Github Enterprise Repository, CoE CIS Tech IT Support

Who can use Github Enterprise?

The site license for Cornell’s Github Enterprise system covers the following use cases:

- Enrolled Students, Faculty, and Academic Staff of Cornell University.
- Only for non-commercial, academic (instructional or research) usage.
- Non-academic staff are separately licensed per-person. Contact us for more information.
- External users can gain access if they are collaborating with Cornell on academic projects. Please contact us for details.

Why should I use GitHub Enterprise over the public GitHub.com?

The features are almost the same.

- The main difference for users is the ability to create an unlimited number of public and private repositories for free. This covers coursework and research projects. However, if your project is truly open source, then hosting it at github.com with a personal account may be the best option for you.
- Another difference is that authentication is through Cornell single-sign-on (netid).
- Some research projects have specific requirements on where data can be hosted. Github Enterprise is run locally here at Cornell in Gates Hall. The server is backed up off-site using Cornell’s EZBackup service.

How do I sign up?

- You can access Github Enterprise at: https://github.coecis.cornell.edu/.
- Single-sign-on is available through Cornell LDAP. Please use your Cornell netid and password to login.
- Access is restricted to current Cornell students, faculty and academic staff. Your account may be disabled if you are not part of any of these groups.
- Guest IDs can be created for external collaborators to use Github Enterprise.

How do I start using Github Enterprise?

- Install a Git client. Github Enterprise can be used with almost any other client that supports GitHub.com.
- Add an SSH key to your account on this page: https://github.coecis.cornell.edu/settings/keys. There are instructions linked at the top of the page on how to do this.
- Create a repository and add collaborators. Note that new users must first login to Github to create an account before you can add them.
- Additional documentation on Github Enterprise is available online: https://help.github.com/enterprise/

How do I migrate from SVN to Github Enterprise?
If you are currently using an SVN server, you can easily migrate your repository to Git using instructions from Github:


Migrating your repo from CIT's TeamForge server to Github Enterprise can be done with the following steps:

1. Make sure you have your SSH key configured in Github Enterprise.
2. Create a new repo on Github.
3. Checkout your SVN repo and run svn2git to convert the code.
4. Upload the newly converted git repo to Github.

Here are some example Linux commands to accomplish the migration:

```bash
svn checkout --username <your netid> https://forge.cornell.edu/svn/repos/<project name>
cd <project name>
svn2git https://forge.cornell.edu/svn/repos/<project name> --rootistrunk --username <your netid>
git remote add origin git@github.coecis.cornell.edu:<path to your new Git repo>
git push --mirror git@github.coecis.cornell.edu:<path to your new Git repo>
```

**GitHub SSH Key Fingerprints**

What are GitHub's SSH key fingerprints?

Public key fingerprints can be used to validate a connection to a remote server. These are our GitHub's public key fingerprints:

<table>
<thead>
<tr>
<th>Cipher</th>
<th>Algo</th>
<th>Fingerprint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3:fd:a9:8f:ff:ff:f3:a6</td>
</tr>
<tr>
<td>RSA</td>
<td>SHA-256</td>
<td>o8EvG7nYo/FGWudYIvwhlHg1DZ27Ry4NuO6MCmXcE1IRQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:7a:e1:93:a0:11:19</td>
</tr>
<tr>
<td>DSA</td>
<td>SHA-256</td>
<td>S1SzXnly84eVMTpB93hWb2fISjng3E7CE4bnhEFw</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6f:9f:90:ec:96</td>
</tr>
<tr>
<td>ECDSA</td>
<td>SHA-256</td>
<td>hWmDOUbhOCzQTXAdqzn</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6:29:23:84:11:1dfd</td>
</tr>
<tr>
<td>ED25519</td>
<td>SHA-256</td>
<td>yi2VTRVeeNE9fQMOn4xCg0Lys9OnS7d/N3wKVUcOk</td>
</tr>
</tbody>
</table>

**What are the policies for using this service?**

By utilizing this service you agree to the following:

- I am an enrolled student or associated faculty of Cornell University or I am an external collaborator on Cornell academic work.
- I have read and understand the Cornell University policy on [Responsible Use of Electronic Communications](https://policy.cornell.edu/content/responsible-use-electronic-communications).
- I am using the repository for non-commercial, academic use related to instructional or research work at Cornell University.
- Computing activities that interfere with this purpose are not permitted. Prior written approval from the IT Director is required for: 1) Any significant use of computing resources
that is not clearly related to the department's goals and functions; 2) Work that will involve
the use of large quantities of resources.

- Due to the nature of academic computing, no guarantee of privacy of data can be
  provided. Further, in return for receiving accounts, users grant permission to ITSG staff to
  access any of the user's files or transmissions in the normal course of their duties. The IT
  staff will hold in strict confidence anything that they may discover in the user's files except:
  1) for discussions with other ITSG staff; 2) when they have reason to suspect a violation of
     law or of university or department policy; or 3) when they have good reason to provide the
     files to another member of the community, and in this case notification of the access will be
     given, to the user.

GitHub hereby grants to Licensee a revocable, non-exclusive, non-transferable, non-assignable right and license to permit its
Enrolled Students and Associated Faculty to run and use the
Software installed on Licensee's servers solely for such Enrolled Students' and Associated Faculty's non-commercial, academic
use related to such Enrolled Students' studies at Licensee's educational institution.

Licensee agrees to cooperate with GitHub to enforce the terms
of this Addendum and the License and Support Agreement in
connection with Enrolled Students' use of the Software,
including, without limitation, sending appropriate notices to and
terminating access to the Software for Enrolled Students who
misuse the Software in any way, promptly upon GitHub's
reasonable request.

For any other questions, please contact the IT Service Group: itcoecis-help@cornell.edu