Introduzione a XAMPP

Rio Chierego (riochierego@libero.it)

ISIS "Guido Tassinari" Articolazione: INFORMATICA

Introduzione

applicazione web richiede

- diversi componenti
 - HTTP server per rendere disponibili le pagine web
 - es. Apache
 - database per gestire i dati
 - es. MySQL
 - application engine per l'esecuzione di programmi
 - es. interprete PHP, Tomcat per JSP
- configurazioni specifiche per ogni componente
 - trade-off: semplicità vs. sicurezza vs. efficienza
 ambito di utilizzo

Introduzione

 XAMPP: insieme integrato di pacchetti software (distribuzione)

- include: Apache, PHP, MySQL, phpMyAdmin, …
- orientato allo sviluppo/test di applicazioni web
- facile da installare, configurazione predefinita
- interfaccia per operazioni semplici
 - es. avvio/stop servizi, configurazione porte web server
- operazioni avanzate: necessario agire sulle configurazioni specifiche dei servizi
 - es. host virtuali
- in generale non adatto per sistemi di produzione
 - hardening

Il web dinamico e XAMPP 1.richiesta risorsa (PHP) server 2. inoltro richiesta browser web interprete PHP web (Apache) 5. invio risposta (D)HTML es. Chrome) interprete 3. lettura canale HTTP (PHP) **file richiesto** 4. lettura dati da DB / file 6. interprete HTML file .php + parte dinamica (es. JS) HD DBMS HD (MySQL)

XAMPP per Windows 7 oppure 10

pagina di download

- https://www.apachefriends.org/it/download.html
- ultima versione 5.6.23 (per Windows 7)
 - XP e 2003 non piu supportati (ultima versione 1.8.3)

disponibile anche per

- GNU/Linux
- Apple Mac OS X
- Solaris

XAMPP portabile

possibile selezionare solo i servizi necessari (usa meno spazio su disco)

- Apache, PHP, MySQL base essenziale
- **phpMyAdmin** molto utile
- installabile su memoria esterna (es. memoria USB)
- una volta installata, per essere avviata:
 - aprire la cartella di installazione
 - default "C:\xampp" (per istallazione su hard disk)
 - non usare spazi vuoti, caratteri speciali o di spaziatura nel path
 - doppio click su "xampp_start.exe"
 - per accedere al pannello di controllo, doppio click su "xampp_control.exe"

B		Open	
N 1	8	Run as administrator	 avviare l'installazione con
		Troubleshoot compatibility	
		7-Zip	l'utente "Amministratore"
I	2	Edit with Notepad++	
\$	Ð	COMODO Antivirus	
		Share with	
		Restore previous versions	
		Send to	
		Cut	
		Сору	
		Create shortcut	
		Delete	
		Rename	
		Properties	

🖾 Setup		
Select Components	ເ	
Select the components you want to install; clear Next when you are ready to continue.	the components you do not want to install. Click FileZilla, Mercury, To Perl e Fake Sendma verranno usati durante	omcat, ail non e il corso
XAMPP Installer	< Back Next > Cancel	

🖸 Setup	1	- • •
Installation fo	older	83
Please, choose a	a folder to install XAMPP 1.8.1-0	
Select a folder	C:\xampp	
	cartella di installazione	
	2	
XAMPP Installer	<pre>Back Next ></pre>	Cancel

🔝 Setup	
BitNami for XAMPP	83
	BitNami for XAMPP is a free installer that can install Drupal, Joomla! and WordPress on top of your existing XAMPP installation. http://bitnami.com/xampp Learn more about BitNami for XAMPP
	non usato nel corso
XAMPP Installer	<pre></pre>



XAMPP – Pannello di controllo

Madulaa	XAI	MPP Contr	ol Panel v3	.2.2				Config	
Service	Module	PID(s)	Port(s)	Actions				(Netstat	
	Apache	8572 3860	80, 443	Stop	Admin	Config	Logs	Shell	
	MySQL	9012	3306	Stop	Admin	Config	Logs	Explorer	
	FileZilla			Start	Admin	Config	Logs	Services	
	Mercury			Start	Admin	Config	Logs	🕑 Help	
	Tomcat			Start	Admin	Config	Logs	📃 Quit	
15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28	[main] [main] [main] [Apache] [Apache] [mysql] [mysql]	Enabling a Enabling a Starting Cl Control Pa Autostart a Attempting Autostart a	utostart for mod utostart for mod heck-Timer nel Ready active: starting g to start Apache active: starting g to start MySQI	lule "Apach lule "MySQ e app L app	e" L"				

