

Git

A collection of resources.

External Guides

- [How to Git](#)

Bare Git Repository in your CS Home directory

[Source documentation](#)

SSH to a CS server

```
ssh cnetid@linux.cs.uchicago.edu
```

Initialize a bare repo in your CS home directory

Note that a bare repo cannot be edited directly. You will need to checkout the repository elsewhere in your home directory.

```
$ mkdir $HOME/gitbare/myproject.git  
$ cd $HOME/gitbare/myproject.git  
$ git init --bare --shared
```

Check out your repository

Even if you are on one of the linux.cs servers you will need to checkout the bare repo.

```
git clone cnetid@linux.cs.uchicago.edu:~/gitbare/myproject.git
```

Example

```
kauffman@hades:~$ ssh kauffman3@linux.cs.uchicago.edu  
The authenticity of host 'linux.cs.uchicago.edu (128.135.164.173)' can't be  
established.  
ECDSA key fingerprint is SHA256:W8rbGZbIv57nNbvtCKF7FKMoqR0Wblw6lWzrh93HiyQ.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'linux.cs.uchicago.edu' (ECDSA) to the list of  
known hosts.
```

kauffman3@linux.cs.uchicago.edu's password:

This system runs Ubuntu 20.04

For long running jobs please consider using the Slurm cluster `Peanut`.

<https://howto.cs.uchicago.edu/slurm:peanut>

Questions:

techstaff@cs.uchicago.edu

Discord: <https://discord.gg/ZVjX8Gv>

- Techstaff

```
kauffman3@linux3:~$ mkdir myproject.git
kauffman3@linux3:~$ cd myproject.git/
kauffman3@linux3:~/gitbare/myproject.git$ git init --bare --shared
Initialized empty shared Git repository in
/home/kauffman3/gitbare/myproject.git/
kauffman3@linux3:~/gitbare/myproject.git$ cd
kauffman3@linux3:~$ git clone
kauffman3@linux.cs.uchicago.edu:~/gitbare/myproject.git
Cloning into 'myproject'...
kauffman3@linux.cs.uchicago.edu's password:
warning: You appear to have cloned an empty repository.
```

```
kauffman3@linux3:~$ cd ~/myproject
kauffman3@linux3:~/gitbare/myproject$ touch README
kauffman3@linux3:~/myproject$ git add README
kauffman3@linux3:~/myproject$ git commit -a
[master (root-commit) b549cd7] add readme
Committer: kauffman3 <kauffman3@linux3.cs.uchicago.edu>
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README
```

```
kauffman3@linux3:~/myproject$ git push
kauffman3@linux.cs.uchicago.edu's password:
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 212 bytes | 212.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To linux.cs.uchicago.edu:~/myproject.git
* [new branch]      master -> master
```

From:

<https://howto.cs.uchicago.edu/> - **How do I?**

Permanent link:

<https://howto.cs.uchicago.edu/vcs:git?rev=1611072585>

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