

Git workflows for IESP

Outline

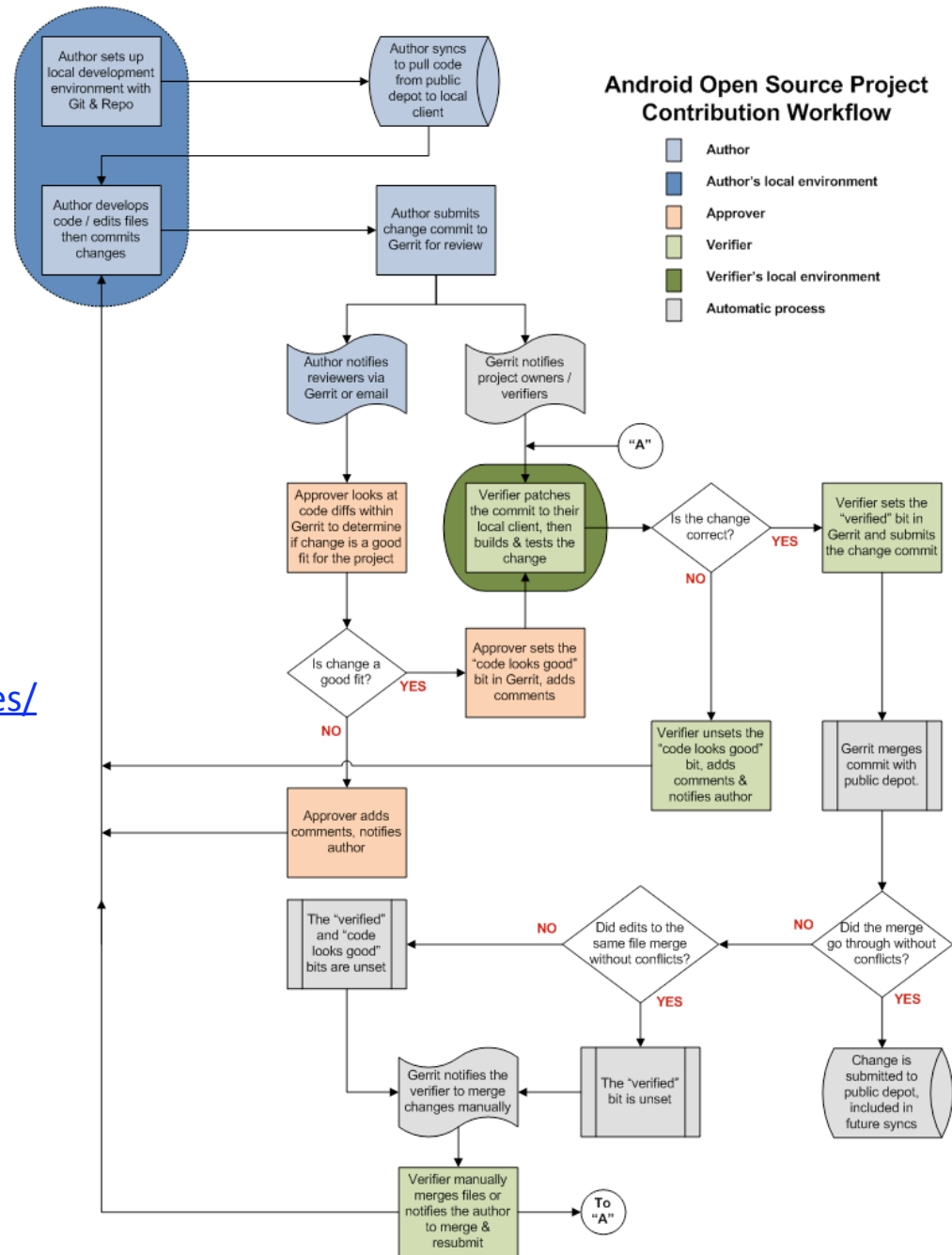
- Relationships of repositories
 - Global view
 - Individual developer view
- Developer work cycle
- Alternate, refereed model
- Initial set-up
- Handling Web2Py updates
- What else?

Keep it simple

Compared to Android workflow

Android Git Workflow

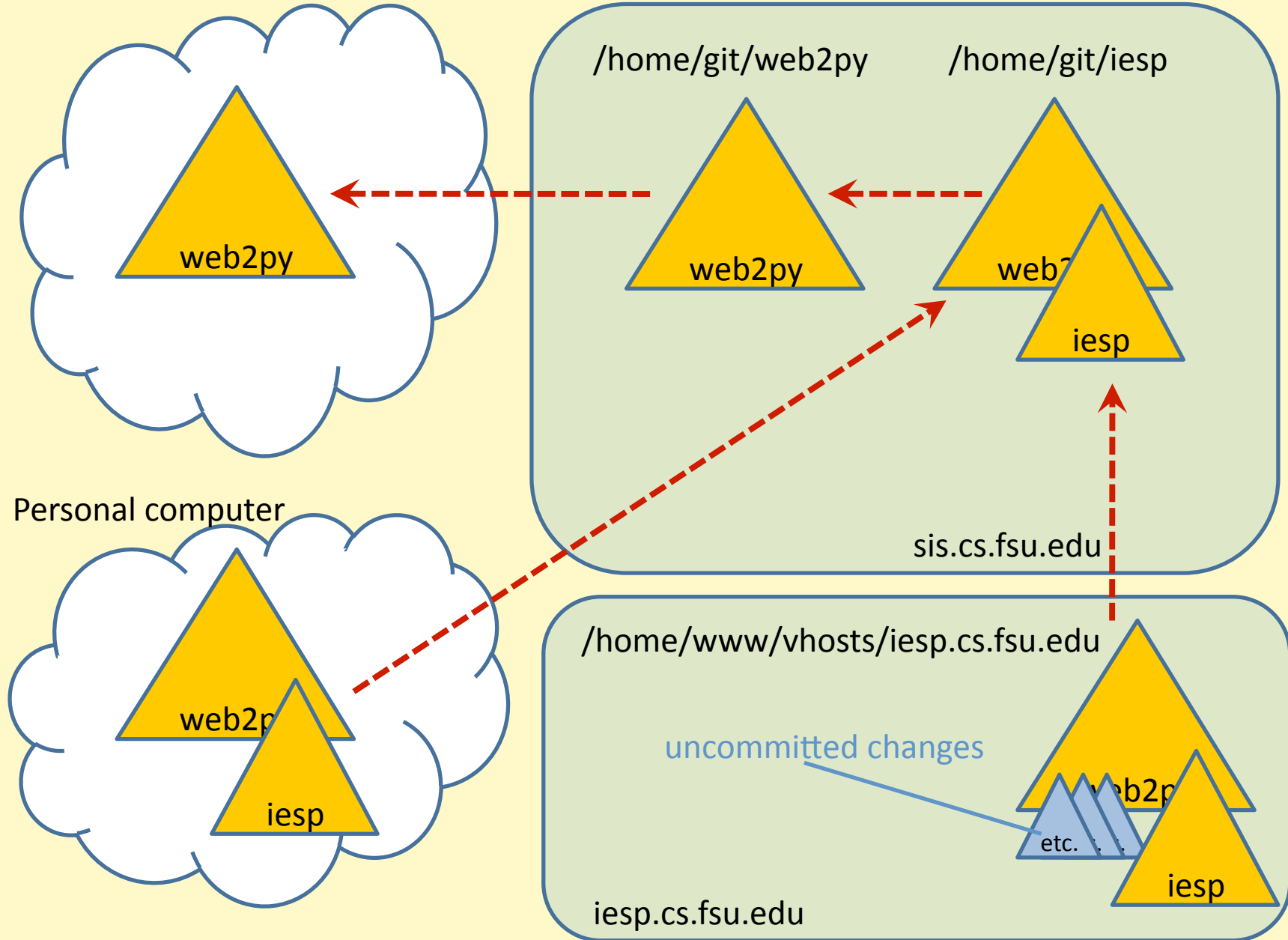
<http://source.android.com/submit-patches/workflow>



Relationships of repositories

Including repositories for
handling Web2Py updates

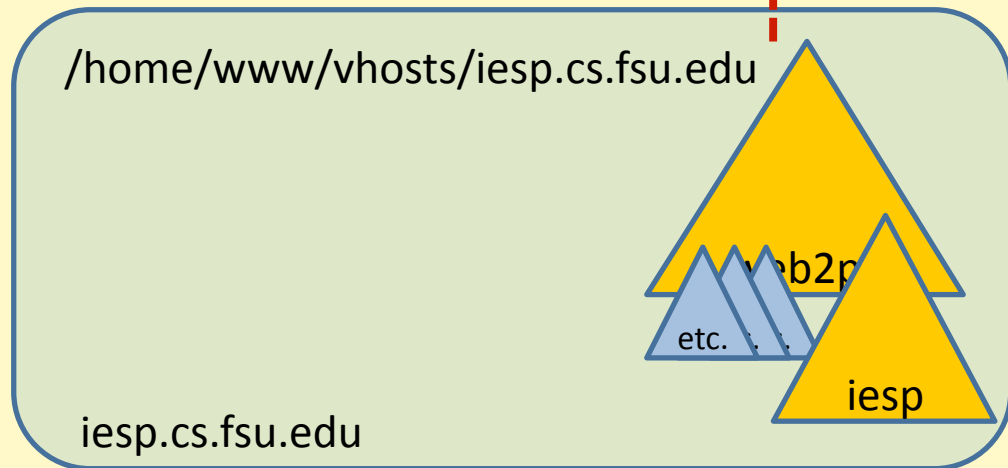
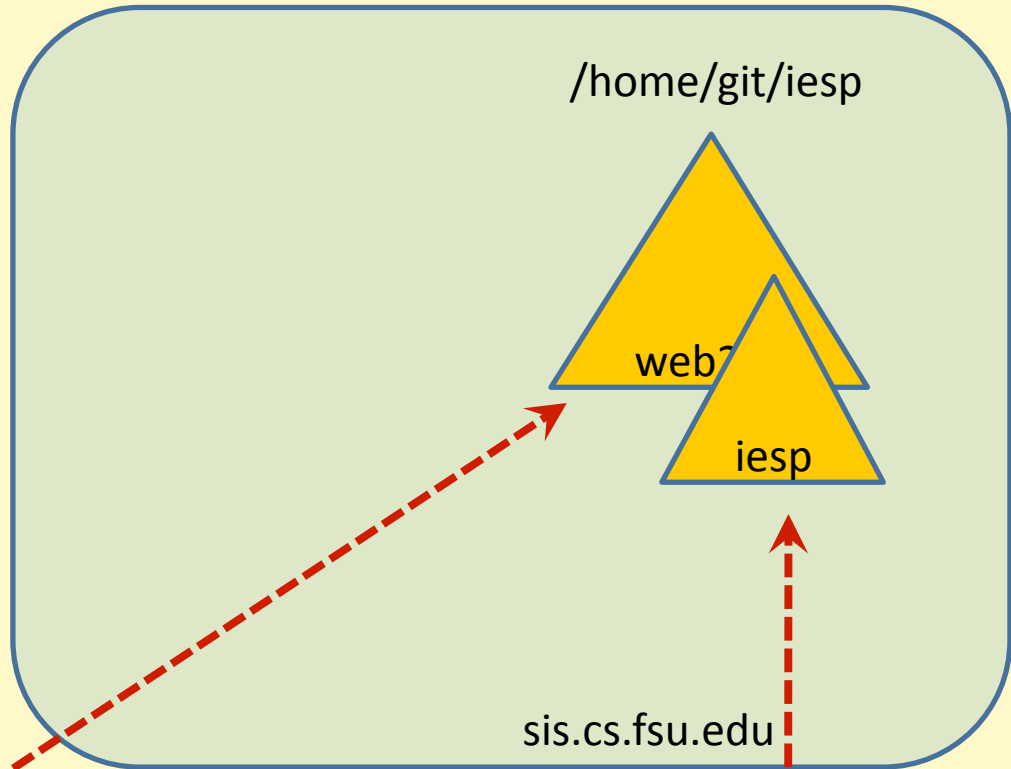
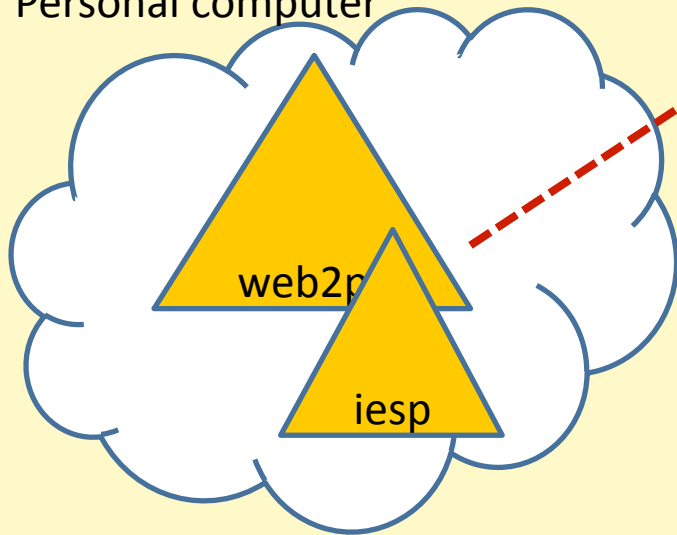
Web2Py distribution site



