

CI/CD cho Verdaccio với Jenkins

Thiết lập hệ thống CI/CD cho Verdaccio. Tự động publish package khi có commit mới.

Chuẩn bị

Verdaccio Server

Jenkins

- [Jenkins Controller.](#)
- [Jenkins Agent.](#)

Jenkins Plugins

- Blue Ocean
- NodeJS (Cài đặt tự động NodeJS lên Agent)
- Credentials
- Credentials Binding
- GitHub (Cần cho Webhook)
- Discord (Thông báo khi pipeline chạy xong)

Package Repo (Repo trên Git, Github, Gitlab... folder package chứa [Jenkinsfile](#) và package.json)

Jenkins Credentials ([Cài đặt Credentials](#))

- Credential cho Verdaccio (chứa username, password đăng nhập Verdaccio)
- Credential cho Github (chứa username và PAT xác thực Github)
- Credential cho Github Secret (chứa Webhook Secret của Github)
- Credential cho Discord Webhook URL (chứa Webhook URL của Discord)

Tạo và cấu hình Jenkins Jobs

Tạo item mới với type là **Pipeline**.

Cấu hình Jobs

- **General** (tùy chọn)
 - Description: mô tả
 - Github project: link đến github repo (không quan trọng)
- **Trigger**
 - Chọn **GitHub hook trigger for GITScm polling** để trigger từ GitHub.
 - **Poll SCM** để kiểm tra build định kỳ.
 - Để **trống** nếu muốn chạy thủ công.
- **Pipeline**
 - Definition:
 - **Pipeline script from SCM** để sử dụng jenkinsfile trong repo (recommend)
 - **Pipeline script** để viết trực tiếp jenkinsfile
 - SCM chọn Git
 - Repositories
 - Repository URL: URL của GitHub repo (Ex: `https://github.com/ThanhDang143/Backup.UniTask.git`)
 - Credentials: chọn GitHub Credentials đã tạo.
 - Branches to build: nhánh GitHub cần theo dõi
 - Script Path: Đường dẫn đến Jenkinsfile trong repo (mặc định là `Jenkinsfile`. Ex: `src/UniTask/Assets/Plugins/UniTask/Jenkinsfile`)

Chạy và kiểm tra

Tại đây ta đã có thể chạy **build thủ công**.

Truy cập Blue Ocean. Để theo dõi tiến trình.

Kiểm tra kết quả và debug.

Nếu thành công thì có thể chuyển sang bước tiếp theo.

Cấu hình Trigger tự động

Tiếp đến là cấu hình để Jenkins tự động chạy job khi có commit mới trên GitHub.

- Đảm bảo Jenkins Job đã chọn **GitHub hook trigger for GITScm polling** [khi tạo Job](#).
- Cấu hình webhook trên GitHub Repo
 - Truy cập **GitHub Repo > Settings > Webhook > Add webhook**
 - **Payload URL**:
 - Mặc định là URL Jenkins theo sau là `/github-webhook/` (Ex: `https://jenkins.thanhdv.com/github-webhook/`)
 - URL Jenkins phải truy cập được từ internet.
 - **Content type**: chọn `application/json`
 - **Secret** là Credential cho Discord Webhook URL đã chuẩn bị

- **Which events?** chọn `Just the push event`.
- Đảm bảo đã tick chọn **Active** > **Add Webhook**

Sau khi add webhook github sẽ ping tới server. Kiểm tra tab **Recent Deliveries** để biết trạng thái ping

- Nếu không thành công kiểm tra lại các lỗi cơ bản như sai **Payload URL**, sai **Secret**, chưa **thêm secret vào Shared secrets**
- Nếu thành công có thể push một commit mới để test.

Gửi thông báo qua Discord

Tạo Discord Webhook, trên Discord truy cập **Server Settings** > **Integrations** > **Create Webhook**.

Copy Webhook URL đã tạo. Truy cập Jenkins Server tạo **Credential cho Discord Webhook URL**.

