HOWTO get started using GINAS on Amazon Cloud

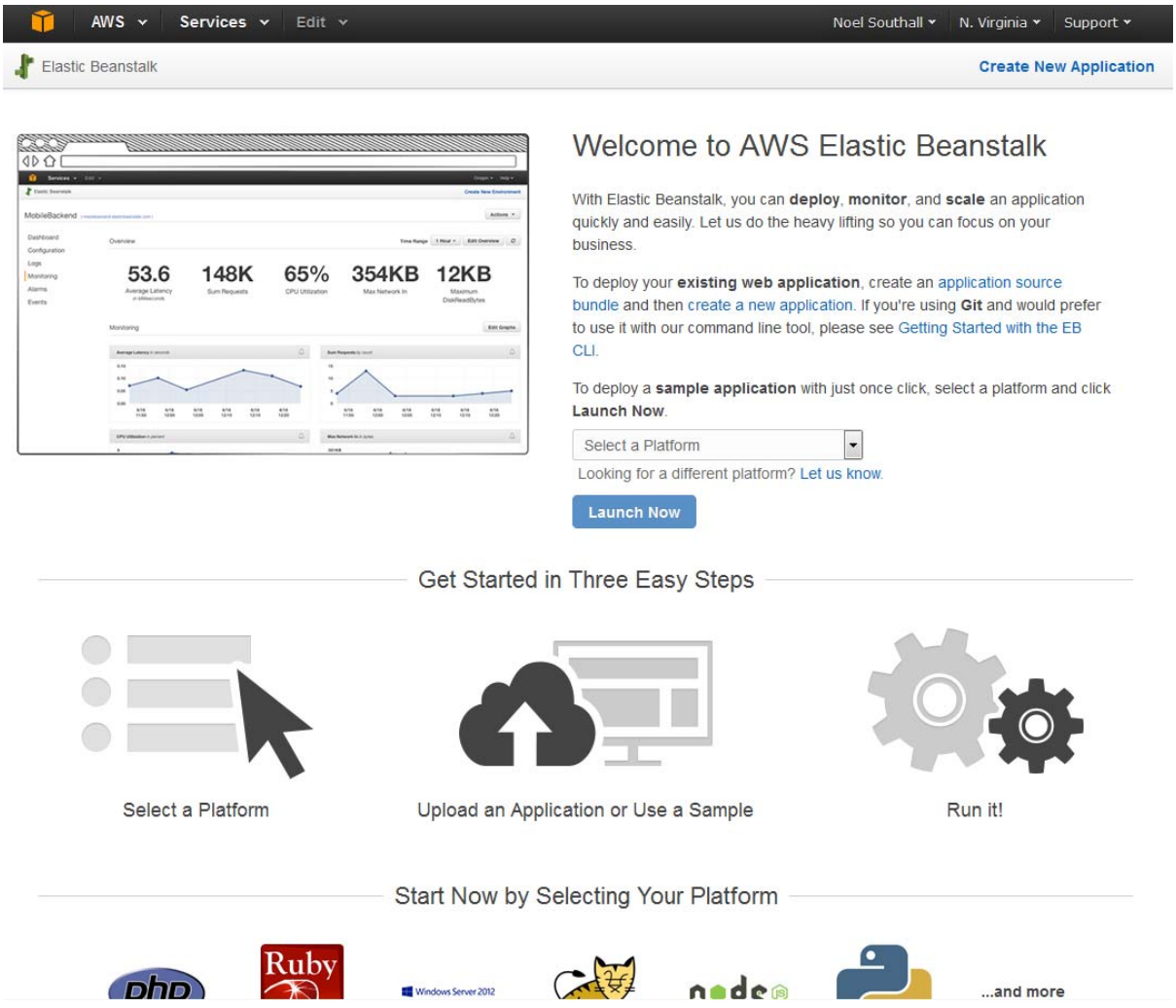
Deploy the GINAS client application

Create Account on Amazon Web Services (Free for 12 months – requires credit card to open)

