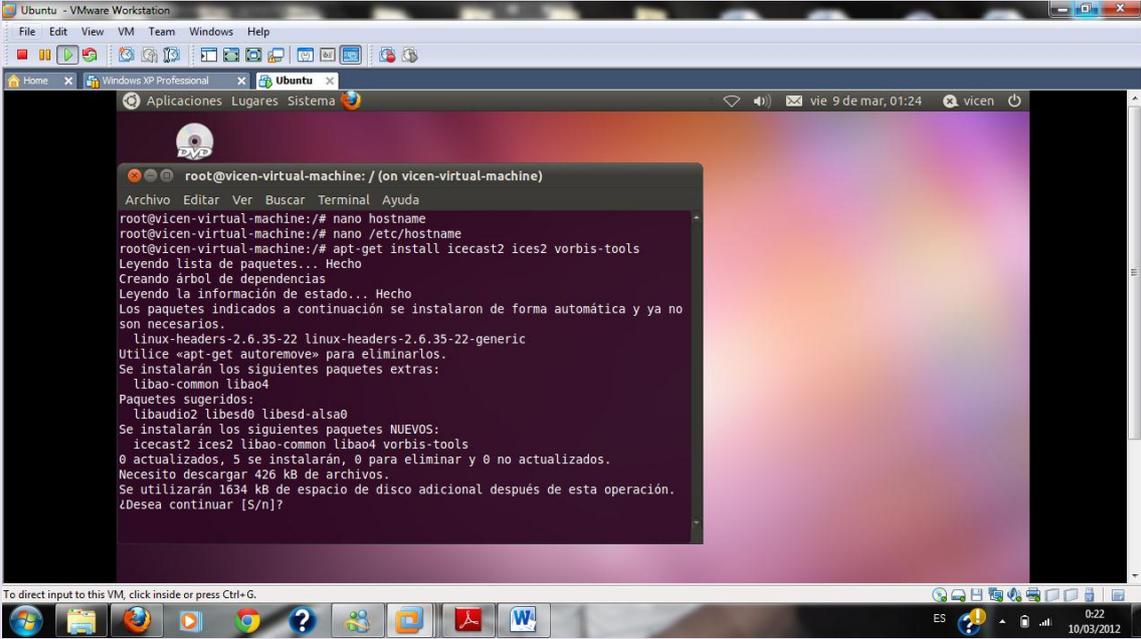


PRÁCTICA 6.- Instalación y configuración de un servidor de streaming con Icecast en Ubuntu.

Instalamos Icecast



```
root@vicen-virtual-machine: / (on vicen-virtual-machine)
Archivo Editar Ver Buscar Terminal Ayuda
root@vicen-virtual-machine:~# nano hostname
root@vicen-virtual-machine:~# nano /etc/hostname
root@vicen-virtual-machine:~# apt-get install icecast2 ices2 vorbis-tools
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Los paquetes indicados a continuación se instalaron de forma automática y ya no
son necesarios.
  linux-headers-2.6.35-22 linux-headers-2.6.35-22-generic
Utilice «apt-get autoremove» para eliminarlos.
Se instalarán los siguientes paquetes extras:
  libao-common libao4
Paquetes sugeridos:
  libaudio2 libesd0 libesd-alsa0
Se instalarán los siguientes paquetes NUEVOS:
  icecast2 ices2 libao-common libao4 vorbis-tools
0 actualizados, 5 se instalarán, 0 para eliminar y 0 no actualizados.
Necesito descargar 426 KB de archivos.
Se utilizarán 1634 KB de espacio de disco adicional después de esta operación.
¿Desea continuar [S/n]?
```

Configuramos icecast para ello los ficheros que debemos configurar son `/etc/icecast2/icecast.xml`

Cambiamos las contraseñas y ponemos `inves`

```

root@vicen-virtual-machine: / (on vicen-virtual-machine)
GNU nano 2.2.6 Archivo: /etc/icecast2/icecast.xml Modificado

<burst-on-connect>1</burst-on-connect>
<!-- same as burst-on-connect, but this allows for being more
specific on how much to burst. Most people won't need to
change from the default 64k. Applies to all mountpoints -->
<burst-size>65535</burst-size>
</limits>

<authentication>
<!-- Sources log in with username 'source' -->
<source-password>inves</source-password>
<!-- Relays log in username 'relay' -->
<relay-password>inves</relay-password>

<!-- Admin logs in with the username given below -->
<admin-user>admin</admin-user>
<admin-password>inves</admin-password>
</authentication>

