



Bzr & LaunchPad: Sharing Your Work with Others

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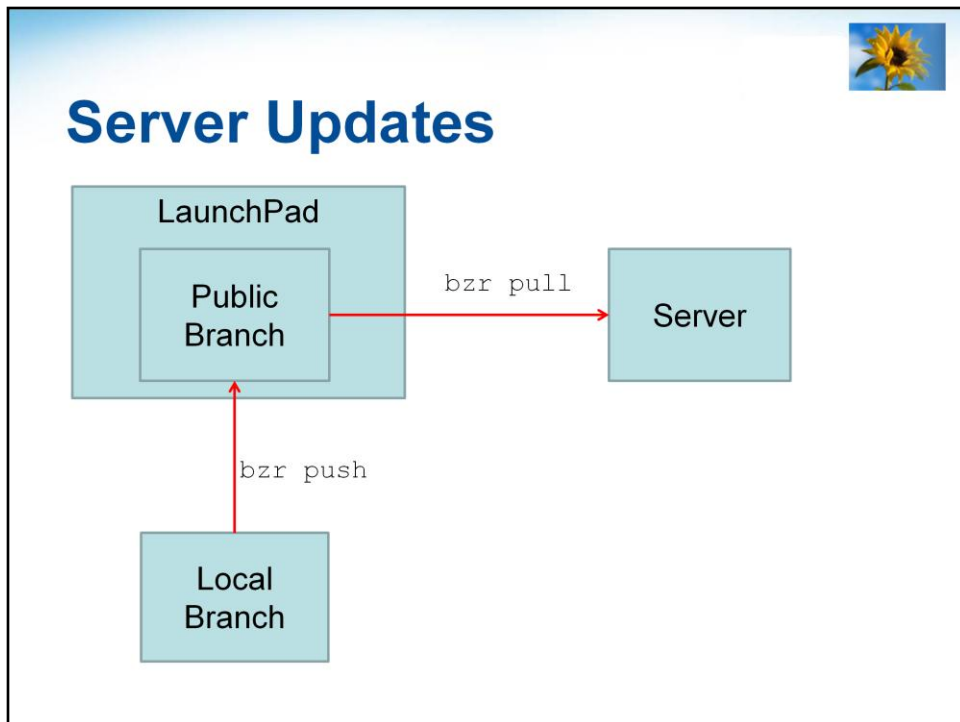
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Sharing your work with others

- Distributed Version Control: **bzr**
- Branches hosted on **LaunchPad**
- Merges

Distributed Version Control allows faster development with more flexible options for sharing code between developers.



To update the server with the latest version of the code, you normally **Pull** it from the website 'LaunchPad' using the tool 'bzd'

If you are customising the code, this should normally be done in a local branch on your development PC.

You **Push** your changes to your branch on LaunchPad.



LaunchPad Access

- Register an Account
- Add Public Key

An account isn't needed to Pull code down from LaunchPad to your machine(s), but it is required to Push it up to Launchpad to share with others.

If you don't already have an account on Launchpad, register one:

https://login.launchpad.net/+new_account

If you don't already have them, create Public/Private Keys using:

```
ssh-keygen -t rsa
```

Copy/Paste from `~/.ssh/id_rsa.pub` to:

<https://launchpad.net/people/+me/+editsshkeys>

Full help page (if more help needed):

<https://help.launchpad.net/YourAccount/CreatingAnSSHKeyPair>



Push a branch to LP

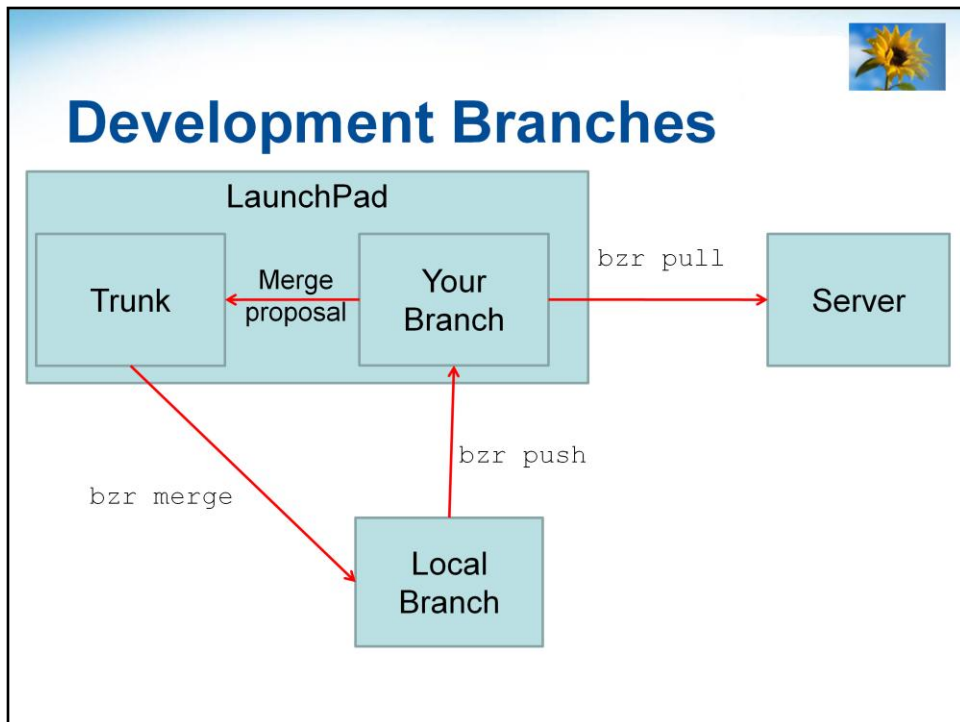


```
bzr launchpad-login userid  
  
cd web2py/applications/eden  
  
bzr add && bzr remove && bzr commit  
  
bzr push lp:~userid/sahana-eden/test
```

