CIPRES Internship Starting Guide Notes:

**Notes:**

**Introduction:**

URL = Base URL

PASSWORD = CIPRES REST API password

KEY = Application ID assigned when an application is registered into the database.

The unix command curl will work after having registered into the CRA and setting the above variables in the shell.

**Register:**

To register an application, one goes to Application Management under the Developer drop down menu.

When registering an app there are two options: DIRECT and UMBRELLA

*DIRECT* = Using API from app immediately. Requires username and password of a person running the app and will be sent in HTTP basic authentication headers. Jobs will be submitted on behalf of a single authenticated user. If others want to run that app, they need to register into the CRA and submit the credentials to that application that the first user set.

*UMBRELLA* = Submits jobs on behalf of multiple registered users. Web applications that use UMBRELLA authentication authenticates with username and password (of the person that registered the application). Users registered with an UMBRELLA application do not need to register with CRA because UMBRELLA authentication is based on a trust relationship (trusting user to accurately identify individual interested in registering an UMBRELLA app).

**Authenticate**

Each time a request is sent, the API requires the user to send a username and password in HTTP Basic Authentication headers with each request. The use of SSL ensures that info travels “securely.”

Username + Password + Application ID (cipres-appkey).

**List Jobs**

Short version:

$ curl -u abl012:$PASSWORD -H cipres-appkey:$KEY $URL/job/abl012/

Long version:

$ curl -u abl012:$PASSWORD -H cipres-appkey:$KEY $URL/job/abl012/jobstatus.selfURI.url

**Things That Could Improve:**

* Bold the definitions for URL, PASSWORD, and KEY.
* Add a section for Windows users (how to set up the environment)