Individual developer view

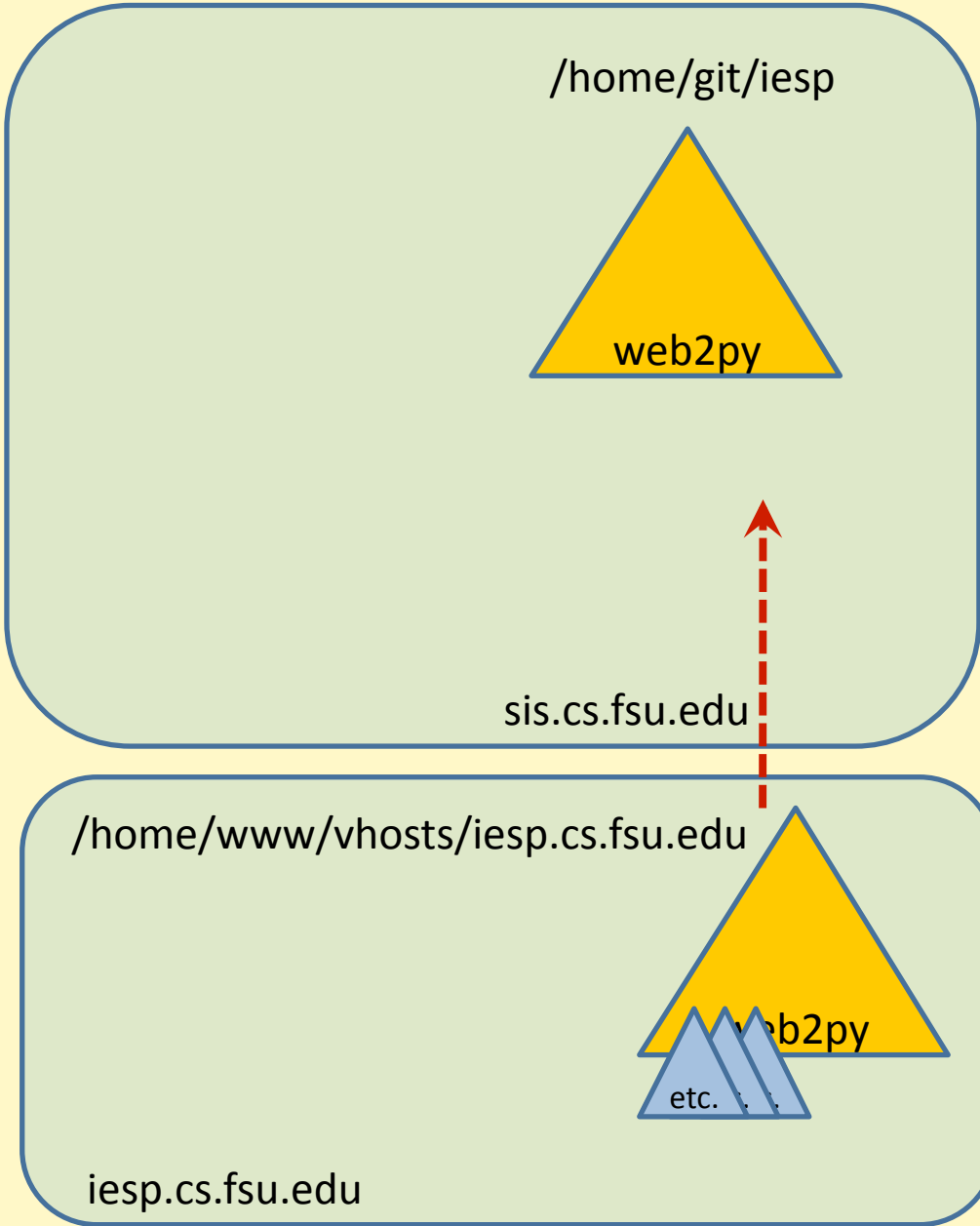
Can ignore repositories used to roll in Web2Py updates.

Personal computer



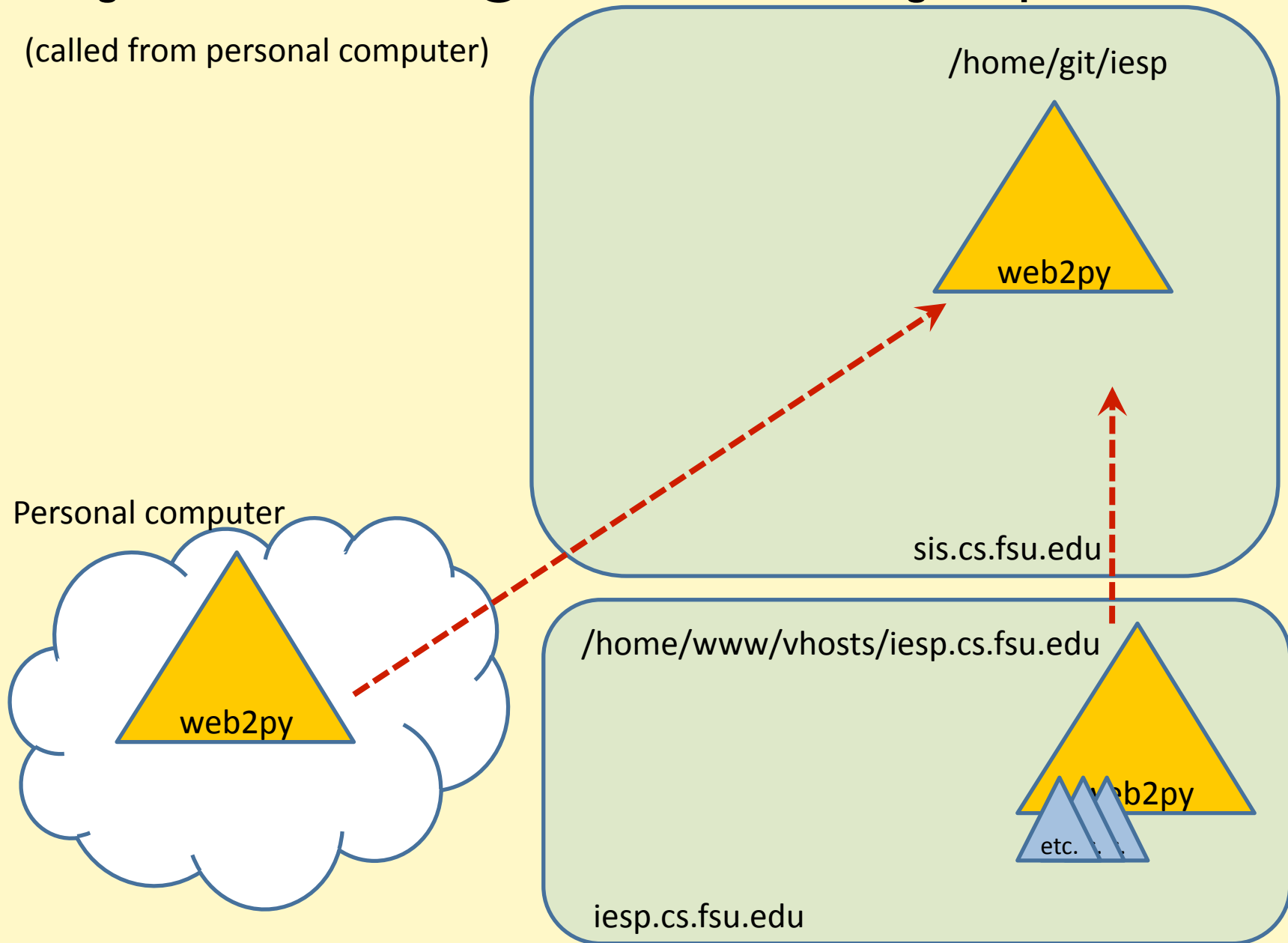
Normal developer workflow

Requires a bit of trust in one
another

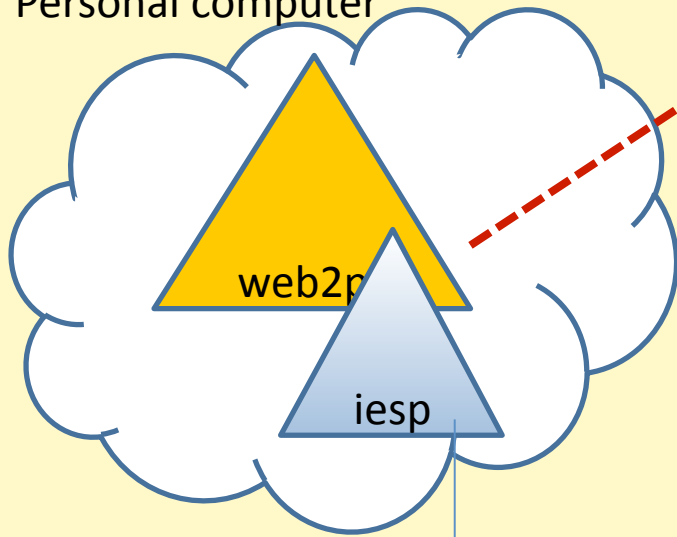


git clone ssh://baker@sis.cs.fsu.edu/home/git/iesp

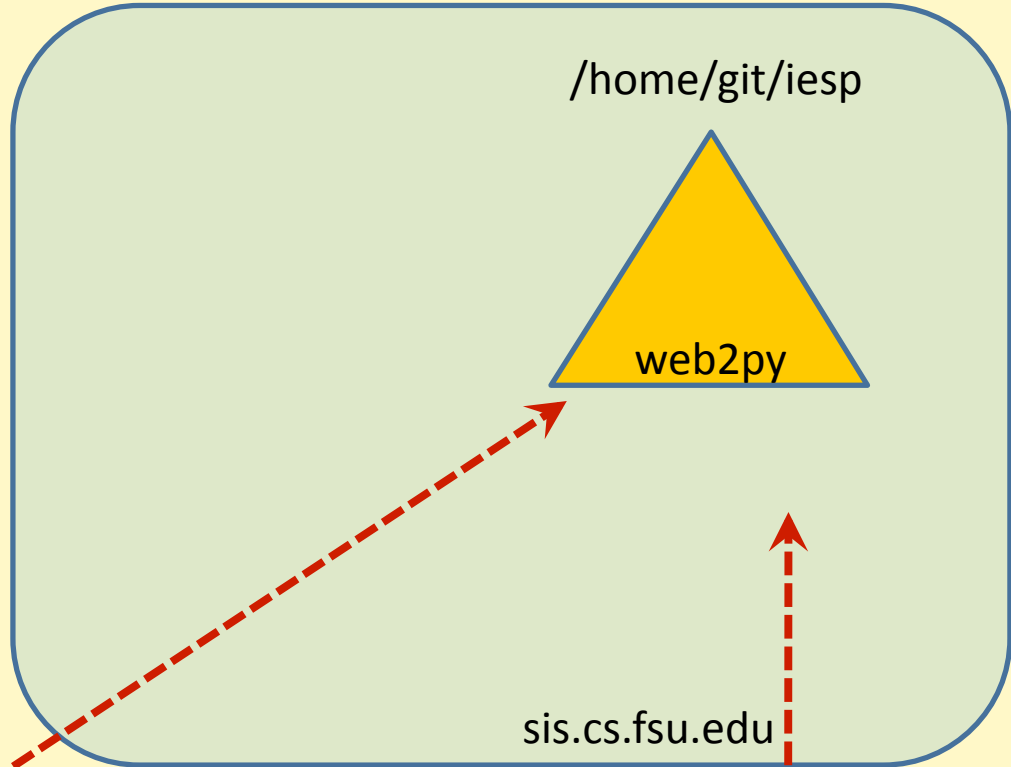
(called from personal computer)