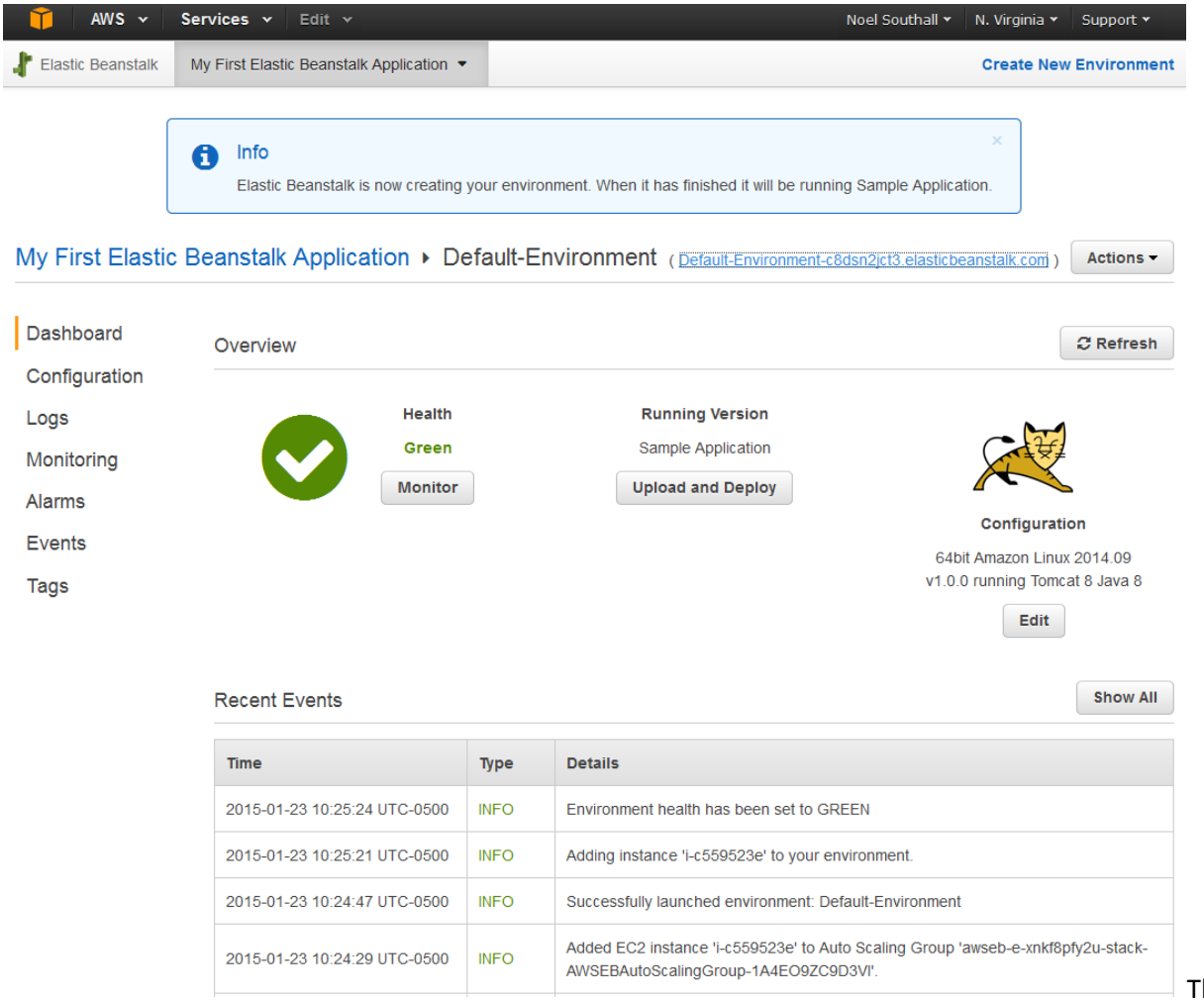
https://console.aws.amazon.com/console/home

Go to Elastic Beanstalk

https://console.aws.amazon.com/elasticbeanstalk/home



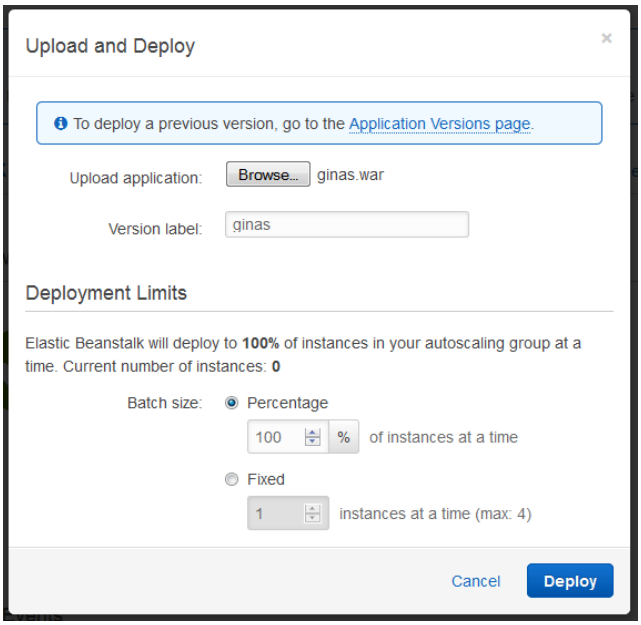
'Select a Platform' = Tomcat and 'Launch Now'. It takes a couple of minutes to launch, wait for Health to to go to Green.



