

How To Set Up Eclipse to Debug iCore PHP Code

The methods listed on this page have been verified to work on a Windows 7 machine using Eclipse Helios version.

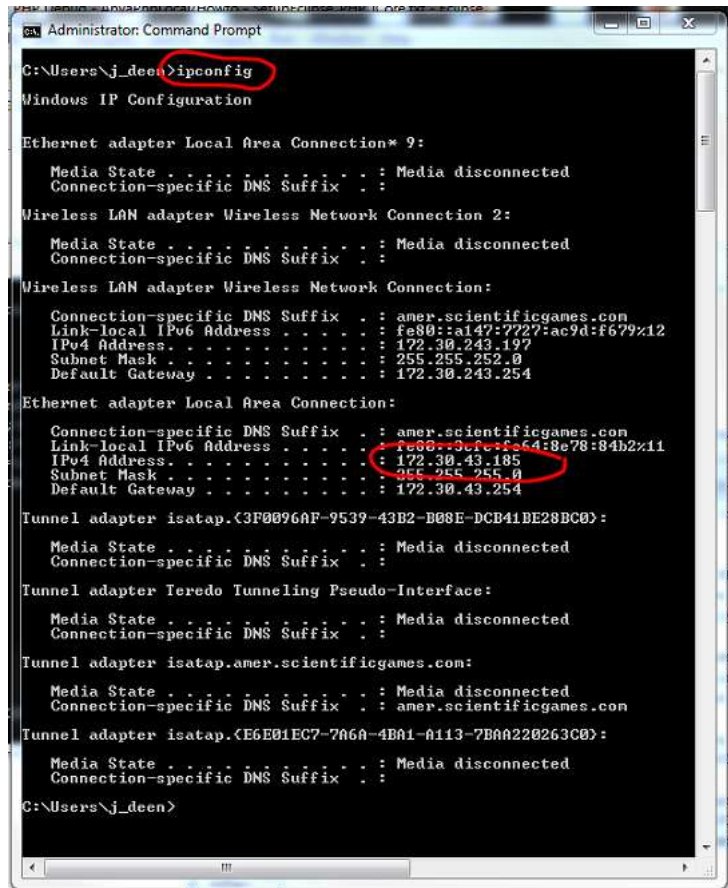
1. Install Eclipse

- Make sure you have the Eclipse PDT tools installed
- Enable the PHP Debug perspective or view
- Enable RSE view so you can easily edit remote source files

2. Enable & Configure XDebug on the Interactive Core Reveal System

1. Determine your IP address:

Open a DOS box on your Windows machine, and enter the ipconfig cmd, as shown:



You will want to use the IPv4 Address under Ethernet adapter Local Area Connection as <YOUR_REMOTE_IP_ADDRESS> in the steps below.

2. Configure XDebug Settings

■ Method 1: Modify xdebug.ini:

You will need to get file permissions set to be able to modify xdebug.ini

Modify xdebug.ini such that it looks like this, where <YOUR_REMOTE_IP_ADDRESS> is the one you found in step 2.1 above:

```

zend_extension=/usr/lib/php5/20060613+libs/xdebug.so xdebug.remote_enable=on
xdebug.remote_host="<YOUR_REMOTE_IP_ADDRESS>"
xdebug.idekey=DBGP_ECLIPSE
xdebug.remote_connect_back=ON
  
```

■ Method 2: Set environment variables:

1. Stop the Reveal process
2. Set XDEBUG=1
3. Set MY_REMOTE_HOST_IP="<YOUR_REMOTE_IP_ADDRESS>"
4. Restart the Reveal process