XAMPP – Impostazioni generali

		////// Lan	ena co me	
	\boxtimes Configuration of Control – \Box ×		- 0	×
Modu Servic	Editor: C:\Program Files (x86)\Notepad++\notepad++.exe Browser (empty = system default) C:\Program Files (x86)\Google\Chrome\Application\chrome.exe Autostart of modules Apache FileZilla Tomcat MySQL Mercury		Config Netstat Shell Explorer Services	
15:05: 15:05: 15:05: 15:05: 15:05:	 Selected modules will be started on next launch of the Control Panel. Start Control Panel Minimized Enable Tomcat output window Check default ports on startup Show debug information 		Welp Quit	^
15:05: 15:05: 15:05: 15:05: 15:05:	Change Language Service and Port Settings User Defined Files Log Options X Abort Save			>

XAMPP – Impostazioni generali

Editor:	editor di testo per le configurazioni
C:\Program Files (x86)\Notepad++\notepad++.exe	
Browser (empty = system default)	
C:\Program Files (x86)\Google\Chrome\Application\chrome.exe	hrowcor prodofinito
Autostart of modules	browser predennito
Apache FileZilla Tomcat	
MySQL Mercury	
Selected modules will be started on next launch of the Control Panel.	avvio automatico dei servizi
Start Control Panel Minimized	
Enable Tomcat output window	
Check default ports on startup	
Show debug information	
Change Language Service and Port Settings	
User Defined Files Log Options	
🗙 Abort 🛛 🖋 Save	

XAMPP – Impostazioni servizio

lse this form to set servic	e-specific and def	ault port settings. You can set the name
uotes in names. This do	es NOT change th	ne ports that the services and programs
se. You still need to chai	nge those in the s	ervices' configuration files.
Apache MySQL FileZilla	Mercury Tomcat	
Apache Settings	and the state of the second	
Service Name	Main Port	SSL Port
Apache2.4	80	443
Ch	- ange Language	Abort Save

Apache

HTTP server

ospita pagine HTML statiche

application server

ospita pagine/applicazioni dinamiche (es. PHP)

attraverso caricamento di un modulo (es. PHP)

- file con estensione ".php" (o altro: configurabile!)
- pagine/applicazioni posizionate nella "Document Root"
- configurazione di default
 - HTTP porta 80/TCP
 - HTTPS porta 443/TCP

