

PHP & Images

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<http://www.cs.odu.edu/~jbrunelle/cs518>

Topics

- Uploading Files
- Manipulating Images

File Upload

- HTML form-based
- Uses POST method
- Content Type (enctype) attribute: multipart/form-data
 - no application/x-www-form-urlencoded
- define MAX_FILE_SIZE in hidden field
 - must precede input type: file

```
<form enctype="multipart/form-data" action="fileUpload.php" method="post">  
<input type="hidden" name="MAX_FILE_SIZE" value="30000">  
File: <input name="mkfile" type="file">  
<input type="submit" value="Upload!">  
</form>
```

Tools for File Upload

- Associate array `$_FILES`
- `$_FILES['mkfile']['name']`
 - original name from client
- `$_FILES['mkfile']['type']`
 - MIME type if provided
- `$_FILES['mkfile']['size']`
 - size in bytes
- `$_FILES['mkfile']['tmp_name']`
 - tmp file name on server
- `$_FILES['mkfile']['error']`
 - error code

Errors

- `UPLOAD_ERR_OK` [0]
 - no error, file upload successful
- `UPLOAD_ERR_INI_SIZE` [1]
 - uploaded file exceeds `upload_max_filesize` in `php.ini`
- `UPLOAD_ERR_FORM_SIZE` [2]
 - uploaded file exceeds `MAX_FILE_SIZE` specified in HTML form
- `UPLOAD_ERR_PARTIAL` [3]
 - file was only partially uploaded
- `UPLOAD_ERR_NO_FILE` [4]
 - no file uploaded
- `UPLOAD_ERR_NO_TMP_DIR` [6]
 - missing temporary folder
- `UPLOAD_ERR_CANT_WRITE` [7]
 - write file to disk failed
- `UPLOAD_ERR_EXTENSION` [8]
 - PHP extension stopped the file upload

Example

- <http://www.cs.odu.edu/~jbrunelle/cs518/examples/uploads/>

```
<?php
$uploaddir = '/home/mkelly/cs418/uploads/';
$uploadfile = $uploaddir . basename($_FILES['mkfile']['name']);
if (move_uploaded_file($_FILES['mkfile']['tmp_name'],
$uploadfile))
{
    echo "File is valid, and was successfully uploaded.\n";
}
else {
    echo "Possible file upload attack!\n";
}
print_r($_FILES);
?>
```

\$uploaddir - must have write permissions (chmod 777)