

# Instruction on run the Boa script on the VritualBox.

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- You should install the Virtual Box first: <https://www.virtualbox.org/wiki/Downloads>
- Then double download the Ubuntu18.04.ova file and double click on it.  
You need following user and pass to login to the Linux.

```
User: boa  
Pass: boag2018
```

- Open the Firefox browser. It should open the following url by default.
  - URL: <http://127.0.0.1/boa/run>
  - User: boa
  - Password: rocks
- You can see on the job lists some examples that have been tested on the Non-Redundant protein database.
  - NB: Since it is one node Hadoop cluster queries may take few minutes to run.
- Copy past the following Boa script to test the interface:

```
c: Cluster = input;  
counts: output sum[string][string][string] of int;  
  
ann := getAnnotations(c.seqid);  
  
if (match (`unnamed protein`, ann))  
    counts[c.id][c.seqid][ann] << 1;
```