

HOWTO get started using GINAS on Amazon Cloud

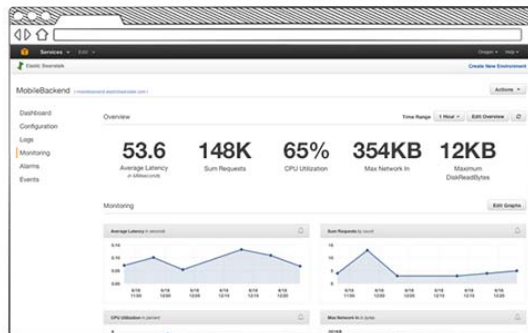
Deploy the GINAS client application

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>



Welcome to AWS Elastic Beanstalk

With Elastic Beanstalk, you can **deploy**, **monitor**, and **scale** an application quickly and easily. Let us do the heavy lifting so you can focus on your business.

To deploy your **existing web application**, create an [application source bundle](#) and then [create a new application](#). If you're using **Git** and would prefer to use it with our command line tool, please see [Getting Started with the EB CLI](#).

To deploy a **sample application** with just once click, select a platform and click **Launch Now**.

Select a Platform

Looking for a different platform? [Let us know](#).

[Launch Now](#)

Get Started in Three Easy Steps



Select a Platform



Upload an Application or Use a Sample



Run it!

Start Now by Selecting Your Platform



Windows Server 2012



node.js



...and more

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

The screenshot shows the AWS Elastic Beanstalk console. At the top, there's a navigation bar with 'AWS', 'Services', and 'Edit' menus. Below that, the 'Elastic Beanstalk' service is selected, and the application 'My First Elastic Beanstalk Application' is chosen. A 'Create New Environment' button is visible. An info box states: 'Elastic Beanstalk is now creating your environment. When it has finished it will be running Sample Application.'

The main section is titled 'My First Elastic Beanstalk Application' with a breadcrumb for 'Default-Environment' and a link to the environment's URL: default-environment-c8dsn2jct3.elasticbeanstalk.com. There's an 'Actions' dropdown button.

On the left, a sidebar lists navigation options: Dashboard, Configuration, Logs, Monitoring, Alarms, Events, and Tags. The 'Overview' tab is active, showing a 'Health' status of 'Green' with a green checkmark icon and a 'Monitor' button. The 'Running Version' is 'Sample Application' with an 'Upload and Deploy' button. The 'Configuration' section shows '64bit Amazon Linux 2014.09 v1.0.0 running Tomcat 8 Java 8' with an 'Edit' button.

Below this, the 'Recent Events' section is shown with a 'Show All' button. It contains a table of events:

Time	Type	Details
2015-01-23 10:25:24 UTC-0500	INFO	Environment health has been set to GREEN
2015-01-23 10:25:21 UTC-0500	INFO	Adding instance 'i-c559523e' to your environment.
2015-01-23 10:24:47 UTC-0500	INFO	Successfully launched environment: Default-Environment
2015-01-23 10:24:29 UTC-0500	INFO	Added EC2 instance 'i-c559523e' to Auto Scaling Group 'awseb-e-xnxf8pfy2u-stack-AWSEBAutoScalingGroup-1A4EO9ZC9D3VI'.

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'.

Upload and Deploy

To deploy a previous version, go to the [Application Versions page](#).

Upload application:

Browse...

ginas.war

Version label:

ginas

Deployment Limits

Elastic Beanstalk will deploy to **100%** of instances in your autoscaling group at a time. Current number of instances: **0**

Batch size:

☒ Percentage

100

%

 of instances at a time

☐ Fixed

1

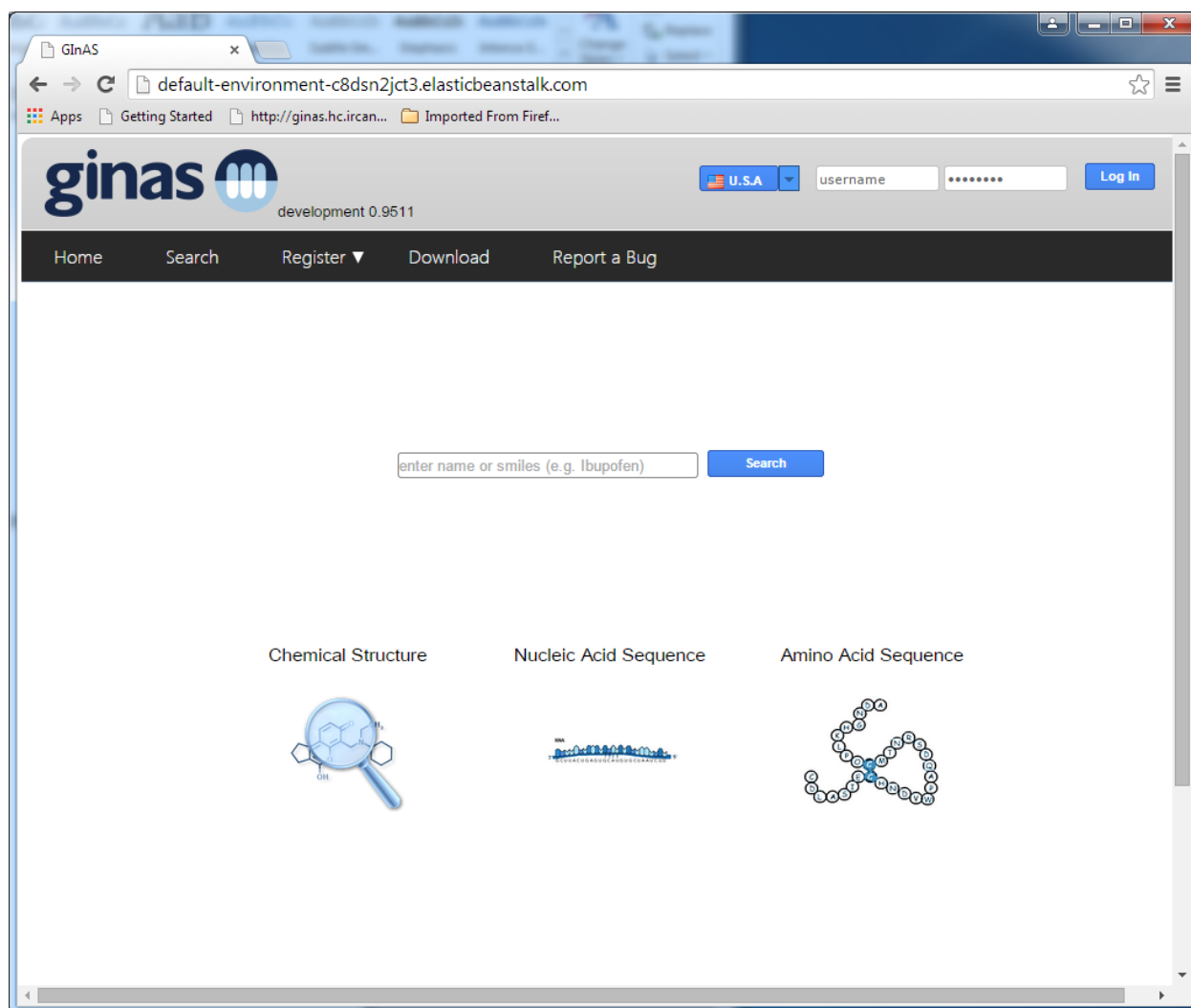
instances at a time (max: 4)

