Setting up Apache, PHP and Fuseki

# Prerequisites

Apache requires [Visual C++ Redistributable for Visual Studio 2012](https://www.microsoft.com/en-us/download/details.aspx?id=30679)

# Extract Folders

Extract the contents of Apache24.zip, PHP.zip and Fuseki.zip to the root (C:\) of your hard drive.

# Install and Start Apache

1. Open a command prompt
2. Navigate to C:\Apache24\bin\
3. Run the following command to have apache startup on boot:

httpd -k install

1. Execute httpd.exe to start apache

# Configure Fuseki Remote Access and Users Credentials

1. Open the file located at C:\Fuseki\run\shiro.ini
2. Change the username and password (default admin and pw):

[users]

admin=pw

1. Comment the following line to enable remote access:

## /$/\*\* = localhostFilter

1. Add the following line in the [urls] section, changing the username to reflect the one above, to enable authentication:

/$/\*\* = authcBasic,user[admin]

# Start Fuseki

1. Navigate to C:\Fuseki\ through the command line or windows explorer.
2. Execute or run the file fuseki-server.bat

# Add Ontology to Fuseki

* + 1. Open a web browser and navigate to http://localhost:3030/
    2. Enter the credentials that you used above
    3. Click on *manage datasets*
    4. Click on *add new dataset*
    5. Enter a dataset name in the field provided
    6. Check the *persistent* radio button
    7. Click *create dataset*
    8. Click *upload data*
    9. Click *select files*
    10. Select the ontology file that you want to upload
    11. Click *upload now*

# Testing

After completing the tasks above, you should be able to open a web browser and navigate to <http://localhost:8080> and be presented with the OmniSearch User Interface page. From here, you should be able to start typing in the Enter a microRNA textbox and a dropdown should appear with microRNAs matching your input.