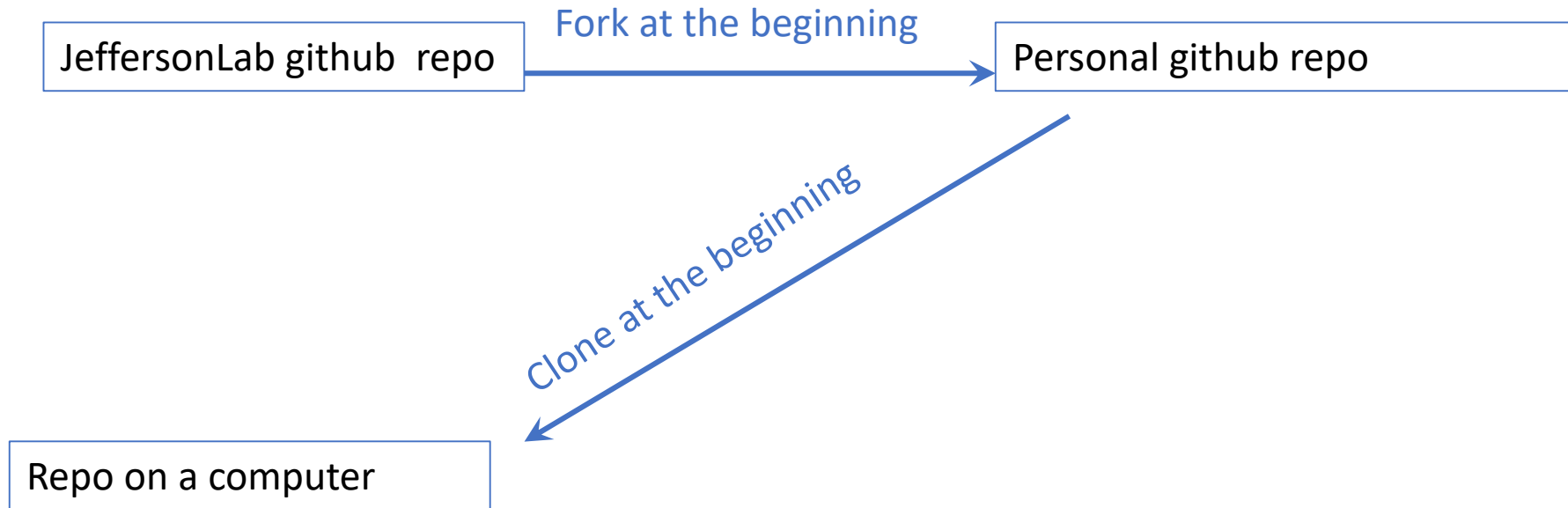


Some simple Git instructions to get one started for NPS

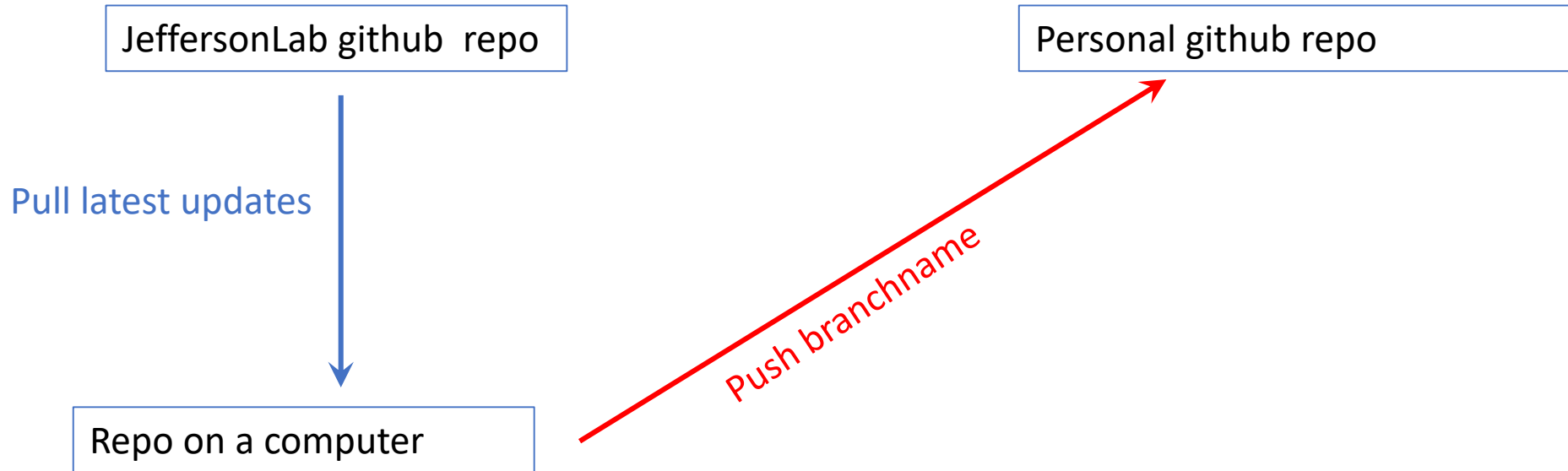
- Need to create an account on github.com
- On github.com
 - Fork <https://github.com/JeffersonLab/hcana> .
 - The main branch is called “develop”.
 - Do not use “master” branch
 - Fork https://github.com/JeffersonLab/nps_replay
 - Then main branch is called “main”.
 - Click on the “Watch” button for both repos. Get emails about when repo is updated.
- Make a git token (see github [help for token](#))
 - Needed when using `https://github.com/MarkKJones/nps_replay.git`
 - Have to use for cdaq machines with the single cdaq account
- Create an SSH key (see github [help for SSH](#))
