Creating work areas required by grotto

Introduction

Grotto requires a specific directory structure on the server. Also, the repository root in ergatis must have certain parameters. Before running any transcriptomic analysis on grotto, the following steps are required.

Procedure

1. Create the requisite directories.

To run transcriptomics pipelines, there are required directories. You can create them using the script /local/projects/RNASEQ/script_repository/shell/create rnaseq analysis dirs.generic.sh.

For this example, we will imagine a project XYABC, you should use your own already existing project area.

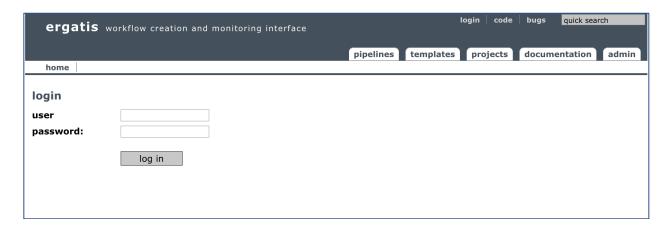
/local/projects/RNASEQ/script_repository/shell/create_rnaseq_analysis_dirs.generic.sh --p2 /local/projects-t2/XYABC --p3 /local/projects-t3/XYABC --t /local/scratch/XYABC

The script creates the necessary links between 'projects-t2' and 'projects-t3' to store large output files in 'projects-t3' instead of 'projects-t2'.

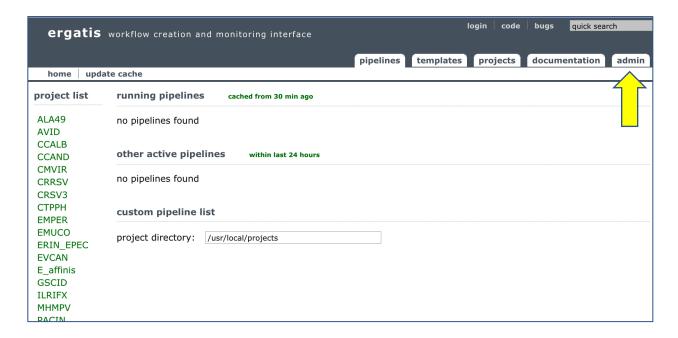
2. Create ergatis repository root using the ergatis GUI.

Open ergatis at http://ergatis.igs.umaryland.edu/cgi/.

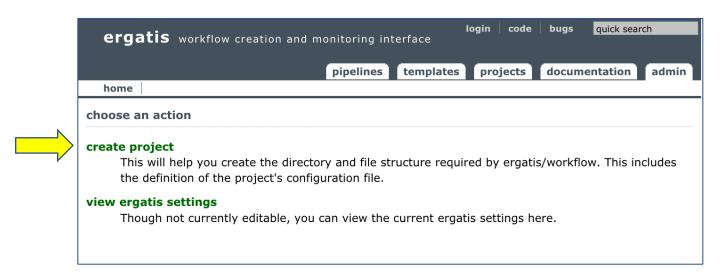
Login with your IGS credentials.



Select the 'admin' tab.

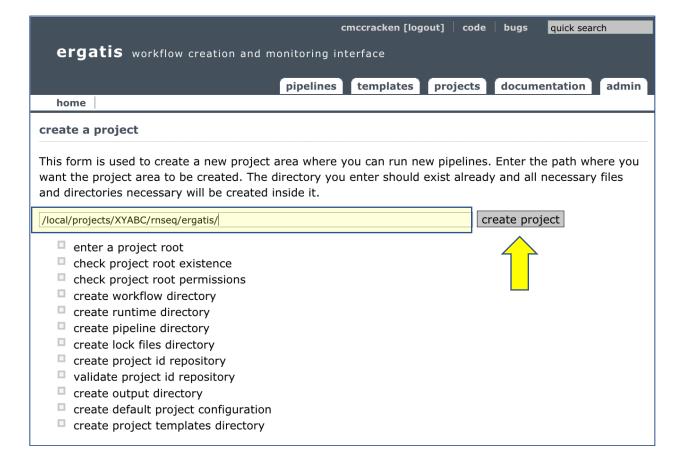


Select 'create project'.

