# Requirements for PhUSE Workshop Server

[initial draft 2019-04-10]

## User Accounts

ldwinstructor

* Or similar named account
* Installation and configuration (admin) privileges on the server.
* Admin access to Stardog DB

phuseldw

* Attendee user account.
* The same user account+password will be used by each attendee on their own, cloned
* Stardog: Data load, delete, query

## Server Details

OS and Software Applications

* Windows OS
* Minimum 2G RAM. Lowest service tier on AWS (1G RAM) is not sufficient.
* Each servers must be pingable from the other workshop servers, with port open to allow federated query from Stardog Studio between the servers.
* Stardog
* Stardog Studio
* R, RStudio, select R packages
* Windows Git, TortoiseGit , with ability to Git Clone, Update, Push..
* Python or other http server running for localhost with specified home folder.
  + Python added to PATH environment variable.
  + Python http server run at startup and points to the workshop home folder for localhost
* Chrome Browser (to be configured bookmarks)
* Apache Jena (riot, for checking TTL, or other similar tool)
* D3JS libraries
* Custom Graph Editor (JavaScript and associated JavaScript libraries)
* Tim will create the local folder structure used for the exercises, including the clone of materials from GitHub to the local folders.

Additional Configuration

* Remote desktop connection for user account: ' phuseldw '
* Ability to query DBPedia, Wikidata
* Ability to query to the other servers by IP address for federated query.
* Windows OS : Show all file extensions in the explorer view

# Other details

* 1 server needed now to setup as master and begin configuration and testing.
* 2 servers (master + test) needed in late April/Early May to test federated query and finish development of exercises.
* 10 servers needed ~1 week in advance of the session to allow users to test login.
* ~22 servers needed for event. (1 master, 1 instructor, ~20 attendees)
  + Servers for the event must be setup a minimum of 2 days prior to allow testing and listing of IP addresses on handout materials.
  + Attendee servers can be shut down immediately following the session.

Attendees will login to their cloned server using the phusldw account and the IP address of their cloned AWS server.