- **Task1**
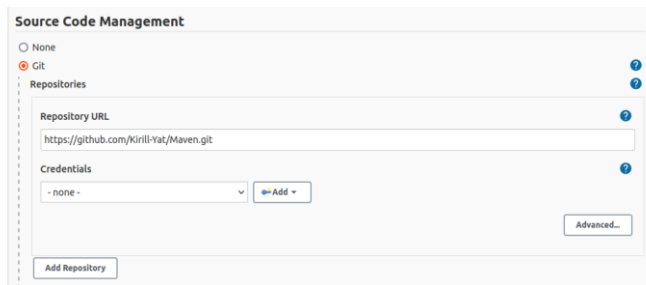
Create a free style **job** with stages:

Check out code from your branch from repository

Build a code with Maven/Gradle

Package code to **tar.gz** archive

Shell step: **Execute Groovy script : result of script execution – artifact pushed to the provided repository**

```
Uploading to nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/1.2.3/myproj-1.2.3.tar.gz
Progress (1): 4.1/5.7 kB
Progress (1): 5.7 kB

Uploaded to nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/1.2.3/myproj-1.2.3.tar.gz (5.7 kB at
9.1 kB/s)
Uploading to nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/1.2.3/myproj-1.2.3.pom
Progress (1): 421 B

Uploaded to nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/1.2.3/myproj-1.2.3.pom (421 B at 4.0
kB/s)
Downloading from nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/maven-metadata.xml
Uploading to nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/maven-metadata.xml
Progress (1): 295 B

Uploaded to nexus: http://192.168.31.125:8081/repository/Sample_snap/org/myorg/myproj/maven-metadata.xml (295 B at 2.5 kB/s)
[[1;34mINFO[m] [1m------------------------------------------------------------[m
[[1;34mINFO[m] [1;32mBUILD SUCCESS[m
[[1;34mINFO[m] [1m------------------------------------------------------------[m
[[1;34mINFO[m] Total time:  5.001 s
[[1;34mINFO[m] Finished at: 2022-02-20T01:24:08+03:00
[[1;34mINFO[m] [1m------------------------------------------------------------[m

Finished: SUCCESS
```
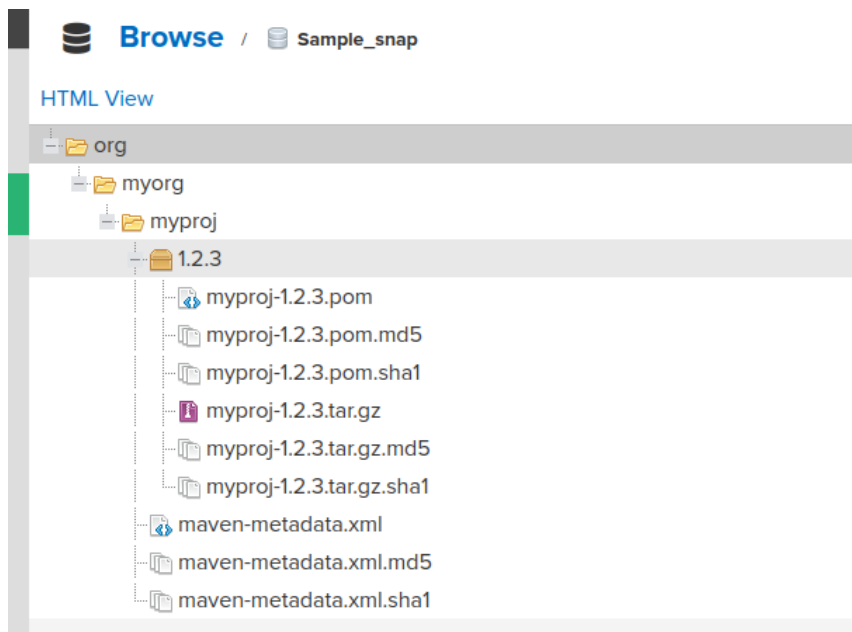
Browse / Sample_snap

HTML View

- org
  - myorg
    - myproj
      - 1.2.3
        - myproj-1.2.3.pom
        - myproj-1.2.3.pom.md5
        - myproj-1.2.3.pom.sha1
        - myproj-1.2.3.tar.gz
        - myproj-1.2.3.tar.gz.md5
        - myproj-1.2.3.tar.gz.sha1
      - maven-metadata.xml
      - maven-metadata.xml.md5
      - maven-metadata.xml.sha1

Task2

Create a free style **job** with stages:

Check out code from your branch from repository

Via plugins **Extensible Choice Plugin** (https://plugins.jenkins.io/extensible-choice-parameter) and **Maven Artifact ChoiceListProvider Plugin**
https://wiki.jenkins.io/display/JENKINS/Maven+Artifact+ChoiceListProvider+Plugin

Get list of from Nexus from defined repository (to var ARTIFACT_NAME)

Execute managed script

Script

```
getListNexus
```

view selected file
No arguments required

☐ Define arguments ❓

Content

```
1 #!/bin/bash
2 curl -u jenkins:11041976 -X GET 'http://192.168.31.125:8081/service/rest/v1/search?repository=Sample_snap&gro
3 awk -F '"' '{print $4}' ./file4.txt | awk -F '/' '{print $5}' | grep -Fx "web-1.tar.gz" > ./file2.txt
```

```
e snap&group=com.web' | grep 'path' > ./file4.txt
xt
```

```
kirill@kirill-VirtualBox:/var/lib/jenkins/workspace/getList$ cat file4.txt
        "path" : "com/web/web/1/web-1.pom",
        "path" : "com/web/web/1/web-1.pom.md5",
        "path" : "com/web/web/1/web-1.pom.sha1",
        "path" : "com/web/web/1/web-1.pom.sha256",
        "path" : "com/web/web/1/web-1.pom.sha512",
        "path" : "com/web/web/1/web-1.tar.gz",
        "path" : "com/web/web/1/web-1.tar.gz.md5",
        "path" : "com/web/web/1/web-1.tar.gz.sha1",
        "path" : "com/web/web/1/web-1.tar.gz.sha256",
        "path" : "com/web/web/1/web-1.tar.gz.sha512",
kirill@kirill-VirtualBox:/var/lib/jenkins/workspace/getList$ cat file2.txt
web-1.tar.gz
kirill@kirill-VirtualBox:/var/lib/jenkins/workspace/getList$
```

Shell step: **Execute Groovy script with using given ARTIFACT_NAME to download artifact from nexus.**

```
1 String fileContents = new File('/var/lib/jenkins/workspace/getList/file2.txt').text
2 'wget --user=jenkins --password=11041976 http://192.168.31.125:8081/repository/Sample_snap/com/web/web/1/${fi
3
```

```
ileContents}'.execute().text
```

Deploy artefact to tomcat

Post-build Actions

Publish artifacts to SCP Repository   [X]   ?

SCP site

192.168.31.100   ⌄

Files to upload

[X]

Source ?

webappExample*

Destination ?

webapps/

☐ Keep Hierarchy

Add

webAppExample Config [✕   PullFromNexus Config [Je ✕   192.168.31.100:8080/wel ✕   +

← → C   ○ 🛇 192.168.31.100:8080/webappExample-41/

Good Morning

Hello Tomcat, It's Jenkins