
    "require": {
        "slowprog/composer-copy-file": "~0.3"
                                                      lib
    },

∨ □ vendor

    "require-dev": {
        "squizlabs/php_codesniffer": "~3.6.0",
                                                           servmask
        "wp-coding-standards/wpcs": "~2.3.0",
                                                             Command
        "dealerdirect/phpcodesniffer-composer-insta
                                                                  php ai1wm-wp-cli.php
    },
    "config": {
                                                                  php class-ai1wm-backup-wp-cli-base.php
        "allow-plugins": {
                                                                  php class-ai1wm-backup-wp-cli-command.php
            "dealerdirect/phpcodesniffer-composer-i
                                                        n vendor
                                                        .editorconfig
                                                        Ø .gitignore
                                                         Composer.json
                                                         Composer.lock
                                                        phpcs.xml
                                                        M↓ README.md
```







- It is a game-changer in the world of software development and deployment, and it's no different for WordPress developers.
- It is a powerful and flexible automation tool offered by GitHub, which is tightly integrated with your code repositories.
- It allows you to define workflows that automate various tasks related to your GitHub-hosted projects. Whether it's building, testing, deploying, or any other task that can be scripted, GitHub Actions can handle it.



Key Features

- Workflow Automation
- Extensive Ecosystem
- Integration with GitHub
- Cross-Platform Support



Components

- Workflow Files
- Actions
- Events
- Jobs and Steps



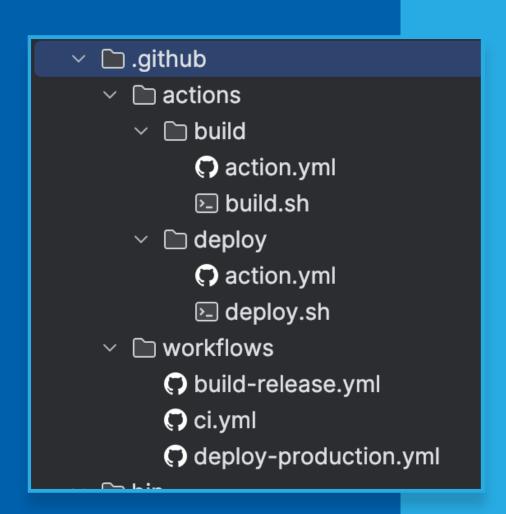
Practical Use Cases

- Continuous Integration (CI)
- Continuous Deployment (CD)
- Automated Code Reviews
- Scheduled Tasks



Getting Started

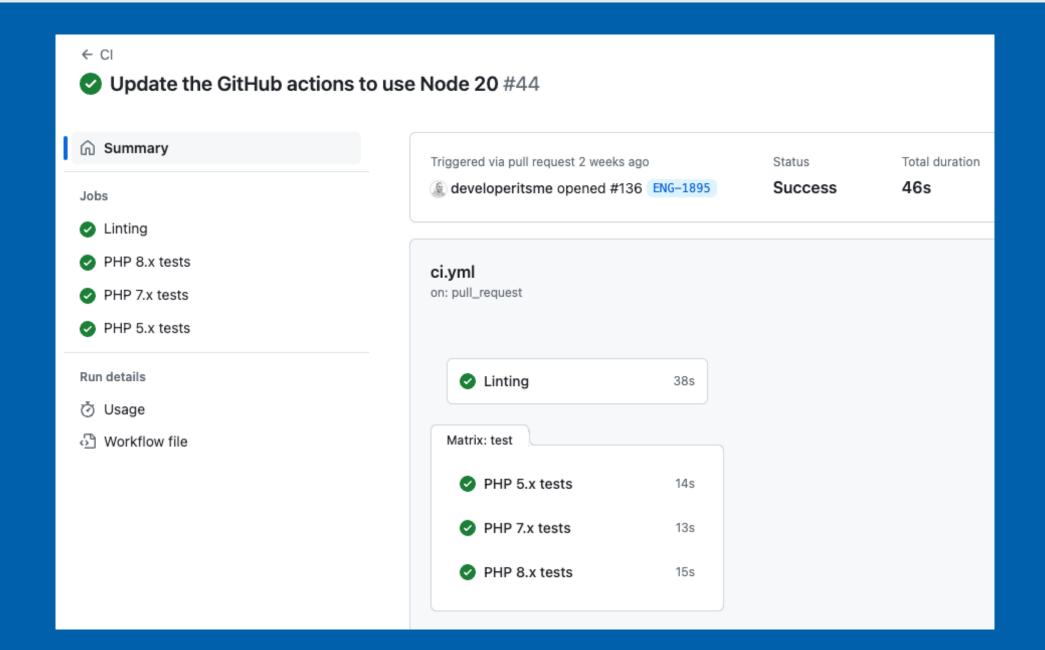
- Creating Workflows
- Using Actions
- Testing Workflows
- Deploying Workflows