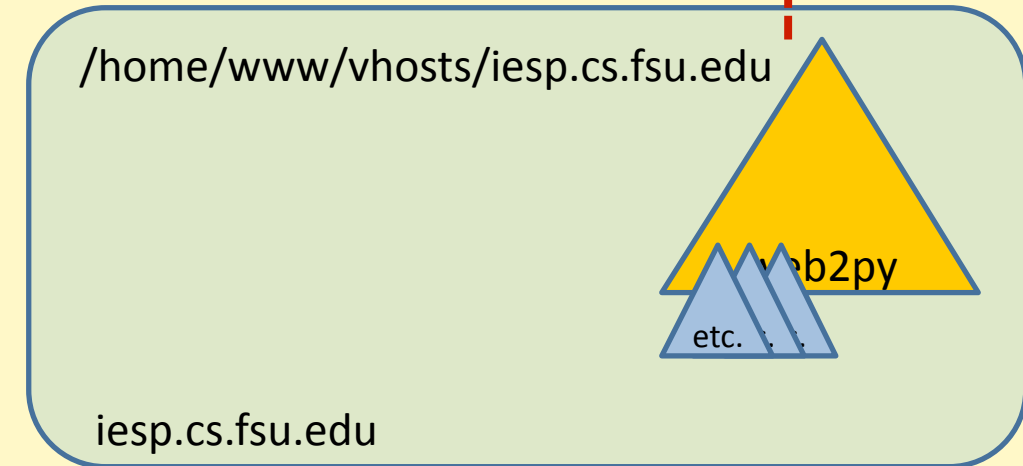
Personal computer



local uncommitted changes



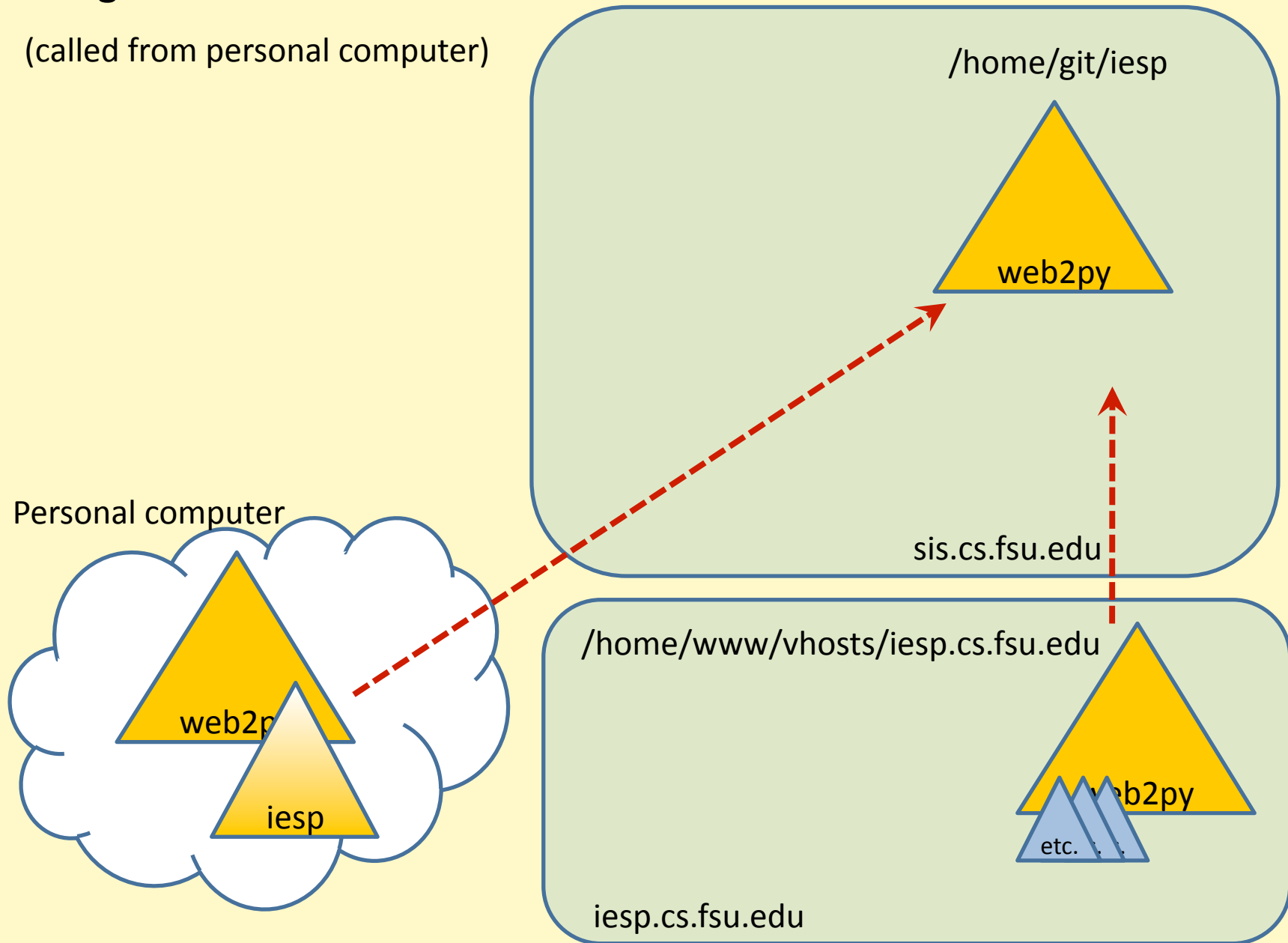
sis.cs.fsu.edu



iesp.cs.fsu.edu

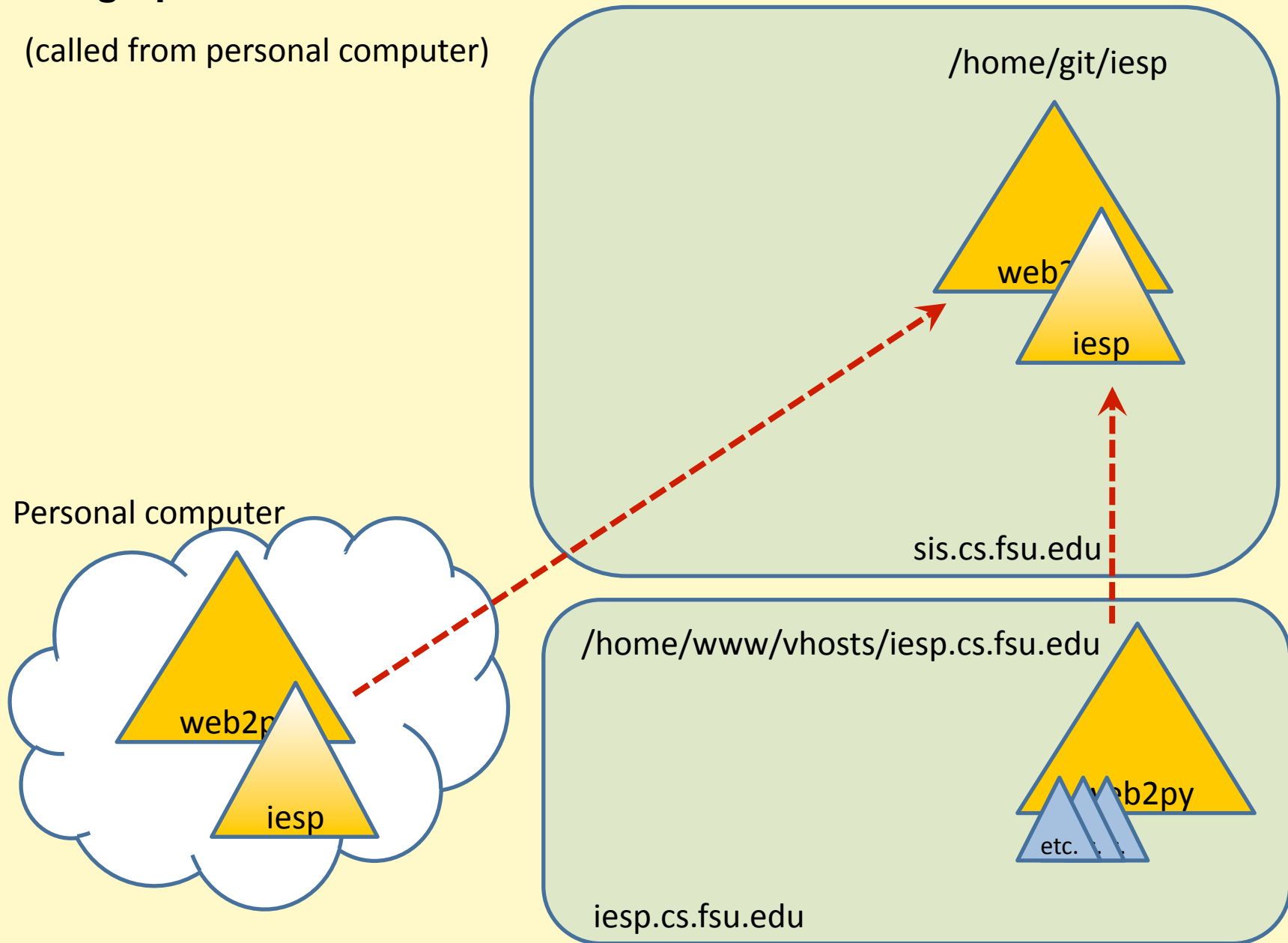
git commit

(called from personal computer)



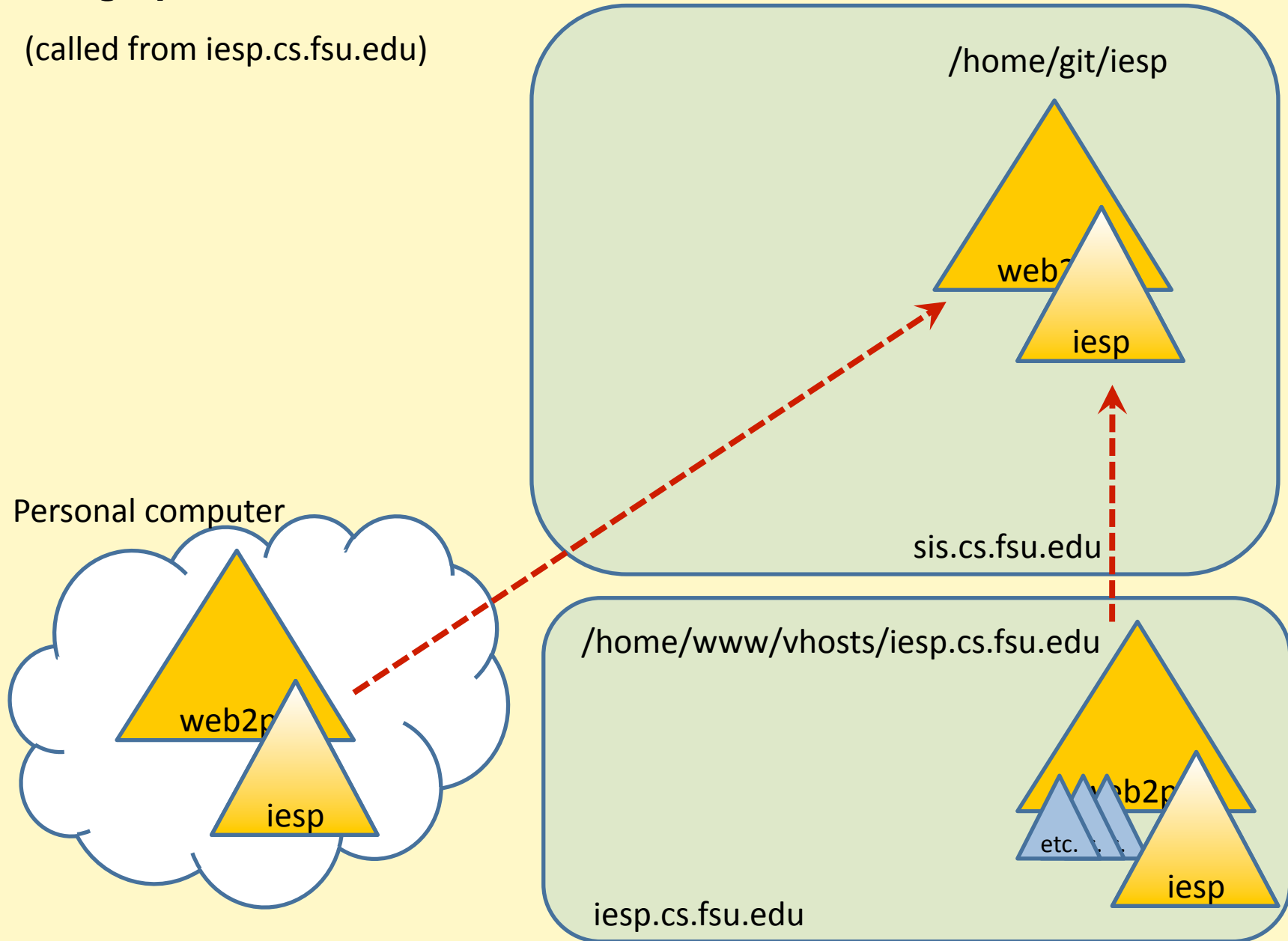
git push

(called from personal computer)



git pull

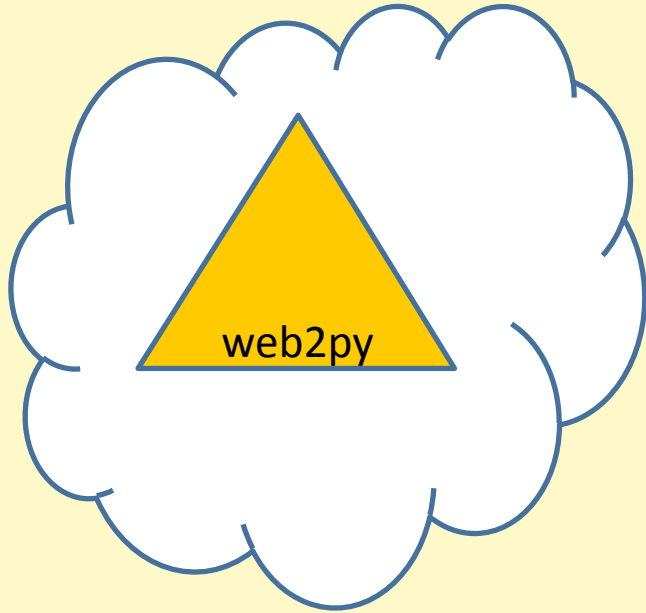
(called from iesp.cs.fsu.edu)



