

Despliegue de la máquina de pre-producción

1. Objetivo del documento:

Este documento tiene como objetivo explicar como se ha realizado la configuración y el despliegue de un proyecto en la máquina de pre-producción.

2. Configuración del entorno:

Para realizar la configuración del documento se han realizado los siguientes pasos:

- **Paso 1:** Primero configuramos nuestro sistema operativo para que cuando ejecutamos en el navegador el enlace "www.acme.com" se traduce localmente a "localhost".
- **Paso 2:** Abrimos el command prompt de windows, localizamos el fichero "hosts" usando los siguientes comandos:

```
> cd %windir%\system32\drivers\etc
```

```
> notepad hosts
```

Una vez abierto el fichero hosts, añadimos esta linea al final del fichero:

```
127.0.0.1 www.acme.com
```

- **Paso 3:** refrescamos la cache del DNS para que el sistema operativo vuelve a cargar fichero "hosts", con el siguiente comando:

```
> ipconfig /flushdns
```

- **Paso 4:** hacemos un ping al nuevo dominio con el comando:

```
> ping www.acme.com
```

Debemos obtener una respuesta desde 127.0.0.1, lo que indica que las solicitudes de “www.acme.com” están redirigidos a nuestro ordenador.

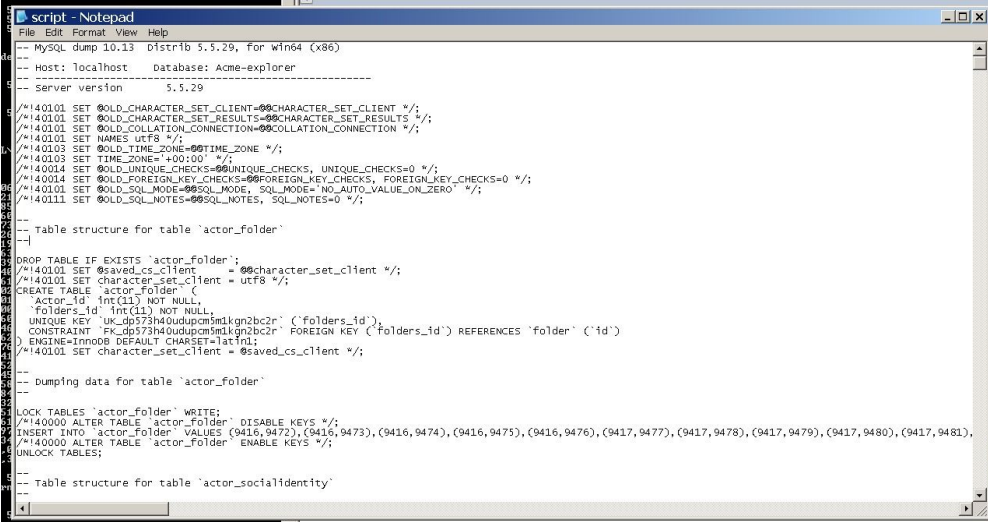
2.1. Despliegue de la base de datos

Para realizar el despliegue de la base de datos realizaremos los siguientes pasos:

- **Paso 1:** generamos un script de nuestra base de datos para poder recrearla en otra configuración. Para ello, en la interfaz de comandos ejecutamos los siguientes comandos:

```
> cd "c:\Program Files\MySQL\MySQL Server 5.5\bin"
> mysqldump -u root -pV3rY=$tR0nG=P@$w0rd$ acme-explorer
> script.sql
```

Si todo se ha realizado correctamente, se nos generará un script parecido al que aparece a continuación:



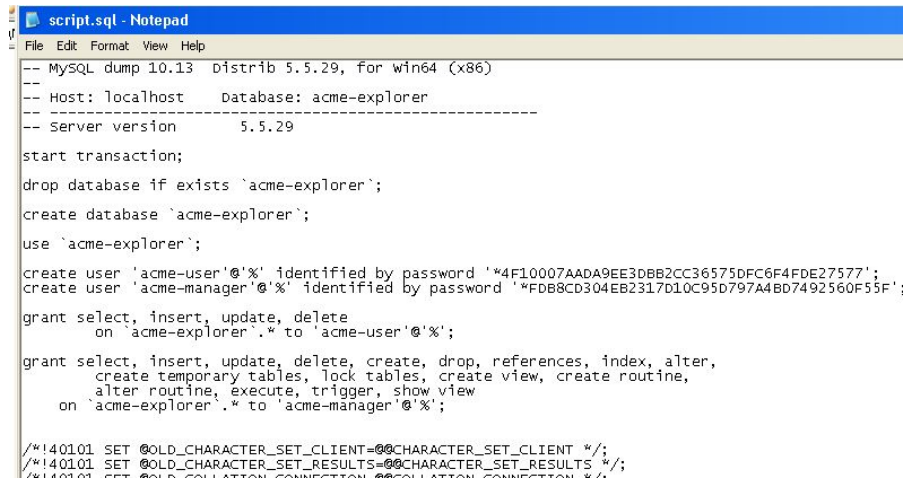
```
script - Notepad
File Edit Format View Help
-- MySQL dump 10.13 Distrib 5.5.29, for win64 (x86)
--
-- Host: localhost    Database: acme-explorer
--
-- Server version:    5.5.29
--
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `actor_folder`
--
DROP TABLE IF EXISTS `actor_folder`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `actor_folder` (
  `actor_id` int(11) NOT NULL,
  `folders_id` int(11) NOT NULL,
  UNIQUE KEY `UK_dp573h40udupcm5m1gn2bc2r` (`folders_id`),
  CONSTRAINT `FK_dp573h40udupcm5m1gn2bc2r` FOREIGN KEY (`folders_id`) REFERENCES `folder` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `actor_folder`
--
LOCK TABLES `actor_folder` WRITE;
/*!40000 ALTER TABLE `actor_folder` DISABLE KEYS */;
INSERT INTO `actor_folder` VALUES (9416,9472),(9416,9473),(9416,9474),(9416,9475),(9416,9476),(9417,9477),(9417,9478),(9417,9479),(9417,9480),(9417,9481),
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(9418,9946),(9418,9947),(9418,9948),(9418,9949),(9418,9950),(9418,9951),(9418,9952),(9418,9953),(9418,9954),(9418,9955),
(9418,9956),(9418,9957),(9418,9958),(9418,9959),(9418,9960),(9418,9961),(9418,9962),(9418,9963),(9418,9964),(9418,9965),
(9418,9966),(9418,9967),(9418,9968),(9418,9969),(9418,9970),(9418,9971),(9418,9972),(9418,9973),(9418,9974),(9418,9975),
(9418,9976),(9418,9977),(9418,9978),(9418,9979),(9418,9980),(9418,9981),(9418,9982),(9418,9983),(9418,9984),(9418,9985),
(9418,9986),(9418,9987),(9418,9988),(94
```

- **Paso 2:** añadimos las sentencias para crear usuarios y dar privilegios. Al inicio del script incluimos las siguientes instrucciones:

```
> start transaction; (Al inicio del script)
> (Añadimos los usuarios y sus privilegios)
> commit; (Al final del script)
```



```
script.sql - Notepad
File Edit Format View Help
-- MySQL dump 10.13  Distrib 5.5.29, for win64 (x86)
--
-- Host: localhost    Database: acme-explorer
-- Server version:    5.5.29
--
start transaction;
drop database if exists `acme-explorer`;
create database `acme-explorer`;
use `acme-explorer`;
create user 'acme-user'@'%' identified by password '*4F10007AADA9EE3D8B2CC36575DFC6F4FDE27577';
create user 'acme-manager'@'%' identified by password '*FDB8CD304EB2317D10C95D797A4BD7492560F55F';
grant select, insert, update, delete
on `acme-explorer`.* to 'acme-user'@'%';
grant select, insert, update, delete, create, drop, references, index, alter,
create temporary tables, lock tables, create view, create routine,
alter routine, execute, trigger, show view
on `acme-explorer`.* to 'acme-manager'@'%';

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
```