Trong bước tiếp theo ta cần cập nhật trong Jenkinsfile (*Đã có đầy đủ trong Jenkinsfile demo*)

- Tạo một biến môi trường `DISCORD_WEBHOOK = "CREDENTIAL_ID_DISCORD_WEBHOOK_URL"` để đảm bảo tính bảo mật không sử dụng trực tiếp Discord Webhook URL trong Jenkinsfile.
- Chỉnh sửa bên các khối sự kiện `success{}`, `failure{}`, `aborted{}` bên trong khối `post` với nội dung demo như hình dưới. Chỉnh sửa lại nội dung cho phù hợp.

```
script {
    withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')]) {
        discordSend(
            webhookURL: DISCORD_WEBHOOK_URL_SECRET,
            title: "?? Aborted: ${env.JOB_NAME}",
            description: "Build #${env.BUILD_NUMBER} for job `${env.JOB_NAME}` was aborted.",
            result: "ABORTED",
            link: env.BUILD_URL,
            footer: "Jenkins Build Notification"
        )
    }
}
```

Phụ lục

Cài ??t Credentials

Thêm Domain (Tu? ch?n)

Jenkins Manager > **Credentials** > **System** > **Add domain**. Tại đây điền Name và Desc cho domain mới.

Nếu không tạo domain mới có thể sử dụng domain Global.

Thêm Credentials

Jenkins Manager > Credentials > System > Domain > Add Credentials

- **Kind**
 - Username with password với Credential cho Verdaccio hoặc Credential cho Github...
 - Secret text với Credential cho Discord Webhook URL...
 - ...
- **Scope:** global
- **Username**
- **Password:** password hoặc PAT...
- **Secret:** chuỗi text
- **ID:** cần để sử dụng trong Jenkinsfile hoặc những nơi cần thiết...
- **Description:** mô tả.

Chú ý:

- Với **Credential cho GitHub Secret** sau khi tạo cần thêm vào **Shared secrets**
- **Jenkins Manager > System > GitHub > Advanced > Shared Secrets > Add Shared Secret** tại đây điền **ID** của Credential.
- Nếu không thấy **GitHub** kiểm tra lại GitHub Plugin

Lỗi thường gặp khi ch?y Jenkins Job

Lỗi **FileNotFoundException**: Sai đường dẫn. Kiểm tra lại các path trong Jenkinsfile (PROJECT_PATH...)

Lỗi **Cannot run program "sh"**: sh là lệnh của Linux. Nếu máy Agent là Window thay sh bằng bat.

Lỗi **RejectedAccessException** (new java.net.URI): Bị chặn bởi Script Security sandbox. Phê duyệt tại **Jenkins Manager > In-process Script Approval**

