Mount Artifactory repositories using WebDAV

Windows

It is NOT possible to mount Artifactory repositories as network drives in Windows due to unsupported commands, more information at https://www.jfrog.com/confluence/display/RTF/Using+WebDAV

However, you can utilise for example https://cyberduck.io/ opensource for working with files in Artifactory repositories.

Linux

Obtain service account credentials and repository URL

Either ask your project administrators to provide you with service account credentials or set it as described at Project Detail#ServiceAccount

Details and credentials in this example are:

```
Repo URL: https://artifactory.shared.tds.CUSTOMERX.COM/artifactory/myrepoxxxname/
username: srv123abc
password: SomEv3ryNic€PassWORD:)
mount point: /MyRepoMountPoint
script and service name: myreporemount
```

Create a mount point

```
mkdir -p /MyRepoMountPoint
chown srv123abc:srv123abc -R /MyRepoMountPoint/
```

Install the WebDAV module

CentOS

```
yum install davfs2 -y
```

Ubuntu

```
apt-get install davfs2 -y
#Answer NO to unprivileged mouting of webdav mount points
```

(CONDITIONAL) disable proxies for WebDAV

In case you are working in the environment with network proxies required to access the internet, you might need to disable proxies for davfs.

Simply add following at the end of **/etc/davfs2/davfs2.conf** file:

```
use_proxy 0
```

Add service account into secrets file

Edit **/etc/davfs2/secrets** file:

```
https://artifactory.shared.tds.CUSTOMERX.COM/artifactory/myrepoxxxname/ "srv123abc" "SomEv3ryNic€PassWORD:)"
```

Add mount point in fstab

Edit **/etc/fstab** file

```
#https://artifactory.shared.tds.CUSTOMERX.COM/artifactory/myrepoxxxname/ /MyRepoMountPoint davfs user,auto,
_netdev,nosuid,file_mode=664,dir_mode=775,gid=users,uid=srv123abc 0 0
https://artifactory.shared.tds.CUSTOMERX.COM/artifactory/myrepoxxxname/ /MyRepoMountPoint davfs user,auto,
_netdev,nosuid,file_mode=664,dir_mode=775,gid=srv123abc,uid=srv123abc 0 0
```

Mount prepared mountpoint

```
mount -av
```

The response should be like:

```
#root@jenkinsdev:~# mount -av
#/                        : ignored
#/MyRepoMountPoint: successfully mounted
```

Create the following re-mount script and service for automatic start

```
MOUNT_POINT=/MyRepoMountPoint; echo "set -ex; mount -a; ls -la $MOUNT_POINT; touch $MOUNT_POINT/tst; sleep 10;
rm -f $MOUNT_POINT/tst; ls -la $MOUNT_POINT" > /usr/local/bin/myreporemount

chmod +x /usr/local/bin/myreporemount
myreporemount
echo "[Unit]
Description=Refresh of Artifactory repository repo mount point
Wants=network-online.target
After=network-online.target
[Service]
Type=oneshot
ExecStart=-/usr/local/bin/myreporemount
[Install]
WantedBy=multi-user.target" > /etc/systemd/system/myreporemount.service

systemctl enable myreporemount
systemctl restart myreporemount
systemctl status myreporemount
```

What does it do:

- creates mounting script
- creates a service unit to autostart/automount after reboot
- starts synchronisation by creating some file, waiting a few moments and removing that file

Inspired by:

- http://techiech.blogspot.cz/2013/04/mounting-webdav-directory-in-linux.html
- https://ajclarkson.co.uk/blog/auto-mount-webdav-raspberry-pi/