2023/2024(1) EF234301 Web Programming Lecture #4b Installing PHP on IIS

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Internet Information Service (IIS) & PHP

- Why bother, we already have XAMPP?
- Some companies have been using IIS (because of Windows OS)
- (Web) server (or anything) choices
 - Free, open-source \rightarrow freedom, but no pay
 - Proprietary \rightarrow better supports & responsibilities, but need to pay
- XAMPP → PHP + MySQL (MariaDB)
- IIS \rightarrow bundled on Windows OS
 - Its application are using ASP.NET & Microsoft SQL databases
 - But, we can utilise IIS so that PHP can run on it

Microsoft

PHP installation

- Download PHP from PHP website for Windows: <u>https://windows.php.net/download</u>
- Find and download the Non-Thread Safe (NTS) versions of PHP, i.e., the Zip version.
- Extract the Zip file on a designated folder,
 e.g., D:\Program\PHP



- More recent versions of PHP are built with VS15 or VS16 (Visual Studio 2017 or 2019 compiler respectively).
- The VS15 and VS16 builds require to have the Visual C++ Redistributable for Visual Studio 2015-2019 x64 or x86 installed.
 - https://aka.ms/vs/16/release/<u>VC_redist.x64.exe</u>
 - https://aka.ms/vs/16/release/<u>VC_redist.x86.exe</u>
- Download and install the respective version

😸 Microsof	t Visual C++ 2015-2019 Redistributable (x64) - 14 —		×		
Microsoft Visual C++ 2015-2019					
Redistributable (x64) - 14.29.30133					
MICROSOFT SOFTWARE LICENSE TERMS					
MICROSO	MICROSOFT VISUAL C++ 2019 RUNTIME				
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. They apply to the					
✓ I agree to the license terms and conditions					
	Se Install	Clos	se		

• Once the installation finished, restart the computer



- Add the PHP directory to the PATH environment variable.
- Open the **System Properties** window.
- Open the **Advanced** tab and click on the **Environment Variables** button.

System Propertie	25				×
Computer Name	Hardware	Advanced	System Protection	Remote	
You must be log	ged on as a	in Administrat	or to make most of th	iese changes	
Performance					
Visual effects	, processor s	cheduling, m	emory usage and virt	ual memory	
				Settings	
User Profiles					
Desktop settir	ngs related to	o your sign-in			
				Settings	
Start-up and F	Recovery				
System start-u	ıp, system fa	ilure and deb	ugging information		
				Settings	
			Environme	nt Variables	2
		ОК	Cancel	Appl	y

• Select the **Path** variable and click on the **Edit...** button.

variable	Value	^		
IntelliJ IDEA Community Edit	D:\Program\JetBrains\IntelliJ\bin;			
JENAROOT	C:\Users\Irfan\Documents\Program\apache-jena-2.11.2			
MYSQLCONNECTOR_ASSEM C:\Program Files (x86)\MySQL\Connector NET 8.0\Assemblies\v4.5.2				
OneDrive	C:\Users\Irfan\OneDrive			
OneDriveConsumer C:\Users\Irfan\OneDrive				
Path	C:\Program Files\MySQL\MySQL Shell 8.0\bin\;C:\Users\Irfan\App			
TEMP	C:\Users\Irfan\AppData\Local\Temp	Y		
	<u>N</u> ew <u>E</u> dit <u>D</u> elete			
stem variables				
stem variables Variable	Value	^		
stem variables Variable NUMBER_OF_PROCESSORS	Value 8	^		
stem variables Variable NUMBER_OF_PROCESSORS OS	Value 8 Windows_NT	^		
stem variables Variable NUMBER_OF_PROCESSORS OS Path	Value 8 Windows_NT C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro	^		
stem variables Variable NUMBER_OF_PROCESSORS OS Path PATHEXT	Value 8 Windows_NT C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro .COM;.EXE;.BAT;.CMD;.VBS;.VBE;JS;.JSE;.WSF;.WSH;.MSC	^		
stem variables Variable NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR_ARCHITECTURE	Value 8 Windows_NT C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC AMD64	^		
stem variables Variable NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR_ARCHITECTURE PROCESSOR_IDENTIFIER	Value 8 Windows_NT C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC AMD64 Intel64 Family 6 Model 58 Stepping 9, GenuineIntel	^		
stem variables Variable NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR_ARCHITECTURE PROCESSOR_IDENTIFIER PROCESSOR_LEVEL	Value 8 Windows_NT <u>C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro</u> .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC AMD64 Intel64 Family 6 Model 58 Stepping 9, GenuineIntel 6	^ ~		
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- Add the PHP directory to the end of the **Path** variable value.
- E.g., D:\Program\PHP