Jenkinsfile demo

Windows

```
def packageVersionFromFile = ""
def packageName = ""
def verdaccioPackageUrl = ""

pipeline {
    // Agent with Node.js & Git required
    agent { label "thanhssserver" }

    // Ensure Node.js tool is available (configure in Jenkins Global Tool Config)
    tools {
        nodejs "NodeJS22"
    }

    environment {
        // Path to the directory containing package.json
        PROJECT_PATH = "src/UniTask/Assets/Plugins/UniTask"
```

```

// Verdaccio registry URL
VERDACCIO_REGISTRY_URL = "https://upm.thanhdv.com"
// Jenkins Credential ID for Verdaccio auth (e.g., Secret Text or User/Pass with token)
VERDACCIO_CREDENTIAL_ID = "THANHDTV_VERDACCIO_AUTH"

// Jenkins Credential ID for Git auth (MUST be "Username with password" type)
// Username: your git username
// Password: your git access token
GIT_CREDENTIAL_ID = "THANHDTV_GITHUB_JENKINS_CREDENTIAL"

// Discord webhook create on Discord and add to Jenkins credential
DISCORD_WEBHOOK = "DISCORD_VERDACCIO_WEBHOOK"

// Release if commit has this key
RELEASE_KEYWORD = "Release v"
}
// === End Configuration ===

// Pipeline options
options {
    timestamps()
    buildDiscarder(logRotator(numToKeepStr: "10"))
    timeout(time: 30, unit: "MINUTES")
    disableConcurrentBuilds()
}

stages {
    stage("Checkout") {
        steps {
            // Get source code
            checkout scm
            // git lfs pull // Uncomment if using Git LFS
        }
    }

    // stage("Validate Commit Message") {
    //     steps {
    //         dir(env.PROJECT_PATH) {
    //             script {
    //                 def isManualTrigger = false
    //                 currentBuild.getBuildCauses().each{ cause ->
    //                     if (cause instanceof hudson.model.Cause$UserIdCause ||
cause.shortDescription.contains("Started by user ")) {
    //                         isManualTrigger = true
    //                     }
    //                 }
    //             }

            //             if (isManualTrigger) {
            //                 echo "Build triggered by User! Ignore Validate Commit Message."
            //             } else {
            //                 def commitMessage = bat(script: 'git log -1 --pretty=%B', returnStdout:
true).trim()
            //                 echo "Checking commit message: ${commitMessage}"
            //                 if (!commitMessage.contains(RELEASE_KEYWORD)) {
            //                     echo "Build condition not met! Aborting pipeline..."
            //                     currentBuild.result = 'ABORTED'
            //                     return
            //                 }
            //             }

            //             echo "Commit message is valid for release."
            //         }
    //     }
    // }
}

```

```

stage("Prepare") {
    when {
        expression { return currentBuild.result != "ABORTED" }
    }

    steps {
        // Operate within the project directory
        dir(env.PROJECT_PATH) {
            script {
                // Read version directly from package.json
                def pkg = readJSON file: "package.json" // Assumes package.json is at
PROJECT_PATH root

                if (!pkg || !pkg.version || !pkg.name) {
                    error "Could not read version from package.json"
                }

                // Store the version in the script-level variable
                packageVersionFromFile = pkg.version
                echo "Package version: ${packageVersionFromFile}"

                packageName = pkg.name
                echo "Package name: ${packageName}"

                verdaccioPackageUrl = "${env.VERDACCIO_REGISTRY_URL}/-/web/detail/${packageName}"
                echo "Package URL: ${verdaccioPackageUrl}"

                if (!packageVersionFromFile || !packageName || !verdaccioPackageUrl) {
                    error "Failed to set variable."
                }

                withCredentials([usernamePassword(credentialsId: env.VERDACCIO_CREDENTIAL_ID,
usernameVariable: "NPM_USER", passwordVariable: "NPM_PASS")]) {
                    echo "Configuring npm for Verdaccio using Username/Password..."
                    // Encrypt username:password to Base64
                    def userPass = "${NPM_USER}:${NPM_PASS}"
                    def encodedAuth =
java.util.Base64.getEncoder().encodeToString(userPass.getBytes("UTF-8"))

                    def registryUri = new URI(env.VERDACCIO_REGISTRY_URL)
                    def registryAuthority = registryUri.getAuthority()
                    def registryHostPath = "://${registryAuthority}/"

                    // Configure .npmrc for Verdaccio registry & auth token
                    bat "echo registry=${env.VERDACCIO_REGISTRY_URL} > .npmrc"
                    bat "echo ${registryHostPath}:_auth=\"${encodedAuth}\" >> .npmrc"
                    echo ".npmrc configured."
                }

                // Install dependencies (might run prepublish scripts)
                // echo "Running npm install..."
                // bat "npm install"
            }
        }
    }
}

stage("Publish") {
    when {
        expression { return currentBuild.result != "ABORTED" }
    }

    steps {
        // Operate within the project directory
        dir(env.PROJECT_PATH) {
            script {
                // Use the version read from package.json

