Working with Files in PHP
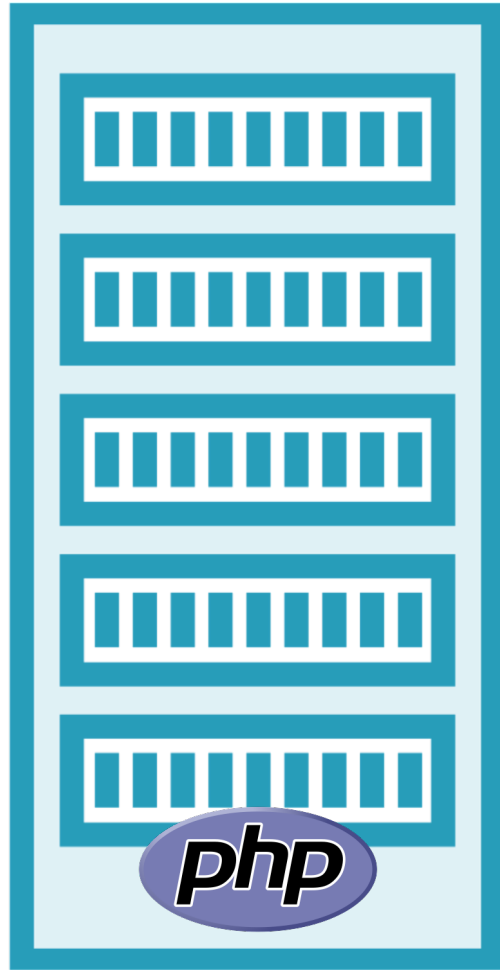
MANAGING FILES

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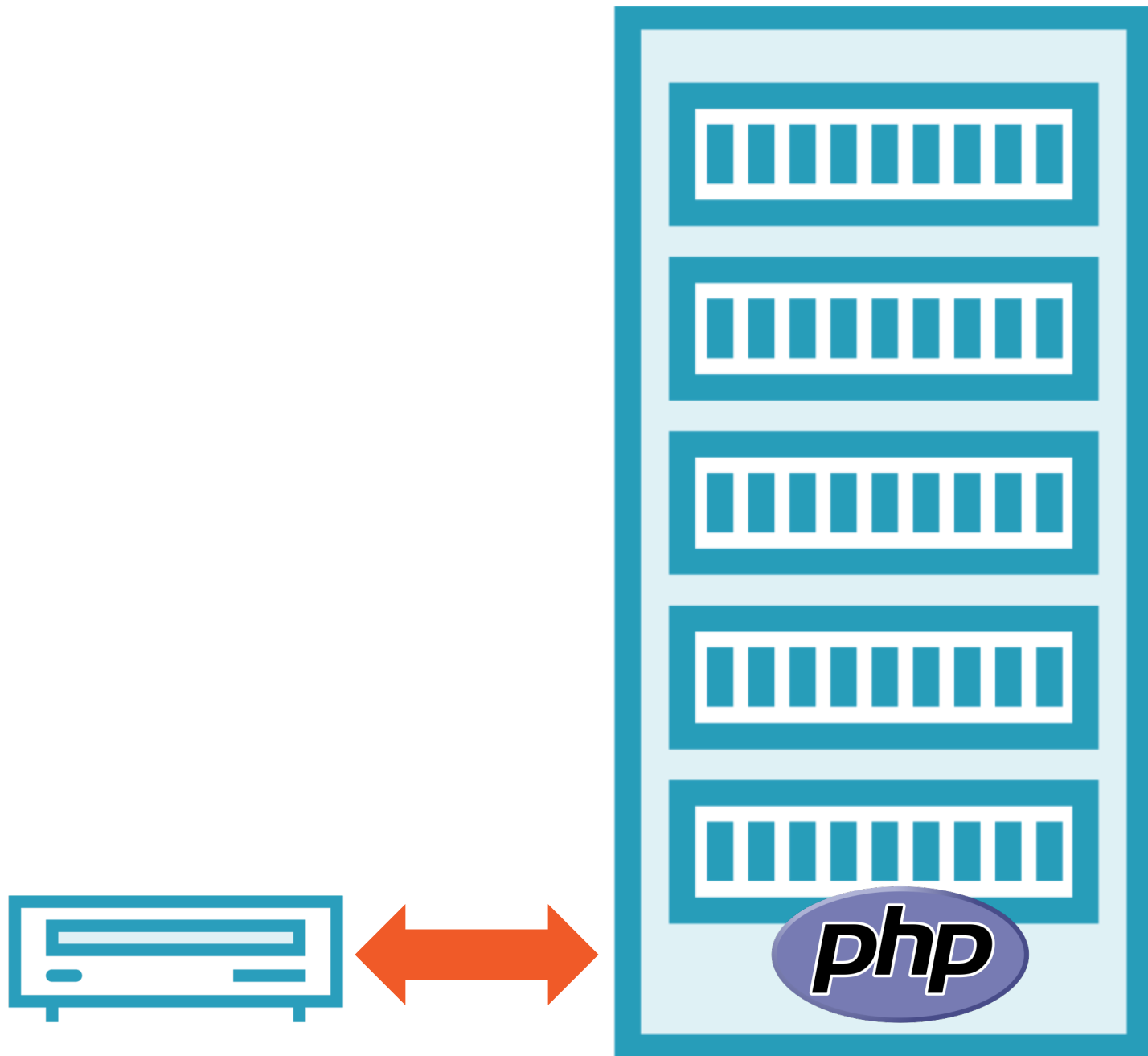
Course Outline

