# Installing & Customizing the OHMS Viewer

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This is a brief tutorial on installing and customizing the OHMS viewer software.  Please note that this tutorial is intended for technical folks at the novice level as far as working with a Linux web server environment.
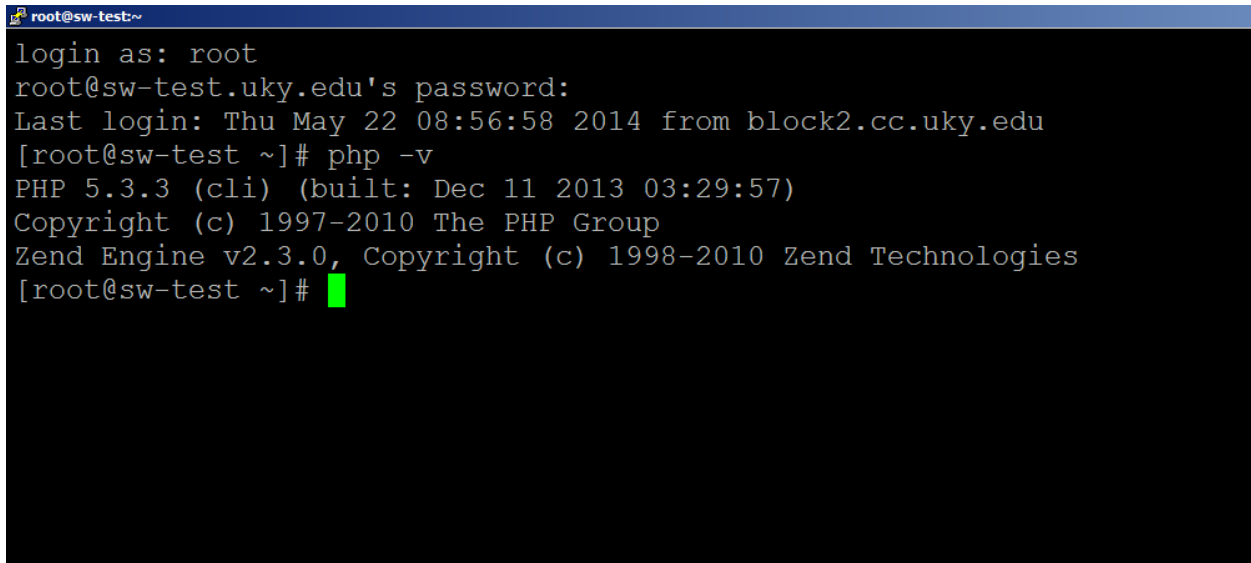
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First, I'd like to point out a few basic requirements necessary in order for the OHMS Viewer installation to work.

The OHMS viewer:

1.  requires PHP 5.3 or greater
2.  has been tested and implemented using Apache httpd on Linux.  Other environments such as Windows should also work but have not been tested.

To see what version of PHP your server is currently running, login and try the following command:  php -v

```
root@sw-test:~
login as: root
root@sw-test.uky.edu's password:
Last login: Thu May 22 08:56:58 2014 from block2.cc.uky.edu
[root@sw-test ~]# php -v
PHP 5.3.3 (cli) (built: Dec 11 2013 03:29:57)
Copyright (c) 1997-2010 The PHP Group
Zend Engine v2.3.0, Copyright (c) 1998-2010 Zend Technologies
[root@sw-test ~]#
```

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Now let's look at a basic installation of the OHMS viewer software:

Step I: Install the Viewer Files

1) Download the OHMS Viewer zip file.
(https://github.com/uklibraries/ohms-viewer/archive/master.zip)

2) Create a subdirectory on the web server to store the OHMS Viewer. If your web server stores pages in /var/www/html and you want to access the viewer as http://example.com/ohms-viewer/, then you would create the subdirectory "ohms-viewer" in /var/www/html/.

```
root@sw-test:/var/www/html
login as: root
root@sw-test.uky.edu's password:
Last login: Thu May 22 14:39:18 2014 from 10.163.34.43
[root@sw-test ~]# cd ../
[root@sw-test /]# cd var/www/html
[root@sw-test html]# mkdir ohms-viewer
[root@sw-test html]#
```

Basic Linux commands needed (example): ls (list directory contents), cd (change directory), mkdir (make new directory)

3) Extract the OHMS Viewer zip file into the subdirectory you created.

