**Title: Setting Up Hydroshare Server**

**Author: Aaron Valoroso**

**Date: September 19th, 2017**

**OS: Ubuntu 16.10**

**Setup:**

I will be doing the following in a virtual machine, and if you don’t know how to setup a virtual machine then look at my document on how to setup one.

**Part 1:**

* Type: sudo apt-get update
* Type: sudo apt-get install apt-transport-https ca-certificates curl software-properties-common
* Type: curl -fsSL <https://download.docker.com/linux/ubuntu/gpg> | sudo apt-key add -
* Type: sudo apt-key fingerprint 0EBFCD88
  + This should return a key fingerprint back that is similar.
* Type: sudo add-apt-repository “deb [arch=amd64] <https://download.docker.com/linux/ubuntu> $(lsb\_release -cs) stable”
* Type: sudo apt-get update
* Type: sudo apt-get install docker-ce
* Type: apt-cache madison docker-ce
  + This should have some type of output.
* Type: sudo docker run hello-world
  + This will test to see if docker is actually running and working.
* Type: cd ~

**Part 2:**

Next we will be getting the HydroShare application from GitHub.

* Type: sudo apt-get install git
* Type: git clone <https://www.github.com/hydroshare/hydroshare.git>
  + If this does not work then go to the URL’s section and go to the HydroShare github.
* Type: cd hydroshare
* Type: git checkout master
* Type: sudo ./hsctl rebuild - -db
* Type: sudo ./hsctl start

**Part 3:**

* In a web browser type: localhost:8000
* This should bring up a hydroshare website that you can login with.
  + Username: admin
  + Password: default
  + Once logged in you can publish resources and create applications to host on your server.
* HydroShare supports SSL and many other configurations that I have not covered in this document, but this should be a good start in order to get you started.

**Overview:**

* At this point you should be able to connect to the web based application that is HydroShare. The next part is to create a client and try connecting to your server remotely. You will have to publish resources in order to pull from your client to tell if you’re able to connect. Make sure that your resource is public and shareable.

**URLs:**

* <https://github.com/hydroshare/hydroshare>
* <https://github.com/hydroshare/hydroshare/wiki/getting_started>
* <https://docs.docker.com/compose/install/#prerequisites>
* <https://docs.docker.com/engine/installation/linux/docker-ce/ubuntu/#install-using-the-repository>