3. Create a local copy of the Interactive Core PHP code you wish to debug

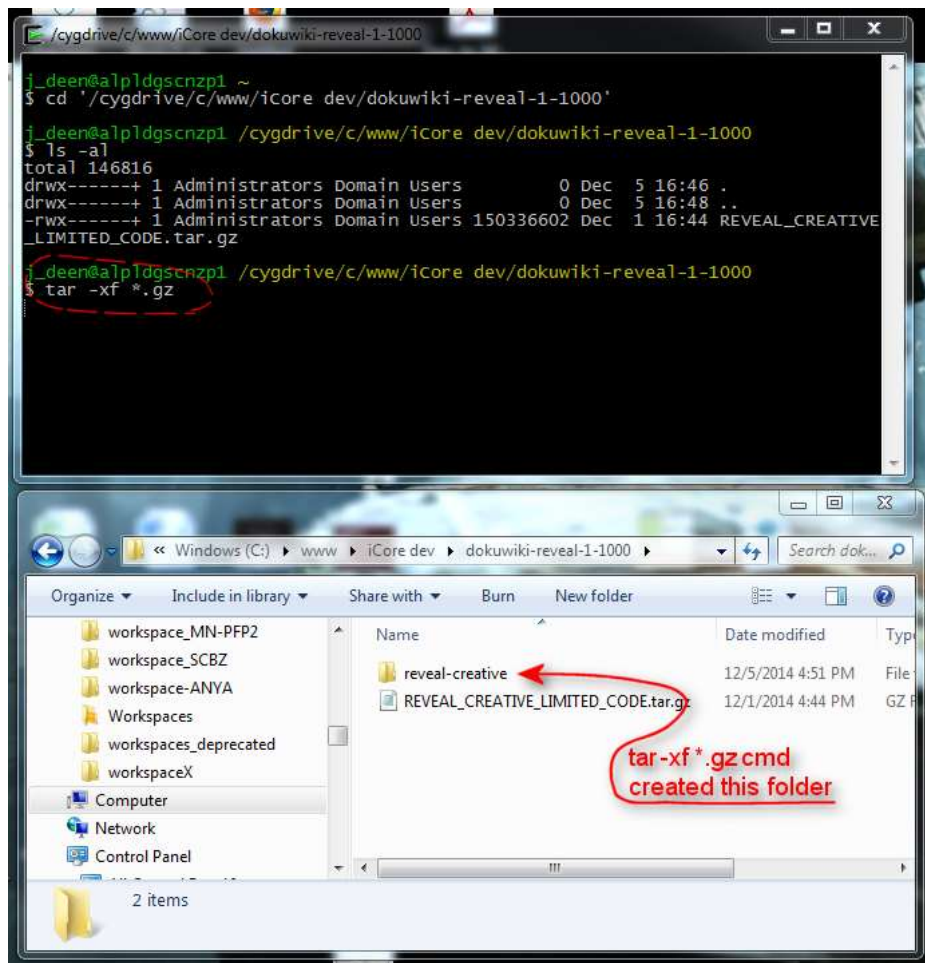
- Create a tar file of limited source code from your Interactive Core repo on your vhost
This is the tar cmd I used to avoid copying the SCCS directories:

