## Task 2. Managing build Artifacts

## Review

Previously installed Jenkins server will be used for this task. Nexus server will be installed as an artifact repository.

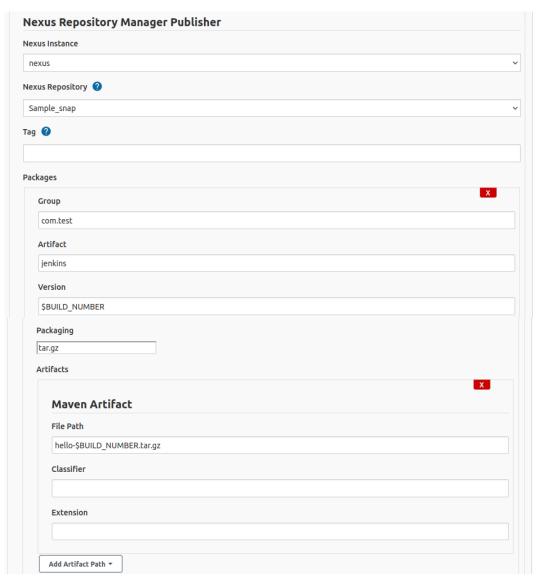
## **Task**

1. Install and configure Nexus server.

```
• nexus.service - nexus service
Loaded: loaded (/etc/systemd/system/nexus.service; enabled; vendor preset:
Active: active (running) since Sun 2022-01-30 13:59:57 +03; 11min ago
Process: 788 ExecStart=/opt/nexus/bin/nexus start (code=exited, status=0/SU
Main PID: 995 (java)
Tasks: 78 (limit: 4632)
Memory: 1.5G
CGroup: /system.slice/nexus.service
—995 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -server -Dins
```

```
2. Configure Nginx
                                                 Nexus
                                                                     http://nexus
                        SO
                             that
                                   access
                                            to
                                                          is
                                                               via
   upstream backend {
     server 127.0.0.1:8081;
   server {
        listen 80 default_server;
        server_name [::]:80 nexus;
        location / {
            proxy_pass http://backend/;
            proxy http version 1.1;
            proxy_set_header Upgrade $http_upgrade;
            proxy_set_header Connection "upgrade";
            proxy_set_header Host $http_host;
            proxy set header X-Real-IP $remote addr;
            proxy_set_header X-Forward-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forward-Proto http;
            proxy_set_header X-Nginx-Proxy true;
            proxy_redirect off;
        }
```

3. Configure Jenkins/Maven to use Nexus server for all Maven artifact downloads



- 4. Choose some open-source project for building with Jenkins (example <a href="https://github.com/jenkinsci/jenkins">https://github.com/jenkinsci/jenkins</a>). Requirement to this project it should be Maven-based.
- 5. Configure build section (Maven build) should create some artifact (ARTEFACT\_NAME=Jenkins-\$BUILD\_NUMBER)
- 6. Nexus should be used as Maven dependency proxy.

```
<activeProfiles>
  <activeProfile>nexus-profile</activeProfile>
</activeProfiles>
```

- 7. Create tar.gz
- 8. Upload artifact to Nexus

