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1. **INTRODUCTION:**

Phabricator is a suite of web applications which make it easier to build software, particularly when working with teams.

We will use Phabricator, Git and Arcanist to build our Development Environment.

Server: 192.168.99.211:8080

1. **CREATE NEW PHABRICATOR ACCOUNT**

Ask the admin to create your account, then set CVS password (different with Account login password) that use to work with Git and Phabricator server.

1. **INSTALL GIT AND PHP**

Donwload and install Git:

Download Git-1.9.5-preview20150319.exe on Software Center, then install it

http://www.thegeekstuff.com/2012/02/git-for-windows/

Download and Install PHP:

* Download the latest stable PHP binary release from: <http://windows.php.net/download/>. When this document was last updated, this was PHP 5.4.6, but newer versions should also work. The "VC9 x86 Non Thread Safe" build should work correctly. (Other versions newer than PHP 5.3 should work, and thread-safe versions should also work.)
* Unzip the PHP directory.
* Copy php.ini-development to php.ini in that same directory.
* Open php.ini and locate the line ;extension=php\_curl.dll. Remove the ; to activate this extension. Locate the line ; extension\_dir = "ext" and change it to extension\_dir = "C:\PHP\ext", where C:\PHP is the directory where you installed PHP.
* Verify that things work by running php -i from your commandline and looking for curl in the output.
* Add c:\php to your PATH environment variable.

**Installing Arcanist**

* To install Arcanist, pick an install directory and clone the code from GitHub:

some\_install\_path/ $ git clone https://github.com/phacility/libphutil.git

some\_install\_path/ $ git clone https://github.com/phacility/arcanist.git

Now add some\_install\_path/arcanist/bin/ to your PATH environment variable. When you type "arc", you should see something like this:

Usage Exception: No command provided. Try 'arc help'.

1. **INSTALL NODEPAID++**

Install Nodepaid++ in Software Center.

After install Nodepaid++, follow steps to configure the text editor:

arc set-config default “<http://192.168.99.211:8080>”

arc set-config editor "\"C:\Program Files (x86)\Notepad++\notepad++.exe\" -multiInst -nosession"

You can verify your setting with arc get-config.

References:

<https://secure.phabricator.com/book/phabricator/article/arcanist_quick_start/>

<https://secure.phabricator.com/book/phabricator/article/arcanist_windows/>

<https://secure.phabricator.com/book/phabricator/article/arcanist/>

1. **CLONE PROJECT TO YOUR LOCAL REPOSITORY:**

You can create a folder which will be your local repository, for example “repo”

To get your project from server to this folder, follow steps:

cd repo

git clone <http://192.168.99.211:8080/diffusion/HW/helloworld-app.git>

(You can get this URL in the server (Diffusion))

Follow that, add your account and VCS password to download your project

After that, you will see your project will be download to ../repo/helloworld-app

You should learn some git command such as clone, push, pull, etc.. for working.

1. **ARCANIST**

To make a diffusion, I recommend you to create a branch on master to work with it.

To check your branch where you are working on, type:

git branch

It will print “master” if you didn’t create any branch

To create new branch, type:

git checkout –b “YourbranchName”

To switch to another branch, type:

git checkout BranchName

Now you can do some modification in your branch.

After that, type:

git add --all

to add all your modifications for committing

Then commit your changes:

git commit –m “Your message here”

To create Differential, type:s

arc diff

and do follow comments, finally you will see your Differential in the server.

(You have to add the Summary, Reviewers: ReviewerName1, RiviewerName2 .. when you arc diff)

The reviewers can comment on your change on server, then you can follow comments to edit your code.

After editing your codes, commit it and type “arc diff –update D2” to update your Differential (D2 is the revision of your Differential).

After the reviewers see everything in your codes is correct, he will accept your changes, and your Differential status will be change to “Accept”

Now you can push your changes to server and close you Differential by:

arc land

If it have the conflicts, you have to merge your changes with the project on server to resolve your conflicts before arc land.

If you are working with multi-tasks, I recommend you to create several branch from master, each branch is a task, so you can work with multi-task with Git and Phabricator server.

To create new Differential of new task (while existing unclosed Differential), you have to switch to your branch, type “arc diff --create” to create new Differential.

You should install JGit plugin into your Eclipse to work with Git in Eclipse.

References:

*https://secure.phabricator.com/book/phabricator/article/arcanist\_diff/*