```

```

        echo "Publishing package version ${packageVersionFromFile} to
${env.VERDACCIO_REGISTRY_URL}"
        try {
            // Publish using npm (reads package.json for name/version, uses .npmrc for
auth/registry)
            bat "npm publish --registry ${env.VERDACCIO_REGISTRY_URL}"
            echo "Package version ${packageVersionFromFile} published successfully!"
        } catch (err) {
            echo "ERROR: Failed to publish package!"
            error "Publish failed: ${err.getMessage()}"
        }
    }
}

// // (Optional) Tag commit with the existing version from package.json
// stage("Tag Existing Version") {
//     // Only run on overall success so far
//     when { expression { currentBuild.result == null || currentBuild.result == "SUCCESS" } }
//     steps {
//         // Operate within the project directory
//         dir(env.PROJECT_PATH) {
//             script {
//                 echo "Tagging commit with existing version v${packageVersionFromFile}..."

//                 // Inject Git credentials (Username = Git user, Password = Access Token)
//                 withCredentials([usernamePassword(credentialsId: env.GIT_CREDENTIAL_ID,
usernameVariable: "GIT_USERNAME", passwordVariable: "GIT_ACCESS_TOKEN")]) {

//                     // Configure Git user (may not be needed if just tagging)
//                     bat "git config user.email \"vanthanh1998@gmail.com\" \" // EDIT Or use a
specific user
//                     bat "git config user.name \"ThanhDVs Jenkins\""

//                     // NO commit needed here as we didn't change package.json version via npm
version

//                     // Create annotated tag using the version from package.json
//                     bat "git tag -a v${packageVersionFromFile} -m \"Release
v${packageVersionFromFile}\" // Use the read version

//                     // Push tag using HTTPS URL with embedded token
//                     def repoUrl = scm.userRemoteConfigs[0].url
//                     if (!repoUrl || !repoUrl.startsWith("https://")) {
//                         error "Could not determine HTTPS repository URL from SCM
configuration."
//                     }
//                     def repoUrlClean = repoUrl.replaceAll(/https?:\/\[/[^\]]+@/, "https://")
//                     def pushUrl = repoUrlClean.replaceFirst("https://",
"https://${GIT_USERNAME}:${GIT_ACCESS_TOKEN}@")

//                     // Push only the tag
//                     bat "git push ${pushUrl}
refs/tags/v${packageVersionFromFile}:refs/tags/v${packageVersionFromFile}"

//                     echo "Version tag v${packageVersionFromFile} pushed successfully."
//                 }
//             }
//         }
//     }
}

// Post-build actions
post {

```

```

// Always run cleanup
always {
    echo "Build finished. Cleaning up..."
    // Clean up sensitive .npmrc file
    dir(env.PROJECT_PATH) {
        script {
            try {
                bat "del /F /Q .npmrc"
            } catch (err) {
                echo "Could not delete .npmrc (maybe it doesn't exist): ${err.getMessage()}"
            }
        }
    }
}

// On success
success {
    echo "Pipeline successful!"

    // Save artifacts if need
    // archiveArtifacts artifacts: '**/*.tgz', allowEmptyArchive: true

    echo "Cleaning up workspace..."
    deleteDir()

    echo "Sending success notification to Discord..."
    script {
        // Send
        withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')])) {
            discordSend(
                webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                title: "? Success: ${env.JOB_NAME}",
                description: "Job `${env.JOB_NAME}` build #${env.BUILD_NUMBER} published package
`${packageName}@${packageVersionFromFile}` successfully.\nBuild Log: ${env.BUILD_URL}.\nPackage URL:
${verdaccioPackageUrl}",
                result: "SUCCESS",
                link: env.BUILD_URL,
                footer: "Jenkins Build Notification"
            )
        }
    }
}

// On failure
failure {
    echo "Pipeline failed!"

    echo "Sending failure notification to Discord..."
    script {
        // Send
        withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')])) {
            discordSend(
                webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                title: "? Failure: ${env.JOB_NAME}",
                description: "Job `${env.JOB_NAME}` build #${env.BUILD_NUMBER} failed to publish
package `${packageName}`.\nBuild Log: ${env.BUILD_URL}",
                result: "FAILURE",
                link: env.BUILD_URL,
                footer: "Jenkins Build Notification"
            )
        }
    }
}
}