Initial set-up

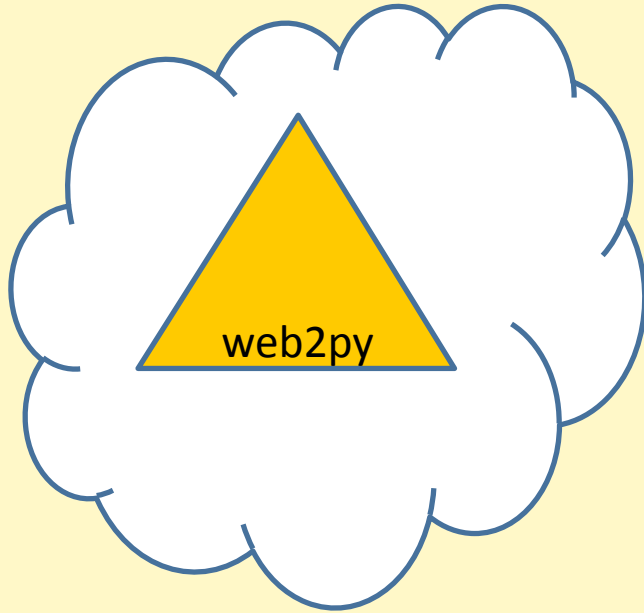
Already done

Web2Py distribution site



sis.cs.fsu.edu

Web2Py distribution site



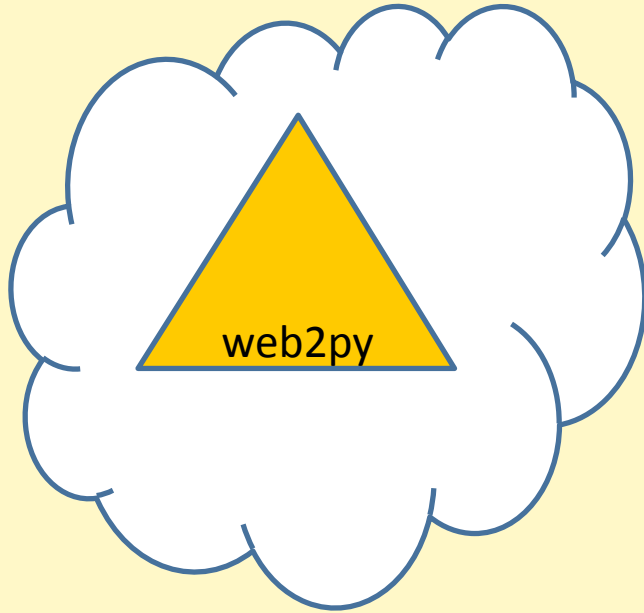
download web2py.zip

/home/git/web2py.zip



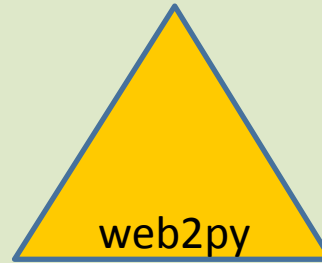
sis.cs.fsu.edu

Web2Py distribution site



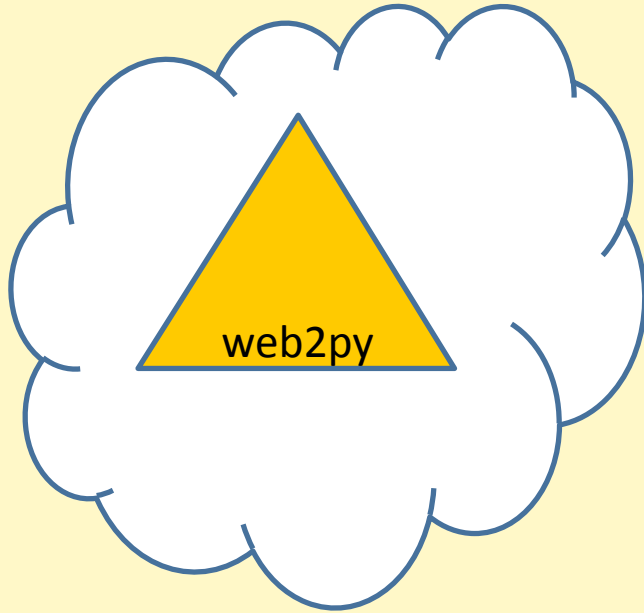
unzip web2py.zip

/home/git/web2py

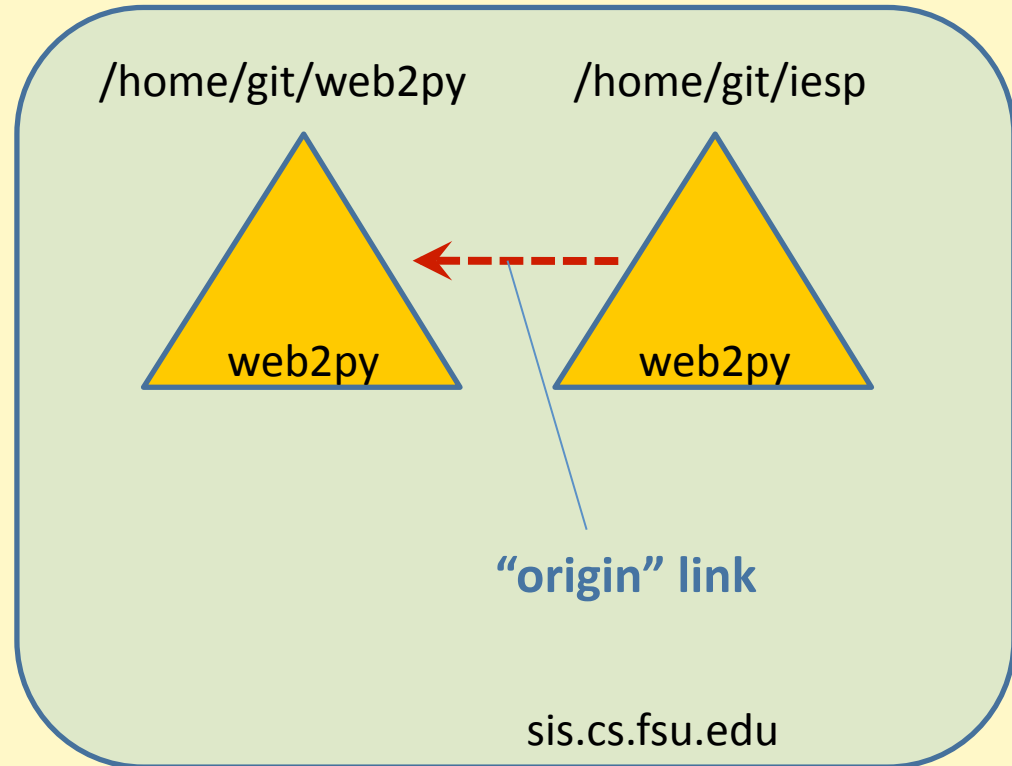


sis.cs.fsu.edu

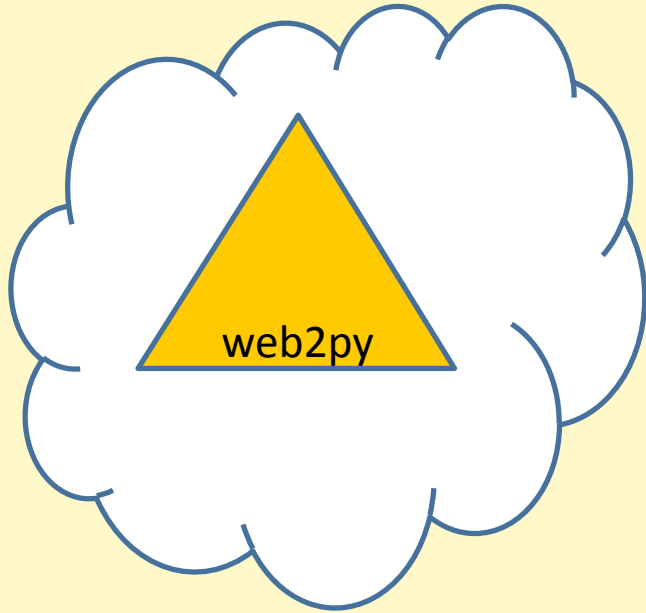
Web2Py distribution site



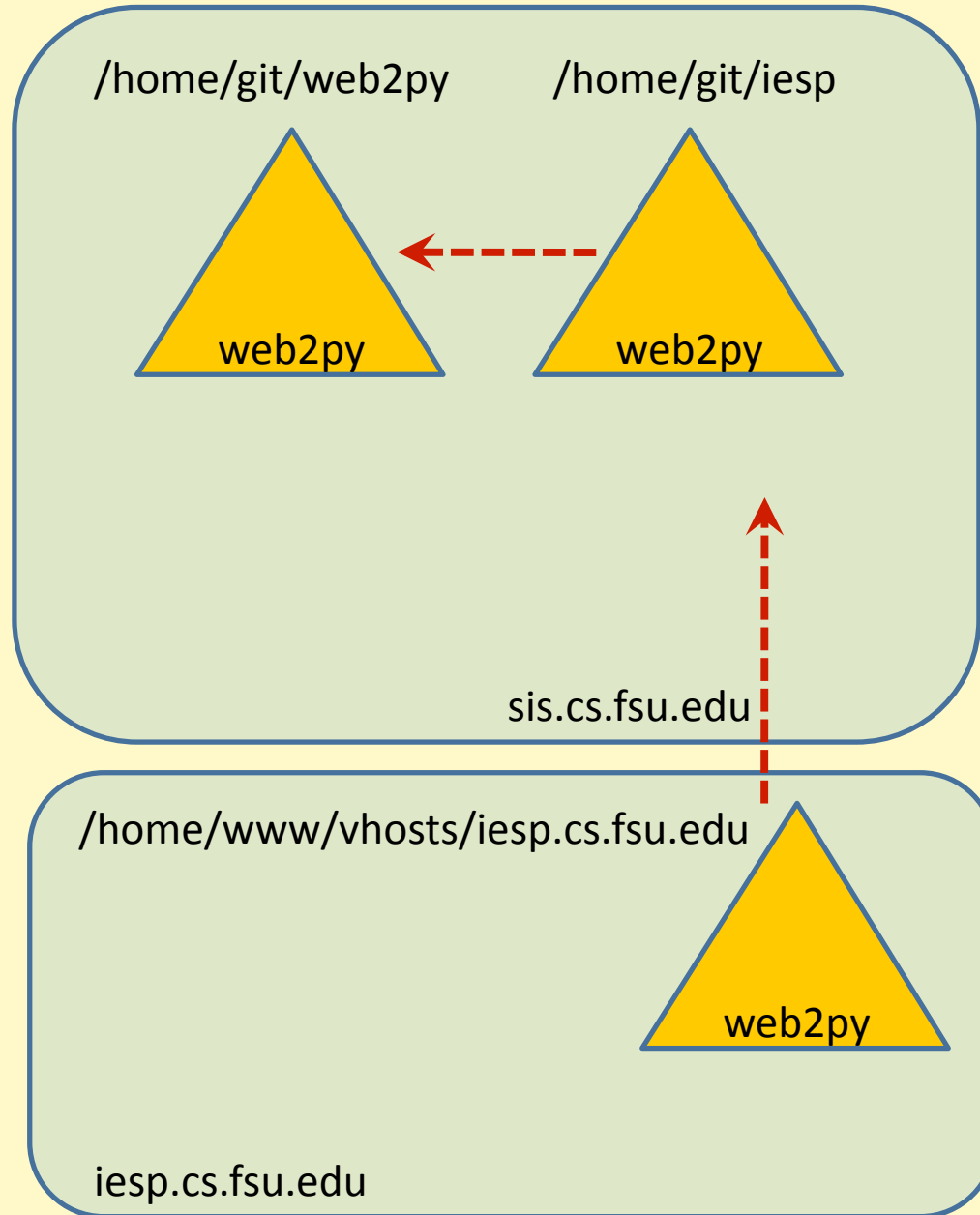
git clone web2py iesp



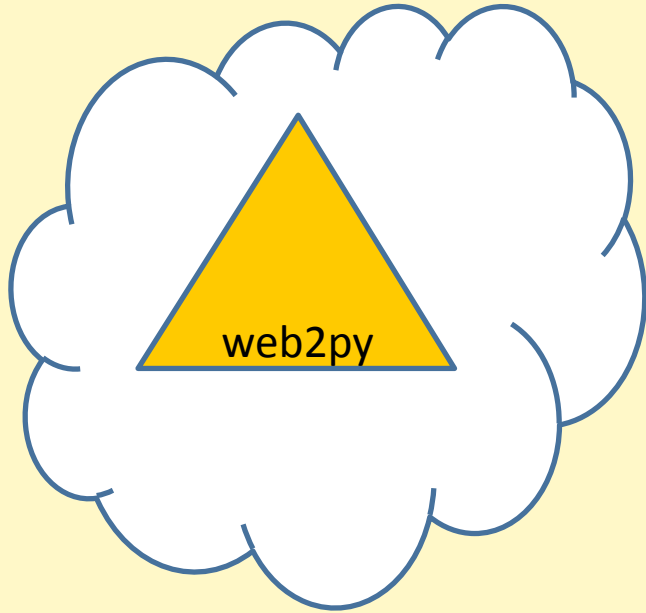
git clone /home/git/iesp iesp.cs.fsu.edu



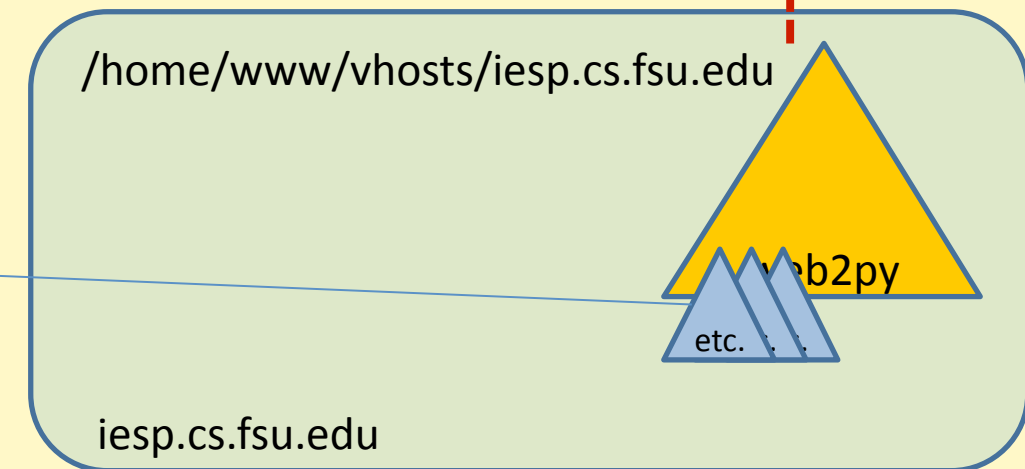
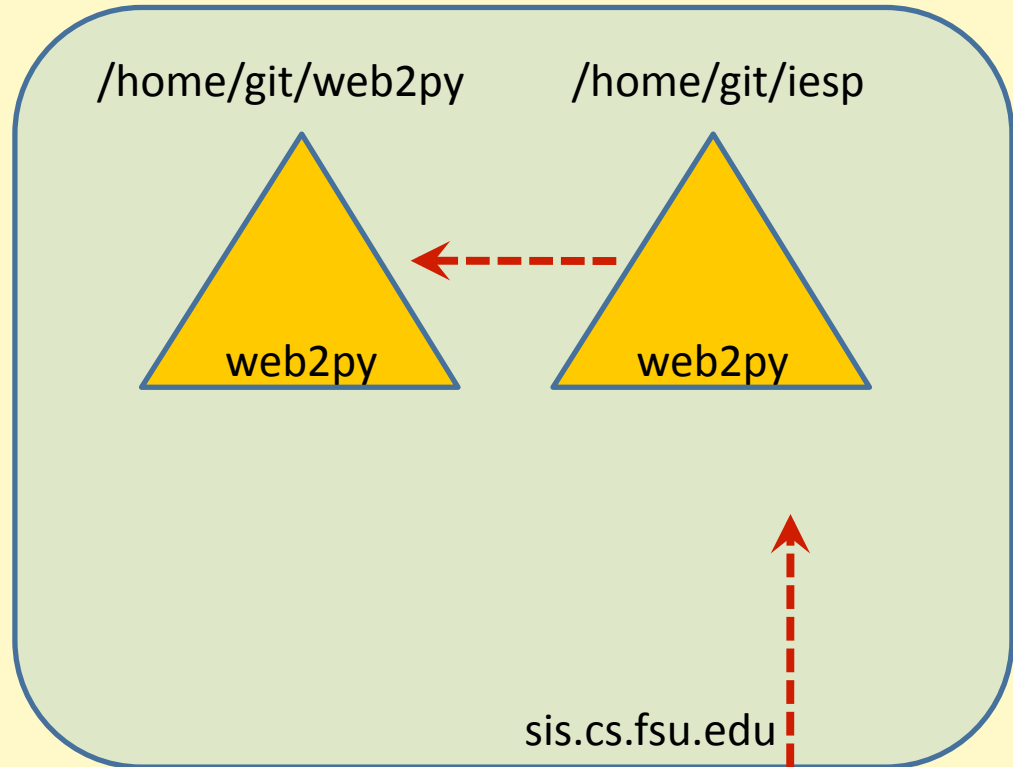
Web2Py distribution site