```

Ponemos la dirección de nuestro servidor

```

root@vicen-virtual-machine: / (on vicen-virtual-machine)
GNU nano 2.2.6 Archivo: /etc/icecast2/icecast.xml Modificado

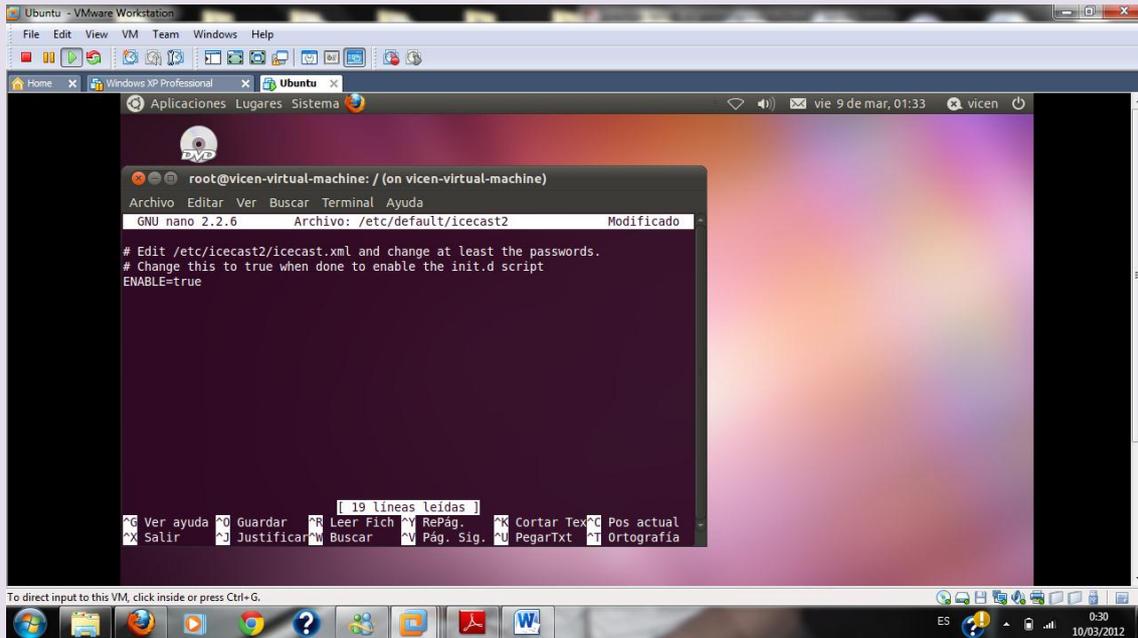
-->

<!-- This is the hostname other people will use to connect to your server.
It affects mainly the urls generated by Icecast for playlists and yp
listings. -->
<hostname>192.168.2.215</hostname>

<!-- You may have multiple <listener> elements -->
<listen-socket>
<port>8000</port>
<!-- <bind-address>127.0.0.1</bind-address> -->
<!-- <shoutcast-mount>/stream</shoutcast-mount> -->
</listen-socket>
<!--
<listen-socket>
<port>8001</port>
</listen-socket>

