Phabricator Implementation Guide

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# Arcanist set up: Overview

Arcanist runs on Windows, either in cmd.exe or the Git Bash environments. However, it will take a little effort to get working. This document explains what you need to do in order to get it running.

**Required Components**

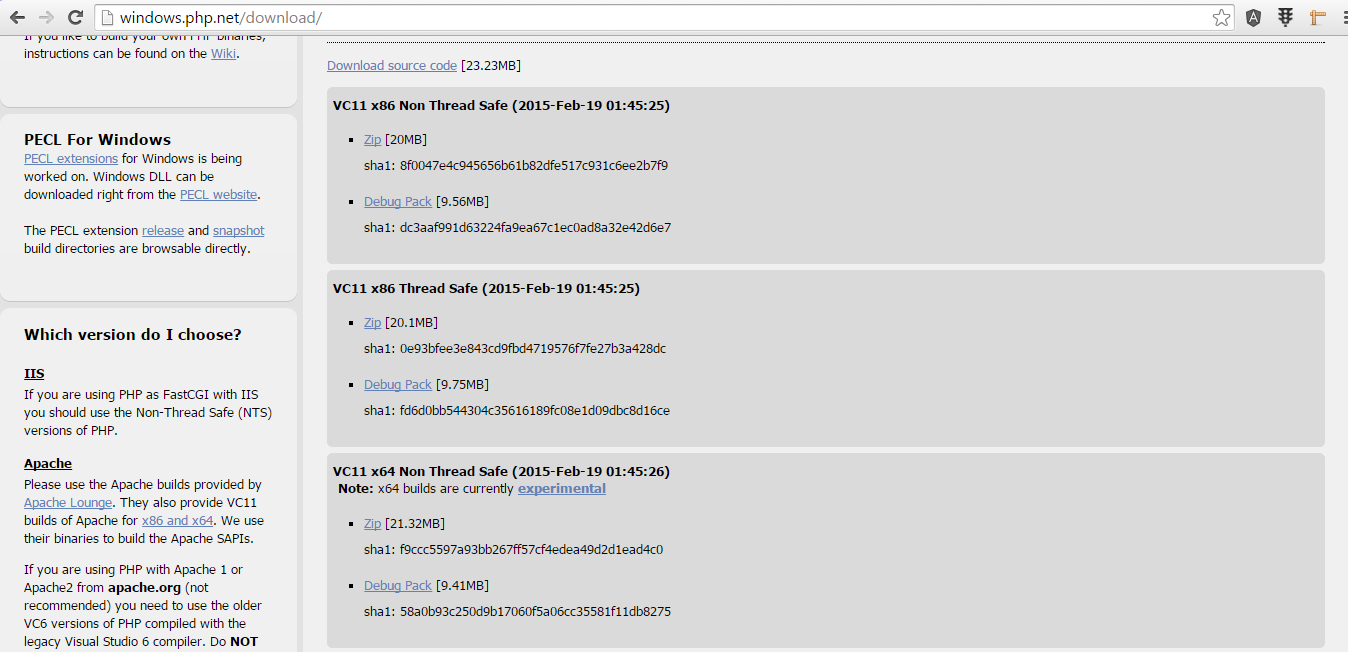
You need to install:

* PHP
* Git
* Arcanist

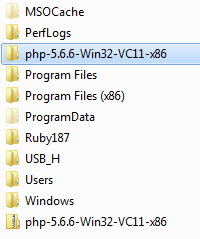
# Arcanist set up: Detailed PHP Install Instructions

While multiple versions of PHP should work, you can follow these specific instructions if you're having trouble.

1. Download the latest stable PHP binary release from: <http://windows.php.net/download/>. When this document was last updated, this was PHP 5.6.6.



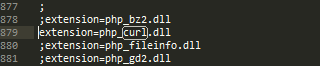
1. Unzip the PHP directory.



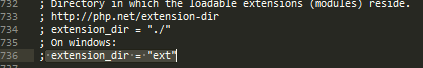
1. Rename php.ini-development to php.ini in that same directory.

