Las Palmas – Apache, Tomcat y OpenCms para acceder a través del puerto 80

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# Introducción

Para configurar el acceso a opencms a través de su dominio por el puerto 80 es necesario configurar la comunicación entre Apache, Tomcat y OpenCms como explicamos a continuación.

# Tomcat

1. Editamos el fichero **context.xml**

sudo nano $tomcat/conf/context.xml

1. Agregamos la propiedad **sessionCookiePath**

<Context sessionCookiePath="/">

# Apache

1. Editamos el fichero de configuración de apache **httpd.conf**

sudo nano $httpd/conf/httpd.conf

1. Añadiendo la variable ServerName con el dominio o la IP

…

ServerName dev.cta[[1]](#footnote-1)

## Módulos

Para que funcione correctamente es necesario tener instalados los siguientes módulos: **mod\_jk, mod\_proxy, mod\_proxy\_http, mod\_rewrite y mod\_deflate.**

## Virtual Host

Es necesario configurar un virtual host para cada site y subdominio.

1. Creamos VH:

<VirtualHost \*:80>

DocumentRoot "/opt/apache-tomcat-7.0.72/webapps/opencms/"

ServerName dev.cta[[2]](#footnote-2)

ServerAdmin webmaster@cta.com[[3]](#footnote-3)

# Allow accessing the document root directory

<Directory /opt/apache-tomcat-7.0.72/webapps/opencms/resources>

Options FollowSymlinks

AllowOverride All

Order allow,deny

Allow from all

Require all granted

</Directory>

<Directory /opt/apache-tomcat-7.0.72/webapps/opencms/export>

Options FollowSymlinks

AllowOverride All

Order allow,deny

Allow from all

Require all granted

</Directory>

# Logging

LogFormat "%h %l %u %t \"%r\" %>s %b" common

CustomLog /var/log/httpd/access\_mv80.cta.log[[4]](#footnote-4) common

ErrorLog /var/log/httpd/error\_mv80.cta.log[[5]](#footnote-5)

LogLevel alert rewrite:trace1

# Do not forward the request if the requested URI is located in the resources folder or is static content

SetEnvIfNoCase Request\_URI ^/opencms/resources/.\*$ no-jk

SetEnvIfNoCase Request\_URI ^/export/.\*$ no-jk

# Turn rewriting on and define the rules

RewriteEngine On

# Deny access to php files in order to prevent reading resources

RewriteCond %{REQUEST\_FILENAME} (.+)\.php(.\*)

RewriteRule (.\*) / [F]

# If the requested URI is NOT located in the resources folder and is not static:

# Prepend an /opencms/opencms to everything that does not already starts with it

# and force the result to be handled by the next URI-handler ([PT]) (JkMount in this case)

RewriteCond %{REQUEST\_URI} !^/opencms/resources/.\*$

RewriteCond %{REQUEST\_URI} !^/export/.\*

RewriteRule !^/opencms/opencms/(.\*)$ /opencms/opencms%{REQUEST\_URI} [PT]

# These are the settings for static export. If the requested resource is not already

# statically exported create a new request to the opencms404 handler. This has to be

# a new request, because the current would not get through mod\_jk because of the "no-jk".

RewriteCond %{REQUEST\_URI} ^/export/.\*$

RewriteCond "%{DOCUMENT\_ROOT}%{REQUEST\_FILENAME}" !-f

RewriteCond "%{DOCUMENT\_ROOT}%{REQUEST\_FILENAME}/index\_export.html" !-f

RewriteRule .\* http://localhost:8080/opencms/opencms/handle404?exporturi=%{REQUEST\_URI}&%{QUERY\_STRING} [P]

# If the request starts with /opencms/resources, substitute the /opencms10 prefix

RewriteCond %{REQUEST\_URI} ^/opencms/resources/.\*$

RewriteRule ^/opencms/(.\*)$ /$1

JkMount /\* ocms

</VirtualHost>

# OpenCms

1. Editar el fichero $TOMCAT\webapps\opencms\WEB-INF\config\**opencms-system.xml configurando el site default** dev.cta

<sites>

<workplace-server>http://dev.cta[[6]](#footnote-6)</workplace-server>

<default-uri>/sites/default/</default-uri>

<shared-folder>/shared/</shared-folder>

<site server="http://dev.cta.es[[7]](#footnote-7)" uri="/sites/cta/" tit le="CTA" position="1.7014117E38" webserver="true"/>