```

Para activar el servicio de icecast vamos a `/etc/default/icecast2`

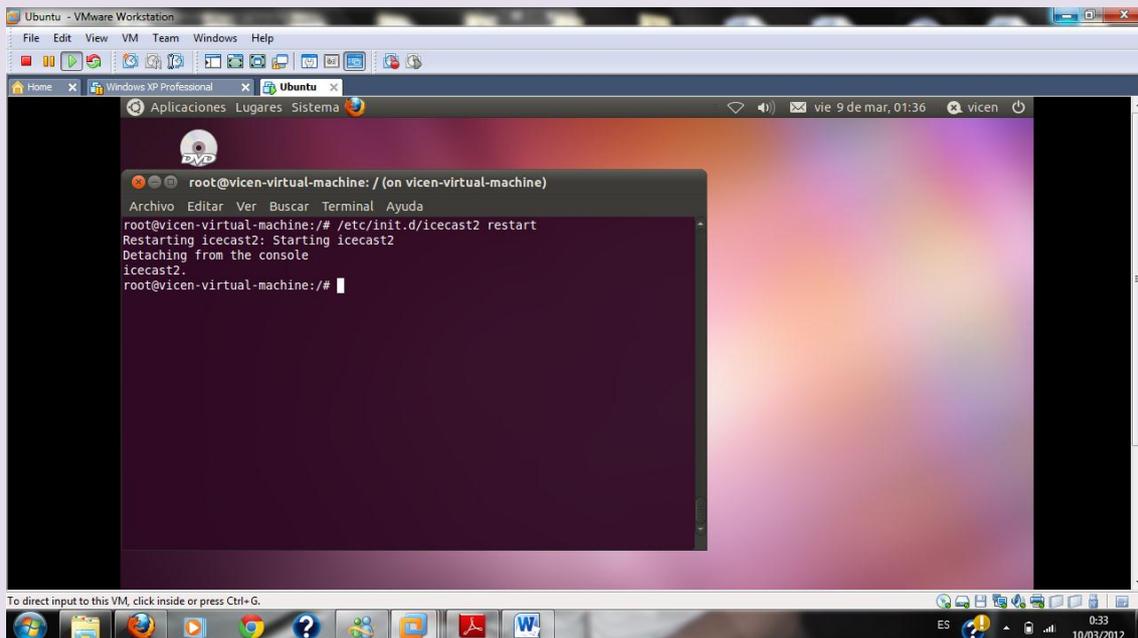


```
root@vicen-virtual-machine: / (on vicen-virtual-machine)
GNU nano 2.2.6 Archivo: /etc/default/icecast2 Modificado

# Edit /etc/icecast2/icecast.xml and change at least the passwords.
# Change this to true when done to enable the init.d script
ENABLE=true

[ 19 líneas leídas ]
Ver ayuda Guardar Leer Fich RePág. Cortar Tex Pos actual
Salir Justificar Buscar Pág. Sig. PegarTxt Ortografía
```

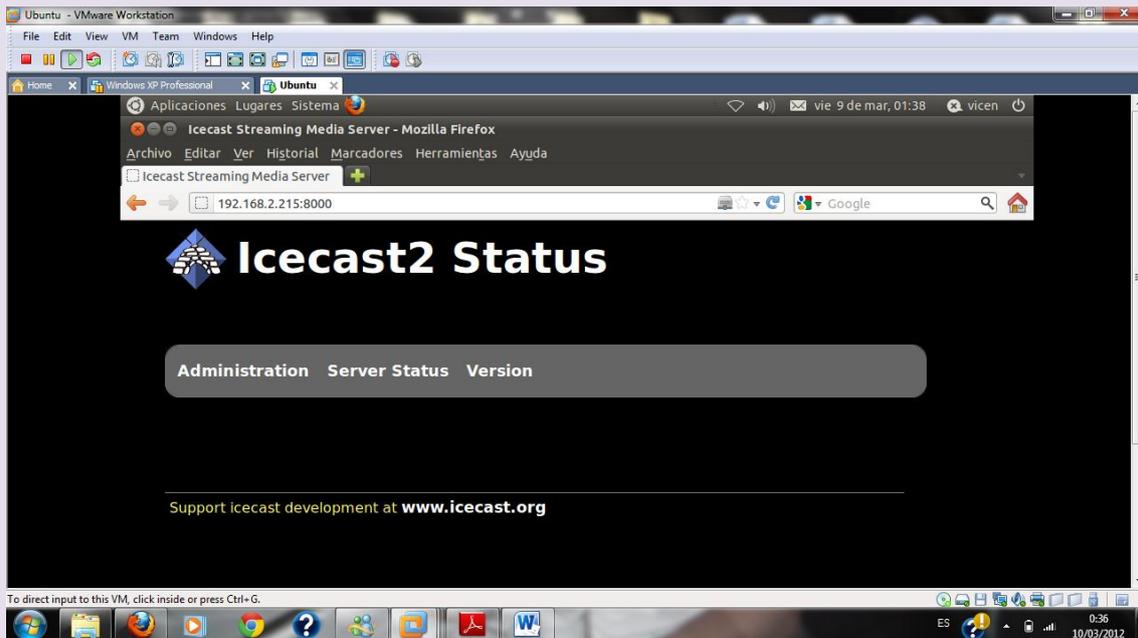
Reiniciamos el servicio para que surtan los efectos