git clone /home/git/iesp iesp.cs.fsu.edu



Web2Py distribution site

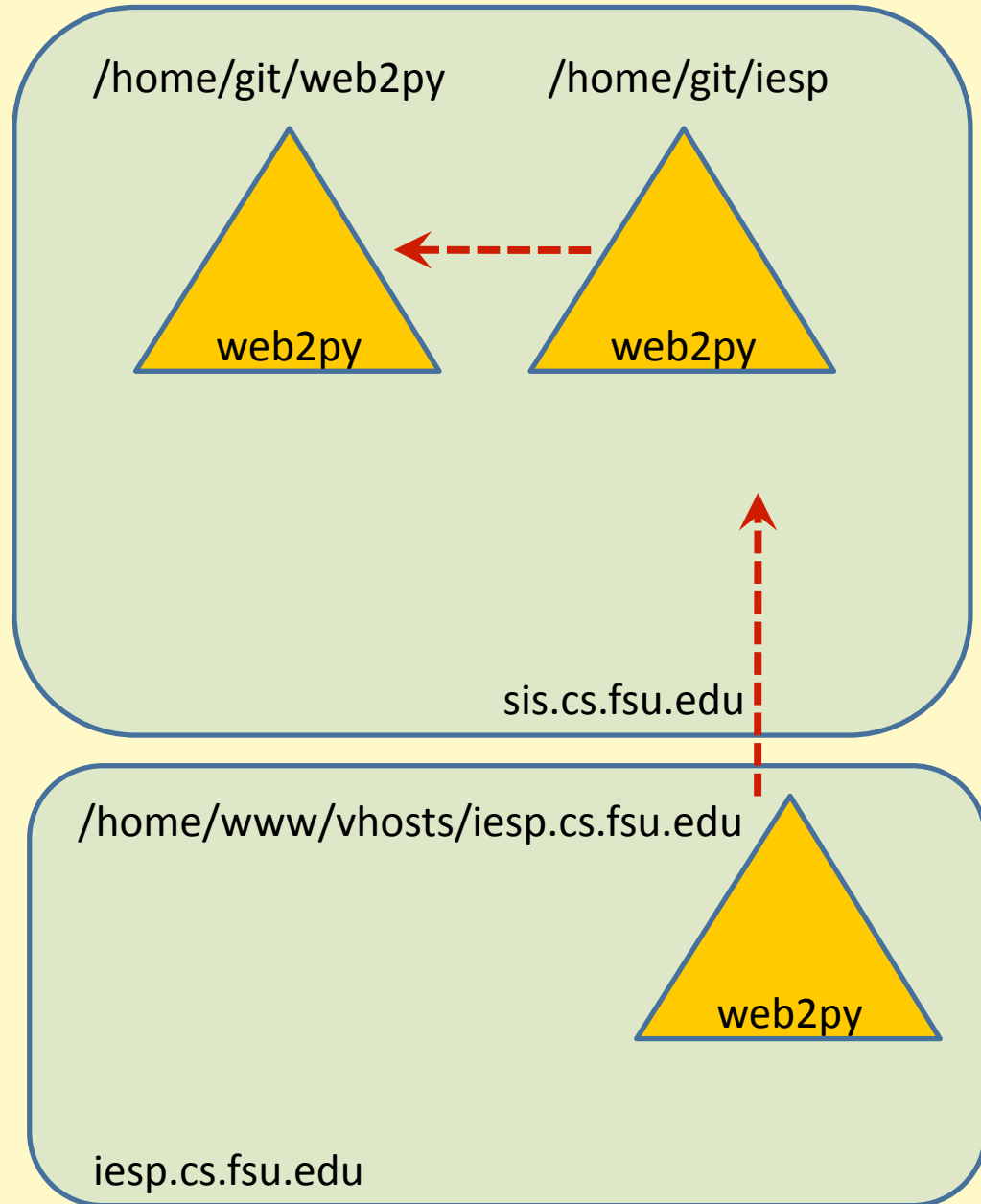
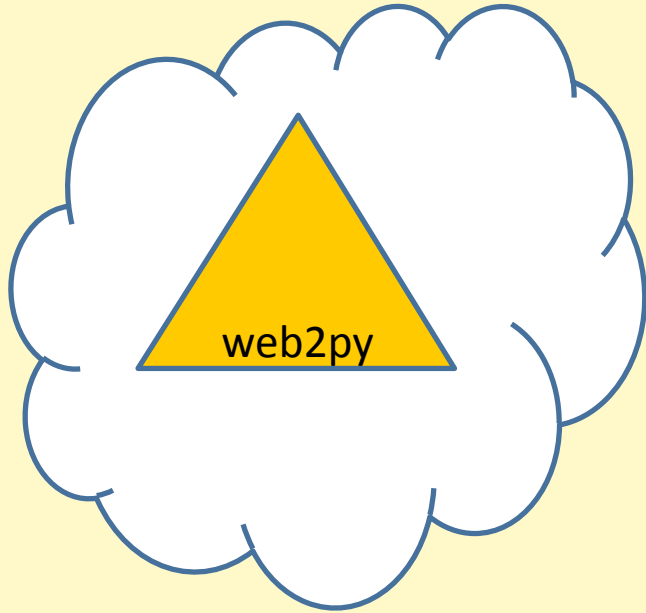