```

```

    aborted {
        echo "Pipeline aborted!"
        echo "Sending abort notification to Discord..."
        script {
            // Send
            withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')]) {
                discordSend(
                    webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                    title: "?? Aborted: ${env.JOB_NAME}",
                    description: "Build #${env.BUILD_NUMBER} for job `${env.JOB_NAME}` was aborted.",
                    result: "ABORTED",
                    link: env.BUILD_URL,
                    footer: "Jenkins Build Notification"
                )
            }
        }
    }

    unstable {
        echo "Pipeline unstable!"

        echo "Sending unstable notification to Discord..."
        script {
            withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')]) {
                discordSend(
                    webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                    title: "?? Unstable: ${env.JOB_NAME}",
                    description: "Job `${env.JOB_NAME}` build #${env.BUILD_NUMBER} finished with
unstable status during processing of package `${packageName}`.\nBuild Log: ${env.BUILD_URL}",
                    result: "UNSTABLE",
                    link: env.BUILD_URL,
                    footer: "Jenkins Build Notification"
                )
            }
        }
    }
}

```

Linux

```

def packageVersionFromFile = ""
def packageName = ""
def verdaccioPackageUrl = ""

pipeline {
    // Agent with Node.js & Git required
    agent { label "verdaccio-publisher" }

    // Ensure Node.js tool is available (configure in Jenkins Global Tool Config)
    tools {
        nodejs "NodeJS22"
    }

    environment {
        // Path to the directory containing package.json
        PROJECT_PATH = "Assets/Packages/DeviceDebugger"

        // Verdaccio registry URL
        VERDACCIO_REGISTRY_URL = "https://upm.thanhdv.com"
        // Jenkins Credential ID for Verdaccio auth (e.g., Secret Text or User/Pass with token)
        VERDACCIO_CREDENTIAL_ID = "THANHDTV_VERDACCIO_AUTH"
    }
}

```

```

// Jenkins Credential ID for Git auth (MUST be "Username with password" type)
// Username: your git username
// Password: your git access token
GIT_CREDENTIAL_ID = "THANHDTV_GITHUB_JENKINS_CREDENTIAL"

// Discord webhook create on Discord and add to Jenkins credential
DISCORD_WEBHOOK = "DISCORD_VERDACCIO_WEBHOOK"

// Release if commit has this key
RELEASE_KEYWORD = "Release v"
}
// === End Configuration ===

// Pipeline options
options {
    timestamps()
    buildDiscarder(logRotator(numToKeepStr: "10"))
    timeout(time: 30, unit: "MINUTES")
    disableConcurrentBuilds()
}

stages {
    stage("Checkout") {
        steps {
            // Get source code
            checkout scm
            // git lfs pull // Uncomment if using Git LFS
        }
    }

    // stage("Validate Commit Message") {
    //     steps {
    //         dir(env.PROJECT_PATH) {
    //             script {
    //                 def isManualTrigger = false
    //                 currentBuild.getBuildCauses().each{ cause ->
    //                     if (cause instanceof hudson.model.Cause$UserIdCause ||
cause.shortDescription.contains("Started by user ")) {
    //                         isManualTrigger = true
    //                     }
    //                 }
    //             }

            //             if (isManualTrigger) {
            //                 echo "Build triggered by User! Ignore Validate Commit Message."
            //             } else {
            //                 def commitMessage = sh(script: 'git log -1 --pretty=%%B', returnStdout:
true).trim()
            //                 echo "Checking commit message: ${commitMessage}"
            //                 if (!commitMessage.contains(RELEASE_KEYWORD)) {
            //                     echo "Build condition not met! Aborting pipeline..."
            //                     currentBuild.result = 'ABORTED'
            //                     return
            //                 }
            //             }

            //             echo "Commit message is valid for release."
            //         }
    //     }
    // }

    stage("Prepare") {
        when {
            expression { return currentBuild.result != "ABORTED" }
        }
    }
}