```

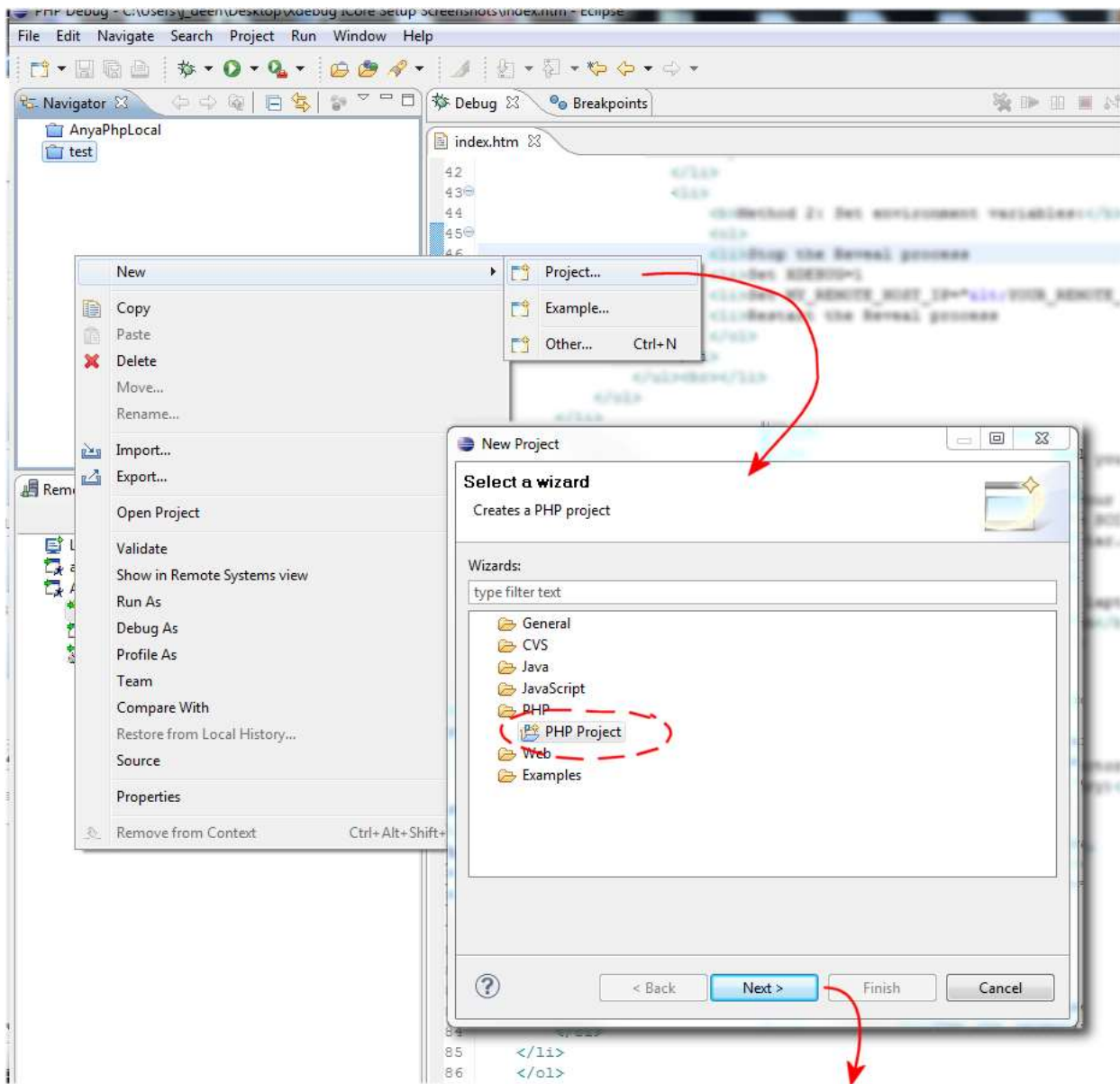
tar -cvzf ~/REVEAL_CREATIVE_LIMITED_CODE.tar.gz --exclude "SCCS" --exclude "*.swf" --exclude "*.fla" --exclude "*.pdf" reveal-creative/Brands
reveal-creative/Includes reveal-creative/Javascript reveal-creative/php
  