local uncommitted changes

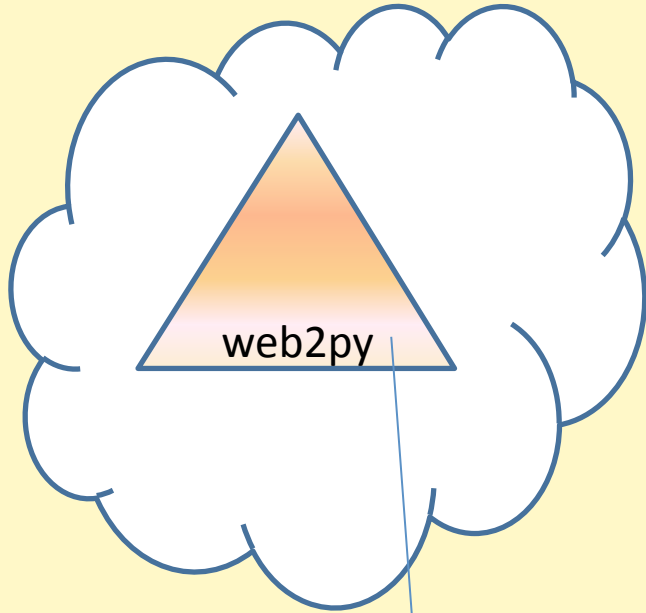
Web2Py updates

Will need to be done periodically
by someone

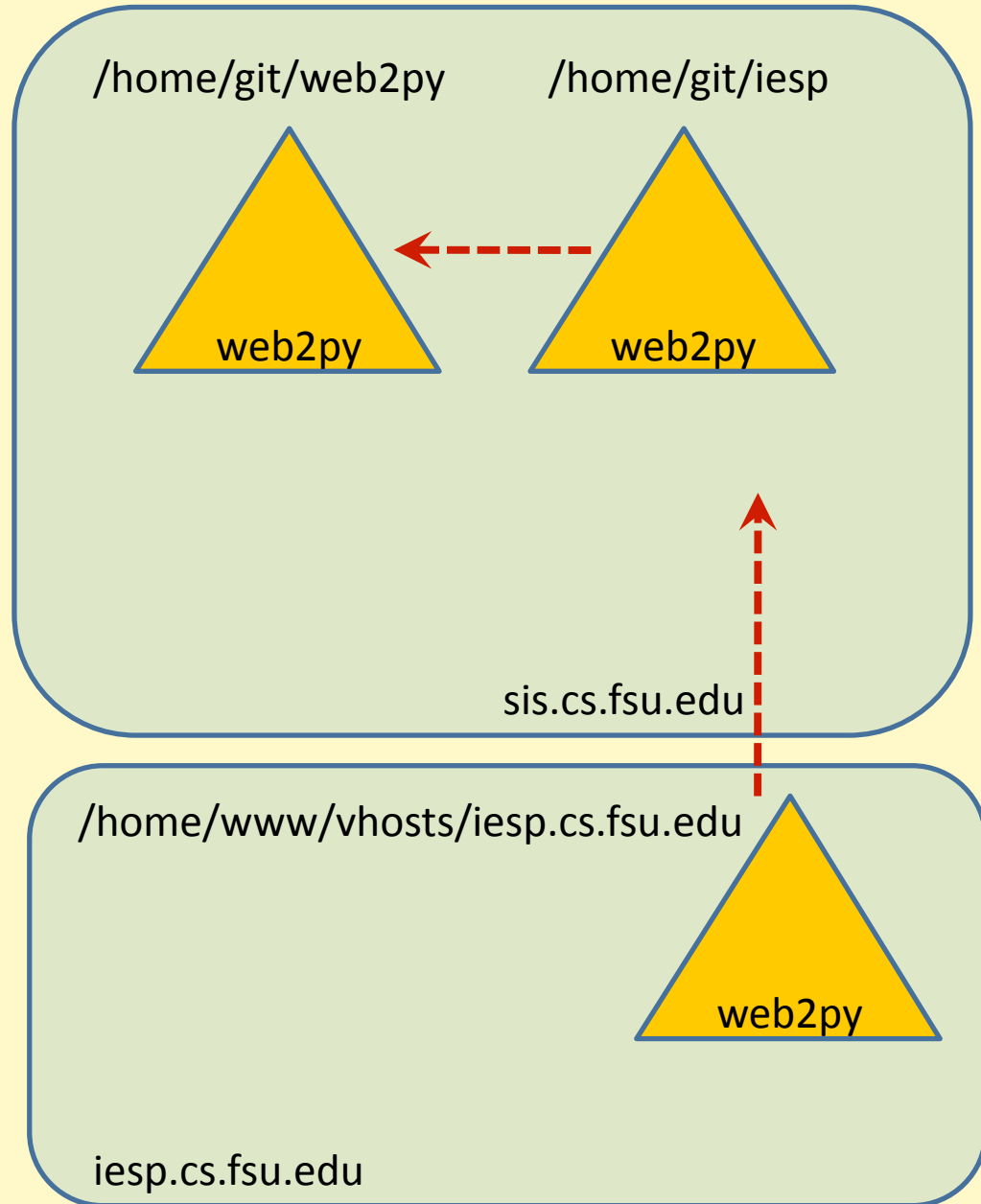
Web2Py distribution site



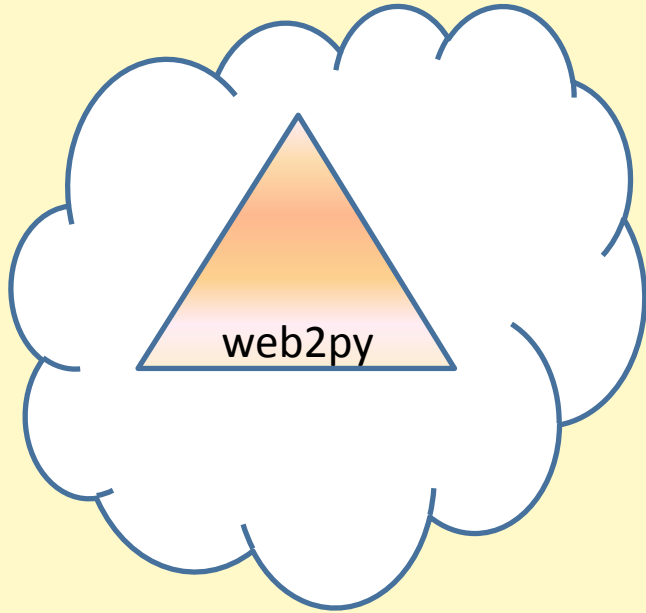
Web2Py distribution site



new release of
Web2Py

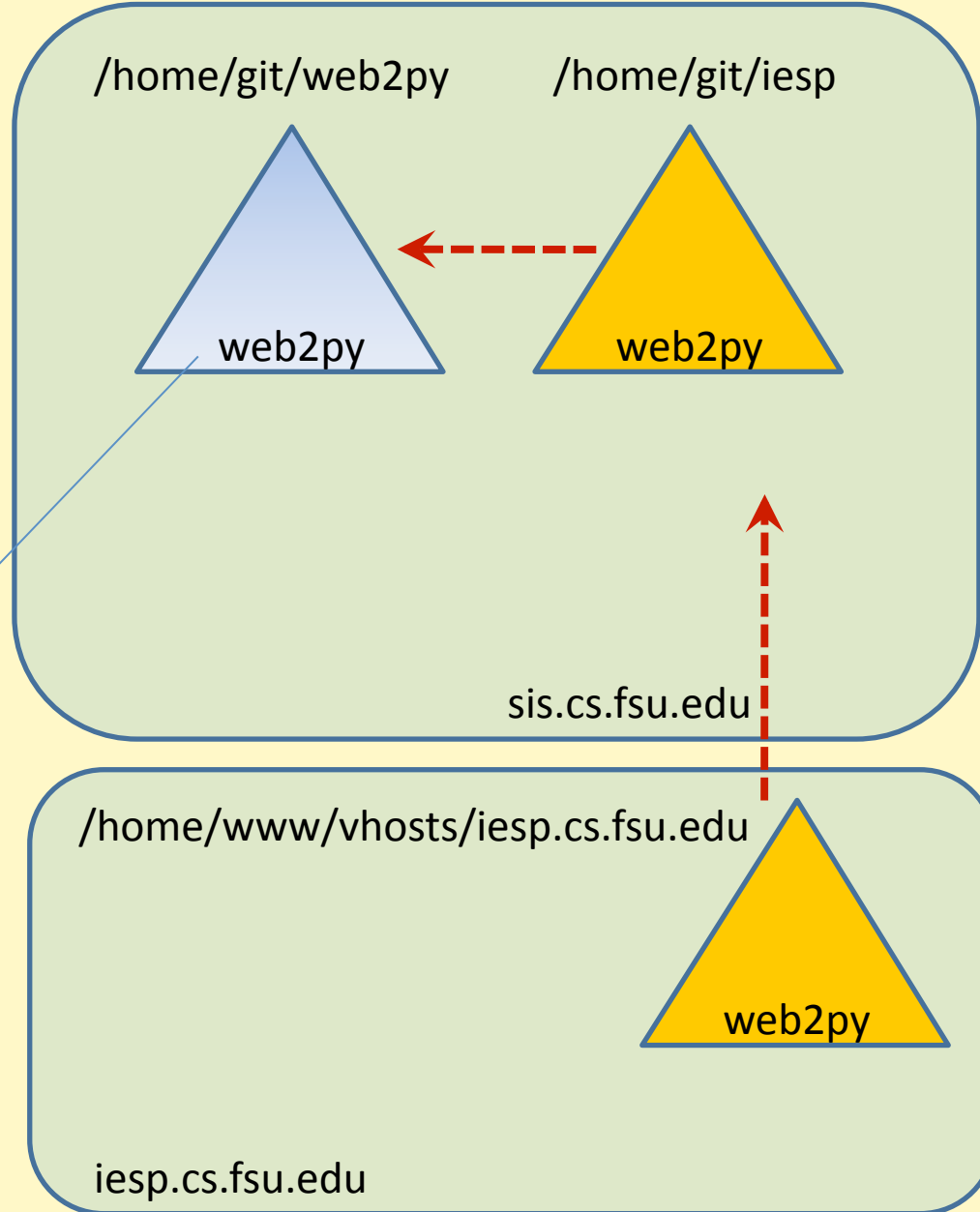


Web2Py distribution site

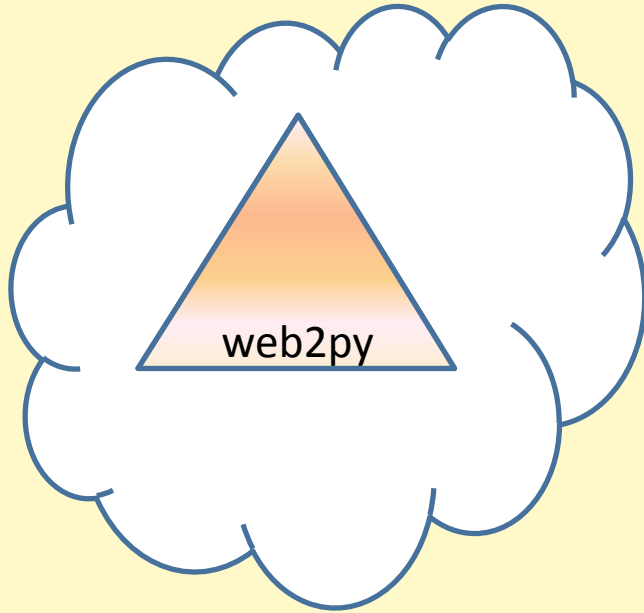


**uncommitted
changes**

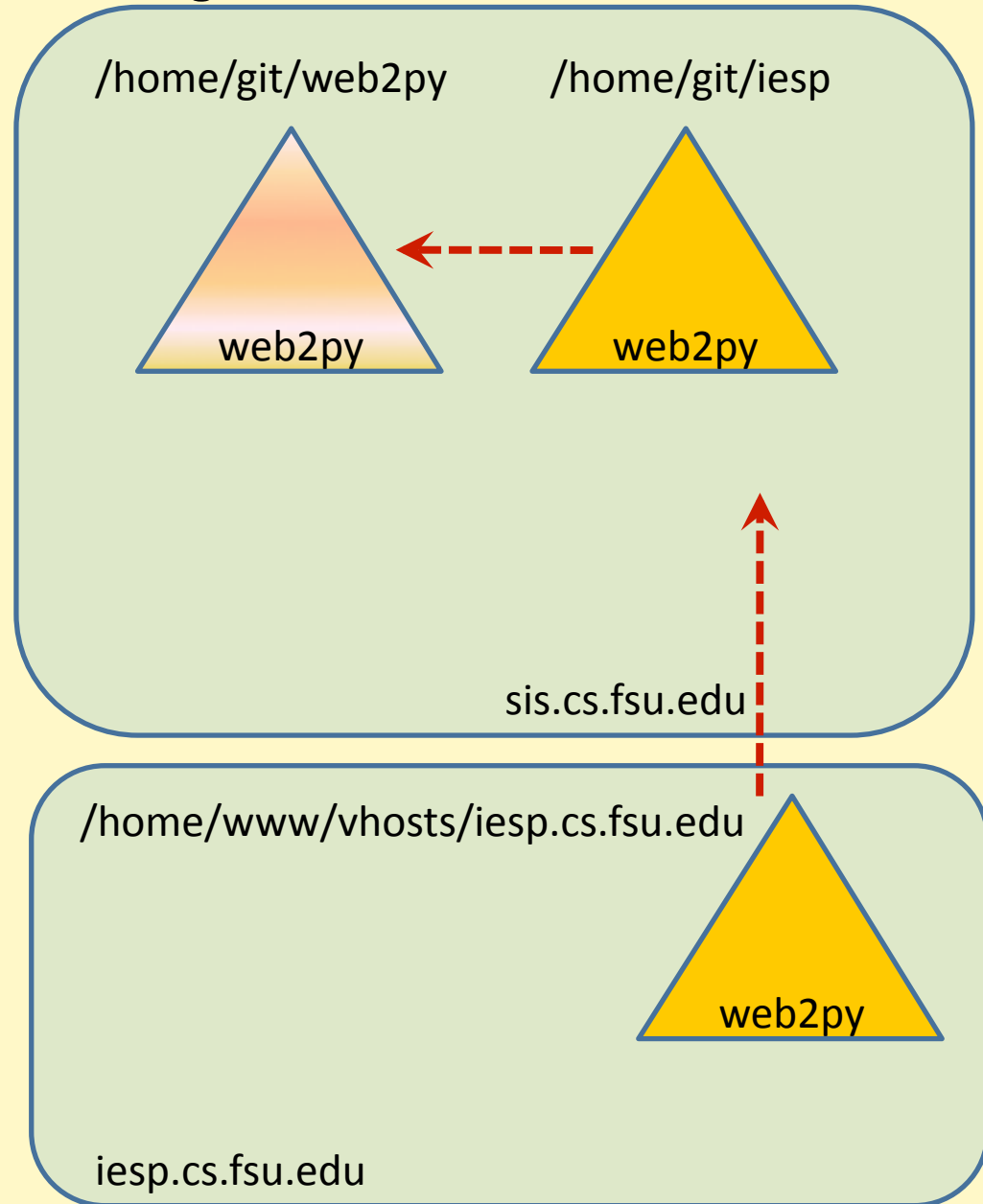
download, unzip, and copy/tar



