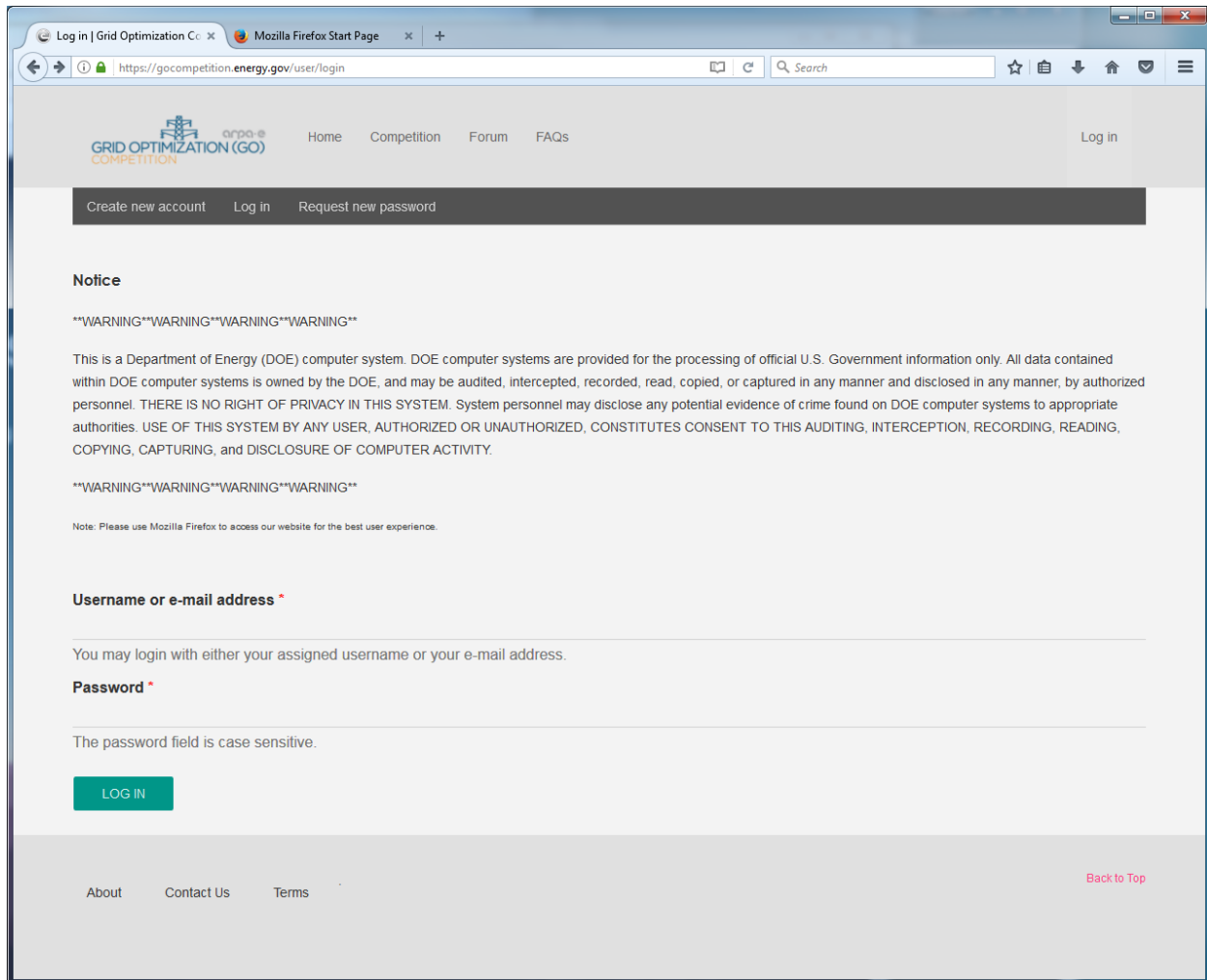
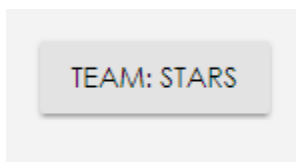


How to Add an SSH Public Key on GitHub and Make a Submission

1. Go to the GO Competition login page <https://gocompetition.energy.gov/user/login> and log in using the username or e-mail and password associated with your account.



2. Upon login you will be in your “My account” page. The SSH information is on your Team page, which is accessible from the My account page or the [Competition Overview](#) by clicking the TEAM: xxx button (TEAM: STARS in this example).



3. On the Team page you will see a blue box called COPY SSH INFORMATION

Team: Stars


Team Github Username: pfog

Competition ID: pfog

SSH Information: ssh-rsa AAAAB3NzaC1y...