```
name: CI
on: [ pull_request ]
        runs-on: ubuntu-latest
        name: Linting
               name: Checkout
                uses: actions/checkout@v4
               name: Install node
                uses: actions/setup-node@v4
                    node-version: '16'
                name: Cache npm dependencies
                uses: actions/cache@v4
                    path: node modules
                    key: node-modules-${{ hashFiles('package-lock.json') }}
                name: Install PHP
                uses: shivammathur/setup-php@v2
                    php-version: '7.4'
ıun:
```

./node_modules/.bin/eslint --ext .js --ext .vue ./lib/view/assets-development/javascript -f codeframe

```
runs-on: ubuntu-latest
strategy:
     matrix:
         php-versions: [ '8.x', '7.x' ]
         phpunit-versions: [ '8.5' ]
          include:
                   php-versions: '5.x'
name: PHP ${{ matrix.php-versions }} to
      name: Checkout
      uses: actions/checkout@v4
     name: Install PHP
     <mark>uses: shivammathur/setup-php</mark>@v2
     with:
         php-version: ${{ matrix.php-versions }}
         tools: composer:v2, phpunit:${{ matrix.phpunit-versions }}
     name: Run Tests
     run:
         composer config --global github-oauth.github.com ${{ secrets.GH CI ACCESS TOKEN }}
         composer install --no-interaction --prefer-dist --optimize-autoloader
         phpunit -c phpunit.xml
```



```
name: Build Release
            - prereleased
           - released
       runs-on: ubuntu-latest
       name: Build Release
            PLUGIN_NAME: 'all-in-one-wp-migration-onedrive-extension'
            PRODUCT_SLUG: 'onedrive-extension'
           - name: Checkout
               uses: actions/checkout@v4
               name: Set environment variables
                   echo "HOME_DIR=${{ github.workspace }}/dist" >> $GITHUB_ENV
                   echo "VERSION=${{ github.ref_name }}" >> $GITHUB_ENV
                   echo "BRANCH=$(git rev-parse --abbrev-ref HEAD)" >> $GITHUB_ENV
               name: Install PHP
               uses: shivammathur/setup-php@v2
                   tools: composer:v2
```

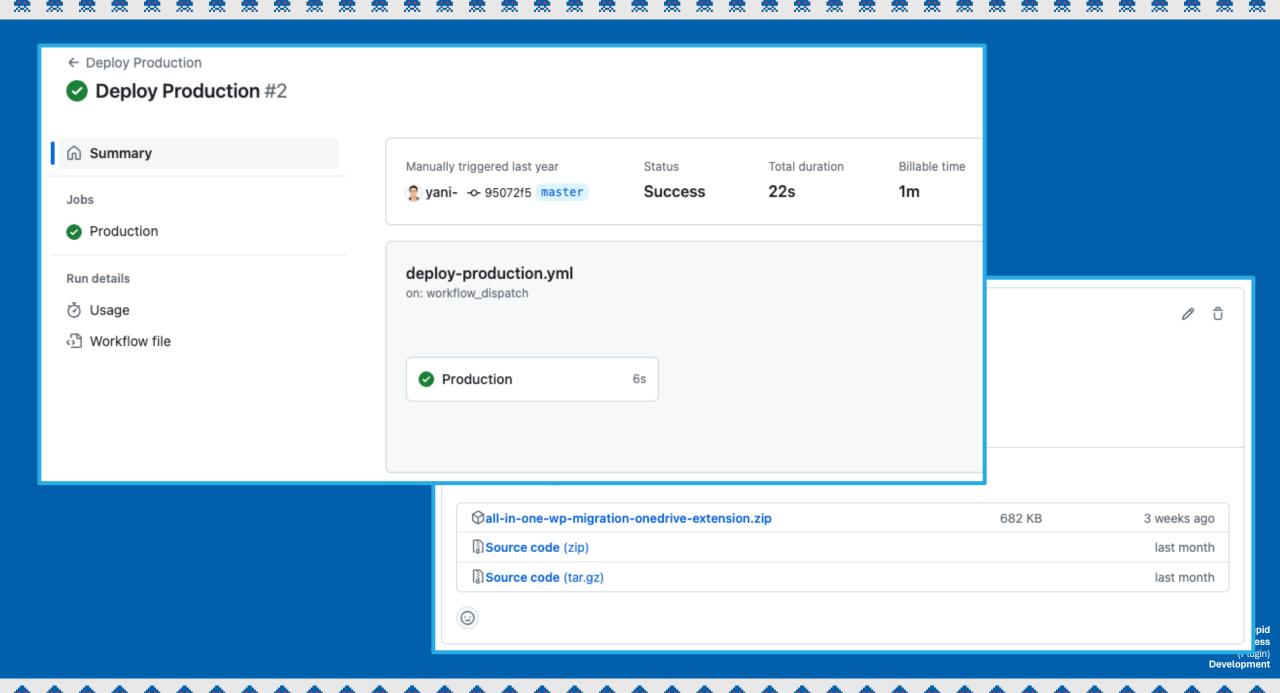
```
name: Install node
                                 uses: actions/setup-node@v4
                                 name: Cache npm dependencies
                                 uses: actions/cacheav/
                                                           name: Build
                                                            id: build
                                                           uses: ./.github/actions/build
                                                           env:
                                                                                  GH_CI_ACCESS_TOKEN: $\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\frac{1}{5}\
                                 name: Upload release asset
                                 uses: softprops/action-gh-release@v2
                                                 GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
                                                  files: ${{ steps.build.outputs.ASSET_PATH }}
name: Deploy
if: ${{ github.event.action = 'released' }}
needs: build-release
uses: ./.github/workflows/deploy-production.yml
                 AI1WM DEPLOY URL PRODUCTION: ${{ secrets.AI1WM DEPLOY URL PRODUCTION }}
                 AI1WM_DEPLOY_KEY_PRODUCTION: ${{ secrets.AI1WM_DEPLOY_KEY_PRODUCTION }}
```