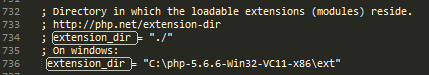


1. Open php.ini and locate the line ;extension=php\_curl.dll. Remove the ; to activate this extension.



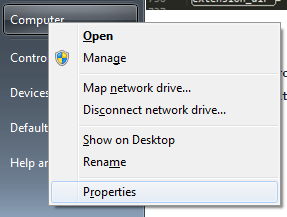
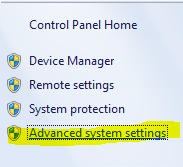
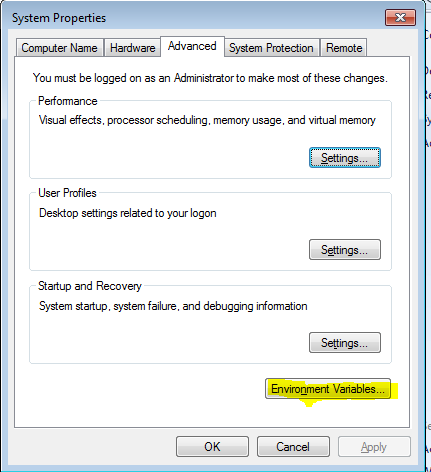
1. Locate the line ; extension\_dir = "ext" and change it to extension\_dir = "C:\php-5.6.6-Win32-VC11-x86\ext", where C:\php-5.6.6-Win32-VC11-x86\ is the directory where you installed PHP.

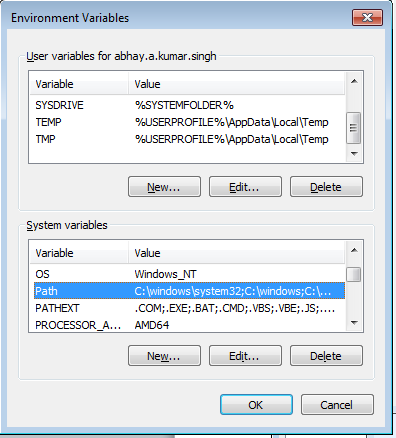
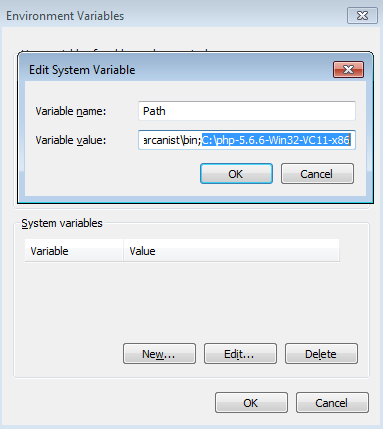




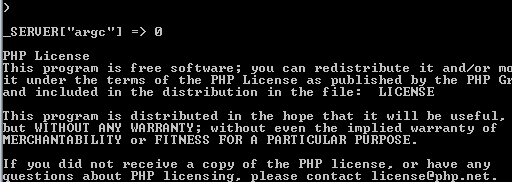
1. Set the PATH variable :
2. Select **“Computer”** from the Start Menu
3. Click on **“System properties”** in the top menu
4. Click on **“Advanced system settings”** in the side bar menu
5. On the **Advanced** tab of the **System Settings** window, click on the **Environment Variables** button.
6. Under **System Variables** scroll down and select “PATH.”
7. Click the Edit button, and append the following to the **Variable value:**

**;C:\php-5.6.6-Win32-VC11-x86**

1. Verify that things work by running **php -i** from git bash or cmd and looking for curl in the output. Something like



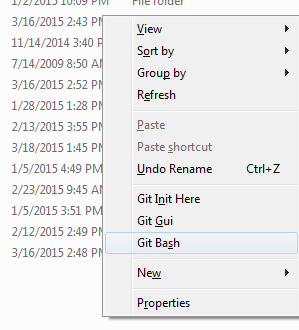
# Arcanist set up : Git Install Instructions

1. Go to <http://git-scm.com/downloads>. Select windows icon and let the download begin.
2. Run the .exe with the default configurations, advancing through until the Finish screen.
3. Git bash should be installed in the Program Files (x86) directory of your windows.



# Arcanist set up : Installing Arcanist

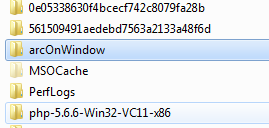
1. Open git bash in C:\



1. Type command “mkdir arcOnWindow” and “cd arcOnWindow”

OR

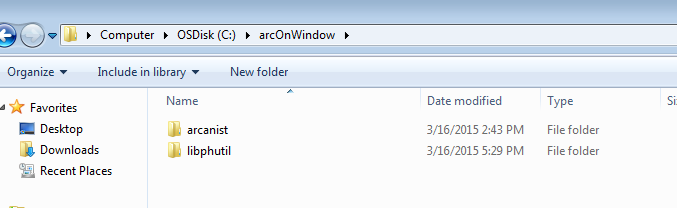
You can create any directory locally, directly on the C:\ drive (e.g. C:\arcOnWindow) and navigate to the directory by git bash



1. To install Arcanist, clone the code from GitHub:

git clone <https://github.com/facebook/libphutil.git>

git clone <https://github.com/facebook/arcanist.git>



1. Set the PATH variable for arcanist/bin as we did for PHP. For that repeat the same procedure and include **;C:\arcOnWindow\arcanist\bin**