Cancel

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'.

Environment Information

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.

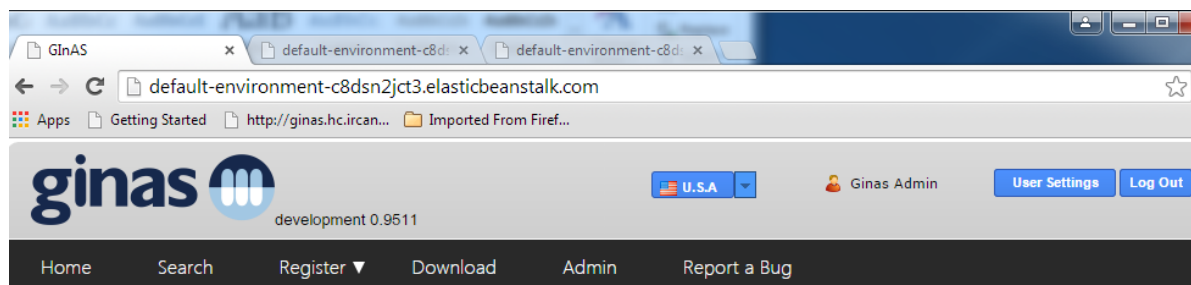
A simple request of the API should return a picture of pyridine.

<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.



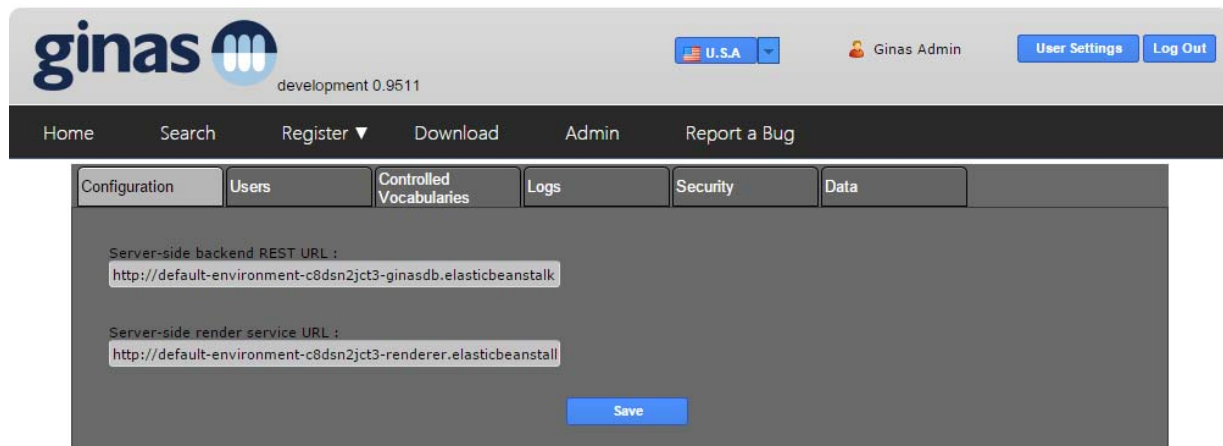
Click on 'Admin'.

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/>



The screenshot shows the Ginas Admin web interface. At the top, there is a header with the 'ginas' logo, a version indicator 'development 0.9511', a language dropdown set to 'U.S.A.', a user profile 'Ginas Admin', and buttons for 'User Settings' and 'Log Out'. Below the header is a navigation bar with links: Home, Search, Register (with a dropdown arrow), Download, Admin, and Report a Bug. The main content area has a tabbed interface with tabs for Configuration, Users, Controlled Vocabularies, Logs, Security, and Data. The 'Configuration' tab is active, displaying two text input fields. The first field is labeled 'Server-side backend REST URL :' and contains the value 'http://default-environment-c8dsn2jct3-ginasdb.elasticbeanstalk'. The second field is labeled 'Server-side render service URL :' and contains the value 'http://default-environment-c8dsn2jct3-renderer.elasticbeanstalk'. A blue 'Save' button is positioned at the bottom right of the configuration area.

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.