The URL for this web webserver is now given in the right-upper corner (yours will be different). If you go to it now, you should see a 'Congratulations' notice.

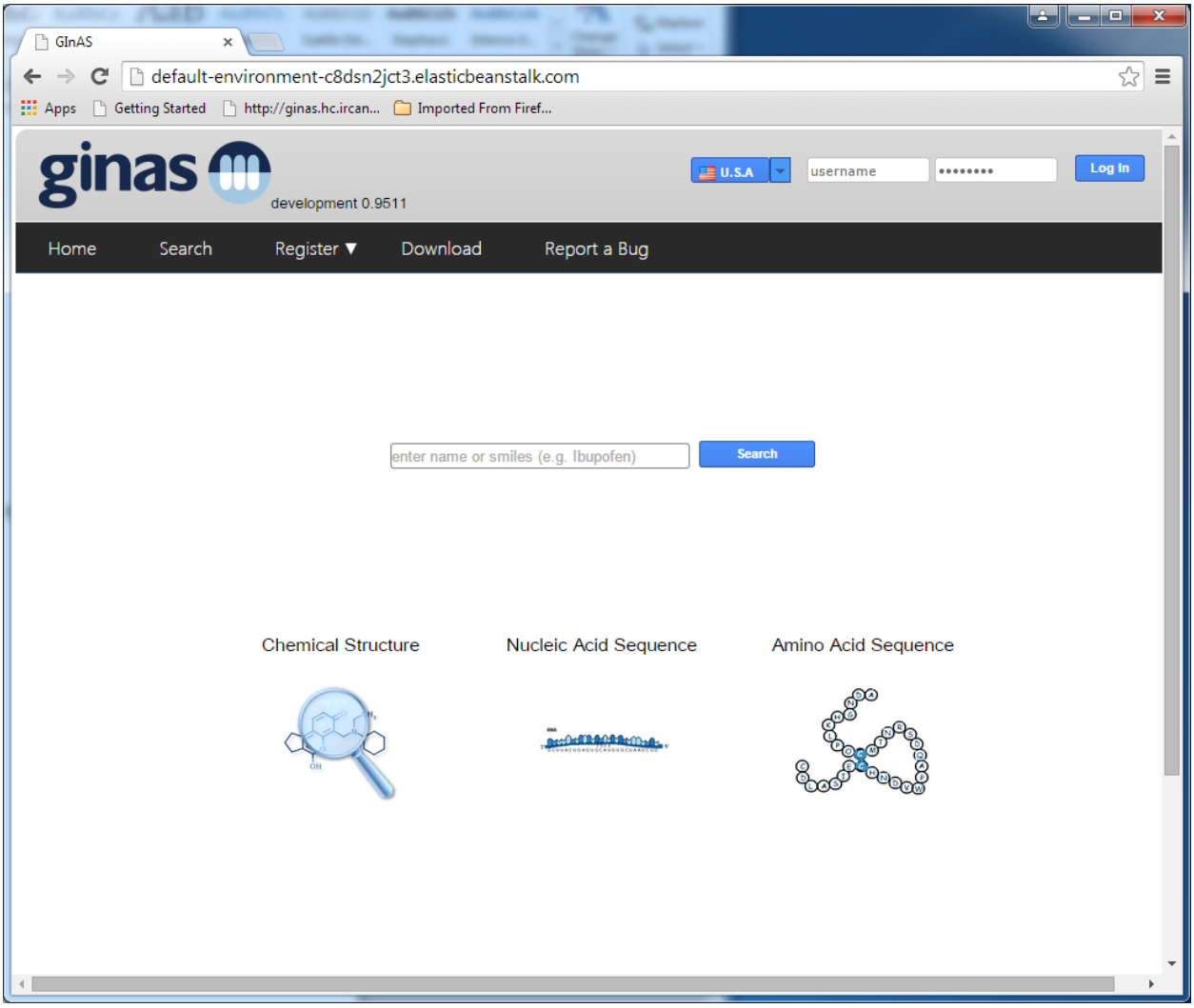
http://default-environment-c8dsn2jct3.elasticbeanstalk.com/

Click on 'Upload and Deploy' … a dialog will appear. 'Browse …' to your 'ginas.war' web application resource file. And click 'Deploy'.