```

```

steps {
    // Operate within the project directory
    dir(env.PROJECT_PATH) {
        script {
            // Read version directly from package.json
            def pkg = readJSON file: "package.json" // Assumes package.json is at
PROJECT_PATH root

            if (!pkg || !pkg.version || !pkg.name) {
                error "Could not read version from package.json"
            }

            // Store the version in the script-level variable
            packageVersionFromFile = pkg.version
            echo "Package version: ${packageVersionFromFile}"

            packageName = pkg.name
            echo "Package name: ${packageName}"

            verdaccioPackageUrl = "${env.VERDACCIO_REGISTRY_URL}/-/web/detail/${packageName}"
            echo "Package URL: ${verdaccioPackageUrl}"

            if (!packageVersionFromFile || !packageName || !verdaccioPackageUrl) {
                error "Failed to set variable."
            }

            withCredentials([usernamePassword(credentialsId: env.VERDACCIO_CREDENTIAL_ID,
usernameVariable: "NPM_USER", passwordVariable: "NPM_PASS")]) {
                echo "Configuring npm for Verdaccio using Username/Password..."
                // Encrypt username:password to Base64
                def userPass = "${NPM_USER}:${NPM_PASS}"
                def encodedAuth =
java.util.Base64.getEncoder().encodeToString(userPass.getBytes("UTF-8"))

                def registryUri = new URI(env.VERDACCIO_REGISTRY_URL)
                def registryAuthority = registryUri.getAuthority()
                def registryHostPath = "://${registryAuthority}/"

                // Configure .npmrc for Verdaccio registry & auth token
                sh "echo ${registryHostPath}:_auth=\"${encodedAuth}\" > .npmrc"
                sh "echo registry=${env.VERDACCIO_REGISTRY_URL} >> .npmrc"
                echo ".npmrc configured."
            }

            // Install dependencies (might run prepublish scripts)
            echo "Running npm install..."
            sh "npm install"
        }
    }
}

stage("Publish") {
    when {
        expression { return currentBuild.result != "ABORTED" }
    }

    steps {
        // Operate within the project directory
        dir(env.PROJECT_PATH) {
            script {
                // Use the version read from package.json
                echo "Publishing package version ${packageVersionFromFile} to
${env.VERDACCIO_REGISTRY_URL}"
                try {
                    // Publish using npm (reads package.json for name/version, uses .npmrc for
auth/registry)

```

```

        sh "npm publish --registry ${env.VERDACCIO_REGISTRY_URL}"
        echo "Package version ${packageVersionFromFile} published successfully!"
    } catch (err) {
        echo "ERROR: Failed to publish package!"
        error "Publish failed: ${err.getMessage()}"
    }
}

}

}

// // (Optional) Tag commit with the existing version from package.json
// stage("Tag Existing Version") {
//     // Only run on overall success so far
//     when { expression { currentBuild.result == null || currentBuild.result == "SUCCESS" } }
//     steps {
//         // Operate within the project directory
//         dir(env.PROJECT_PATH) {
//             script {
//                 echo "Tagging commit with existing version v${packageVersionFromFile}..."

//                 // Inject Git credentials (Username = Git user, Password = Access Token)
//                 withCredentials([usernamePassword(credentialsId: env.GIT_CREDENTIAL_ID,
usernameVariable: "GIT_USERNAME", passwordVariable: "GIT_ACCESS_TOKEN")]) {

//                     // Configure Git user (may not be needed if just tagging)
//                     sh "git config user.email \"vanthanh1998@gmail.com\" \" // EDIT Or use a
specific user
//                     sh "git config user.name \"ThanhDVs Jenkins\""

//                     // NO commit needed here as we didn't change package.json version via npm
version

//                     // Create annotated tag using the version from package.json
//                     sh "git tag -a v${packageVersionFromFile} -m \"Release
v${packageVersionFromFile}\" // Use the read version

//                     // Push tag using HTTPS URL with embedded token
//                     def repoUrl = scm.userRemoteConfigs[0].url
//                     if (!repoUrl || !repoUrl.startsWith("https://")) {
//                         error "Could not determine HTTPS repository URL from SCM
configuration."
//                     }
//                     def repoUrlClean = repoUrl.replaceAll(/https?:\/\[/[^\]]+@/, "https://")
//                     def pushUrl = repoUrlClean.replaceFirst("https://",
"https://${GIT_USERNAME}:${GIT_ACCESS_TOKEN}@")

//                     // Push only the tag
//                     sh "git push ${pushUrl}
refs/tags/v${packageVersionFromFile}:refs/tags/v${packageVersionFromFile}"

//                     echo "Version tag v${packageVersionFromFile} pushed successfully."
//                 }
//             }
//         }
//     }
}

// Post-build actions
post {
    // Always run cleanup
    always {
        echo "Build finished. Cleaning up..."
        // Clean up sensitive .npmrc file
        dir(env.PROJECT_PATH) {