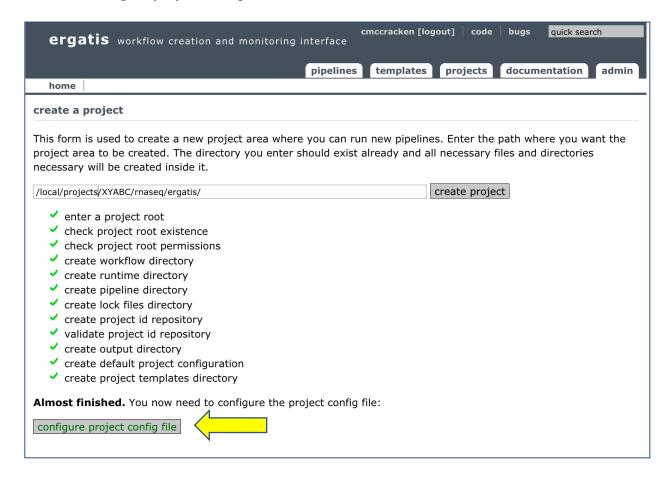


Type project path as '/local/projects/XYABC/rnaseq/ergatis', where XYABC is your project area.

Click the 'create project' button.

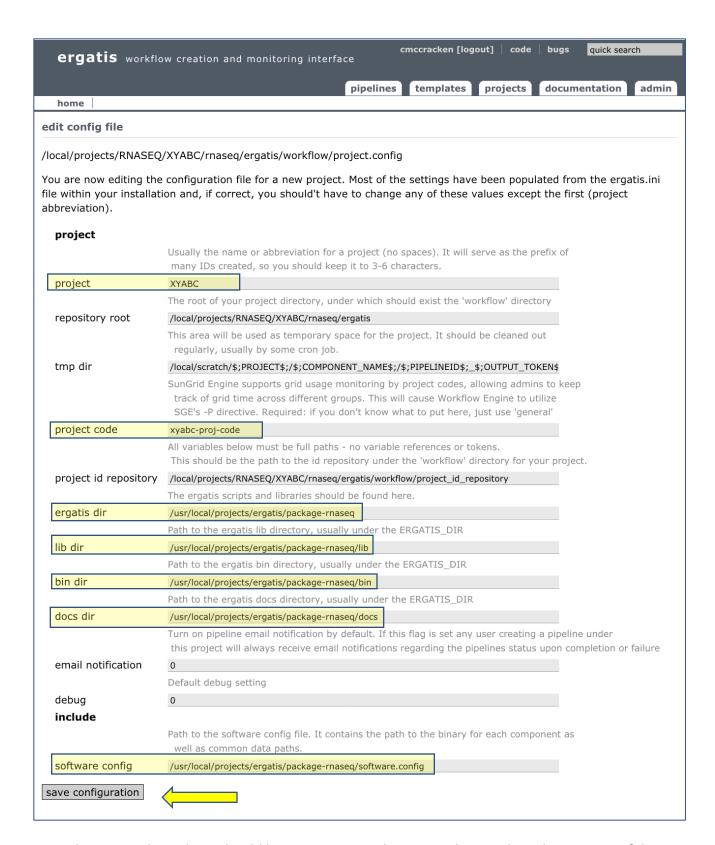


Click the 'configure project config file' button.



Edit the project config file.

- Enter your project and project code. The project code is specific to your project and is used for billing.
- Change "package-latest" to "package-rnaseq" for ergatis dir, lib dir, bin dir, docs dir, and software config parameters.
- Click the save configuration button.



Once this is complete, there should be a message on the screen that you have been successful. You are now ready to launch an analysis pipeline on grotto.