Avvio di Apache

PP Contro	l Panel v3.2.2	[Compiled:	Nov 12t	h 2015]			—		×
XAN	MPP Contro	I Panel v3.2	2.2				🅜 Cor	nfig	
Module	PID(s)	Port(s)	Actions				🛛 🎯 Net	stat	
Apache	8572 3860	80, 443	Stop	Admin	Config	Logs	📄 🗾 Sh	ell	
MySQL	9012	3306	Stop	Adn	nfig	Logs	Expl	orer	
FileZilla			I		- I	gs	- Serv	vices	
Mercury		avv		Ара	cne	gs	😧 He	elp	
Tomcat			Start	Admin	Config	Logs	<u></u> Q	uit	
[main] [main] [main] [Apache] [Apache] [mysql] [mysql] [Apache] [mysql]	Enabling aut Enabling aut Starting Che Control Pane Autostart ac Attempting t Autostart ac Attempting t Status chan Status chan	ostart for modu ostart for modu ck-Timer el Ready tive: starting o start Apache tive: starting o start MySQL ge detected: run ge detected: run	le "Apache le "MySQL app app nning nning						^
	PP Contro XAN Module Apache MySQL FileZilla Mercury Tomcat [main] [main] [main] [main] [Apache] [Apache] [mysql] [Apache] [mysql] [Apache] [mysql]	PP Control Panel v3.2.2 XAMPP Control Module PID(s) Apache 8572 Apache 3860 MySQL 9012 FileZilla Mercury Tomcat [main] Enabling aut [main] Enabling aut [main] Starting Che [main] Control Pane [Apache] Autostart ac [Apache] Autostart ac [Mysql] Autostart ac [mysql] Autostart ac [mysql] Attempting t [Apache] Status chan [mysql] Status chan [mysq	PP Control Panel v3.2.2 Compiled: XAMPP Control Panel v3.2 Port(s) Module PID(s) Port(s) Apache 8572 80, 443 Image: Control Panel v3.2 MySQL 9012 3306 Image: Control Panel v3.2 FileZilla Image: Control Panel v3.2 Image: Control Panel v3.2 Mercury Tomcat Image: Control Panel v3.2 [main] Enabling autostart for module main] Enabling autostart for module main] [main] Enabling autostart for module main] Control Panel Ready [Mapache] Autostart active: starting [Mysql] Autostart active: starting [Mysql] Attempting to start MysQL [Mysql] Status change detected: ru [mysql] Status change detected: ru	PP Control Panel v3.2.2 Compiled: Nov 12th XAMPP Control Panel v3.2.2 Module PID(s) Port(s) Actions Apache 8572 80, 443 Stop MySQL 9012 3306 Stop FileZilla Mercury Tomcat Start [main] Enabling autostart for module "Apache [main] Starting Check-Timer [main] Starting Check-Timer MySQL [main] Control Panel Ready [Apache] Autostart active: starting [Mysql] Attempting to start Apache app [mysql] Attempting to start MySQL app [Apache] Status change detected: running [mysql] Status change detected: running	PP Control Panel v3.2.2 Compiled: Nov 12th 2015] XAMPP Control Panel v3.2.2 Module PID(s) Port(s) Actions Apache 8572 80, 443 Stop Adm' MySQL 9012 3306 Stop Adm FileZilla avvio di Apache Admin Mercury Start Admin Imain] Enabling autostart for module "Apache" [main] Enabling autostart for module "MySQL" [main] Control Panel Ready [Apache] Autostart active: starting [Apache] Autostart active: starting [mysql] Autempting to start MySQL app [Mysql] Attempting to start MySQL app [Apache] Status change detected: running [mysql] Status change detected: running	PP Control Panel v3.2.2 [Compiled: Nov 12th 2015] XAMPP Control Panel v3.2.2 Module PID(s) Port(s) Actions Apache 3572 3860 80,443 Stop Adm Config MySQL 9012 3006 Stop Adm Trig FileZilla Mercury Tomcat Start Admin Config [main] Enabling autostart for module "Apache" [main] Enabling autostart for module "MySQL" [main] Enabling autostart for module "MySQL" [main] Enabling autostart for module "MySQL" [main] Starting Check-Timer [main] Control Panel Ready [Apache] Autostart active: starting [Mysql] Autostart active: starting [Mysql] Autostart active: starting [Mysql] Autostart active: starting [Mysql] Attempting to start MySQL app [Apache] Status change detected: running [mysql] Status change detected: running	PP Control Panel v3.2.2 [Compiled: Nov 12th 2015] XAMPP Control Panel v3.2.2 Module PID(s) Port(s) Actions Apache 8572 3860 MySQL 9012 306 Stop Adri rfig Logs FileZilla Mercury Tomcat Enabling autostart for module "Apache" [main] Enabling autostart for module "Apache" [main] Enabling autostart for module "MySQL" [main] Enabling autostart for module "MySQL" [main] Starting Check-Timer [main] Control Panel Ready [Apache] Autostart active: starting [Apache] Attempting to start Apache app [mysql] Attempting to start MySQL app [Mysql] Attempting to start MySQL app [Apache] Status change detected: running [mysql] Status change detected: running	PP Control Panel v3.2.2 [Compiled: Nov 12th 2015] - XAMPP Control Panel v3.2.2 Module PID(s) Port(s) Actions Apache 8572 80,443 Stop Adm ⁻ Config Logs Image: Stop MySQL 9012 3306 Stop Adm ⁻ rfig Logs Image: Stop FileZilla Image: Start Admin Config Logs Image: Start Image: Start Mercury Image: Start Admin Config Logs Image: Start Image: S	PP Control Panel v3.2.2 [Compiled: Nov 12th 2015] – □ XAMPP Control Panel v3.2.2 Module PID(s) Port(s) Actions Apache 8572 80,443 Stop Admin Config Logs MySQL 9012 3306 Stop Admin Trig Logs Explorer FileZilla avvio di Apache js js eige out Mercury Image out Image out Image out Image out [main] Enabling autostart for module "Apache" image out Image out [main] Enabling autostart for module "MySQL" Image out Image out [main] Starting Check-Timer Image out Image out Image out [main] Control Panel Ready Image out Image out Image out Image out [Apache] Autostart active: starting Image out Image out Image out Image out [main] Control Panel Ready Image out Image out Image out Image out [main] Start Apache app Autostart active: starting Im