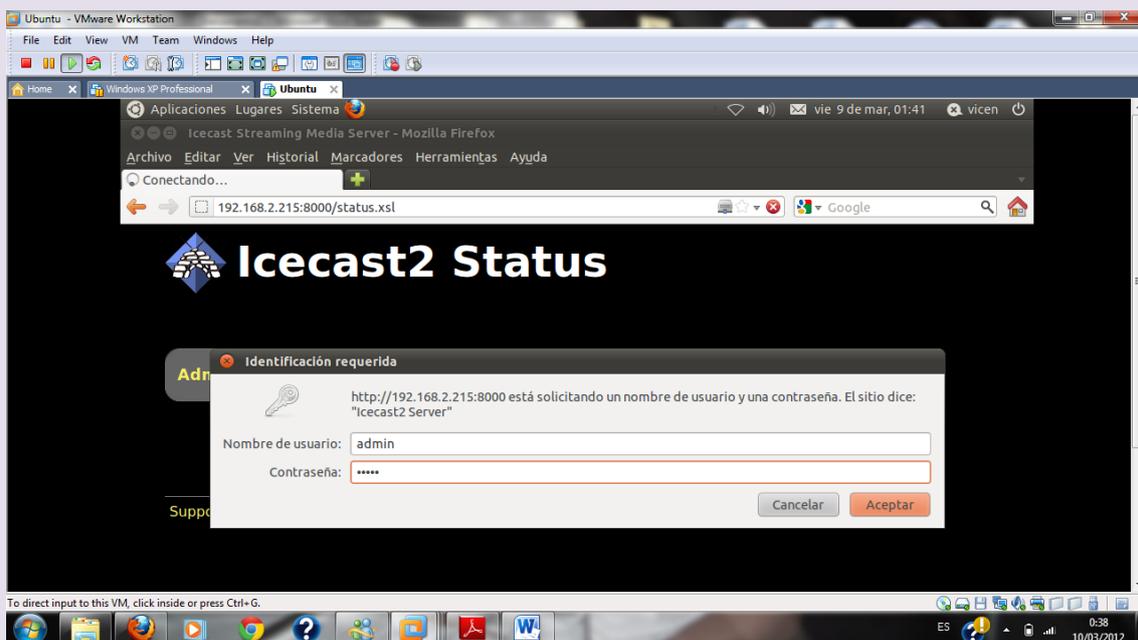
```
root@vicen-virtual-machine: / (on vicen-virtual-machine)
Archivo Editar Ver Buscar Terminal Ayuda
root@vicen-virtual-machine:~# /etc/init.d/icecast2 restart
Restarting icecast2: Starting icecast2
Detaching from the console
icecast2.
root@vicen-virtual-machine:~#
```