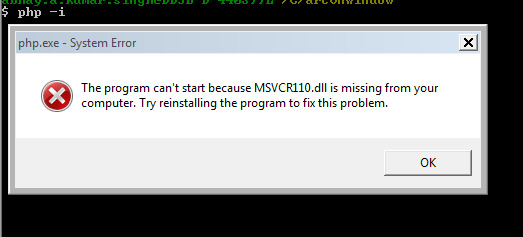
**NOTE:** Make sure your path variable has both php and arcanist path

**;C:\php-5.6.6-Win32-VC11-x86; C:\arcOnWindow\arcanist\bin**

1. Run arc –help and look for menu options in arcanist.
2. Arcanist set up: Place the attached custom.pem in the libphutil directory.

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1. Arcanist set up: Troubleshooting Tips:

* If you get error message “msvcr110.dll missing” on running php -i

**Solution**: msvcr110.dll file in C:\Windows\SysWOW64 (if your computer is 64-bit) or C:\Windows\System32 (if your computer is 32-bit). (**Contact Gemini Team for msvcr110.dll file)**

* If you get “php command not found” or “arc command not found” error.

**Solution:** Please check your environment path variable is properly set or not (Remove spaces if any).

1. Phabricator set up : Project Instance URL

1. Phabricator Instance = [http://172.28.89.47](http://172.28.89.47/)

2. Use your ad credentials to log into Phabricator. You will need approval from an admin.

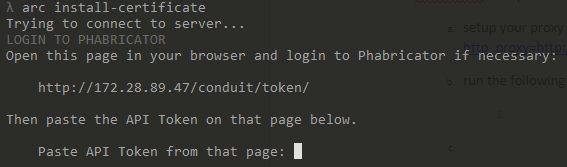
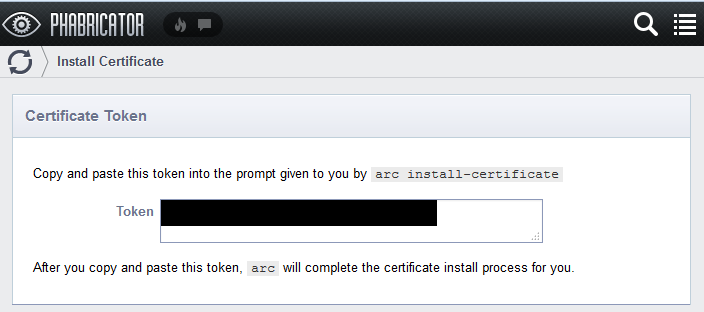
3. The .arcconfig file looks like this (You can name the project whatever you want)

{

"project.name" : "Rebellion Project",

"phabricator.uri" : <http://172.28.89.47>

}

1. Phabricator set up: install certificate on your PC
   1. setup your proxy by running "set [http\_proxy=http://<adID>:<password>@172.28.49.94:80](mailto:http_proxy=http://%3cadID%3e:%3cpassword%3e@172.28.49.94:80)"
   2. run the following command arc install-certificate
      1. 
   3. Open <http://172.28.89.47/conduit/token/>, login and copy the token from the page and paste it above. 
2. Using Phabricator: Submitting for review
   1. Make sure you commit your changes to git with following format in commit message.

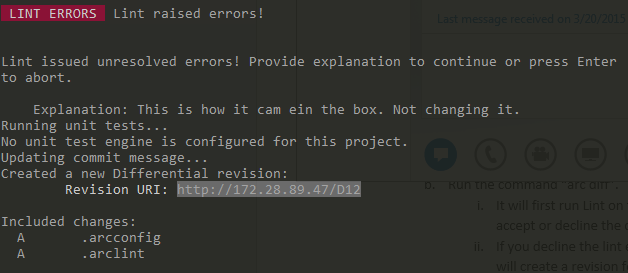
<A commit message>

Summary: <Summary of your changes>

Test Plan: <Testing plan link on Rally or just put a message on how you plan to test>

Reviewers: < ad ids of reviewers like Dev Leads, arch team etc. (make sure their IDs are present in Phabricator)>

Subscribers: < ad ids of people who you like to be subscribed to this review, like SMs, other developers etc. (make sure their IDs are present in Phabricator)>

* 1. Run the command “arc diff”.
     1. It will first run Lint on the files and try to resolve them. If you want, you can accept or decline the changes and move forward.
     2. If you decline the lint errors, it will ask you a reason. Specify the reason and it will create a revision for you in Phabricator and give you a URL for the same. 

1. Using Phabricator: Completing a review