…

</sites>

1. Editar el fichero $TOMCAT$\webapps\opencms\WEB-INF\config\**opencms-importexport.xml** y modificar la exportación a disco y el prefijo de la URL:

<rendersettings>

<rfs-prefix>export</rfs-prefix>

<vfs-prefix></vfs-prefix>

</rendersettings>

## Configurar plantillas (Opcional)

Para que al crear un Nuevo site opencms nos genere el virtual host podemos:

1. Modificar el fichero /opt/apache-tomcat-7.0.72/webapps/opencms/WEB-INF/server-scripts/vhost.template:

<VirtualHost \*:80>

DocumentRoot "$DOCUMENT\_ROOT$"

ServerName $SERVER\_NAME\_WITH\_PORT$

$ALIAS\_DIRECTIVE$ $SERVER\_ALIASES$

ServerAdmin webmaster@$SERVER\_NAME\_WITH\_PORT$

# Allow accessing the document root directory

<Directory $DOCUMENT\_ROOT$/resources>

Options FollowSymlinks

AllowOverride All

Order allow,deny

Allow from all

Require all granted

</Directory>

<Directory $DOCUMENT\_ROOT$/export>

Options FollowSymlinks

AllowOverride All

Order allow,deny

Allow from all

Require all granted

</Directory>

# Logging

LogFormat "%h %l %u %t \"%r\" %>s %b" common

CustomLog $LOGGING\_DIRECTORY$access\_$CONFIG\_FILENAME$.log common

ErrorLog $LOGGING\_DIRECTORY$error\_$CONFIG\_FILENAME$.log

LogLevel alert rewrite:trace1

# Do not forward the request if the requested URI is located in the resources folder or is static content

SetEnvIfNoCase Request\_URI ^$CONTEXT\_PATH$/resources/.\*\$ no-jk

SetEnvIfNoCase Request\_URI ^/export/.\*\$ no-jk

# Turn rewriting on and define the rules

RewriteEngine On

# Deny access to php files in order to prevent reading resources

RewriteCond %{REQUEST\_FILENAME} (.+)\.php(.\*)

RewriteRule (.\*) / [F]

# If the requested URI is NOT located in the resources folder and is not static:

# Prepend an $CONTEXT\_PATH$$SERVLET\_PATH$ to everything that does not already starts with it

# and force the result to be handled by the next URI-handler ([PT]) (JkMount in this case)

RewriteCond %{REQUEST\_URI} !^$CONTEXT\_PATH$/resources/.\*\$

RewriteCond %{REQUEST\_URI} !^/export/.\*

RewriteRule !^$CONTEXT\_PATH$$SERVLET\_PATH$/(.\*)\$ $CONTEXT\_PATH$$SERVLET\_PATH$%{REQUEST\_URI} [PT]

# These are the settings for static export. If the requested resource is not already

# statically exported create a new request to the opencms404 handler. This has to be

# a new request, because the current would not get through mod\_jk because of the "no-jk".

RewriteCond %{REQUEST\_URI} ^/export/.\*\$

RewriteCond "%{DOCUMENT\_ROOT}%{REQUEST\_FILENAME}" !-f

RewriteCond "%{DOCUMENT\_ROOT}%{REQUEST\_FILENAME}/index\_export.html" !-f

RewriteRule .\* http://localhost:8080$CONTEXT\_PATH$$SERVLET\_PATH$/handle404?exporturi=%{REQUEST\_URI}&%{QUERY\_STRING} [P]