```

```

        script {
            try {
                sh "rm -f .npmrc"
            } catch (err) {
                echo "Could not delete .npmrc (maybe it doesn't exist): ${err.getMessage()}"
            }
        }
    }
}

// On success
success {
    echo "Pipeline successful!"

    // Save artifacts if need
    // archiveArtifacts artifacts: '**/*.tgz', allowEmptyArchive: true

    echo "Cleaning up workspace..."
    deleteDir()

    echo "Sending success notification to Discord..."
    script {
        // Send
        withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')]) {
            discordSend(
                webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                title: "? Success: ${env.JOB_NAME}",
                description: "Job `${env.JOB_NAME}` build #${env.BUILD_NUMBER} published package
`${packageName}@${packageVersionFromFile}` successfully.\nBuild Log: ${env.BUILD_URL}.\nPackage URL:
${verdaccioPackageUrl}",
                result: "SUCCESS",
                link: env.BUILD_URL,
                footer: "Jenkins Build Notification"
            )
        }
    }
}

// On failure
failure {
    echo "Pipeline failed!"

    echo "Sending failure notification to Discord..."
    script {
        // Send
        withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')]) {
            discordSend(
                webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                title: "? Failure: ${env.JOB_NAME}",
                description: "Job `${env.JOB_NAME}` build #${env.BUILD_NUMBER} failed to publish
package `${packageName}`.\nBuild Log: ${env.BUILD_URL}",
                result: "FAILURE",
                link: env.BUILD_URL,
                footer: "Jenkins Build Notification"
            )
        }
    }
}

aborted {
    echo "Pipeline aborted!"
    echo "Sending abort notification to Discord..."
    script {
        // Send

```

```

        withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')])) {
            discordSend(
                webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                title: "?? Aborted: ${env.JOB_NAME}",
                description: "Build #${env.BUILD_NUMBER} for job `${env.JOB_NAME}` was aborted.",
                result: "ABORTED",
                link: env.BUILD_URL,
                footer: "Jenkins Build Notification"
            )
        }
    }
}

unstable {
    echo "Pipeline unstable!"

    echo "Sending unstable notification to Discord..."
    script {
        withCredentials([string(credentialsId: "${env.DISCORD_WEBHOOK}", variable:
'DISCORD_WEBHOOK_URL_SECRET')])) {
            discordSend(
                webhookURL: DISCORD_WEBHOOK_URL_SECRET,
                title: "?? Unstable: ${env.JOB_NAME}",
                description: "Job `${env.JOB_NAME}` build #${env.BUILD_NUMBER} finished with
unstable status during processing of package `${packageName}`.\nBuild Log: ${env.BUILD_URL}",
                result: "UNSTABLE",
                link: env.BUILD_URL,
                footer: "Jenkins Build Notification"
            )
        }
    }
}
}
}
}
}

```

Revision #11

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