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pipeline {
  agent { label 'build-server-1' }

  triggers {
    cron('H 2 * * *') // Daily at ~2AM
  }

  parameters {
    choice(name: 'FMEFLOW_SOURCE_ENV', choices: [
      'Dev (http://<DevFlow>.compute.amazonaws.com)',
      'Prod (http://<ProdFlow>.compute.amazonaws.com)'
    ], description: 'Select source FME Flow environment')

    choice(name: 'FMEFLOW_TARGET_ENV', choices: [
      'Prod (http://<ProdFlow>.compute.amazonaws.com)',
      'Dev (http://<DevFlow>.compute.amazonaws.com)'
    ], description: 'Select target FME Flow environment')
  }

  environment {
    SOURCE_CONFIG = "${WORKSPACE}/source.yaml"
    TARGET_CONFIG = "${WORKSPACE}/target.yaml"
    PASSWORD_FILE = "${WORKSPACE}/fme_flow_pass.txt"
  }

  stages {
    stage('Resolve Environment URLs') {
      steps {
        script {
          def envMap = [
            'Dev' : 'http://<DevFlow>.compute.amazonaws.com',
            'Prod' : 'http://<ProdFlow>.compute.amazonaws.com'
          ]
          def sourceLabel = params.FMEFLOW_SOURCE_ENV.tokenize(' ')[0]
          def targetLabel = params.FMEFLOW_TARGET_ENV.tokenize(' ')[0]

          env.FMEFLOW_SOURCE_URL = envMap[sourceLabel]
          env.FMEFLOW_TARGET_URL = envMap[targetLabel]

          echo " Source URL: ${env.FMEFLOW_SOURCE_URL}"
          echo " Target URL: ${env.FMEFLOW_TARGET_URL}"
        }
      }
    }
  }
}

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stage('Login to Source FME Flow') {
  steps {
    withCredentials([usernamePassword(credentialsId: 'fmeflow-login-source',
usernameVariable: 'FME_USER', passwordVariable: 'FME_PASS')]) {
      script {
        writeFile file: env.PASSWORD_FILE, text: FME_PASS
        sh """
        fmeflow login ${env.FMEFLOW_SOURCE_URL} \
          --user ${FME_USER} \
          --password-file ${PASSWORD_FILE} \
          --config ${env.SOURCE_CONFIG}
          """
        sh "rm -f ${env.PASSWORD_FILE}"
      }
    }
  }
}

stage('Find and Download Updated Projects') {
  steps {
    script {
      def json = sh(script: "fmeflow projects --owner admin --output json --config
${env.SOURCE_CONFIG}", returnStdout: true).trim()
      def projects = readJSON text: json

      def sdf = new java.text.SimpleDateFormat("yyyy-MM-dd'T'HH:mm:ss.SSSX")
      sdf.setTimeZone(TimeZone.getTimeZone("UTC"))
      def now = new Date()
      def updatedProjects = []

      projects.items.each { project ->
        def updated = sdf.parse(project.lastUpdated)
        def age = now.time - updated.time
        if (age < (24 * 60 * 60 * 1000)) {
          echo " Project '${project.name}' was updated in the last 24 hours."
          updatedProjects << project.name
          sh "fmeflow projects download --name '${project.name}' -f
'${project.name}.fsproject' --config ${env.SOURCE_CONFIG}"
        }
      }

      if (updatedProjects.isEmpty()) {
        echo " No updated projects found in the last 24 hours."
      }
    }
  }
}

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    }

    writeFile file: 'updatedProjects.txt', text: updatedProjects.join('\n')
  }
}

stage('Login to Target FME Flow') {
  steps {
    withCredentials([usernamePassword(credentialsId: 'fmeflow-login-target',
usernameVariable: 'FME_USER', passwordVariable: 'FME_PASS')]) {
      script {
        writeFile file: env.PASSWORD_FILE, text: FME_PASS
        sh """
fmeflow login ${env.FMEFLOW_TARGET_URL} \
  --user ${FME_USER} \
  --password-file ${PASSWORD_FILE} \
  --config ${env.TARGET_CONFIG}
        """
        sh "rm -f ${env.PASSWORD_FILE}"
      }
    }
  }
}

stage('Upload Projects to Target') {
  steps {
    script {
      def updatedProjects = readFile('updatedProjects.txt').split('\n')
      updatedProjects.each { name ->
        if (name?.trim()) {
          def file = "${name}.fsproject"
          echo " Uploading ${file} to target instance..."

          // Extract token from target.yaml
          def token = sh(
            script: "grep '^token:' ${env.TARGET_CONFIG} | cut -d ':' -f2 | xargs",
            returnStdout: true
          ).trim()

          if (!token) {
            error " Failed to extract token from ${env.TARGET_CONFIG}"
          }
        }
      }
    }
  }
}

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// Upload the project and capture the Location header
def uploadResponse = sh(
  script: """
    curl -s -D - -o /dev/null -X POST \

"${env.FMEFLOW_TARGET_URL}/fmeapiv4/projects/imports/upload?skipPreview=true" \
    -H 'accept: */*' \
    -H "Authorization: fmetoken token=${token}" \
    -H 'Content-Type: multipart/form-data' \
    -F 'file=@${file}'
    """,
  returnStdout: true
)

// Wait 15 seconds before triggering the import
sh "sleep 15"

// Extract the ID from the Location header
def locationLine = uploadResponse.readlines().find {
it.toLowerCase().startsWith('location:') }
def importId = locationLine?.tokenize('/')?.last()?.trim()

if (!importId) {
  error " Failed to extract import ID from response headers."
}

echo " Import ID received: ${importId}"

// Run the import with the extracted ID
sh """
curl -s -X POST \
  "${env.FMEFLOW_TARGET_URL}/fmeapiv4/projects/imports/${importId}/run" \
  -H 'accept: */*' \
  -H "Authorization: fmetoken token=${token}" \
  -H 'Content-Type: application/json' \
  -d '{
    "fallbackOwnerID": "<input Here>",
    "overwrite": true,
    "pauseNotifications": true,
    "disableItems": true,
    "notification": {
      "type": "TOPIC",
      "successTopic": "string",
      "failureTopic": "string"
    }
  }'

```