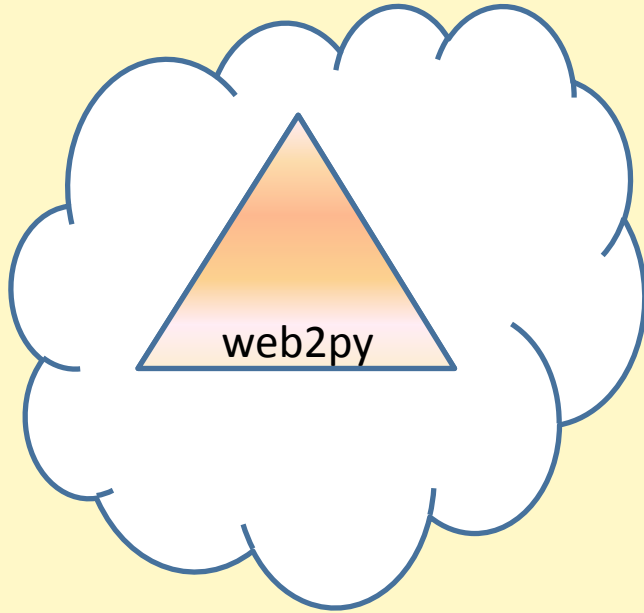
Web2Py distribution site



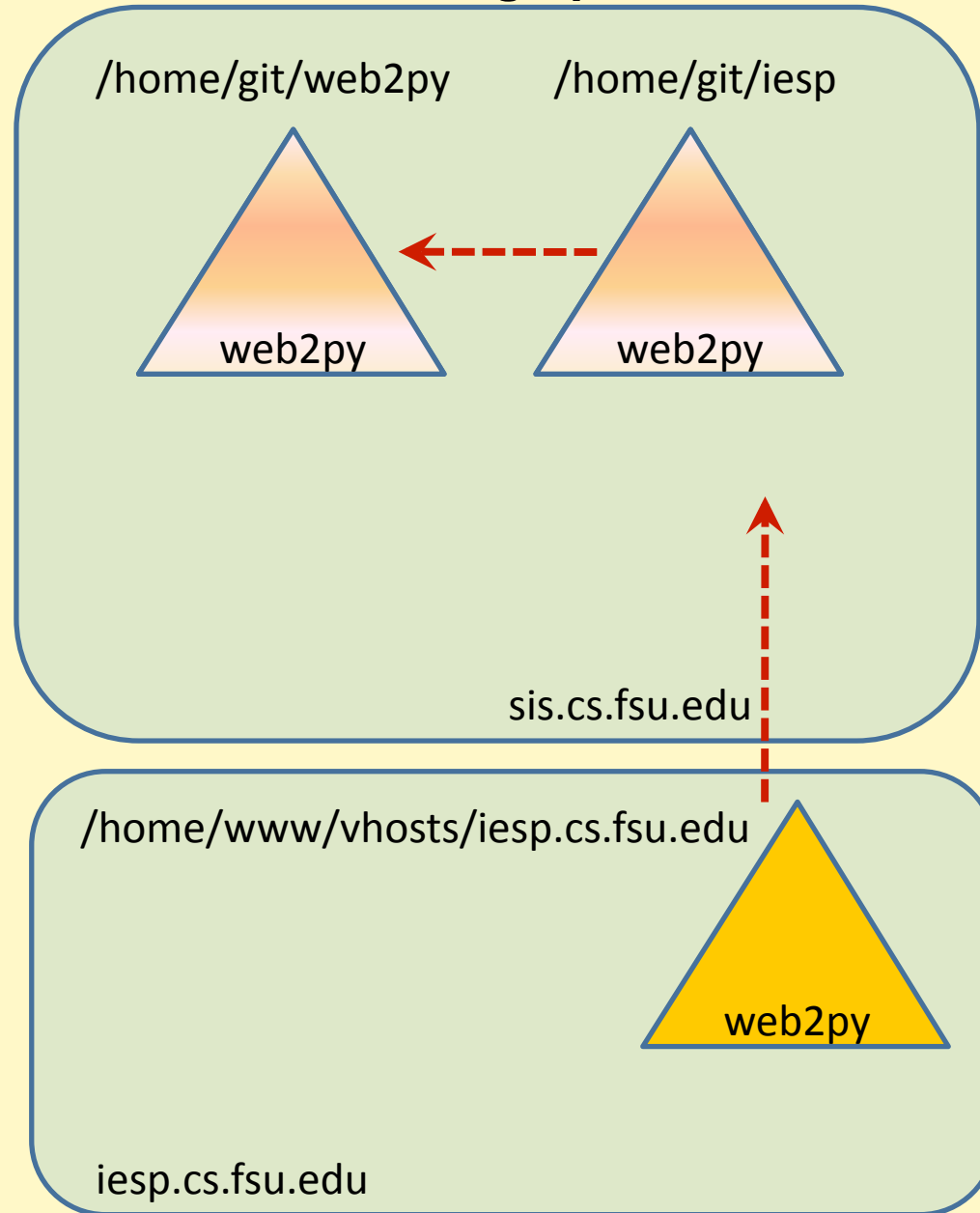
git commit



Web2Py distribution site

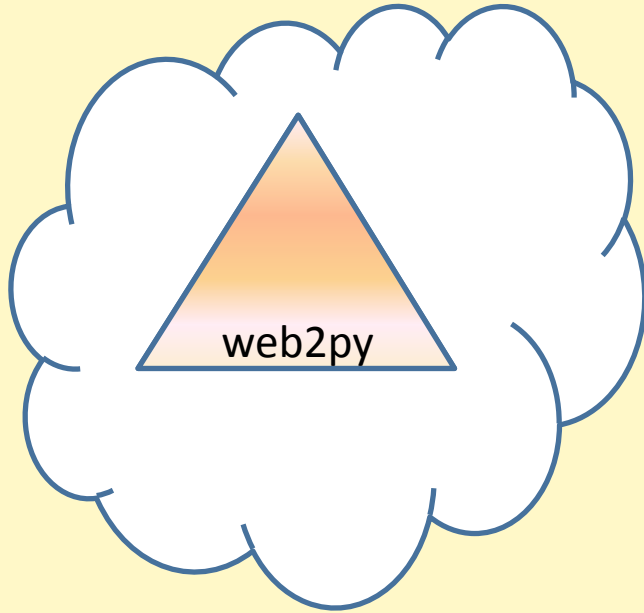


git pull

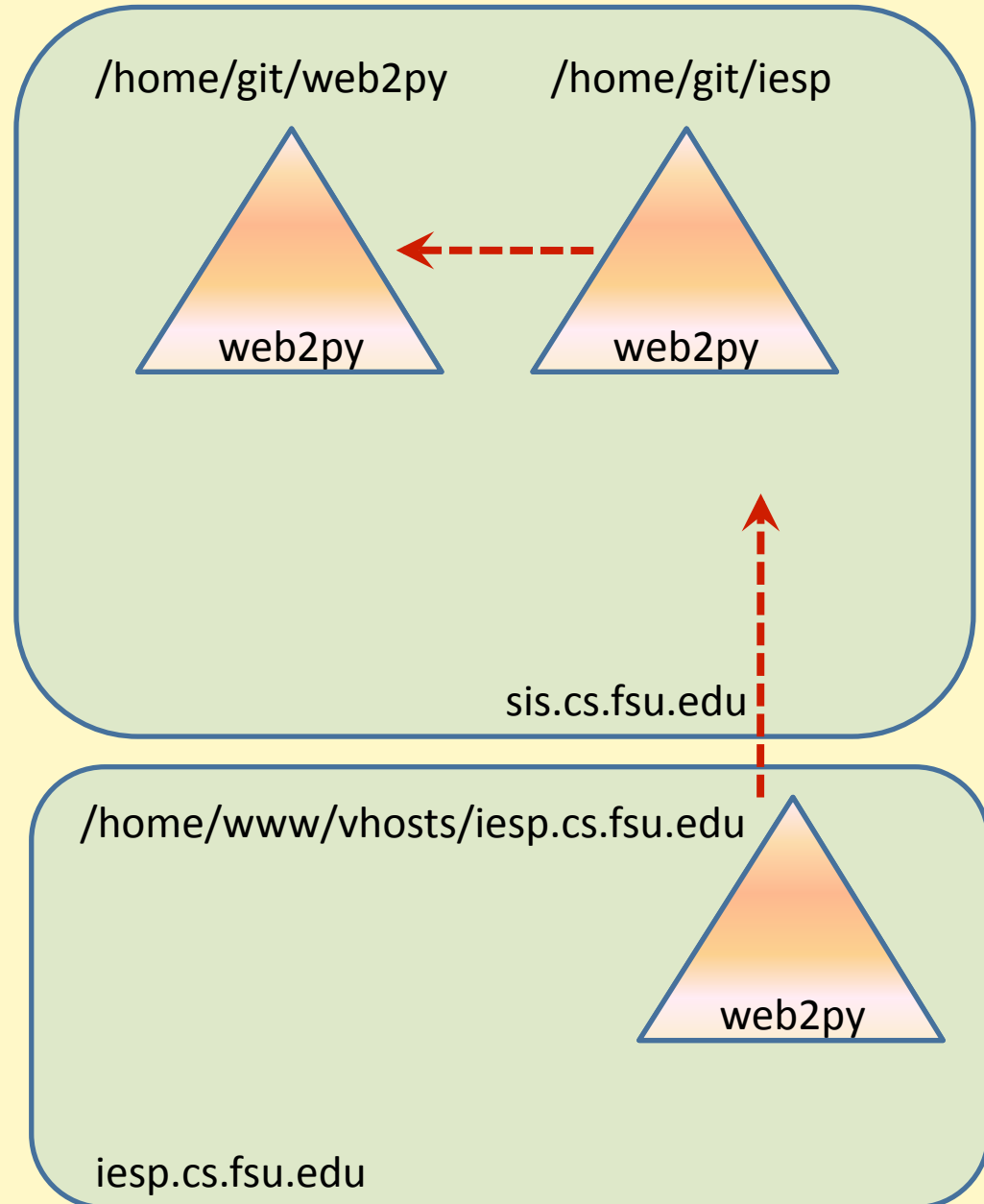


or
git fetch
git rebase

Web2Py distribution site



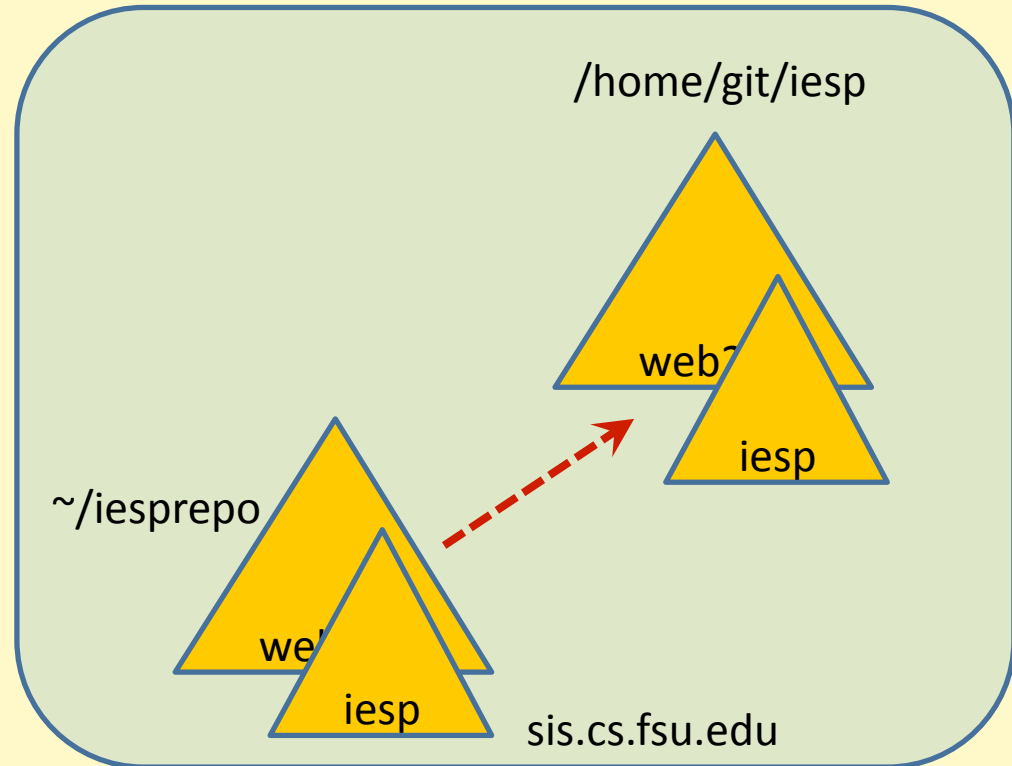
git pull
or
git fetch
git rebase



An alternate developer workflow

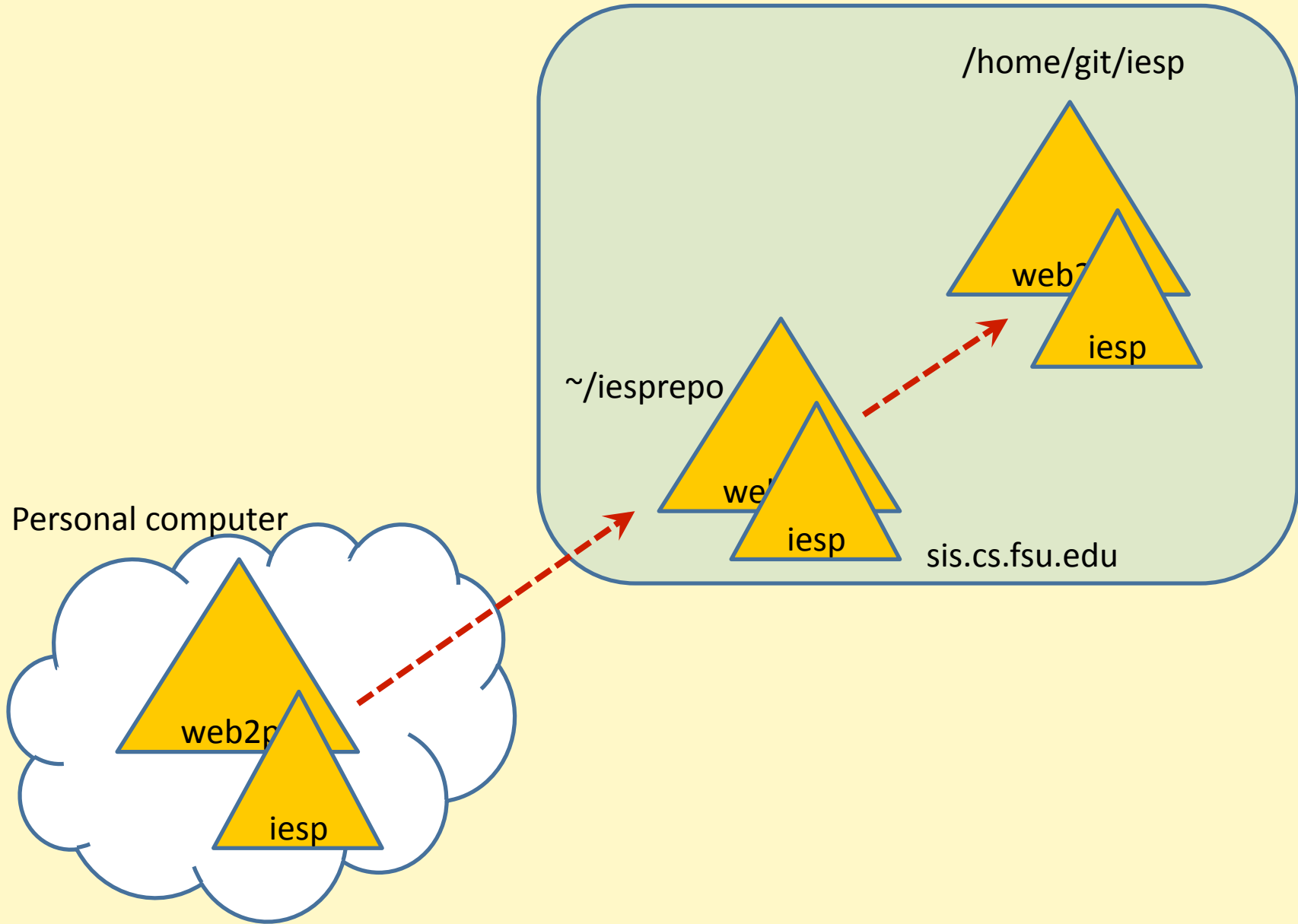
Introduces a repository gatekeeper

```
git clone /home/git/iesp ~/iesrepo
```