```

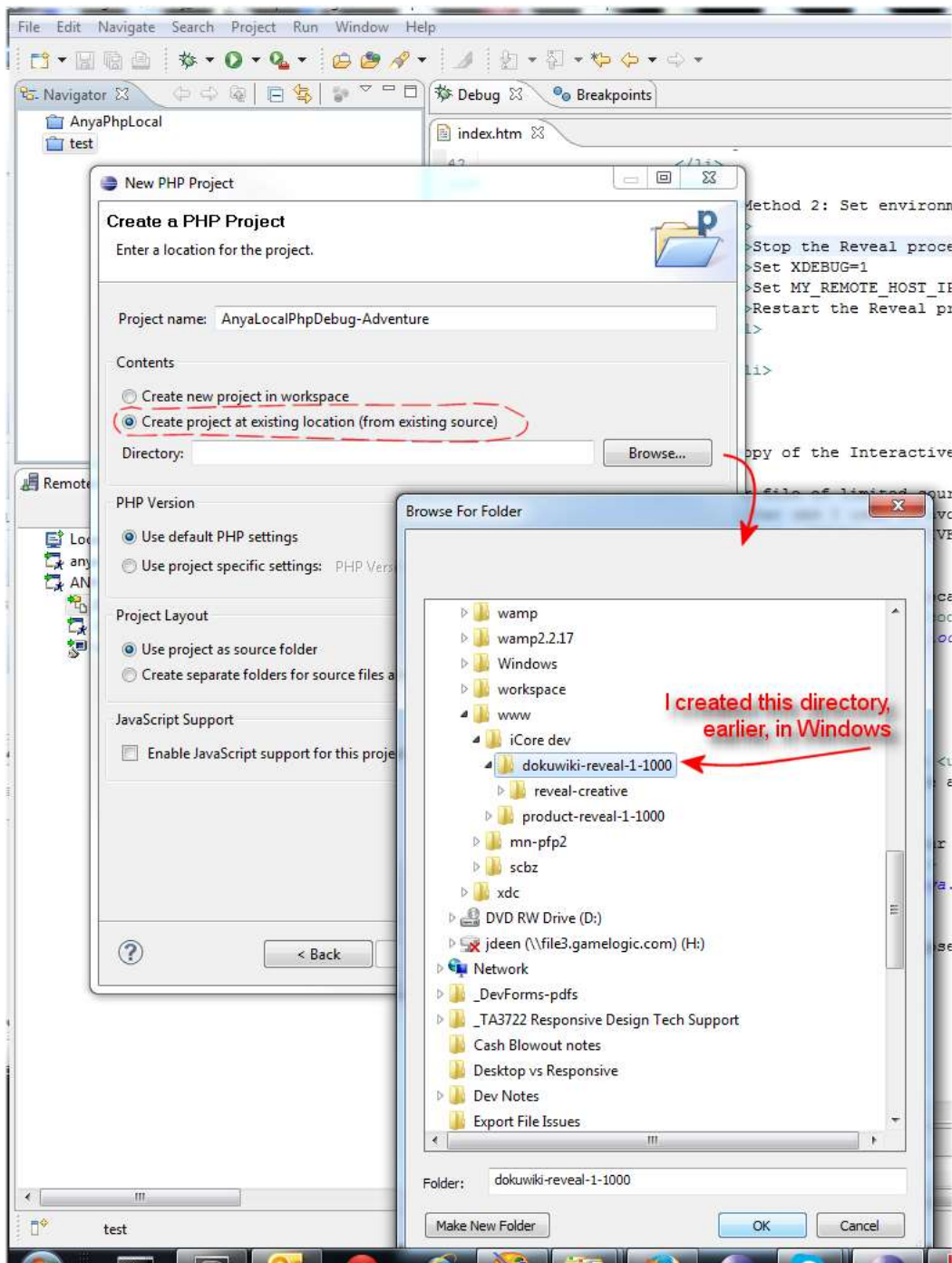
- Copy & Extract that tar file locally onto your laptop