```
name: Build
description: Build files for deployment
outputs:
   DEPLOY:
        description: Deploy strategy
        value: ${{ steps.build-sh.outputs.DEPLOY }}
    ZIP CHECKSUM:
        description: Checksum of zip file
        value: ${{ steps.build-sh.outputs.ZIP CHECKSUM }}
        description: Asset path to upload
        value: ${{ steps.build-sh.outputs.ASSET PATH }}
    ASSET NAME:
        description: Asset name to upload
        value: ${{ steps.build-sh.outputs.ASSET NAME }}
runs:
   using: composite
           id: build-sh
            run: ${{ github.action path }}/build.sh
            shell: bash
```

```
#!/bin/bash
sudo apt-get install -y zip
echo "Building $VERSION on $BRANCH"
composer config --global github-oauth.github.com $GH_CI_ACCESS_TOKEN
composer install
npm install
npm run build
echo "Preparing distribution ... '
rm -rf dist
mkdir -p dist/$PLUGIN NAME
cp -R {End-User-License-Agreement.txt,lib,
$PLUGIN NAME.php,constants.php,exceptions.php,functions.php,loader.php,readme.txt,uninstall.php,User-
Guide.txt} dist/$PLUGIN_NAME
rm -rf dist/$PLUGIN_NAME/lib/view/assets-development
sed -i s/Version:\ develop/Version:\ $VERSION/ dist/$PLUGIN_NAME/$PLUGIN_NAME.php
sed -i s/define\(\ \'AI1WMOE_VERSION\',\ \'develop\'\ \)/define\(\ \'AI1WMOE_VERSION\',\ \'$VERSION\'\ \)/
dist/$PLUGIN_NAME/constants.php
echo -n $VERSION > dist/$PLUGIN NAME/VERSION
cd dist
zip -vrm9 $PLUGIN NAME.zip ./$PLUGIN NAME
ZIP_CHECKSUM=$(sha256sum $PLUGIN_NAME.zip | awk '{ print $1 }')
if [[ \$BRANCH =  master \#EAD  86  \$VERSION =  ^[0-9] {1,3} \.[0-9] {1,3}  ]]; then
    DEPLOY="production'
elif [[ $BRANCH =~ master$|hotfix.*|HEAD$ ]]; then
    DEPLOY="development"
else
    DEPLOY="none"
echo "DEPLOY=$DEPLOY" >> $GITHUB_OUTPUT
echo "ZIP CHECKSUM=$ZIP CHECKSUM" >> $GITHUB OUTPUT
echo "ASSET PATH=dist/$PLUGIN NAME.zip" >> $GITHUB OUTPUT
echo "ASSET NAME=$PLUGIN NAME-$VERSION.zip" >> $GITHUB OUTPUT
```