 - Needed when using the `git@github.com:MarkKJones/hcana.git`
 - Good for ifarm or personal machine after setting up the SSH key
 - Suggest not to use a SSH passphrase (just hit return when asked for one)
- A reference for git : <https://git-scm.com/>

Suggest git workflow: Initial Setup



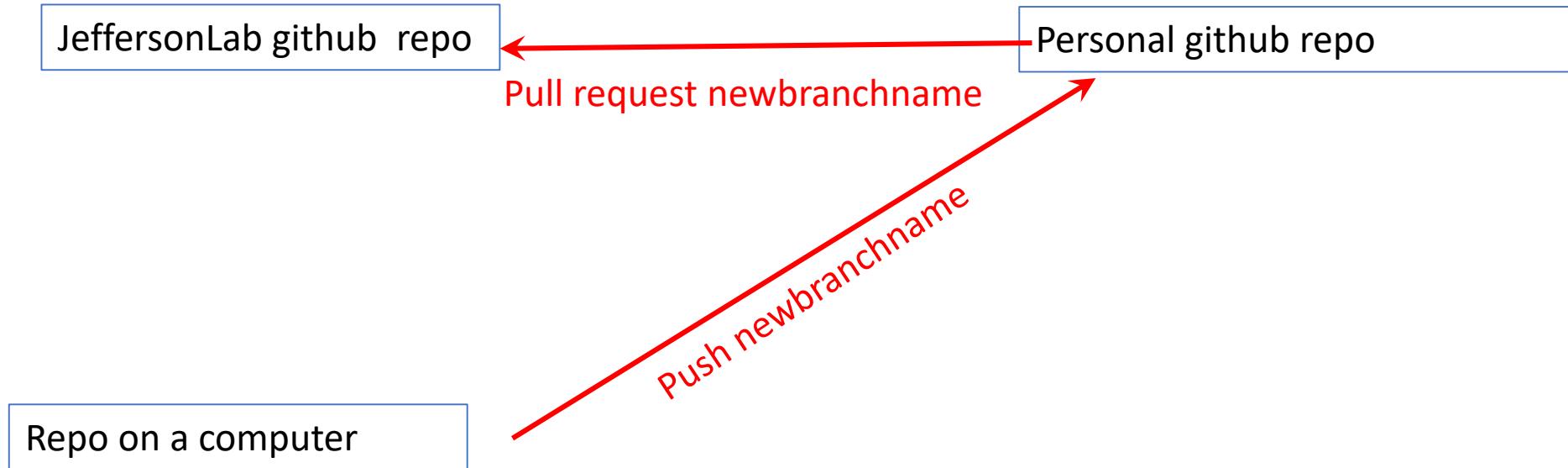
- Clone repo from personal git hub repo
 - This sets up a remote alias “origin”
- Create a new remote alias “upstream”
 - `git remote add --track develop upstream https://github.com/JeffersonLab/hcana`
- Make new branch : `git branch newbranchname`
- To know status of branch: `git status`
- Change branches: `git checkout newbranchname`
- Do work in this branch.

