The GenOuest bioinformatics core facility has recently deployed a private cloud - powered by OpenNebula - named Genocloud. It provides several images for the life science and bio-informatic community and covers domains like Next Generating Sequencing (NGS), bio-imaging or proteomics.

We offer three different ways to deploy and use a Galaxy instance inside Genocloud:

- a classic Galaxy server embedded inside a template;
- the latest Galaxy installation on any launched virtual machine with a CHEF cookbook;
- a Galaxy server embedded inside a template and pre-configured for a virtual SGE cluster.

**Classic Galaxy**

A Galaxy template is provided to deploy a simple ready-to-use server with more than 30 NGS tools installed from the main toolshed.

**Galaxy under SGE cluster**

A Galaxy SGE template is offered to combine a Galaxy server with a virtual SGE cluster. This Galaxy template is configured to run jobs on this cluster.

The virtual cluster nodes can be manage with EC2 via our Xgrid internal web application.

**Galaxy installed from CHEF cookbook**

We have developed a CHEF ([www.getchef.com](http://www.getchef.com)) cookbook to install the latest release of Galaxy on a virtual machine.

Via our own Xgrid web application, we can carry out the installation of this cookbook on an already active virtual machine.