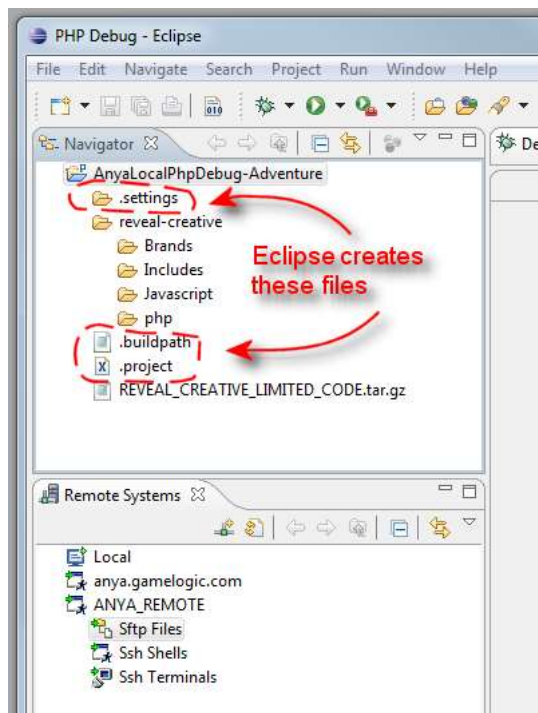
I used tar -xf *.gz in **Cygwin** to do so:



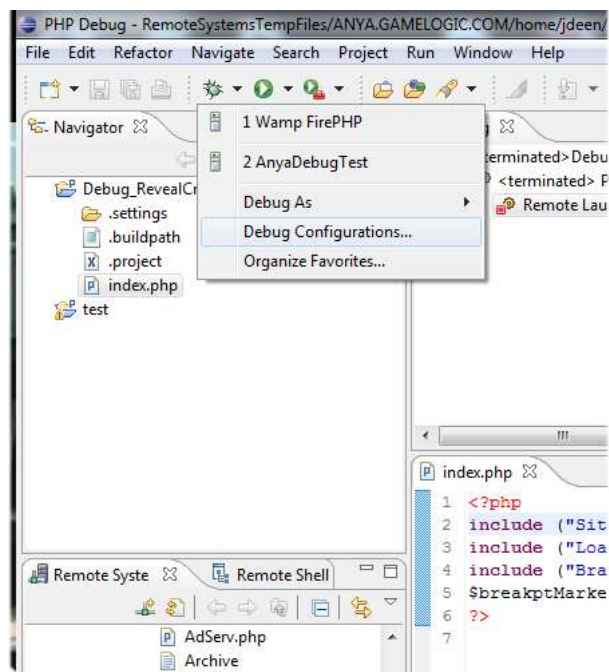
4. Create an Eclipse Php Project in an existing directory on your windows machine
(Use the recently extracted tar file as that directory)

