Project: 2017-1-ES01-KA202-038471



Co-funded by the Erasmus+ Programme of the European Union

"Owncloud on a dedicated server"



Índice

Descargo de responsabilidad (disclaimer)	3
Objective and tasksheet	4
Result (Example)	6





Ramón del Valle Inclán

Descargo de responsabilidad (disclaimer)

"El apoyo de la Comisión Europea para la elaboración de esta publicación no implica la aceptación de sus contenidos, que es responsabilidad exclusiva de los autores. Por tanto, la Comisión no es responsable del uso que pueda hacerse de la información aquí difundida."

"The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein."





Objective and tasksheet

The objective is to build up a dedicated server containing a software suite for collaboration in a work group.

1. Get information about "owncloud"

Search the internet for minimum requirements for setting up "owncloud".

https://owncloud.org/

https://de.wikipedia.org/wiki/OwnCloud

https://en.wikipedia.org/wiki/OwnCloud

2. Get information about Raspberry pi

Search the internet for latest issue of Raspberry Pi 3:

https://www.raspberrypi.org/

https://de.wikipedia.org/wiki/Raspberry Pi

https://en.wikipedia.org/wiki/Raspberry Pi

3. Search the internet for information about Debian Etch:

https://www.debian.org/

https://de.wikipedia.org/wiki/Debian

https://en.wikipedia.org/wiki/Debian

- 4. Build up the Raspberry Pi with owncloud:
- Copy Debian Stretch Image from debian.org to micro sd card
- Connect Raspberry to LAN (IP: 172.20.42.xx)
- Enable ssh and xrdp
- Download owncloud installer package
- Install owncloud referring to this installation guide: <u>https://doc.owncloud.org/server/latest/admin_manual/installation/source_installation.</u> <u>html</u>
- Download and install calendar app: https://github.com/owncloud/calendar
- 5. Test owncloud in LAN





- Visit hopto.org, get a DynDNS address: http://freeddns.noip.com/?d=hopto.org&u=aG9wdG8ub3JnLw==
- 7. After everything is done, ask your teacher for inconfiguering a route to your machine.





IES Ramón del Valle Inclán

STREET, SALELY

Result (Example)

After setting up the machine, you can connect to the server. At first it shall run in LAN. We gave it the IP Adress 172.20.42.77. The initial debian website looks as follows:

Apache2 Debian Default Page
debian
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz . Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Debian systems is as follows:
<pre>/eto/apache2/ apache2.conf ` ports.conf mods-enabled *.load ` *.conf conf-enabled ` *.conf sites-enabled ` *.conf</pre>
 apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
 ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
 Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
 They are activated by symlinking available configuration files from their respective *-available/ counterparts. These should be managed by using our helpers a2enmod, a2dismod, a2ensite, a2dissite, and a2enconf, a2disconf. See their respective man pages for detailed information.
To access owncloud, the ip-address has to be completed with owncloud:
nttp://1/2.20.42.///owncioud; after sending the page to the server, the index.php
automatically routes to <u>http://172.20.42.77/owncloud/index.pnp/login</u> :









Login data: ccep / Erasmus+

This leads to:

Files -	
All files	♣ > +
★ Favorites	🗌 Name 🔺
Shared with you	Documents
Shared with others	Photos
Shared by link	ownCloud Manual.pdf
Q Tags	2 folders and 1 file

After installing the calendar app you have access via "Files":







Files -			
H Allfies 4		+ < 4	
Files Activity	Gallery		Name 🔺
red with you			Documents
Calendar			Photos

The link "New Calendar" lets you define a calendar. As we want to use it for our next meeting in Germany, we create a new calendar "Erasmus+ Cloud Computing":

(Ô).	, Calendar → CCEP →									
<	Week 12 of 2018 >		W12	Sun 3/18	Mon 3/19	Tue 3/20	Wed 3/21	Thu 3/22	Fri 3/23	Sat 3/24
Dav	Day Wook Month		all-day							
Duy	Week	Month	6am							
	Today		7							
			/am							
+ Ne	w Calendar		8am							
🔵 Era	smus+ Clou	000	9am							
			10am							
+ Ne	w Subscription		11am							

Now it's time to define a route in order to connect to the server from the internet. We choose the web address <u>https://my.noip.com/</u> because this is a costless service. Ponly little disadvantage: you have to renew the account every 30 days, if you don't want to pay for the pro version. This leads to the homepage of No IP:







a	Dashboard					
6	Dynamic DNS Free	> @	Dashboard			
٥	My Services	>				
	Account	`				
\$	Support Center	>	1 Active		2 hostname updates	0
	Upgrade to Enhanced		hostname		in the past 30 days	
		(Quick Add			
			Hostname 🛛		Domain 🛛	
			myhost		ddns.net	~

We choose ccies as host name and hopto.org as domain:

Hostname 🛛	Domain 🛛				
ccies	hopto.org	~			
A OMORE Records					
Need help setting up your device?	A	dd Hostname			

As our router has already a forwarding route, we must choose another port than 80. We choose port 81 instead, so the complete route to our owncloud-server is <u>http://ccies.hopto.org:81</u>

Now everyone who's in posession of this address and the access data con read and insert data into the calendar.





IES Ramón del Valle Inclán

THE REAL PROPERTY OF

Use as group calendar for Erasmus+ project

Because using a group calendar for our Erasmus+ project via Google was not possible. So we prepared the owncloud server to serve as a calendar server for our meeting in Germany. Every member of this project has direct access to the group calendar:

(Ô)	🖌 Calendar 🗸	t:									
<	Week 11 of 20	18 >	W11	Sun 3/11	Mon 3/12	Tue 3/13	Wed 3/14	Thu 3/15	Fri 3/16		
Day	Week	Month	all-day								
	Today		9am			9:00am - 12:00pm Bicycle tour through					
Todaj			10am		10:00am - 12:00pm Sightseeing of school	grassland of OHZ	10:00am - 12:35pm	10:00am - 12:00pm Work in Europe			
+ N	ew Calendar		11am		Signiseeing of school		11-15-m 12-46	Work in Europe			
• Er	asmus+ Clou	***					Teachers:				
			12pm	12:00pm - 4:00pm Bremen City Rallye	12:00pm - Meal	12:00pm - Meal	Moodle				
			1pm		1:00pm - 3:30pn 1:00pm - 2:30pr Discussing of Visiting	1:00pm - 2 1:00pm - Students: Ir Teacher 1:20pm - 5 1:20pm - 5	1:00pm - 2:00pm Meal	1:00pm - 6:00pm Visit "Klimahaus			
+ New	ew Subscription		2pm next days Class	next days Classes /	Student: Student: Student 2:30pm - Elevrope Rallye discussio	2:00pm - 5:00pr 2:00pm - 5:00pr Planning Arri Visiting	Bremerhaven"				
						Meal Worpswede / Weyer					
			4pm				berg				
					5pm				L		
			6pm	6:00pm - 8:30pm Exploring Bremen		6:00pm - 9:30pm Bowling/Minigolf/Flipper			•		
			7pm								
		8pm				8: A	8:00pm - 10:00pm Arrividerci-Meal	1 			
			9pm								
A 5.	ttings ⁰ import		10pm								
after Die	congs & import										

Even on a smartphone the view was quite content.

