Flukes steps :

1. Get an account from [pgeni.gpolab.bbn.com](http://pgeni.gpolab.bbn.com/)

2. Download **SSH** file , download the **PEM** file and save it with .pem extension.

3. **Windows >** download puttygen.exe and generate a public and private key pair. Use the same keyphrase as “[pgeni.gpolab.bbn.com](http://pgeni.gpolab.bbn.com/)” account to make life easier.

**Linux >** use the command “ssh-keygen -t rsa”

4.  **Linux :**

$ curl http://geni-images.renci.org/webstart/flukes.jnlp > ~/Downloads/flukes.jnlp

$ javaws ~/Downloads/flukes.jnlp

$ javaws flukes.jnlp --- to launch flukes from the terminal.

**Windows:**

<http://geni-images.renci.org/webstart/flukes.jnlp>

double click the downloaded file to launch.

use the above link to download flukes onto your windows machine.

5. Download portecle from <http://portecle.sourceforge.net/> and generate a java keystore file i.e., “.jks” file by importing your .pem file into portecle.

6. **Linux:**

Create a file named **.flukes.properties** in your home directory.

Or use the command **vi ~/.flukes.properties**

copy the contents of the help>preferences popup of flukes into the “.flukes.properties” file.

Edit the paths to **.jks** , **public ssh key** and **private ssh key.**

**Edit:** # Comma-separated list of URLs of the ORCA XMLRPC controllers where you can submit slice requests : with reference to

<https://wiki.exogeni.net/doku.php?id=public:experimenters:orca_sm>

Save and reopen flukes for the changes to take effect.

**Windows:**

Create a file named **.flukes.properties** in your home directory i.e., [c:\users](file:///c:/users)\username\ folder!

copy the contents of the help>preferences popup of flukes into the “.flukes.properties” file.

Edit the paths to **.jks** , **public ssh key** and **private ssh key.**

**Edit:** # Comma-separated list of URLs of the ORCA XMLRPC controllers where you can submit slice requests : with reference to

<https://wiki.exogeni.net/doku.php?id=public:experimenters:orca_sm>

Save and reopen flukes for the changes to take effect.

7. Create a slice :

create nodes and links to form a topology. Right click on a node to edit properties.

Flukes prompts you for the **keystore alias** and **passphrase** the first time you try to edit properties of a node in a slice. No error means you're good to create a slice and perform your experiments.

8. once you create your slice, **ssh** into your nodes using the **ip address** allocated to them to perform your experiments.

**Windows :** use putty to ssh into an ip address. The user is **root** and the password is your **public key passphrase.**

**Linux :**

**$ ssh -i id\_dsa root@192.1.242.16 -p 22**

here : **id\_dsa** is the name of the public key that is being fed to the flukes.

Ip address is the address of the node of the slice you created with **-p 22**  denoting the port number.

-------------------------------------- **Environment Established** ------------------------------------------

**Experiments :**