Once you have moved the OHMS Viewer zip file to the desired subdirectory you created, extract the contents into that directory.

Basic Linux command needed (example): unzip ohms-viewer-master

Once the zip file contents are expanded, you will see a great number of files appear in the ohms-viewer directory.

Step II: Set the values for the configuration file

The next steps will require using a text editing program to create your configuration file for the viewer. This configuration file allows you to set the background colors, the Usage and Rights statements and images used on the Viewer page. You can refer to the config.example.ini in the Viewer subdirectory "config"as a guide for settings values.

A bit about editing.  There are a number of popular editors.  I like to use a very simple one called Pico.  On CentOS, if Pico is not installed already, use the following approach:

cd /usr/bin/
ln -s nano pico
export EDITOR="pico"

Now, try to start the editor by typing "pico" and you should be able to use it.

1) Create the configuration file "config.ini".

> **IMPORTANT:** Rename the file "config.template.ini" to "config.ini" in the Viewer subdirectory "config" The reason for this is that if you implement a newer version of the Viewer, your current config.ini file will not be overwritten or replaced (though a future version may require changes to your config.ini).

To make this new version of the ini file and name it "config.ini", run the following command while in the "ohms-viewer" directory.

cp config.template.ini config.ini

Then, run the ls command to list the directory content and make sure the config.ini file is present.

2) Next, you must configure the OHMS Viewer to access the location for your repository cache files exported from the OHMS Application. The cache files can be located on the same server inside or outside the Viewer directory, or on another server utilizing a valid URL.

To edit the "config.ini" file, type the following command within the "ohms-viewer" directory.

pico config.ini

```
root@sw-test:/var/www/html/ohms-viewer

  GNU nano 2.0.9                         File: config.ini


tmpDir =
players = other,brightcove,kaltura


[Your Repository Name]
css = custom_default.css
footerimg =
footerimgalt =
contactemail =
contactlink =
copyrightholder =
open_graph_description =
open_graph_image =
kaltura_url =

























                                                        [ Read 14 lines ]
^G Get Help       ^O WriteOut       ^R Read File       ^Y Prev Page
^X Exit           ^J Justify        ^W Where Is        ^V Next Page
```

To set the server path to access the cache files:

The "config.ini" has the property "tmpDir". Change this line to the server directory path for the cache files.  Although this directory can be placed anywhere as long as the path is correctly specified in the config.ini file, we suggest giving it a home outside the Viewer directory.  This will make upgrading the viewer software a bit easier.


Examples:

Inside the Viewer directory:

    tmpDir = /var/www/html/ohms-viewer/cachefiles

On the server:

> tmpDir = /var/www/html/ohms-cachefiles (be sure to create the "ohms-cachefiles" directory once you set this path.  Use mkdir ohms-cachefiles.

On another server:

> tmpDir = http://example.com/ohms-cachefiles/

In any case, you must ensure that the location you specify exists and is readable by the OHMS Viewer.

3) Set the players the OHMS Viewer can utilize for audio/video playback.  At the moment, these include other,brightcove,youtube.  So, a likely entry for this parameter can be the following.

> players = other,brightcove,youtube

4) Set the timezone.  For example, Eastern time is:

> timezone = America/New_York

5) Set the repository name. Replace the existing entry that states "Your Repository Name" with your repository name as entered in the "repository" data field of your cache files. The names must match exactly (the same uppercase or lowercase letters and any punctation). For example, if your repository's name is "John J. Doe Center, University of Us" then that is what must be entered (without the double quotes).  Note that the OHMS Viewer is capable of handling multiple configurations within one installation and that these configurations are grouped and controlled based on the repository name.  A cache XML file interpreted by the OHMS Viewer code will match configuration settings to a specific interview based on an exact matching of the repository name listed in the config.ini and the repository field in the cache XML file.