# If the request starts with $CONTEXT\_PATH$/resources, substitute the $CONTEXT\_PATH$ prefix

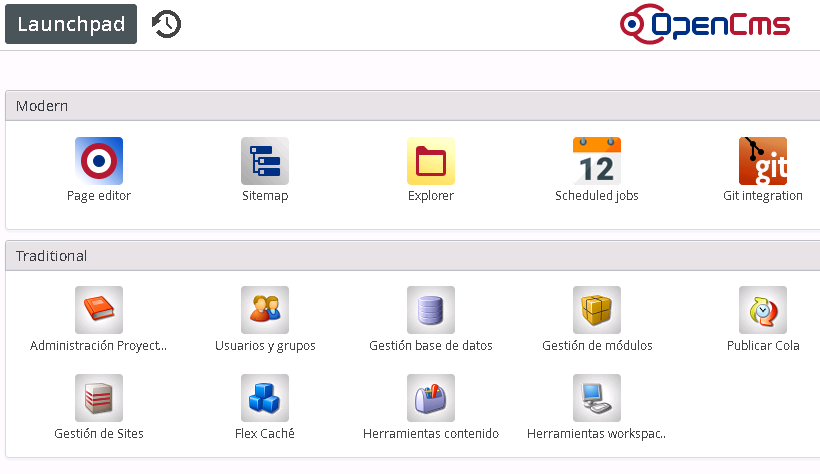
RewriteCond %{REQUEST\_URI} ^$CONTEXT\_PATH$/resources/.\*\$

RewriteRule ^$CONTEXT\_PATH$/(.\*)\$ /\$1

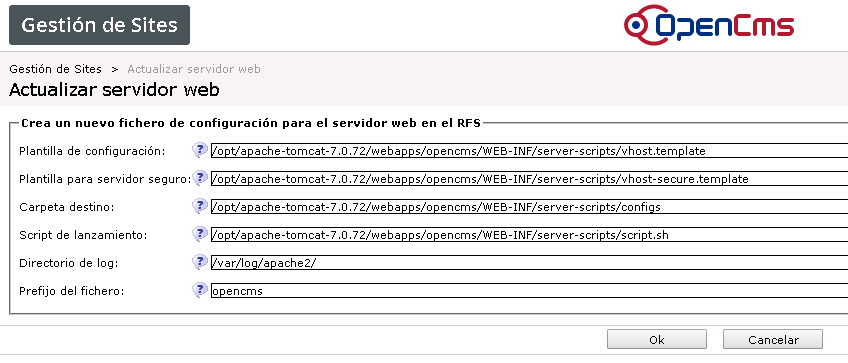
JkMount /\* ocms

</VirtualHost>

1. Cuando creamos un Nuevo site podemos generar el virtual host según la plantilla en **Gestión de Sites/Actualizar servidor web/**







OpenCms genera en **/opt/apache-tomcat-7.0.72/webapps/opencms/WEB-INF/server-scripts/configs** los virtual host para cada site.

### Configurar Apache para que lea los VH generados:

1. Aseguramos los permisos de ejecución para el fichero **/opt/apache-tomcat-7.0.72/webapps/opencms/WEB-INF/server-scripts/**

sudo chmod 777 script.sh

1. En Apache añadimos un link a la carpeta de generación de virtual host de OpenCms:

cd /etc/httpd/conf.d/ sudo ln -s /opt/tomcat/webapps/opencms10/WEB-INF/server-scripts/configs/

1. Editamos el fichero **httpd.conf**

sudo nano /etc/httpd/conf/httpd.conf

Añadiendo la línea:

# Include the opencms virtual host:

IncludeOptional /etc/httpd/conf.d/configs/opencms\*

# Permisos

Es necesario que Apache tenga permiso de lectura sobre los ficheros contenidos en **webapps/opencms/**

1. Sustituir por el dominio de las palmas [↑](#footnote-ref-1)
2. Sustituir por el dominio de las palmas [↑](#footnote-ref-2)
3. Sustituir por el correo de administrador [↑](#footnote-ref-3)
4. Sustituir con el nombre del dominio access\_dominio.log [↑](#footnote-ref-4)
5. Sustituir con el nombre del dominio error\_dominio.log [↑](#footnote-ref-5)
6. Sustituir por el dominio [↑](#footnote-ref-6)
7. El atributo server debe ser el subdominio del site [↑](#footnote-ref-7)