Ponemos en el navegador `http://192.168.2.215:8000`

Y accedemos

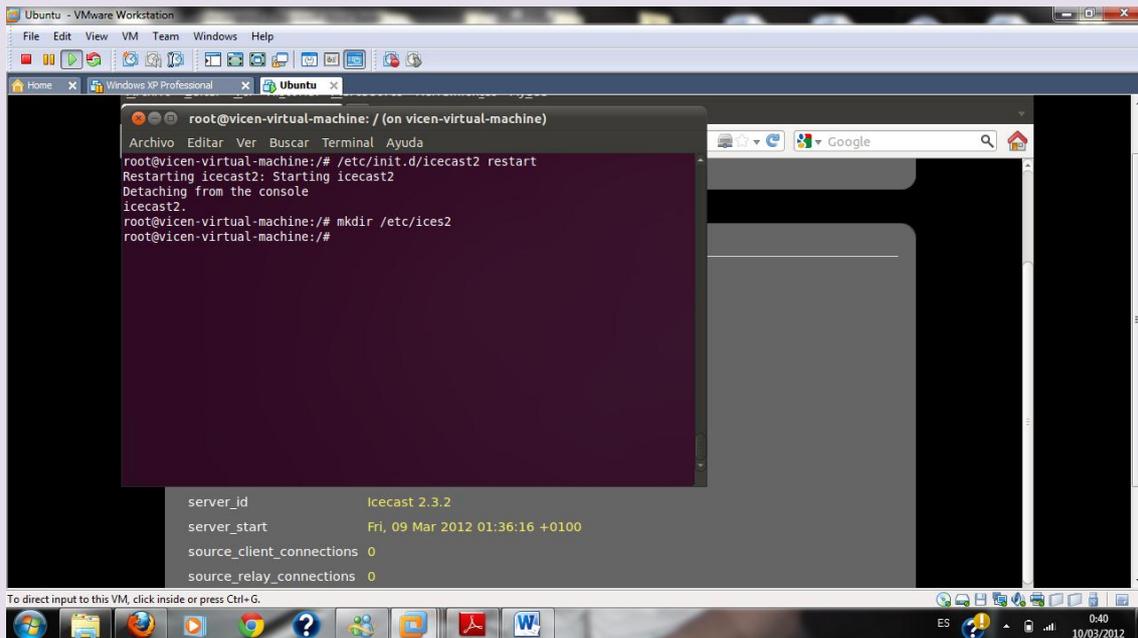


Nos pide autenticación y ponemos admin e inves que es lo que hemos puesto en el fichero de configuración



Para tener listas de reproducción vamos a configurar /etc/ices2

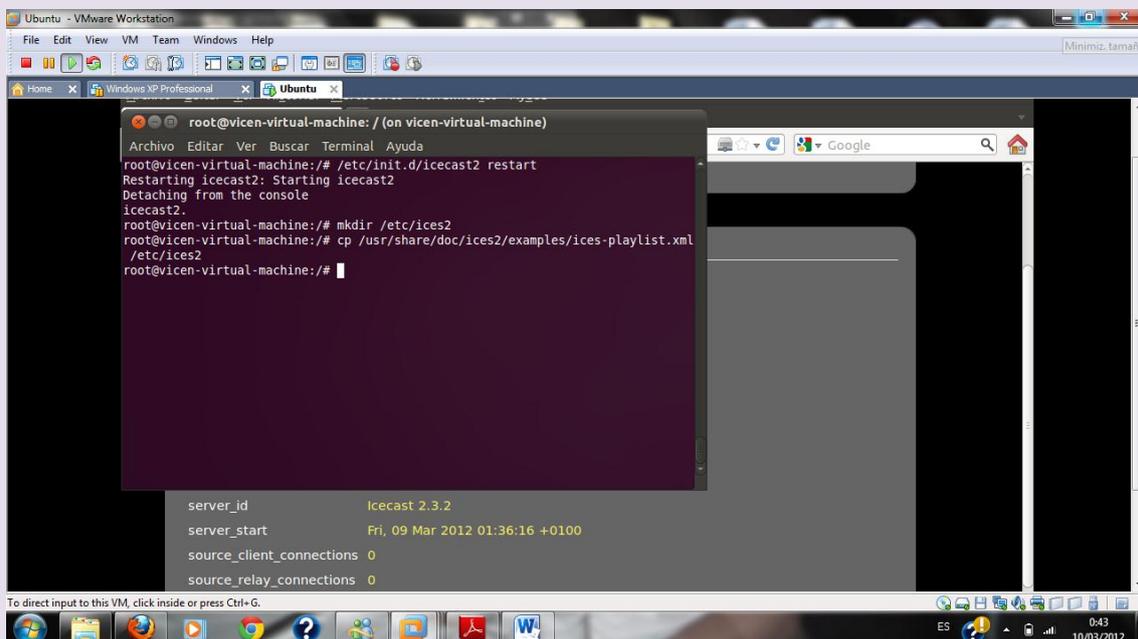
Creamos un fichero donde guardar nuestra lista



```
root@vicen-virtual-machine: / (on vicen-virtual-machine)
Archivo Editar Ver Buscar Terminal Ayuda
root@vicen-virtual-machine:~# /etc/init.d/icecast2 restart
Restarting icecast2: Starting icecast2
Detaching from the console
icecast2.
root@vicen-virtual-machine:~# mkdir /etc/ices2
root@vicen-virtual-machine:~#
```

server_id	icecast 2.3.2
server_start	Fri, 09 Mar 2012 01:36:16 +0100
source_client_connections	0
source_relay_connections	0