COPY SSH INFORMATION

4. Click on the blue box to put the SSH information into your copy buffer (don't copy anything else until you complete the paste in step 10).
5. Go to the GitHub login page (<https://github.com/login>) and log in using the username/e-mail address and password associated with your account.



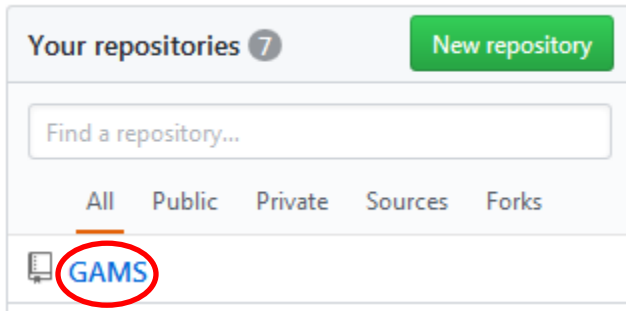
Sign in to GitHub

Username or email address

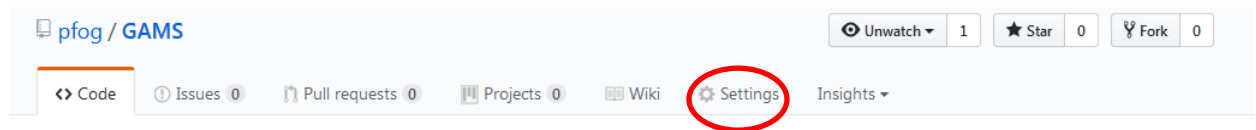
Password [Forgot password?](#)

Sign in

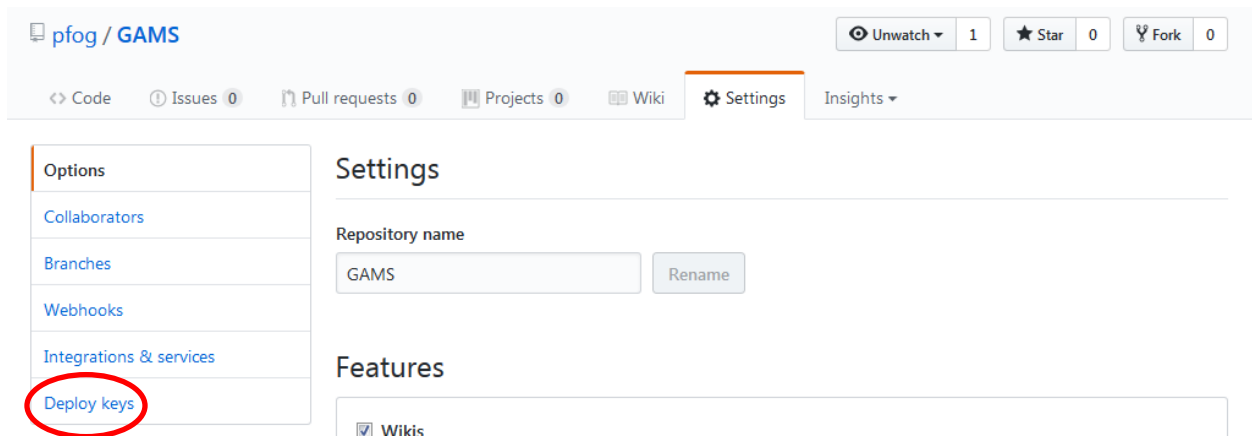
- From the list of Your repositories, select the GO Competition related repository (GAMS in this example)



- Click the “Settings” option from the tab bar along the top of the page.



- Click the “Deploy keys” option from the pane on the left hand side of the page.



9. Click “Add deploy key” button on the right hand side of the page.

The screenshot shows the GitHub repository settings page for 'pfog / GAMS'. The 'Settings' tab is selected, and the 'Deploy keys' section is active. On the right side of the 'Deploy keys' section, there is a button labeled 'Add deploy key' which is circled in red. The main content area displays 'There are no deploy keys for this repository'. The left sidebar contains a menu with options: Options, Collaborators, Branches, Webhooks, Integrations & services, and Deploy keys.

10. Enter a “Title” (e.g. GO Competition) and copy the SSH Public Key in the copy buffer (from step 3—no copying meanwhile) into the “Key” input field and click the green Add key button.