```
name: Install node
     uses: actions/setup-node@v4
        node-version: '16'
     name: Cache npm dependencies
     uses: actions/cacheav4
          name: Build
          id: build
          uses: ./.github/actions/build
          env:
               GH_CI_ACCESS_TOKEN: $\[ \frac{1}{5} \] TOKEN }}
     name: Upload release asset
     uses: softprops/action-gh-release@v2
        GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
 y-production:
name: Deploy
if: ${{ github.event.action = 'released' }}
needs: build-release
uses: ./.github/workflows/deploy-production.yml
 AI1WM DEPLOY URL PRODUCTION }}
 AI1WM_DEPLOY_KEY_PRODUCTION: ${{ secrets.AI1WM_DEPLOY_KEY_PRODUCTION }}
```

```
name: Deploy Production
               description: What are you releasing?
               required: true
               required: true
               required: true
        runs-on: ubuntu-latest
        name: Production
           PLUGIN_NAME: 'all-in-one-wp-migration-onedrive-extension'
           PRODUCT_SLUG: 'onedrive-extension'
               name: Checkout
               uses: actions/checkout@v4
           - name: Set environment variables
                    echo "HOME_DIR=${{ github.workspace }}/dist" >> $GITHUB_ENV
                   echo "VERSION=${{ github.ref_name }}" >> $GITHUB_ENV
                    echo "BRANCH=$(git rev-parse --abbrev-ref HEAD)" >> $GITHUB_ENV
               name: Deploy
               uses: ./.github/actions/deploy
                   TOKEN: ${{ github.token }}
                   REPO: ${{ github.repository }}
                   DEPLOY_URL: ${{ secrets.AI1WM_DEPLOY_URL_PRODUCTION }}
                   DEPLOY KEY: ${{ secrets.AI1WM DEPLOY KEY PRODUCTION }}
```



Command-Line Tools



Command-Line Tools

Key Command-Line Tools for WordPress Development:

- WP-CLI (WP Command-Line Interface)
- Git (Version Control System)
- Composer (Dependency Manager)
- Custom

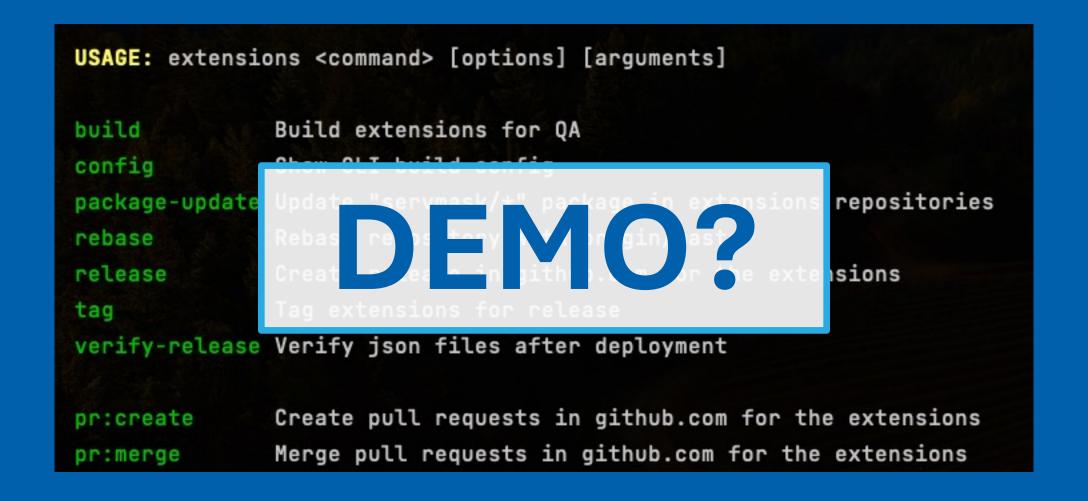


Command-Line Tools

Practical Use Cases

- Plugin Installation and Management
- Version Control and Collaboration
- Dependency Management
- Automation and Scripting





Rapid WordPress (Plugin)

- Achievable through the integration of Composer, GitHub Actions, and (custom) command-line tools.
- These tools streamline workflows, automate processes, and enhance collaboration, leading to faster development cycles and higher-quality code.
- Using the **Composer** for dependency management, **GitHub Actions** for automation, and **command-line tools** for efficiency, you can accelerate your WordPress development journey.
- Embrace these tools, unleash their power, and embark on a journey to elevate your WordPress development experience to new heights of **speed**, **efficiency**, and **innovation**.





Thank You!