C:\Program Files\Intel\Intel(R) Management Engine Components\	^	New
C:\Program Files\Intel\Intel(R) Management Engine Components\I		
C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon		Edit
C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon		
C:\Program Files (x86)\Intel\OpenCL SDK\2.0\bin\x86		Browse
C:\Program Files (x86)\Intel\OpenCL SDK\2.0\bin\x64		
C:\Program Files\Intel\WiFi\bin\		Delete
C:\Program Files\Common Files\Intel\WirelessCommon\		
%JENAROOT%\bat		
D:\Program\MinGW\bin		Move Up
D:\Program\MinGW\msys\1.0\bin		
%SYSTEMROOT%\System32\OpenSSH\		Move Down
D:\Program\Java\JDK\bin		
%JAVA_HOME%\bin		
C:\Program Files\dotnet\		Edit text
C:\Program Files\Microsoft SQL Server\130\Tools\Binn\		
C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tool		
C:\Program Files (x86)\dotnet\		
C:\Program Files (x86)\HP\IdrsOCR_15.2.10.1114\		
D:\Program\PHP	v	

- Open the Windows **Explorer** application and access the PHP folder.
- Find the file: php.iniproduction
- Copy this file and rename the copied file: php.ini



Home

PHP

tml

Temp

- Open and edit **php.ini**
- Remove ";" (comment) in front of these values, so that we have updated configuration as in the following.

```
open_basedir = "D:\inetpub\wwwroot"
extension_dir = "ext"
cgi.force_redirect = 0
cgi.fix_pathinfo=1
fastcgi.impersonate = 1
extension=bz2
extension=curl
extension=gd
extension=ldap
extension=mbstring
extension=mysqli
extension=openssl
date.timezone = Asia/Jakarta
```

Test the PHP installation

• Open the **Command Prompt** and type: **php** -version



Test the PHP installation (continued)

• Open the **Command Prompt** and type: **php** -info

📾 Command Prompt	Command Prompt -	
Microsoft Windows [Version 10.0.19043.1237] (c) Microsoft Corporation. All rights reserved.	Reflection Reflection => enabled	Î
C:\Users\Irfan>php -info_	session Session Support => enabled Registered save handlers => files user Registered serializer handlers => php_serialize php php_binary	
 Congratulation! ③ PHP has been installed! ③ 	Directive => Local Value => Master Value session.auto_start => Off => Off session.cache_expire => 180 => 180 session.cache_limiter => nocache => nocache session.cookie_domain => no value => no value session.cookie_httponly => no value => no value session.cookie_lifetime => 0 => 0 session.cookie_samesite => no value => no value session.cookie_samesite => no value => no value session.cookie_secure => 0 => 0 session.gc_divisor => 1000 => 1000 session.gc_maxlifetime => 1440 => 1440 session.lazy_write => On => On session.name => PHPSESSID => PHPSESSID	

Setting up IIS for PHP

- Open Control Panel > Programs > Programs and Features > Turn Windows features on or off > Windows Features, OR
 - Type Windows Features in Search box and enter
- Locate Internet Information Services > Word Wide Web Services > Application Development Features > Click CGI



Open IIS Manager



• Find and open Handler Mappings



Click Add Module Mappings...



- On request path: type * . php
- On Module, select CgiModule from dropdown menu
- On Executable, browse: D:\Program\PHP\php-cgi.exe
- Name it anything, type MyCGI

Add Module Mapping		? ×	<
Request <u>p</u> ath:			
*.php			
Example: *.bas, wsvc.axd			
Module:			
CgiModule		~	
Executable (optional):			
D:\Program\PHP\php-cgi.exe			
<u>N</u> ame:			
MyCGI			
Request Restrictions			
	ок	Cancel	1
	K		-

- Click Request Restrictions...
- Select File or Folder option
- Click **OK** button
- Click Yes button for the following window

dit Script Map		?	×
Request path:			
*.php			
Example: *.bas, wsvc.axd			
<u>E</u> xecutable:			
D:\Program\PHP\php-cgi.exe			
<u>N</u> ame:			
MyCGI			
Request Restrictions			
	ОК	Cancel	

Request Restrictions	?	×
Mapping Verbs Access		
 Invoke handler only if request is mapped to: Eile Folder File or folder 		
ОК	Cancel	



- To finish the installation, we have to *restart* the IIS service
- Right click on the server name on the top left part of the screen and select Stop
- Right click on the server name on the top left part of the screen and select Start
- Congratulation! 🙂
- IIS has been setup! 🙂