Managing Files

Other Files Operations

Working with the Filesystem

Files and Web Services

Course Demo

eBook reader

Read a book

Scanning a library

Send and receive books via web service

Introduction

Reading Files

Creating Files

Writing to Files

Deleting Files

File Operations - Read

| file_get_contents() | file() | readfile() |

Read contents of file into a string

Read contents of file into an array

(one line per entry)

Read file and send directly to output buffer

File Management Workflow

Open file → **File operations** → **Close file**

File Management Workflow

fopen() → **File operations** → **fclose()**

https://www.php.net/manual/en/ref.filesystem.php

```php
$f = fopen(

        string $filename,

        string $mode,

        [

                bool $use_include_path = FALSE,

                resource $context

        ]

);
```

◄ Open a file with fopen() and store in $f

◄ Path to file, can be a URL

◄ Required access mode (e.g. read or write)

◄ Use include path to search for file

◄ Context that the resulting file stream should be opened with

File Access Modes

Access mode	Meaning
r / r+	Read (+ write), start at beginning
w / w+	Write (+ read), start at beginning
a / a+	Write (+ read), start at end
x / x+	Create and write (+ read). Fail if file exists.
c / c+	Open for write (+ read). Without truncating content

Closing a file

```
$f = fopen('path/to/file', 'r');        // open a file for reading


$result = fclose($f);                    // try to close $f


echo $result                             // TRUE if $f closed successfully
```

Reading Partial Files

fread()	feof()	rewind()	fget*
Read part of a file into a string	Test for end of file	Reset file pointer to beginning of file	Stay tuned…

fget* functions

fgetc

Get a single character

fgets

Get a line of text

fgetcsv

Get a line and parse as CSV

Creating Files

Temporary files

tmpfile()

tempnam()

"Permanent" files

fopen()

touch()

Writing to Files

Open file → **File operations** → **Close file**

Writing to Files

fopen() ➡ **fwrite()** ➡ **fclose()**

file_put_contents()

Writing to Files

fwrite()

file_put_contents()

fputs()

fputcsv()

Deleting Files

$result = unlink('path/to/file');   // unlink attempts to delete a file

echo $result;   // $result is TRUE if file deleted

Summary

Reading Files
- – Whole vs. partial
- – Access modes

Creating Files

Writing to Files

Deleting Files