Suggest git workflow: Update to JeffersonLab git repo



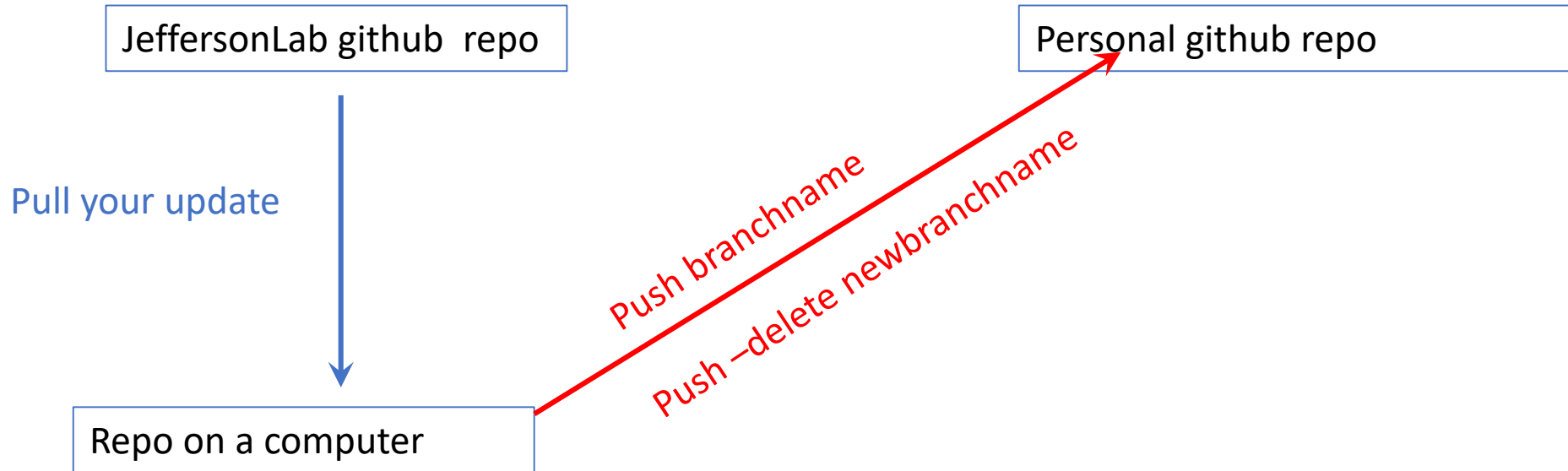
- Check which branch you are working on: `git status`
- Change to develop (hcana) or the main (nps_replay) branch: `git checkout branchname`
- Pull down changes for JeffersonLab: `git pull upstream branchname`
- You can use “git gui” to access the history of the branch to see the recent changes.
- Push the changes to branchname on personal github to keep updated: `git push origin branchname`

Suggest git workflow: Making changes to a repo



- Work on a new branchname: `git branch newbranchname ; git checkout newbranchname`
- If new file: `git add filename`
- If editing existing file(s): `git add file1 file2`
- The “add” command stages files so they are ready to be committed.
- Commit filename, file1 and file2 : `git commit -m “ put message here”`
- Push you commits to the personal github repo: `git push origin newbranchname`
- Tell others who could pull down your branch to test
- Open a pull request to JeffersonLab github repo: Under the “contribute” menu

Suggest git workflow: Your pull request to JeffersonLab git repo is accepted



- Check which branch you are working on: `git status`
- Change to develop (hcana) or the main (nps_replay) branch: `git checkout branchname`
- Pull down changes for JeffersonLab: `git pull upstream branchname`
- You can use “git gui” to access the history of the branch to see the recent changes.
- Push the changes to branchname on personal github to keep updated: `git push origin branchname`
- Delete the new branch that had the change: `git branch -d newbranchname`
- Delete the new branch on personal github: `git push origin --delete newbranchname`
- Start another new branch