Avvio di Apache

								aniena ni		
🔀 XAM	PP Contro	l Panel v3.2.2	[Compiled	l: Nov 12	th 2015]			—		×
8	XA	MPP Control	Panel v3	.2.2				<i>j</i> Co	onfig	
Service	Module	PID(s)	Port(s)	Actions				🙆 Ne	tstat	
	Apache	8572 3860	80, 443	Stop	Admin	Config	Logs	🗾 S	hell	
	MySQL	9012	3306	Stop	Admin	Config	Logs	🔚 Exp	lorer	
	FileZill	/					Logs	🦻 岁 Ser	vices	
	Mercu	identific	ativo/i	del p	roces	so/i	Logs	() H	elp	
	Tomc						Logs		Quit	
15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:29 15:05:29	[main] [main] [main] [Apache] [Apache] [mysql] [mysql] [Apache] [mysql]	Enabling auto Enabling auto Starting Cheo Control Pane Autostart act Attempting to Autostart act Attempting to Status chang Status chang	ostart for mod ostart for mod ck-Timer I Ready tive: starting o start Apache tive: starting o start MySQI ge detected: ru ge detected: ru	ule "Apach ule "MySQ app app unning unning	e" L"					*

Avvio di Apache

							Lanena (IIII)	
🖼 XAM	PP Contro	l Panel v3.2.2	[Compiled	l: Nov 12	th 2015]		- 0	×
8	XA	MPP Contro	ol Panel v3.	.2.2			de Config	
Service	Module	PID(s)	Port(s)	Actions			i Netstat	
	Apache	8572 3860	80, 443	Stop	Admin	Config Log	s 📔 Shell	
	MySQL	9012	3306	Stop	Admin	Config Log	s 🔄 Explorer	
							Services	
	Ар	ache a	vviato	(po	rte 80), 443)	Help	
15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:29 15:05:29	[main] [main] [main] [Apache] [Apache] [mysql] [Mysql] [Apache] [mysql]	Enabling au Enabling au Starting Che Control Pan Autostart ac Attempting Autostart ac Attempting Status chan	tostart for mod tostart for mod eck-Timer el Ready ctive: starting to start Apache ctive: starting to start MySQL nge detected: ru nge detected: ru	ule "Apach ule "MySQ app app unning unning	e" L"			~

Stop di Apache

			a. r.a	1.1.1.0						
	PP Control	Panel v3.2	.2 [Compiled	d: Nov 12	th 2015 J			—		×
8	XAN	IPP Cont	rol Panel v3	.2.2				de Co	nfig	
Service	Module	PID(s)	Port(s)	Actions				i Net	stat	
	Apache	8572 3860	80, 443	Stop	Admin	Config	Logs	Sł	nell	
	MySQL	9012	3306	Stop	Admin	Config	Logs	🔁 Exp	lorer	
	FileZilla			Starf		Config	Logs	🚽 🛃 Serv	/ices	
	Mercury	c	ston di	i An-	acho		Logs	😡 He	elp	
	Tomcat		stop u		ache		Logs	<u></u> Q	uit	
15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:28 15:05:29 15:05:29	[main] [main] [main] [Apache] [Apache] [mysql] [Mysql] [Apache] [mysql]	Enabling a Enabling a Starting C Control Pa Autostart Attemptin Autostart Attemptin Status ch Status ch	autostart for mod autostart for mod check-Timer anel Ready active: starting g to start Apach active: starting g to start MySQ ange detected: r ange detected: r	lule "Apach lule "MySQ e app L app unning unning	ie" IL"					<

Apache – file di configurazione e cartelle

cartella "DocumentRoot"

- dove posizionare le pagine/applicazioni web
- "C:\xampp\htdocs" (in MS Windows)

cartella "ServerRoot"