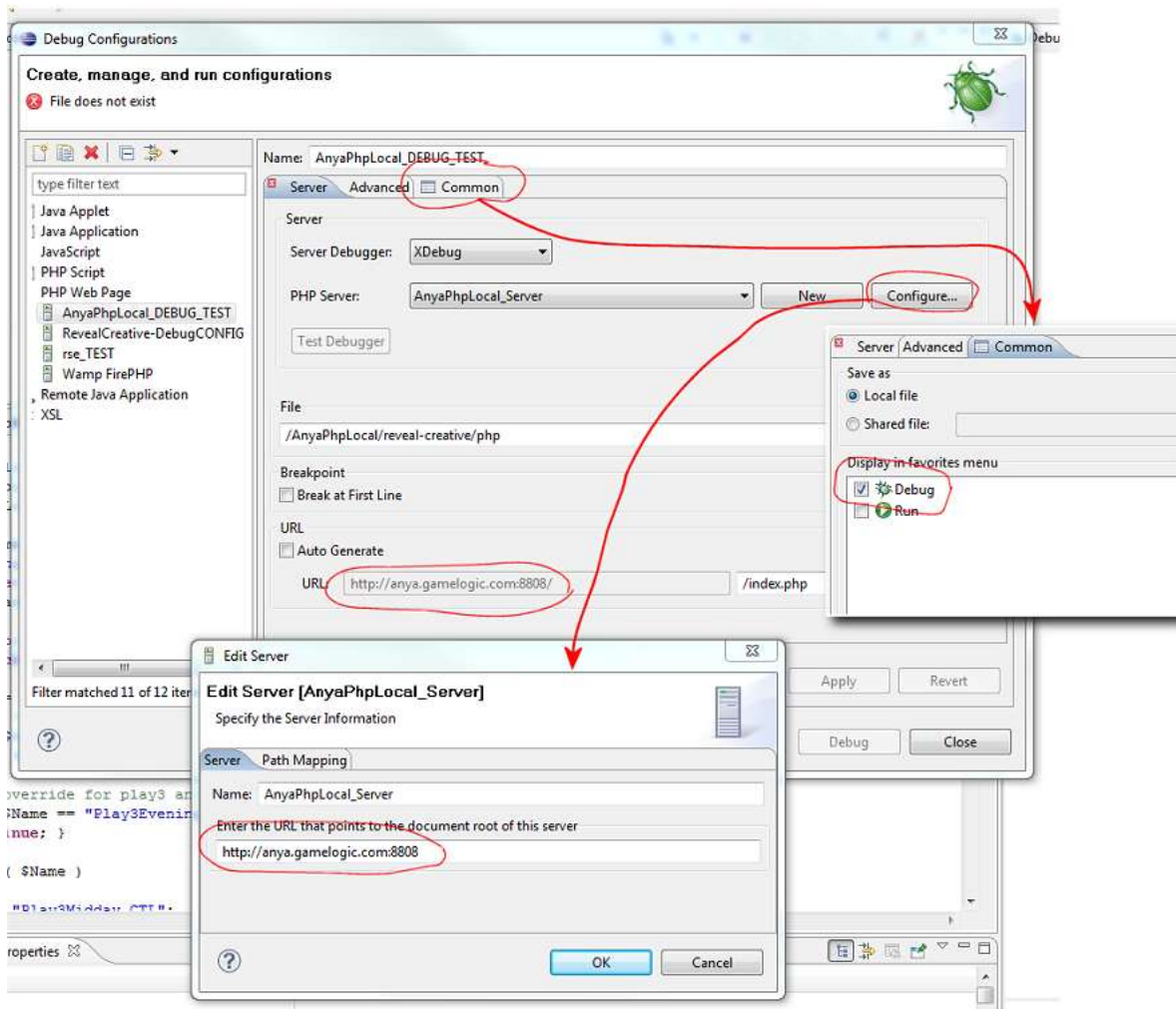






5. Create a Debug Configuration for your project





6. Debugging iCore PHP Code Using Eclipse

1. The "Mirrored Source"

The biggest pain regarding this method of using Eclipse to debug your PHP code is that you will need to maintain a "mirror" of the source code you are working with on your Windows development computer.

Your local copy (*the mirrored code*) is the one which you will use to set breakpoints, step through code, and select variables for examining. Think of it as a map which tells Xdebug (running on the remote computer) which files and where in those files to look for code and data.

The remote copy (*residing on the remote computer*) is the one that will actually be executed & parsed by the PHP debugger as you debug the code.

If you need to make changes to any code, you will need to do so on both the remote copy of that code AND on the local copy of that code.

It will be up to **you** to keep the remote copy in sync with the local copy.

I typically edit the remote copy, then do a copy and paste of the entire source file to the local file.

One of the benefits of having the local copy, however, is that searching within the source code will be much faster than if searching on the remote computer.