Wait for the Health of your ‘Default-Environment’ to return to Green (takes a couple of minutes).

If you go back to your URL, the GINAS client application will now appear.



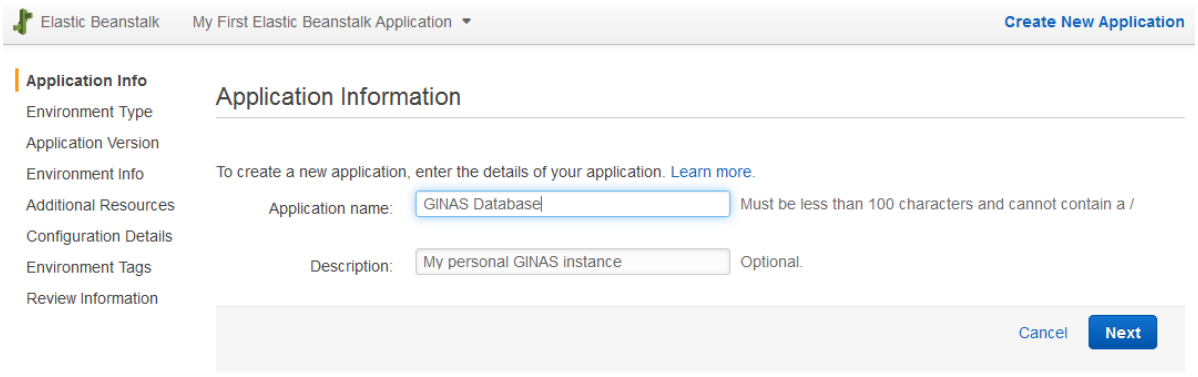
That previous URL now becomes your GINAS client URL.

http://default-environment-**c8dsn2jct3**.elasticbeanstalk.com/

To bring up your own database and render service, you'll need to launch 2 more environments. Start with a new GINAS database itself.

Go back to your Elastic Beanstalk home page, and click on 'Create New Application' in the upper right corner.

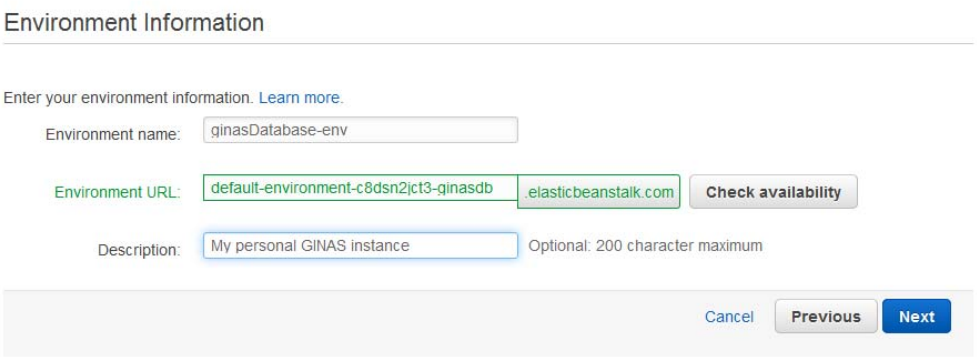
Set Application Name = GINAS Database. Click 'Next'.



Set Environment Type: Environment tier = Web Server. Predefined configuration = Tomcat. Environment type = Single instance. Click 'Next'.

Set Source = Upload your own. 'Browse …' to the file 'ginas-v7.war'. Click 'Next'.

Set Environment Information: Environment name = ginasDatabase-env. Environment URL =[choose your own URL, e.g. default-environment-c8dsn2jct3-ginasdb]. Check availability. Click 'Next'.



No need to set additional resources … click 'Next'

Use default Configuration Details … click 'Next'

No need to add Environment Tags … click 'Next'

Review and click 'Launch'. It takes a couple of minutes to launch. Health may change to Red for a minute or two while it is launching.

A simple request of the API should return a random hex number.

http://default-environment-**c8dsn2jct3**-ginasdb.elasticbeanstalk.com/key

Then repeat all these steps for the render service.

Go back to your Elastic Beanstalk home page, and click on 'Create New Application' in the upper right corner.

Set Application Name = GINAS Renderer. Click ‘Next’.

Set Environment Type: Environment tier = Web Server. Predefined configuration = Tomcat. Environment type = Single instance. Click ‘Next’.