- dove Apache viene installato
- "C:\xampp\apache" (in MS Windows)
- file configurazione principale
 - porte in ascolto, moduli da caricare, ...
 - "C:\xampp\apache\conf\httpd.conf" (in MS Windows)

file configurazione XAMPP

- usato per integrare i componenti (es. PHP, database, …)
- "C:\xampp\apache\conf\extra\httpd-xampp.conf" (in MS Windows)

Apache – accesso ai file di configurazione

🙁 XAMI	PP Contro	l Panel v3.2	.2 [Compiled	d: Nov 12	2th 2015]		- 🗆 X
ខ	XAI	MPP Cont	rol Panel v3	.2.2			de Config
Modules - Service	Module	PID(s)	Port(s)	Actions			Netstat
	Apache	8572 3860	80, 443	Stop	Admin	Confi	. Del
	MySQL	9012	3306	Stop	Admin	Confi	Apache (httpd.conf)
	FileZilla			Start	Admin	Confi	Apache (httpd-ssi.com)
	Mercury			Start	Admin	Confi	PHP (php.ini)
	Tomcat			Start	Admin	Confi	phpMyAdmin (config.inc.php)
15:05:28 15:05:28 15:05:28 15:05:28	[main] [main] [main] [main]	Enabling Enabling Starting C Control P	autostart for mod autostart for mod Check-Timer anel Ready	lule "Apach lule "MySC	ne")L"		<browse> [Apache] <browse> [PHP] <browse> [phpMyAdmin]</browse></browse></browse>
15:05:28 15:05:28 15:05:28 15:05:28 15:05:29 15:05:29 15:05:29	[Apache] [Apache] [mysql] [mysql] [Apache] [mysql]	Autostart Attemptin Autostart Attemptin Status ch Status ch	active: starting g to start Apach active: starting g to start MySQ ange detected: r ange detected: r	e app L app unning unning			
							~

Apache – estratto httpd.conf

```
ServerName localhost:80
ServerRoot "C:/xampp/apache" (path relativo se su
                             una pen-drive)
DocumentRoot "C:/xampp/htdocs" (path relativo se su
                             una pen-drive)
Listen 80
LoadModule auth basic module modules/mod auth basic.so
LoadModule mime module modules/mod mime.so
LoadModule cgi module modules/mod cgi.so
```

Apache – estratto httpd.conf (cont.)

```
(n.b. path relativo se su pen drive)
<Directory "C:/xampp/cgi-bin">
    AllowOverride All
    Options None
    Require all granted
</Directory>
<IfModule mime module>
    AddType text/html .shtml
    AddOutputFilter INCLUDES .shtml
</IfModule>
# XAMPP settings
Include "conf/extra/httpd-xampp.conf"
```

PHP

modulo installato sul server

- caricato/utilizzato da application server
 - configurazione interna all'application server
- configurazione del modulo PHP
 - impostazioni specifiche (es. upload di file, sessioni, ...)
- integrato e preconfigurato in XAMPP
 - installato in C:\xampp\php\ (in MS Windows)
 - file configurazione Apache
 - C:\xampp\apache\conf\extra\httpd-xampp.conf (in MS Windows)
 - file configurazione modulo PHP
 - C:\xampp\php\php.ini (in MS Windows)

PHP – file di configurazione per Apache

😫 XAM	PP Contro	l Panel v3.2	.2 [Compiled	l: Nov 12	th 2015]		– 🗆 ×
ន	XAI	MPP Cont	rol Panel v3.	2.2			Config
Service	Module Apache MySQL	PID(s) 8572 3860 9012	Port(s) 80, 443 3306	Actions Stop Stop	Admin	Confia Confi	Loos Netstat Apache (httpd.conf)
	FileZilla Mercury			Start Start	Admin Admin	Confi Confi	Apache (httpd-ssl.conf) Apache (httpd-xampp.conf) PHP (php.m)
15:05:28 15:05:28 15:05:28 15:05:28 15:05:28	[main] [main] [main] [main]	Enabling Enabling Starting (Control P	autostart for mod autostart for mod Check-Timer anel Ready	ule "Apach ule "MySC	Admin ne" 2L"	Conti	<pre><browse> [Apache] <browse> [PHP] <browse> [phpMyAdmin]</browse></browse></browse></pre>
15:05:28 15:05:28 15:05:28 15:05:28 15:05:29 15:05:29	[Apache] [Apache] [mysql] [Mysql] [Apache] [mysql]	Autostart Attemptir Autostart Attemptir Status ch Status ch	active: starting g to start Apache active: starting g to start MySQL ange detected: ru ange detected: ru	app app unning unning			