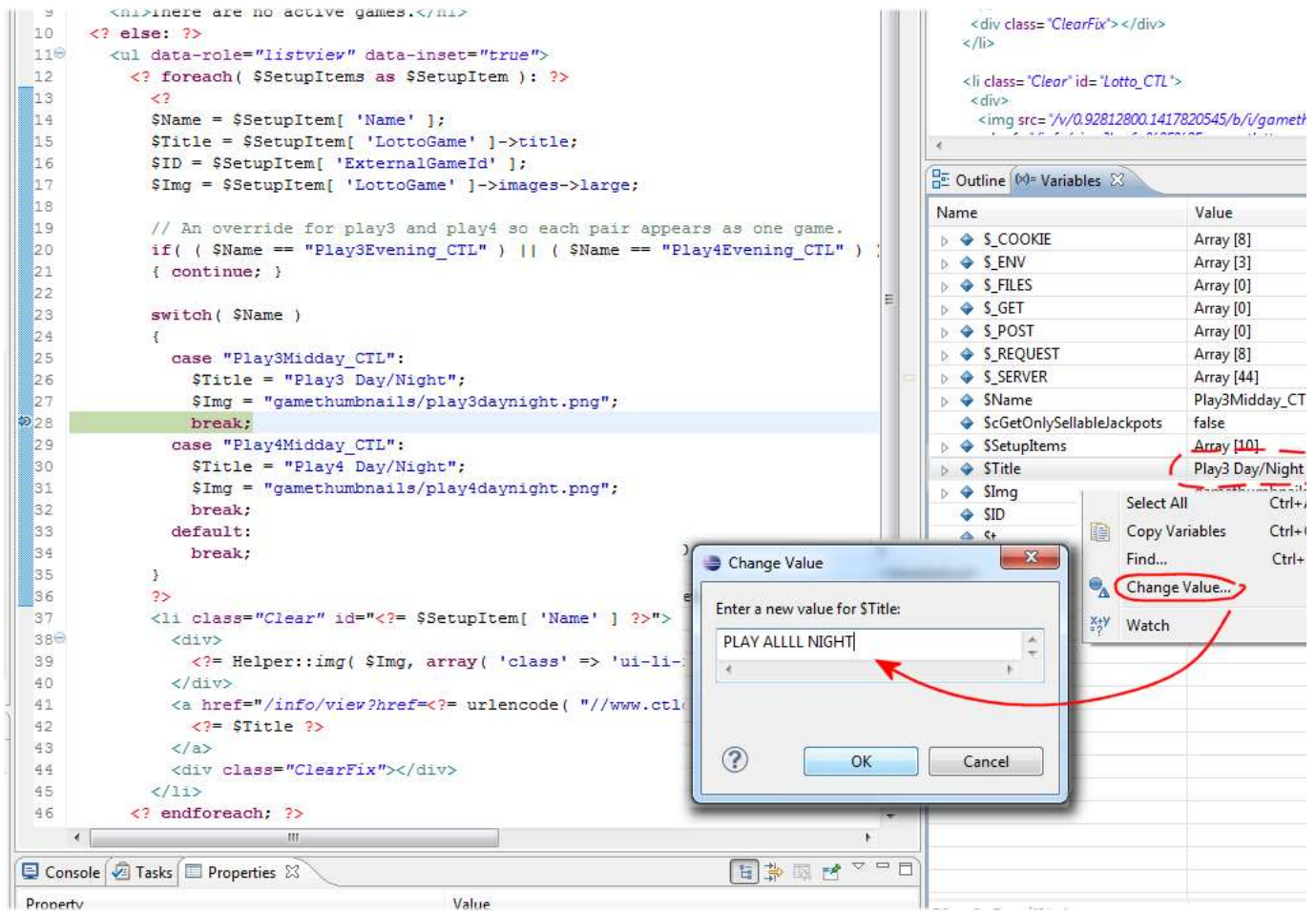
2. Setting breakpoints

This screenshot shows where I have set a breakpoint in the file `winningnumbers.php`. Using the previously created Debug Configuration I executed the code as a PHP Web Page. The debugger caused eclipse to stop at the breakpoint, at which time I can now examine the values for the variables within the scope of the code where the breakpoint is set.



3. Changing variable values

This screenshot shows where I have altered the value of a `$Title` variable in the file `winningnumbers.php`. I right-clicked on the `$Title` variable, and replaced `"Play3 Day/Night"` with `"PLAY ALLLL NIGHT"`.



Then I clicked the green Resume button on the debugging panel and we can see the results on the webpage below.