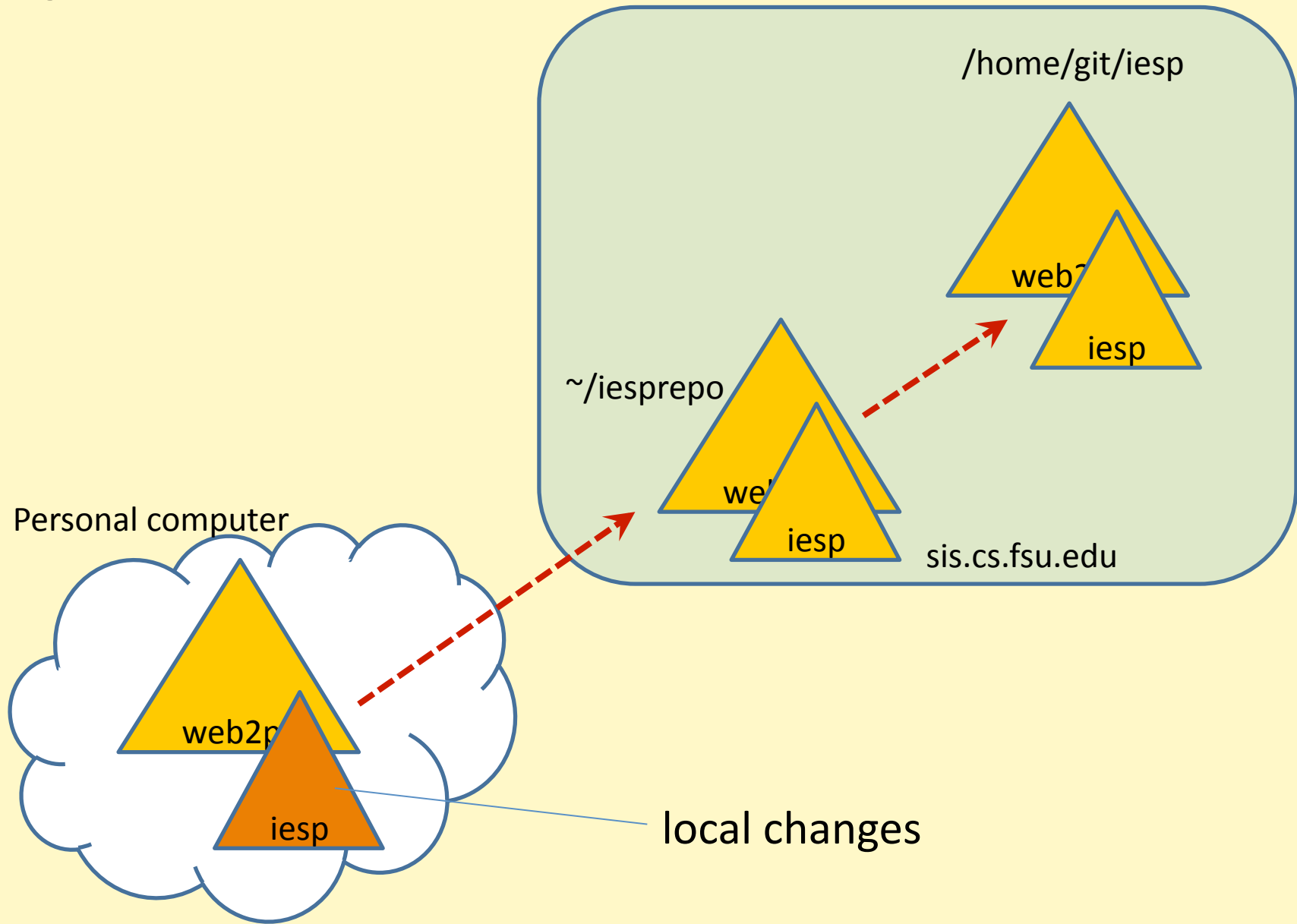


Developer keeps personal repository on server,
readable by other team members.

```
git clone ssh://baker@sis.cs.fsu.edu/iesrepo
```

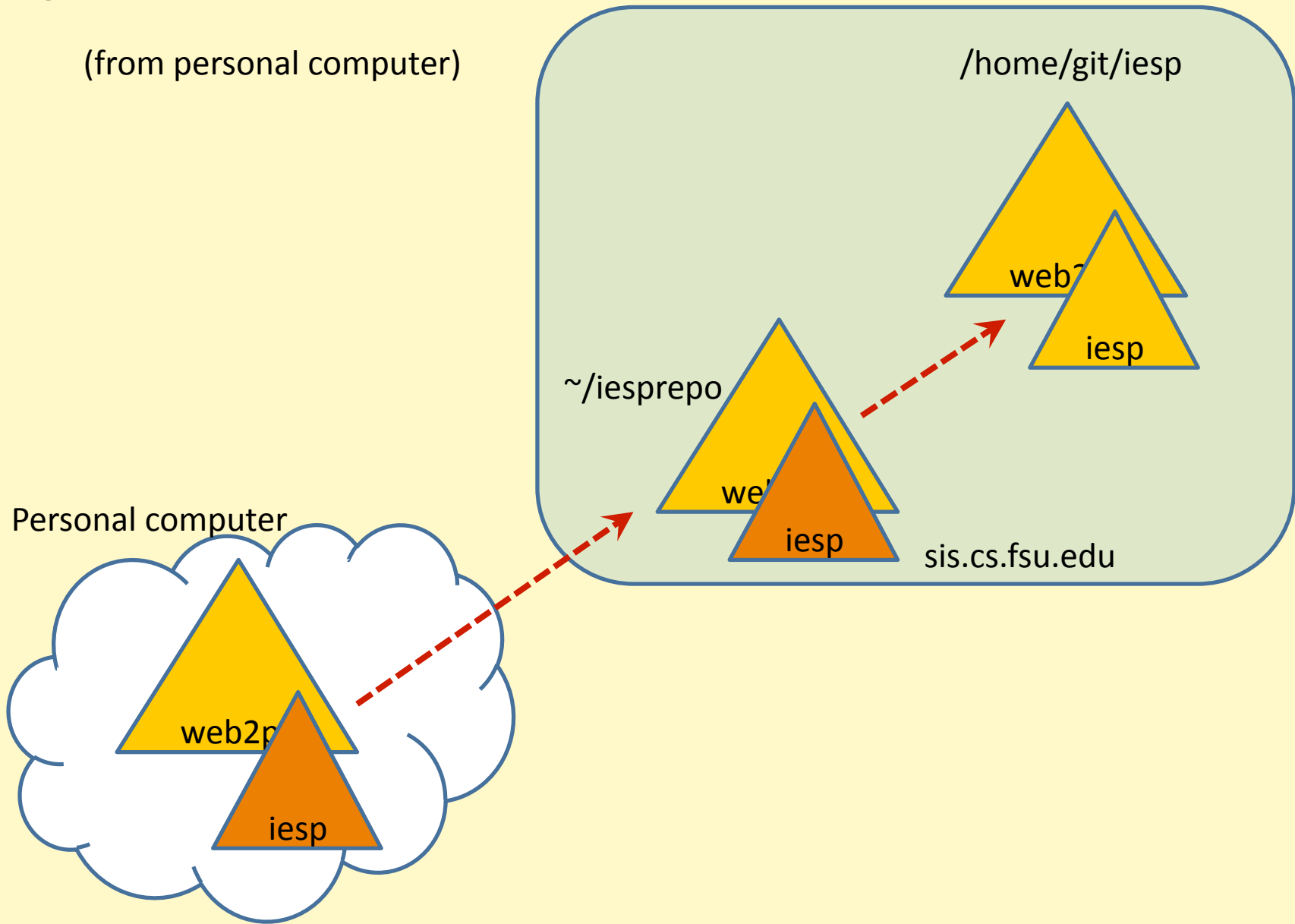


git commit



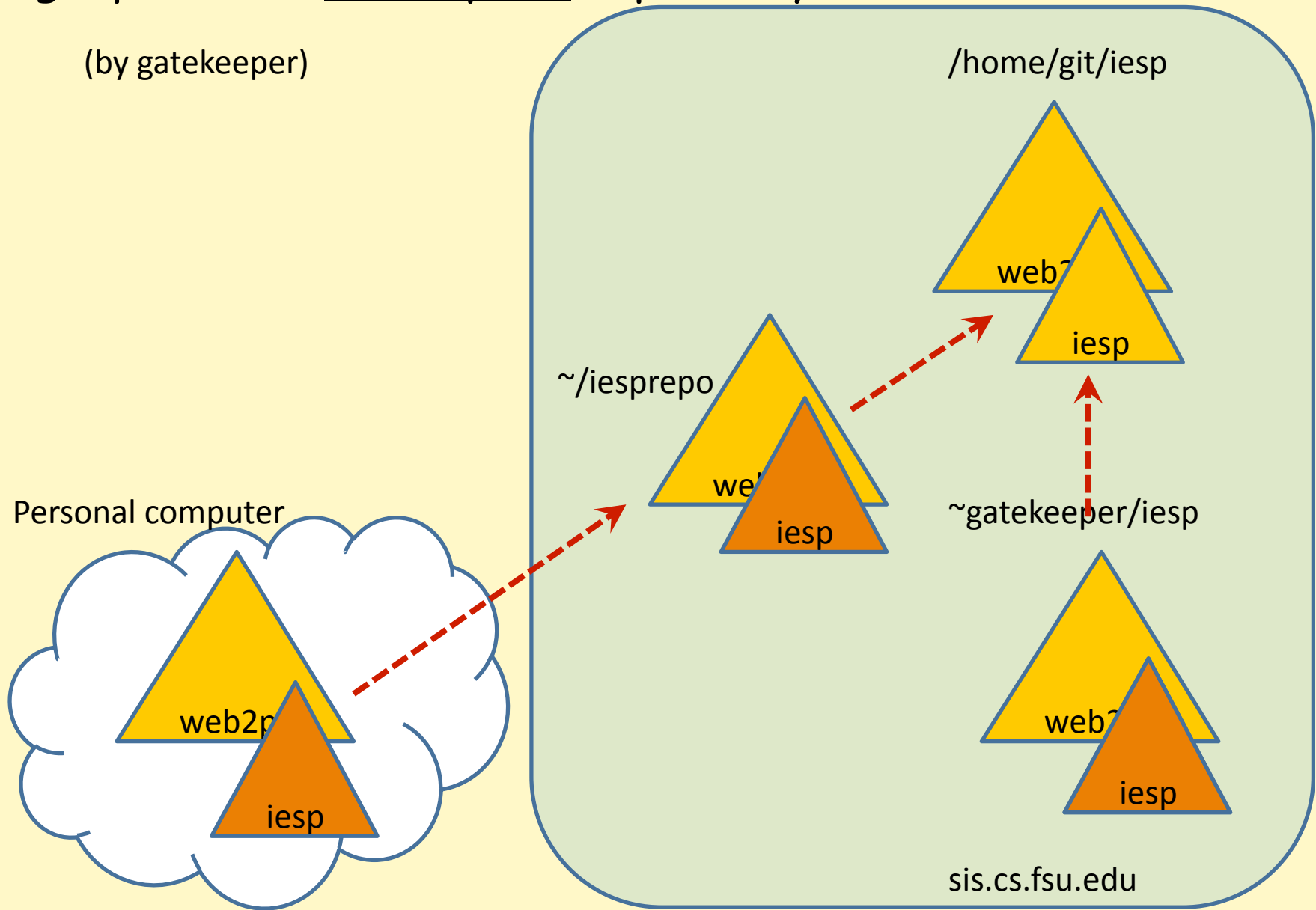
git push

(from personal computer)



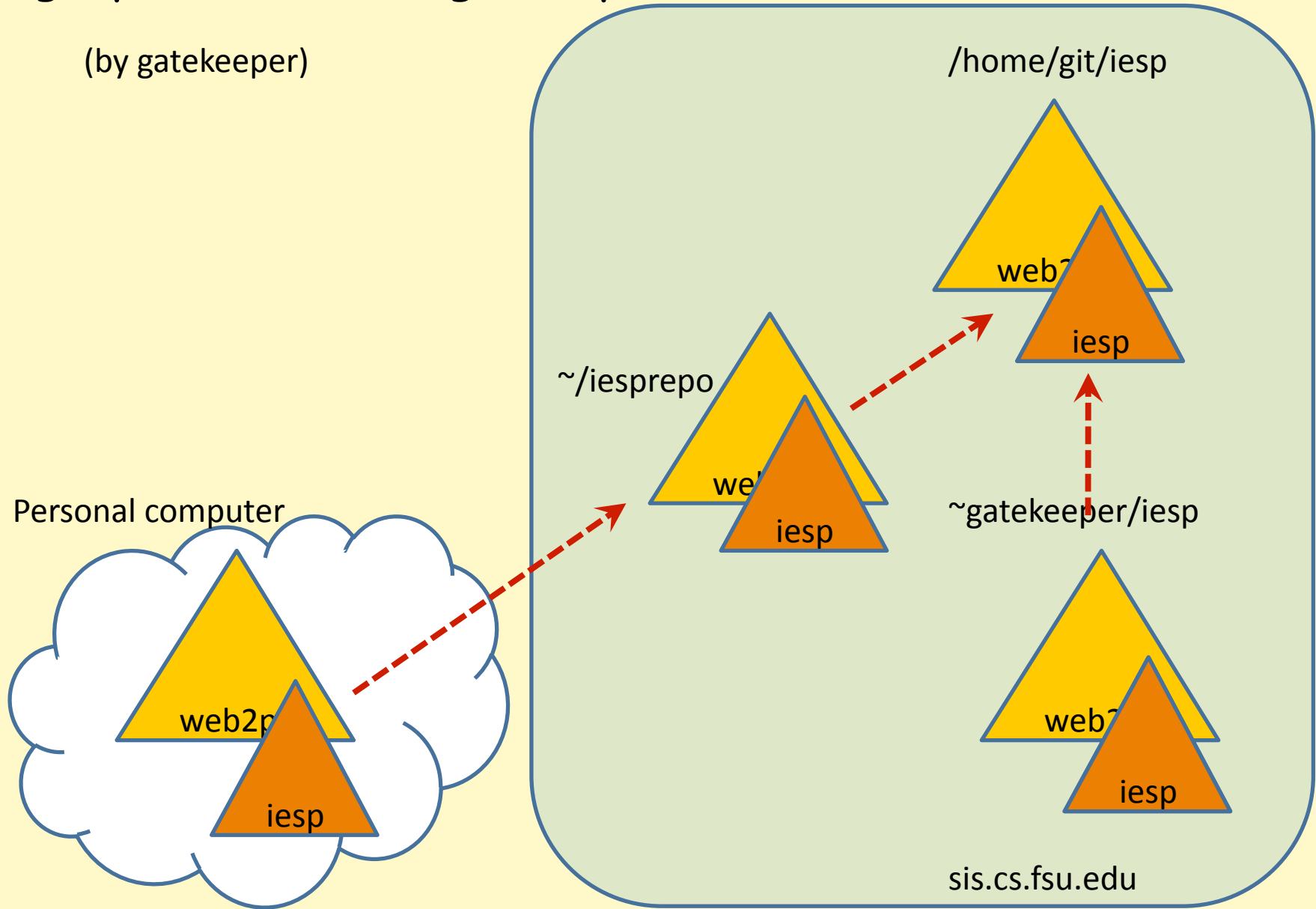
git pull from developer's repository

(by gatekeeper)



git push to /home/git/iesp

(by gatekeeper)



Are there use cases have
we missed?