As a practical exercise, push your local branch up to LaunchPad following the above instructions.

Reference material:

<https://help.launchpad.net/Code/UploadingABranch>



Normally you work in a local branch on your PC.

You **Merge** changes in regularly from Trunk.

“Merge Early, Merge Often” (Variant of famous Open Source phrase “Release Early, Release Often”)

You **Push** your changes to your branch on LaunchPad

You **Pull** from LaunchPad to update your server sites

Merge with a branch on LP



```
cd web2py/applications/eden
```

Get latest updates from Trunk:

```
bzr merge lp:sahana-eden
```

See changes:

```
bzr diff
```

Back-out:

```
bzr revert (filename)
```



Resolve Conflicts

If a file has been edited in the same place in different ways by 2 different people, then a Conflict occurs.

Bzr creates 3 versions of the conflicted file:

`xxx.BASE` version of the file where both trees agreed

`xxx.THIS` version of the file in **this** branch

`xxx.OTHER` version of the file in **other** branch

```
bzr resolve filename
```

KDiff3 is a utility which can do a 3-way Diff.

<http://kdiff3.sourceforge.net>

Subscribe to Branch



- Subscribe to Trunk
- Subscribe to any other branches of interest

 [Subscribe yourself](#)

Notification Level:

Attribute notifications are sent when branch de
Revision notifications are generated when new
updated through either pushes to the hosted b

Generated Diff Size Limit:

Diffs greater than the specified number of lines
will still receive an email with the new revision
number of lines.

Code review Level:



Merge Proposal

Target Branch:

lp:sahana-eden ([branch details](#))- *development focus*

Other: ([Choose...](#))

The branch that the source branch will be merged into.

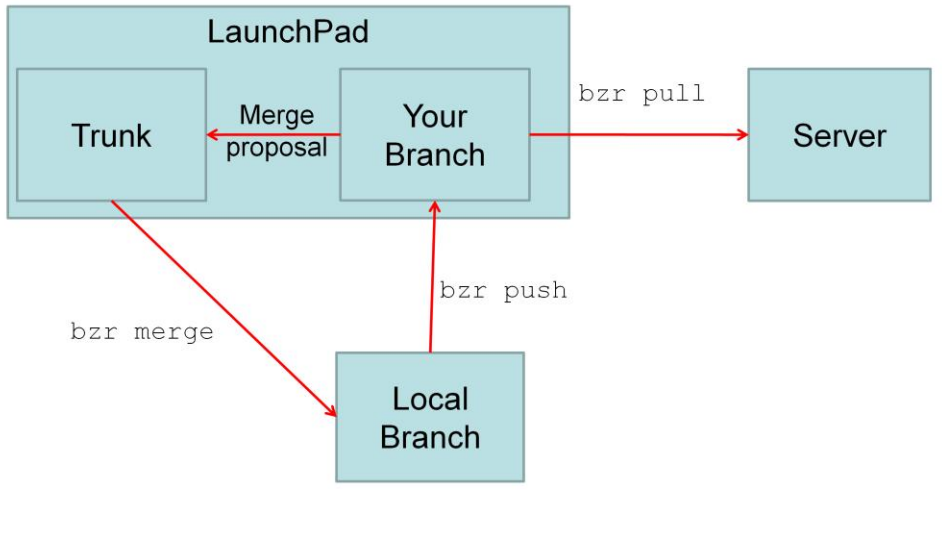
Description of the Change: (Optional)

Try out a Merge Proposal to your partner's Branch:

<https://code.launchpad.net/~userid/sahana-eden/mybranch/+register-merge>



Branches





End