PHP – estratto httpd-xampp.conf

n.b. path relativo se su pen drive

```
LoadFile "C:/xampp/php/php5ts.dll"
LoadModule php5_module "C:/xampp/php/php5apache2_4.dll"
```

```
<FilesMatch "\.php$"
SetHandler applicatio
</FilesMatch>
<FilesMatch "\.phps$">
SetHandler application/x-httpd-php-source
</FilesMatch>
```

PHP – estratto httpd-xampp.conf



PHP – estratto httpd-xampp.conf



PHP – file di configurazione per PHP

🔀 XAM	IPP Contro	ol Panel v3.2.2	[Compiled	l: Nov 12	th 2015]		- 🗆 ×
ES	XA	MPP Contro	l Panel v3.	2.2			Je Config
Service	Module	PID(s)	Port(s)	Actions			Netstat
	Apache	8572 3860	80, 443	Stop	Admin	Confia	Loas I Shell
	MySQL	9012	3306	Stop	Admin	Confi	Apache (httpd.conf)
	FileZilla			Start	Admin	Confi	Apache (httpd-ssl.conf) Apache (httpd-xampp.conf)
	Mercury			Start	Admin	Confi	PHP (php.ini)
	Tomcat			Start	Admin	Confi	phawyyAdmin (config.inc.php)
15:05:28 15:05:20 15: 15: 15: 15: 15: 15: 15: 15:05:20	[main] fil imp	e di co	onfigu oni sp	razio	one j fiche	oer PHF	<browse> [Apache] wse> [PHP] se> [phpMyAdmin]</browse>

Apache - verifica installazione

caricare il file "ciao.html" nella DocumentRoot di Apache

- C:\xampp\htdocs (in MS Windows)
- aprire il browser alla URL:

http://localhost/ciao.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN"
   "http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
   <title>Saluti HTML</title>
</head>
<body>
  Ciao!
</body>
</html>
```

PHP - verifica installazione

caricare il file "ciao.php" nella DocumentRoot di Apache

- C:\xampp\htdocs" (in MS Windows)
- aprire il browser alla URL:

http://localhost/ciao.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN"
   "http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
   <title>Saluti PHP</title>
</head>
<body>
  <?php echo "Ciao da PHP!" ?>
</body>
</html>
```

- installare su memoria esterna, semplice ma ...
- su host diversi, possibili unita logiche diverse (E:\xampp, G:\xampp)
 - il pannello di controllo parte comunque ...
 - ma i file di configurazione possono contenere percorsi errati

	ontrol Panel	/3.2.1 [Compiled	: May 7th 2013]					
ខ	XA	MPP Contr	ol Panel v3	.2.1				🕜 Config
Modules Service	Module	PID(s)	Port(s)	Actions				Netstat
×	Apache			Start	Admin	Config	Logs	Shell
×	MySQL			Start	Admin	Config	Logs	Explorer
	FileZilla			Start	Admin	Config	Logs	Services
	Mercury			Start	Admin	Config	Logs	I Help
	Tomcat			Start	Admin	Config	Logs	Quit
9:30:12 AM 9:30:12 AM 9:30:22 AM 9:30:22 AM	A [main] A [Apache] A [Apache]	Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moo The FileZilla m The Mercury in The Tomcat m Starting Check Control Panel Attempting to Status change	Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found du es odule is disabled odule is disabled codule is disabled calle is disabled calle is disabled codule is disabled codule is disabled codule is disabled	Compiled: N Its - good! 'e:\xampp\" I d	lay 7th 2013	1		

