"Introduction to Galaxy" workshop

2.5.2013

Setting up your own Galaxy instance using Amazon Cloud services
(this protocol will work for this workshop only, the security credentials will expire soon after the workshop)

Assembling security credentials:
1. Arrange your security credentials in the following format:
   cluster_name: tuesday41_cluster
   password: GoSable
   access_key: AKIAJTGXTKUHVTUEP4TQ
   secret_key: fNFouTEH+k7qCiYb72v52qvTdTsNfrcel2Tncnn8
   - Paste this in a text editor of some sort.

Getting to the EC2 dashboard:
1. Follow the address of the LOGIN URL.
2. Enter your username (monday41) and password (GoGold).
3. Under AMAZON WEB SERVICES, click on the EC2 button, this will take you to the "EC2 Dashboard".

Setting up the cloud:
1. From the "EC2 Dashbaord", click the "Launch Instance" button.
2. Choose to use the classic wizard to set up the instance.
3. On the first page (CHOOSE AN AMI), I select the "Community AMIs" tab and enter "GALAXY" in the search bar and select the AMI: ami-da58aab3.
4. On the second page (INSTANCE DETAILS), choose a "small" instance, leave the other options untouched, and continue.
5. On the third page (INSTANCE DETAILS), I paste in my cluster name, password, and credentials in the following format (the keys have been changed):

   cluster_name: tuesday41_cluster
   password: GoSable
   access_key: AKIAJTGXTKUHVTUEP4TQ
   secret_key: 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

   - then continue to the fourth page, without modifying any other parameters.
6. On the fourth page (INSTANCE DETAILS), do not modify any settings and continue to the fifth page.
7. On the fifth page (INSTANCE DETAILS), do not modify any setting and continue to the sixth page.

8. On the sixth page (CREATE A KEY PAIR), choose an existing key pair then continue to the seventh page.
9. On the seventh page (CONFIGURE FIREWALL), choose an existing security group, then continue to the eighth page.
10. On the eighth page (REVEIW), click the Launch button.
11. On the ninth page, close the wizard.

Accessing your Galaxy instance:

1. From the EC2 Dashboard, click the INSTANCES tab on the left panel.
2. Choose your instance, it will have the security group and key pair that share your clusters name. Click on this instance.
3. Scroll down to the PUBLIC DNS information and copy this web address. Paste this web address in the address bar of another browser window/tab.
4. From the "Welcome to Galaxy on the Cloud" page, click the link to the "cloud console".
5. When prompted enter your cluster name and password, then continue.
6. When prompted to select storage size of your cluster, select 100 Gb of space, then click continue.
7. Wait for the applications and data buttons to turn green (about 10 minutes), then select the ADMIN tab on the top-right part of the page.
8. From the ADMIN page under SYSTEM CONTROLS, click the "SWITCH MASTER NOT TO RUN JOBS" LINK.
9. Click the CLOUDMAN FROM GALAXY button on the top left part of the page.
10. Click the ADD NODES button, select one LARGE node and click START ADDITIONAL NODES.
11. Click the ACCESS GALAXY button.
12. From the Galaxy interface, click the USER tab and then the REGISTER tab.
13. Create a log-in ID.
14. You can now use your new Galaxy instance.

Shutting down your Galaxy instance:

1. Make sure all data and workflows you want to retain are downloaded and saved.
2. Go to the Cloudman Console. Enter the public DNS address, followed by: "/cloud" (example below)
   1. ec2-XX-XX-XXX-XXX.compute-1.amazonaws.com/cloud
3. Click TERMINATE CLUSTER. Make sure both boxes are checked, then click continue.