Set Source = Upload your own. ‘Browse …’ to the file ‘renderer.war’. Click ‘Next’.

Set Environment Information: Environment name = ginasRenderer-env. Environment URL =[choose your own URL, e.g. default-environment-c8dsn2jct3-renderer]. Check availability. Click ‘Next’.

No need to set additional resources … click ‘Next’

Use default Configuration Details … click ‘Next’

No need to add Environment Tags … click ‘Next’

Review and click ‘Launch’. It takes a couple of minutes to launch. Health may momentarily change to Red while it is launching.

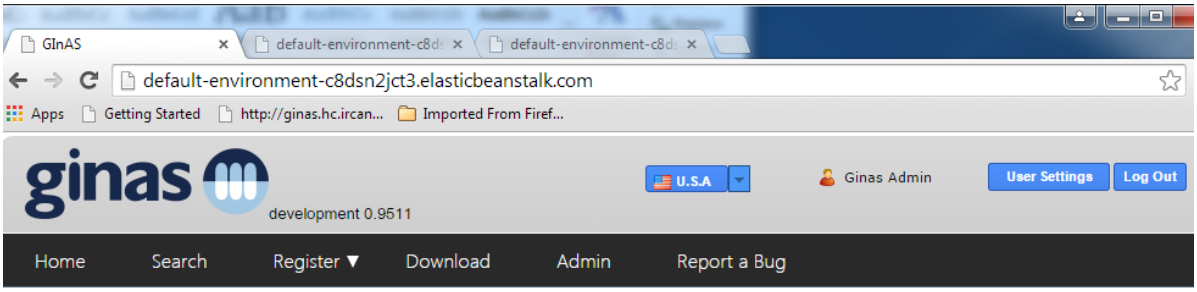
A simple request of the API should return a picture of pyridine.

http://default-environment-**c8dsn2jct3**-renderer.elasticbeanstalk.com/?structure=c1cnccc1&standardize=true&preset=INN&size=500&format=svg&stereo=true&fuse=true&amap=null

Configure your client to use your own GINAS database instance

In your GINAS client application, log in as ‘admin/adminginas’. Click on ‘Admin’.

If you get an error message asking you to log in --- your session may have timed out. Return to the main client URL, and log in again.



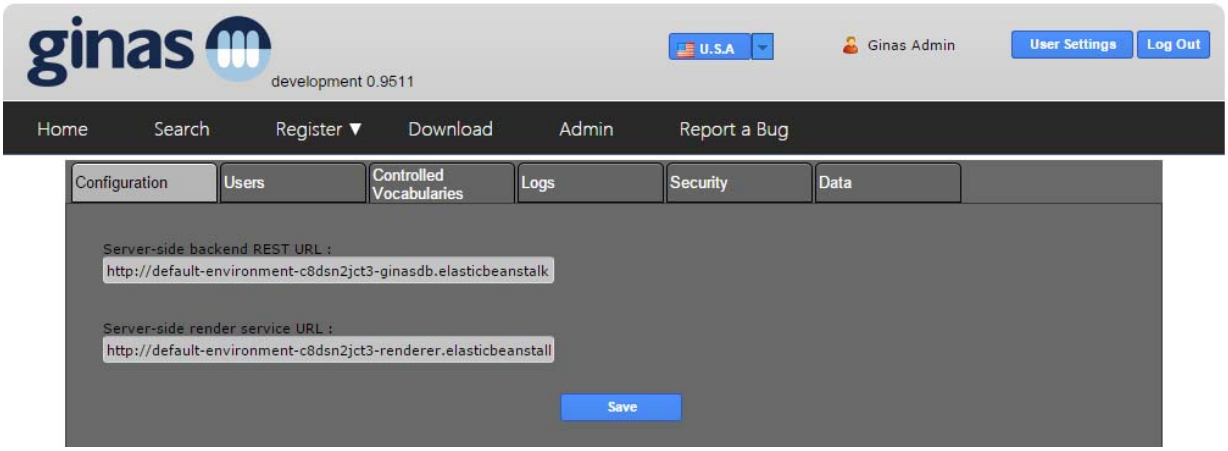
Click on ‘Admin’.

Configure Server-side backend REST URL to your personal API/database:

http://default-environment-**c8dsn2jct3**-ginasdb.elasticbeanstalk.com/

Configure Server-side render service to your personal renderer:

http://default-environment-**c8dsn2jct3**-renderer.elasticbeanstalk.com/



Now go back home and do a simple search for ‘ibuprofen’. Nothing should return --- your own instance is empty and ready for your test depositions.