ສ	XA	MPP Contr	ol Panel v3	.2.1				🕜 Con	fig	
Modules Service	Module	PID(s)	Port(s)	Actions				Nets	tat	
×	Apache			Start	Admin	Config	Logs	She	ell	
×	MySQL			Start	Admin	Config	Logs	Explo	orer	
	FileZilla			Start	Admin	Config	Logs	Servi	ces	
	Mercury			Start	Admin	Config	Logs		Ip	
	Tomcat			Start	Admin	Config	Logs		$\overline{}$	
30:12 AN 30:12 AN 30:12 AN 30:12 AN 30:12 AN	1 [main] 1 [main] 1 [main] 1 [main] 1 [main]	Control Panel Running with A XAMPP Install Checking for p	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites	Compiled: N its - good! 'e:\xampp\"	1ay 7 <mark>th</mark> 2013]		per i	nve	stigare
30 12 AM 30 12 AM 30 12 AM 30 12 AM 30 12 AM 30 12 AM	[[main] [[main] [[main] [[main] [[main] [[main]	XAMPP Version Control Panel Running with A XAMPP Install Checking for p All prerequisite	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found	Compiled: M its - good! 'e:\xampp\''	1ay 7th 2013]		per i I	nve 'err	stigare ore
30:12 AM 30:12 AM 30:12 AM 30:12 AM 30:12 AM 30:12 AM 30:12 AM 30:12 AM	1 [main] 1 [main] 1 [main] 1 [main] 1 [main] 1 [main] 1 [main]	XAMPP Version Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moon The FileZilla m	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled	Compiled: N its - good! 'e:\xampp\''	1ay 7th 2013]		per i I	nve 'err	stigare ore
30 12 AM 30 12 AM	1 [main] 1 [main] 1 [main] 1 [main] 1 [main] 1 [main] 1 [main] 1 [main] 1 [main]	XAMPP Version Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moon The FileZilla m The Mercury m The Tomcat m	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled nodule is disabled	Compiled: N its - good! 'e:\xampp\'' l d l	1ay 7th 2013]		per i I	nve 'err	stigare ore
30: 12 AM 30: 12 AM	1 [main] 1 [main]	XAMPP Version Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moon The FileZilla m The Mercury m The Mercury m The Tomcat m Starting Check Control Panel	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites as found dues nodule is disabled nodule is disabled odule is disabled c-Timer Ready	Compiled: M its - good! 'e:\xampp\" d d	1ay 7th 2013]		per i I	nve 'err	stigare ore
30: 12 AM 30: 12 AM	1 [main] 1 [Apache]	XAMPP Version Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moon The FileZilla m The Mercury in The Mercury in The Tomcat m Starting Check Control Panel Attempting to	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled odule is disabled codule is disabled c-Timer Ready start Apache app	Compiled: N its - good! 'e:\xampp\'' d d J	1ay 7th 2013]		per i	nve 'err	stigare ore
30 12 AM 30 22 AM	 [main] [Apache] [Apache] 	XAMPP Versic Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moo The FileZilla m The Mercury m The Mercury m The Tomcat m Starting Check Control Panel Attempting to Status change	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled odule is disabled odule is disabled c-Timer Ready start Apache app detected: runnin	Compiled: M Its - good! 'e:\xampp\" d d I 0	1ay 7th 2013]		per i	nve 'err	stigare ore
30 12 AM 30 22 AM 30 22 AM	[[main] [[Apache] [[Apache] [[Apache]	XAMPP Versic Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moo The FileZilla m The Mercury m The Tomcat m Starting Check Control Panel Attempting to Status change Status change	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found du es nodule is disabled nodule is disabled odule is disabled c-Timer Ready start Apache app e detected: runnin detected: stopp	Compiled: N Its - good! 'e:\xampp\'' I d I d I J g ed	1ay 7th 2013]		per i	nve 'err	stigare ore
30: 12 AM 30: 22 AM 30: 23 AM 30: 23 AM	[main] [main] [main] [main] [main] [main] [main] [main] [main] [main] [Apache] [Apache] [Apache]	XAMPP Versic Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moo The FileZilla m The Mercury in The Mercury in The Tomcat m Starting Check Control Panel Attempting to Status change Status change	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found du es nodule is disabled odule is disabled c-Timer Ready start Apache app detected: runnin detected: stopp shutdown unexp	Compiled: N Its - good! 'e:\xampp\" d d d l o og ed ectedly.	lay 7th 2013]		per i	nve 'err	stigare ore
30: 12 AM 30: 22 AM 30: 23 AM 30: 23 AM	 [main] [Apache] [Apache] [Apache] [Apache] [Apache] [Apache] [Apache] [Apache] 	XAMPP Version Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moon The FileZilla m The Mercury in The Mercury in The Tomcat m Starting Check Control Panel Attempting to Status change Status change Error: Apache This may be d	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled odule is disabled odule is disabled codule is disabled codule is disabled called is disabled called is disabled called is disabled codule is disabled	Compiled: N its - good! 'e:\xampp\" d d d ectedly. port, missing	lay 7th 2013 dependenci] es,		per i	nve 'err	stigare ore
30 12 AM 30 22 AM 30 23 AM 30 23 AM 30 23 AM	[main] [main]	XAMPP Versic Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moo The FileZilla m The Mercury in The Mercury in The Tomcat m Starting Check Control Panel Attempting to Status change Status change Error: Apache This may be d improper privile	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled odule is disabled odule is disabled c-Timer Ready start Apache app detected: runnin detected: stopp shutdown unexp ue to a blocked p eges, a crash, or s button to view of	Compiled: N its - good! 'e:\xampp\" d d d ectedly. port, missing a shutdown	lay 7th 2013 dependencie by another n] es. nethod.		per i	nve 'err	stigare ore
30 12 AM 30 22 AM 30 23 AM 30 23 AM 30 23 AM 30 23 AM	[main] [main]	XAMPP Versic Control Panel Running with A XAMPP Install Checking for p All prerequisite Initializing Moo The FileZilla m The Mercury m The Mercury m The Tomcat m Starting Check Control Panel Attempting to Status change Status change Error: Apache This may be d improper privile Press the Log the Windows F	on: 5.6.8 Version: 3.2.1 [Administrator righ ation Directory: " rerequisites es found dues nodule is disabled odule is disabled odule is disabled c-Timer Ready start Apache app detected: runnin detected: stopp shutdown unexp ue to a blocked p eges, a crash, or s button to view e	Compiled: N its - good! 'e:\xampp\" d d d ed ectedly. port, missing a shutdown error logs an more clues	1ay 7th 2013 dependencie by another n d check] es, nethod.		per i	nve 'err	stigare ore

