

Configuring WebDAV

In order to provide a drag and drop interface to upload files to galaxy, one can choose WebDAV. To make it available, you'll need to install the following:

These modules are responsible for enabling the DAV protocol through the apache webserver

- mod_dav
- mod_dav_fs

This package is necessary in order to set galaxy uid/gid (AssignUserId) rather than the default apache user

- httpd-itk.x86_64 : MPM Itk for Apache HTTP Server

First, install httpd-itk (<http://www.webtatic.com/packages/httpd-itk/>):

```
yum install httpd-itk
```

Then edit /etc/sysconfig/httpd and add the following line:

```
HTTPD=/usr/sbin/httpd.itk
```

The galaxy user must have write permission in the directory containing the DavLockDB files otherwise:

```
[error] [client 127.0.0.1] The locks could not be queried for verification against a possible "If:" header. [500, #0]
[error] [client 127.0.0.1] Could not open the lock database. [500, #400]
[error] [client 127.0.0.1] (13)Permission denied: Could not open property database. [500, #1]
```

Here's an example of apache's virtual host configuration, assuming ftp_upload_dir = /home/galaxy/database/ftp in the Galaxy config file:

```
# include 'REMOTE_USER' in the directory path in order to limit users to their own directories
RewriteRule ^/repository(.*) /home/galaxy/database/ftp/%{LA-U:REMOTE_USER}$1

<Directory /var/webdav>
    Options Indexes FollowSymlinks MultiViews
    AllowOverride None
    Order Allow,Deny
    Allow from all

    # set the galaxy user and group for your vhosts to use
    AssignUserId galaxy galaxy

    # here follows the PAM authentication in order to allow users registered in the server itself
    # can be changed to ldap, htpasswd file, ...
    AuthType Basic
    AuthName Repository
    AuthPAM_Enabled on
    Require valid-user

    # activate mod_dav
    Dav On

</Directory>
```