- **Paso 3:** retiramos toda la información irrelevante del script. Esto es todas las sentencias de tipo INSERT ya que no tenemos que almacenar todos los datos en la configuración de pre-producción o la de producción, sólo incluiremos aquellos datos necesarios para el correcto funcionamiento del proyecto.
- **Paso 4:** debido a que cometemos errores y tendremos que desplegar la base de datos muchas veces, crearemos un script para borrar la base de datos del servidor. En la siguiente figura tenemos nuestro script para borrar la base de datos. Acto seguido, comprobamos el correcto funcionamiento de la script.

2.2. Despliegue de la aplicación

Para realizar el despliegue de la aplicación, realizaremos los siguientes pasos:

- **Paso 1:** comenzamos abriendo la interfaz de comandos y ejecutamos el script para crear la base de datos y comprobamos que todo se ha realizado correctamente.
- **Paso 2:** exportamos el proyecto del fichero war que utilizaremos en la máquina de pre-producción.

- **Paso 3:** con el servidor de aplicaciones Apache Tomcat 7.0 ya arrancado (se realiza de forma automática) nos dirigimos al navegador y tecleamos la siguiente url:

<http://localhost/manager>

Usuario: admin

Contraseña: T0mC@t=Adm1n1\$trat0R

- **Paso 4:** se eliminan todas las aplicaciones desplegadas por Apache Tomcat 7.0 excepto /manager.
- **Paso 5:** se rellena convenientemente la sección Deploy para desplegar la aplicación en la raíz del servidor Tomcat Server 7.0. Los campos se rellenan de la siguiente manera:

Deploy	
Deploy directory or WAR file located on server	
Context Path (required):	/
XML Configuration file URL:	
WAR or Directory URL:	C:\Documents and Settings\Eoss\Desktop\Act
<input type="button" value="Deploy"/>	
WAR file to deploy	
Select WAR file to upload <input type="button" value="Choose File"/> No file chosen	
<input type="button" value="Deploy"/>	

Una vez realizado todo esto con éxito, veremos que nuestra aplicación se ha desplegado de forma correcta en la raíz de Apache Tomcat 7.0 y ya podremos acceder a la aplicación a través de la URL:

<http://www.acme.com>



Tomcat Web Application Manager

Message:							
OK - Deployed application at context path /							
Manager							
List Applications	HTML Manager Help						
Manager Help							
Server Status							
Applications							
Path	Version	Display Name	Running	Sessions	Commands		
/	None specified	Acme-Explorer	true	0	Start Stop Reload Undeploy Expire sessions with idle > 30 minutes		
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle > 30 minutes		
Deploy							
Deploy directory or WAR file located on server							
Context Path (required):							
XML Configuration file URL:							
WAR or Directory URL:							
<input type="button" value="Deploy"/>							
WAR file to deploy							
Select WAR file to upload <input type="button" value="Choose File"/> No file chosen							
<input type="button" value="Deploy"/>							
Diagnostics							
Check to see if a web application has caused a memory leak on stop, reload or undeploy							
<input type="button" value="Find leaks"/> This diagnostic check will trigger a full garbage collection. Use it with extreme caution on production systems.							
Server Information							
Tomcat Version	JVM Version	JVM Vendor	OS Name	OS Version	OS Architecture	Hostname	IP Address
Apache Tomcat/7.0.35	1.7.0_13-b20	Oracle Corporation	Windows XP	5.2	amd64	student-Schm7	10.0.2.15

- **Paso 6:** el resultado que debería aparecer es la aplicación desplegada.