Logs -> Apache (error.log)

[Mon May 04 07:08:03.729200 2015] [ssl:warn] [pid 18020:tid 244] AH01909: www.example.com:443:0 server certificate does NOT include an ID which matches the server name

[Mon May 04 07:08:04.246200 2015] [mpm_winnt:notice] [pid 18020:tid 244] AH00455: Apache/2.4.12 (Win32) OpenSSL/1.0.1I PHP/5.6.8 configured -- resuming normal operations

[Mon May 04 07:08:04.246200 2015] [mpm_winnt:notice] [pid 18020:tid 244] AH00456: Apache Lounge VC11 Server built: Jan 28 2015 16:48:40

[Mon May 04 07:08:04.246200 2015] [core:notice] [pid 18020:tid 244] AH00094: Command line: 'g:\\xampp\\apache\\bin\\httpd.exe -d G:/xampp/apache'

[Mon May 04 07:08:04.280200 2015] [mpm_winnt:notice]

[pid 18020:tid 244] AH00418: Parent: Created child process 19664

XAMPP portabile – soluzioni

cambiare tutti i percorsi nei file di configurazione

- molti, soprattutto per Apache -> possibili errori!!!
- possibile usare percorsi relativi (tranne che per serverRoot e documentRoot)

cambiare lettera associata all'unità esterna:

- Open Computer Management by clicking the Start button clicking Control Panel, clicking System and Security, clicking Administrative Tools, and then double-clicking Computer Management
 - if you're prompted for an administrator password or confirmation, type the password or provide confirmation.
- 2. In the left pane, click **Disk Management**
- 3. Right-click the drive that you want to change, and then click **Change Drive Letter and Paths.**

http://windows.microsoft.com/en-us/windows/change-add-remove-driveletter#1TC=windows-7

Possibili conflitti

- a volte l'avvio di Apache (o di un altro servizio, es. MySQL) fallisce
- oltre ad errori nei file di configurazione, il fallimento può essere dovuto a porte già occupate
 - (WIN) le porte occupate in ascolto si possono vedere con NetStat

caso tipico è Skype

- Skype cerca sempre di occupare la porta 80/tcp se disponibile (creando così un conflitto con Apache che vorrebbe usare la stessa porta)
- in questo caso terminare Skype e riprovare l'avvio di Apache
- dopo che Apache è partito regolarmente, si può riavviare Skype (che sceglierà una porta diversa dalla 80/tcp per comunicare con i peer)