6) The CSS file name (the "css" config property). The default setting is to the "custom_default.css" file located in the "css" subdirectory of the Viewer. We suggest you keep this file name. Edit the custom_default.css values to the background colors you wish to use. This is further discussed in the next installation section.

7) Set the location for the footer image (such as a logo) that appears in the footer area of the viewer (the "footerimg" config property). The image must reside in the root directory of your web site. An example is that if the image file is "footerimage.jpg" in the "images" subdirectory of your site, you would enter: images/footerimage.jpg .

6) Set the alternate text for the footer image that will appear when a computer pointing device (such as a mouse) hovers over the image or that is read by a screen reader. This is entered for the "footerimgalt" config property.

7) Set the contact email address for the "contactemail" config property.

8) Set the alternate text for the footer image that will appear when a computer pointing device (such as a mouse) hovers over the image or that is read by a screen reader. This is entered for the "footerimgalt" config property.

9) Set the contact email address for the "contactemail" config property.

10) Set the link to the web site for the repository owner for the "contactlink" config property. This may be the same as the URL for your site hosting the Viewer.

11) Set the text for the copyright holder information for the "copyrightholder" config property. If this text will list an entry such as a department or division of an organization (for example "History Department, University of State"), then each entity should be inside the HTML <span></span> tags such as:

 <span>History Department</span><span>University of State</span>

12) Set the Open Graph "description" value for the "open_graph_description" config property. The Open Graph protocol provides a way for links placed in social media sites to display thumbnail images, descriptions and titles. The "description" is what will always appear as the description (such as "Our Repository") for every link to interviews hosted by your OHMS Viewer.

13) Set the Open Graph image to use for links placed in social media sites ("open_graph_image" config property). This will be the image seen with links placed in social media site postings (it does not appear on the Viewer page). The image must reside in the root directory of your web site. An example is that if the image is "ourimage.jpg" in the "images" subdirectory of your site, you would enter: images/ourimage.jpg .

Please note that the "title" that appears for links in social media sites using Open Graph is set by the "title" data field in the linked interview cache file.

Once you have made all these changes to the "config.ini" file, save it.

Step III: Configuring the style values in the CSS file

The file css/custom_default.css contains a base set of style elements for the Viewer you can configure. These are:

```
body {
  background: url("../imgs/bg-1.png") repeat-x top #ffffff;
}

#header, #headervid, #footer, #audio-panel, #subjectPlayer {
    background: #3c3c3c;
}
```

These settings allow you to quickly change the whole color of the viewer and replace background image to match desired color.  Note that further changes involving CSS should be handled within custom_default.css.  We suggest taking a element from viewer.css and pasting it into custom_default.css to then make changes to it.  Whatever changes are made in custom_default.css will override elements included in viewer.css.

Step IV: Using the Viewer with your interview XML files exported from OHMS

After installing and configuring the Viewer, you can begin testing and using it immediately. You must have your interview files exported from OHMS in the directory you set for the "tmpDir" configuration property. The URL for using the Viewer would be your web site address and the subdirectory for the Viewer along with the page (viewer.php) that processes the interview file. An example is:

http://www.myviewerexamplesite.edu/ohms-viewer/viewer.php?cachefile=name_of_file.xml

Sample live interview at the University of Kentucky Libraries Louie B. Nunn Center for Oral History:
https://nyx.uky.edu/oh/render.php?cachefile=2007OH219_PC103_Shraberg.xml

Troubleshooting:
If this URL does not load properly or you receive an error message about not finding the interview file, check the following:

- The subdirectory name where the Viewer is located is correct.
- The "tmpDir" in the configuration file is correct for the location where you placed your interview files exported from OHMS.
- The name of the XML file after "cachefile=" in the URL is correct.
- Check the permissions on the subdirectories for the Viewer and XML interview files to make sure that your web server can read/access files.