

xdebug.org

codelite.org

On your local VM....

```
wget http://zeus.cs.pacificu.edu/chadd/cs445f17/pdoExamples.tar.gz  
cd /srv/www/htdocs/php/punetid/  
tar xzf ~/pdoExamples.tar.gz  
chmod -R o+rx pdoExamples
```

Create ssh tunnel for dbeaver

firefox:

```
http://127.0.0.1/php/punetid/pdoExamples/HelloWorld.php
```

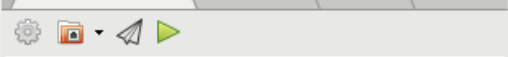
```
http://127.0.0.1/php/punetid/pdoExamples/queryFunctionCall.php
```

On your local VM....

- codelite
- File | New Workspace | PHP | OK
- Name: Examples
- Create a workspace in a separate directory
- File | New Project
- Create a project from existing source files
- Project name: pdoExamples
- Project Path: `/srv/www/htdocs/php/punetid/pdoExamples`
- Run Project as web site
- Next | Finish

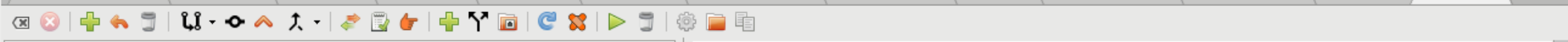
On your local VM....

- Right click pdoExamples
- Project Settings | Debug
- Right Click in white box on right
- New
- local: `/srv/www/htdocs/php/punetid/pdoExamples`
- remote: `/srv/www/htdocs/php/punetid/pdoExamples`
- Apply | OK



- PHPExample
 - PHPSamples
 - test.php
 - RemoteSamples
 - test.php

```
1 <?php
2 phpinfo();
3 print "NEW";
4 print "local";
5 ?>
6 |
```



```
Writing objects: 66% (10/15)
Writing objects: 73% (11/15)
```

Configure PHP

only necessary on your own computer

```
/etc/php5/apache2/php.ini  
/etc/php5/cli/php.ini
```

```
[PHP]
```

```
zend_extension=/usr/lib64/php5/extensions/xdebug.so
```

```
xdebug.remote_enable=1
```

```
xdebug.remote_autostart=1
```

```
xdebug.idekey="codeliteide"
```

```
xdebug.remote_host=127.0.0.1
```

```
xdebug.remote_port=9000
```

```
report_zend_debug=1
```

```
xdebug.remote_mode=req
```

```
xdebug.remote_log="/tmp/xdebug_apache.log"
```

```
xdebug.remote_handler=dbgp
```

Coding Standards

- <http://pear.php.net/manual/en/standards.php>
 - we will use these
 - well organized
 - similar to our own C/C++
 - only downside: `if (test) {`
- Other popular standards:
 - <http://www.php-fig.org/psr/psr-1/>
 - <http://www.php-fig.org/psr/psr-2/>
 - <http://symfony.com/doc/current/contributing/code/standards.html>

Workflow

- New Workspace
 - PHP
 - make directory
 - Place inside a git or svn controlled directory
- New Project
 - Empty PHP Project
 - Website
 - /usr/bin/php
 - Finish

Workflow

- Right Click Project Name | New File
 - test.php
 - edit:

```
<?php
    phpinfo ( ) ;
?>
```
 - Save
- Build | Run
 - Run / Debug with PHP command line
 - CHECK Use the active file opened in the editor
 - OK

Workflow: setup remote dir

- Workspace | Gear Icon | Debug
- Right Click in White Box | New
 - Local Folder
 - /home/**PUNETID/Workspace/Project**
 - Remote Folder
 - /srv/www/htdocs/php/**PUNETID/Project**

Workflow: setup remote dir

- SFTP (tab in explorer)
 - Folder with Person Icon (Account Manager)
 - Add
 - Account Name: localweb
 - Host/IP: 127.0.0.1
 - Port: 22
 - Username: Punetid
 - Password: *****
 - Default folder:
 - Test Connection
 - OK

Workflow: setup remote dir

- Workspace Tab
 - Camera icon
 - Account: localweb
 - Path: /srv/www/htdocs/php/PUNETID
 - OK
 - Camera (drop down arrow)
 - Enable Automatic Upload

Possibly you will need to set your permissions correctly:

```
chmod o+rx /srv/www/htdocs/php/PUNETID/Project
```

Continued.

Later you can add a connection to the db machine. You can then flip back and forth between localweb and dbmachine to either test locally or push to the remote machine (for grading and demonstrating the code to the instructor/teammates):

Account Name: dbmachine

Host/IP: **64.59.233.245**

Port: 22

Username: punetid

Password: *********

Default folder: /srv/www/htdocs/php/PUNETID

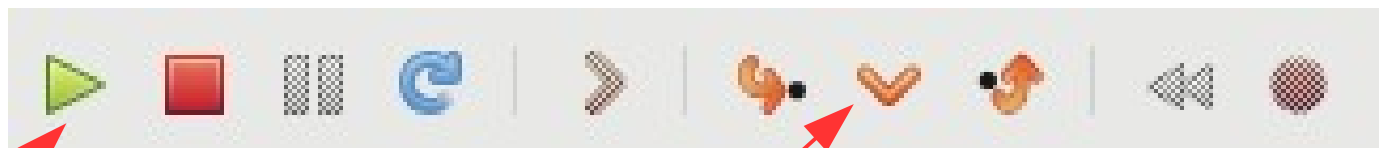
Workflow

- Debugger | Start/Continue Debugger
 - Run / Debug with PHP command line
 - CHECK Use the active file opened in the editor
 - OK
- Set Breakpoint: left click just to the right of the line number
- “This project has no file mapping...”
 - Ok, Continue to Debug (only ok for run with command line)

Workflow: Debug a web page

- Right Click Project | Project Settings | Debug
- Right Click in white box on right | New
 - local folder: /home/**PUNET/Workspace/project**
 - remote folder:
/srv/www/htdocs/php/**PUNET/project**
 - Ok
 - Apply
 - Ok
- Debugger | Start/Continue Debugger
 - Run / Debug URL
 - URL to Run / Debug:
<http://127.0.0.1/php/chadd/RemoteSamples/test.php>

Debugger



- Start
- Stop
- Restart
- Step In
- Step Over
- Step out