The screenshot shows the GitHub repository settings page for 'pfog / GAMS' with the 'Deploy keys' form open. The 'Title' field contains 'GO Competition' and the 'Key' field contains an SSH public key: `ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA71uauPG1mOPubaqWnAE7HtaSBC14BO8jVkn8D09UkiFMDNqrh7Ewgp ... TPfbA4y81Ln+U+MjVZQ== svcarpacomp@arpacomp.pnl.gov`. Below the key field, there is a checkbox for 'Allow write access' with the text 'Can this key be used to push to this repository? Deploy keys always have pull access.' The 'Add key' button is circled in red. The left sidebar contains a menu with options: Options, Collaborators, Branches, Webhooks, Integrations & services, and Deploy keys.

11. You may now return to the GO Competition Submission page, fill the information (Language and Dataset are selected from drop-down menus), and submit an algorithm for evaluation by clicking on the green SUBMIT button.

TEAM: STARS

Make Submission

Submission Name
GAMS example submission
Provide a simple name to help you distinguish between submissions.

Submission Notes
this is for an example submission
Please enter any notes you may have regarding this submission

Repository Name *
GAMS
Please enter the name of the repository you would like us to pull from.

Repository Branch
master

Language *
GAMS
What language is the executable for?

Dataset *
Phase 0 Feas179
Please select the data set to be evaluated against.

SUBMIT

12. The resulting screen gives a unique SubmissionID (red oval) that is used to track the submission. The Submission History shows no results immediately after submission.

The screenshot displays a submission details page. At the top, the SubmissionID '7-1497394783' is highlighted with a red oval. Below this, there are two main sections: 'Submission Information' and 'Technical Details'. The 'Submission Information' section includes 'Team Name: Stars', 'Submission Name: GAMS example submission', and 'Submission Notes: this is an example submission'. The 'Technical Details' section includes 'Repository Branch: master', 'Repository Name: GAMS', 'Language: GAMS', and 'Dataset: Phase 0 IEEE 14 Bus'. At the bottom, there is a 'Submission History' section with the text 'No Submission Results in the System.'

7-1497394783

▼ Submission Information

Team Name: Stars
Submission Name: GAMS example submission
Submission Notes: this is an example submission

▼ Technical Details

Repository Branch: master
Repository Name: GAMS
Language: GAMS
Dataset: Phase 0 IEEE 14 Bus

Submission History

No Submission Results in the System.

13. After evaluation and scoring have completed the submissionID page shows the various steps in the process. The final step gives the URL where the results may be downloaded (red oval) and the score received (blue oval).

7-1497394783

Submission Information

Team Name: Stars
 Submission Name: GAMS example submission
 Submission Notes: this is an example submission

Technical Details

Repository Branch: master
 Repository Name: GAMS
 Language: GAMS
 Dataset: Phase 0 IEEE 14 Bus

Submission History

Date/Time	Status	Status Notes	Value
2017 Jun 13 16:02:50	scoring finished	Logs and results are available here: https://dtn2.pnl.gov/arpacomp/v1/7-1497394783.tar.gz	30958.93
2017 Jun 13 16:02:20	metric - solved within time and no violations	Number of scenarios solved within the time cut-off and no violations	100.00
2017 Jun 13 16:01:50	metric - solved within time	Number of scenarios solved within the time cut-off	100.00
2017 Jun 13 16:01:20	metric - solved with no violations	Number of scenarios solved with no violations	100.00
2017 Jun 13 16:00:49	evaluation finished	Evaluation completed, scoring initiated.	
2017 Jun 13 15:59:45	started	Initiating evaluation.	
2017 Jun 13 15:59:44	submitted	Submission sent for processing.	

14. The tar.gz file has a separate directory (output1...outputn) for each scenario (n is 100 for this example) plus scenario_results.csv and score.txt files.
15. The scenario_results.csv file contains the identification information, the parameters used in scoring, and a summary of results from each scenario: the scenario number and the official time in seconds. For GAMS runs that produced a solution0.txt file, the summary information from line 3 of solution0.txt for each scenario is copied to scenario_results.csv.

16. The score.txt file is also a csv file with the score, objective value (computed from the solution), the maximum feasibility violation, the associated Contingency ID (base case is 0), and the official time for each scenario. With the scoring parameters in scenario_results.csv and the values in score.txt, the computed score for each scenario can be verified. The score shown in the Submission History panel above is the geometric mean of each of the scenario scores.
17. Each of the output directories contains the solution1.txt and solution2.txt files used to evaluate the solution. Language dependent output and log files are also included. For the GAMS example used here these include log1.txt, submission.log, solution0.txt, and four GAMS lst files. See the [Tutorial on submitting reference GAMS code](#) for a complete explanation.