**Synopsis**

Hygieia supports deployment collectors for udeploy and xdeploy, it doesn’t provide out of the box collector for Jenkins. Rather Hygieia has a Jenkins plugin to perform the similar function that the deployment collector does.

However an enterprise might restrict installation of Hygieia Jenkins Plugin for a number of reasons - compliance, stability, governance, SOX etc...

**Resolution**

To overcome this situation, we came up with a library called HygieiaJenkinsPluginAlt, which can be invoked by a Jenkins pipeline. It capture metrics (similar to Hygieia Jenkins plugin) and pushes it to Hygieia by calling Hygieia API's to persist data in Hygieia Mongo database.

HygieiaJenkinsPluginAlt makes three API calls in order:

1. api/build
2. api/artifact
3. api/deploy

In order to inject HygieiaJenkinsPluginAlt in Jenkins pipeline, add the following code snippet:

a try and catch block we will call postHygieiaMetrics function which in turn load the HygieiaJenkinsPluginAlt.groovy to make a three api calls (api/build, api/artifact, api/deploy) in order.

For ex:

try {

stage('Artifact Hygieia Groovy Upload'){

checkout([$class: 'GitSCM', branches: [[name: '\*/master']], doGenerateSubmoduleConfigurations: false, extensions: [[$class: 'RelativeTargetDirectory', relativeTargetDir: 'hygieiasharedlib']], submoduleCfg: [], userRemoteConfigs: [[credentialsId: cmPrivate.getEdpCredSsh(), url: 'ssh://git@bitbucketurl.com:portno/repo/hygieiasharedlib.git']]])

def buildArtifacts = []

buildArtifacts.add('\*.groovy')

library 'pipeline-artifact'

uploadBuildArtifacts{

groupId = 'tmobile.hygieialib'

artifactId = 'hygieiasharedlib'

artifacts = buildArtifacts

versionToUpload = '2'

artifactoryRepository = 'libs-release-local'

artifactoryServerURL = 'https://artifactoryurl.com/artifactory'

}

sh "curl -sO https:// artifactoryurl.com/artifactory/libs-release-local/tmobile/hygieialib/hygieiasharedlib/2/git.yaml"

def gitparams = readYaml file: 'git.yaml'

postHygieiaMetrics("${env.BUILD\_NUMBER}", "${env.BUILD\_URL}", "${env.JOB\_NAME}", "Success", "${currentBuild.startTimeInMillis}", "${env.JOB\_URL}", "${env.HUDSON\_URL}", "${env.JOB\_NAME}", "${System.currentTimeMillis()}", "${currentBuild.duration}", "${gitparams.GIT\_URL}", "${env.BRANCH\_NAME}", "GIT", "${gitparams.GIT\_COMMIT}", "Commit Logs", "PremYadav", "${currentBuild.startTimeInMillis}", "2", "${props.global.artifactId}-${version}.jar", "${props.global.artifactId}-${version}.jar", "com.t-mobile.${props.global.artifactId}", "${version}", "${props.global.artifactId}", "jar", "${env.BUILD\_ID}", "${currentBuild.timeInMillis}", "${gitparams.GIT\_COMMIT}", "${gitparams.GIT\_URL}", "${env.BRANCH\_NAME}", "${env.BUILD\_URL}", "${env.BUILD\_NUMBER}", "${props.global.artifactId}", "${currEnv}", "Success", "${env.BUILD\_ID}")

}

catch (Exception e) {

postHygieiaMetrics("${env.BUILD\_NUMBER}", "${env.BUILD\_URL}", "${env.JOB\_NAME}", "Success", "${currentBuild.startTimeInMillis}", "${env.JOB\_URL}", "${env.HUDSON\_URL}", "${env.JOB\_NAME}", "${System.currentTimeMillis()}", "${currentBuild.duration}", "${gitparams.GIT\_URL}", "${env.BRANCH\_NAME}", "GIT", "${gitparams.GIT\_COMMIT}", "Commit Logs", "PremYadav", "${currentBuild.startTimeInMillis}", "2", "${props.global.artifactId}-${version}.jar", "${props.global.artifactId}-${version}.jar", "com.t-mobile.${props.global.artifactId}", "${version}", "${props.global.artifactId}", "jar", "${env.BUILD\_ID}", "${currentBuild.timeInMillis}", "${gitparams.GIT\_COMMIT}", "${gitparams.GIT\_URL}", "${env.BRANCH\_NAME}", "${env.BUILD\_URL}", "${env.BUILD\_NUMBER}", "${props.global.artifactId}", "${currEnv}", "Failure", "${env.BUILD\_ID}")

}

// Function to post deployment metrics to Hygieia

def postHygieiaMetrics(number, buildUrl, jobName, buildStatus, startTime, jobUrl, instanceUrl, niceName, endTime, duration, url, branch, type, scmRevisionNumber, scmCommitLog, scmAuthor, scmCommitTimestamp, numberOfChanges, artifactName, canonicalName, artifactGroup, artifactVersion, artifactModule, artifactExtension, buildId, timestamp, cmCommitLog, scmUrl, scmBranch, buildNumber, executionId, appName, envName, deployStatus, hygieiaId)

{

echo "Inside postHygieiaMetrics

sh "curl -sO https://artifactory.service.edp.t-mobile.com/artifactory/libs-release-local/tmobile/hygieialib/hygieiasharedlib/2/HygieiaJenkinsPluginAlt.groovy "

echo 'upload begin'

def hygieiaPipelineLibObj = load HygieiaJenkinsPluginAlt.groovy'