Ahora copiamos el fichero que trae el programa al directorio que hemos creado



```
root@vicen-virtual-machine: / (on vicen-virtual-machine)
Archivo Editar Ver Buscar Terminal Ayuda
root@vicen-virtual-machine:~# /etc/init.d/icecast2 restart
Restarting icecast2: Starting icecast2
Detaching from the console
icecast2.
root@vicen-virtual-machine:~# mkdir /etc/ices2
root@vicen-virtual-machine:~# cp /usr/share/doc/ices2/examples/ices-playlist.xml
/etc/ices2
root@vicen-virtual-machine:~#
```

server_id	icecast 2.3.2
server_start	Fri, 09 Mar 2012 01:36:16 +0100
source_client_connections	0
source_relay_connections	0

Configuramos el fichero con el nombre y descripción de nuestro fichero de reproducción

```

root@vicen-virtual-machine: /usr/share/doc/ices2/examples (on vicen-virtual-m
Archivo Editar Ver Buscar Terminal Ayuda
GNU nano 2.2.6 Archivo: ices-playlist.xml Modificado
<stream>
<!-- metadata used for stream listing (not currently used) -->
<metadata>
  <name>solo compas</name>
  <genre>flamenco</genre>
  <description>danza</description>
</metadata>

<!-- input module

The module used here is the playlist module - it has
submodules for different types of playlist. There are
two currently implemented, 'basic', which is a simple
file-based playlist, and 'script' which invokes a command
to returns a filename to start playing. -->

<input>

server_id          Icecast 2.3.2
server_start       Fri, 09 Mar 2012 01:36:16 +0100
source_client_connections  0
source_relay_connections  0
  
```

Vemos donde vamos a tener nuestra lista de reproducción

```

GNU nano 2.2.6 Archivo: ices-playlist.xml Modificado
<input>
  <module>playlist</module>
  <param name="type">basic</param>
  <param name="file">/home/vicen/ices/lista.txt</param>
  <!-- random play -->
  <param name="random">0</param>
  <!-- if the playlist get updated that start at the beginning -->
  <param name="restart-after-reread">0</param>
  <!-- if set to 1, plays once through, then exits. -->
  <param name="once">0</param>
</input>

<!-- Stream instance
You may have one or more instances here. This allows you to
send the same input data to one or more servers (or to different
mountpoints on the same server). Each of them can have different
  
```

Indicamos donde pondremos la lista

The screenshot shows a terminal window titled 'root@vican-virtual-machine: /etc/ices2 (on vican-virtual-machine)'. The terminal is running the nano text editor on the file 'ices-playlist.xml'. The content of the file is as follows:

```

send the same input data to one or more servers (or to different
mountpoints on the same server). Each of them can have different
parameters. This is primarily useful for a) relaying to multiple
independent servers, and b) encoding/reencoding to multiple
bitrates.
If one instance fails (for example, the associated server goes
down, etc), the others will continue to function correctly.
This example defines two instances as two mountpoints on the
same server. -->
<instance>
<!-- Server details:
You define hostname and port for the server here, along with
the source password and mountpoint. -->
<hostname>localhost</hostname>
<port>8000</port>
<password>hackme</password>
<mount>lista.ogg</mount>

server_id          Icecast 2.3.2
server_start       Fri, 09 Mar 2012 01:36:16 +0100
source_client_connections  0
source_relay_connections  0

```

Indicamos también en el fichero /etc/icecast2/icecast.xml para decirle donde estará nuestra lista

The screenshot shows a terminal window titled 'root@vican-virtual-machine: /etc/icecast2 (on vican-virtual-machine)'. The terminal is running the nano text editor on the file '/etc/icecast2/icecast.xml'. The content of the file is as follows:

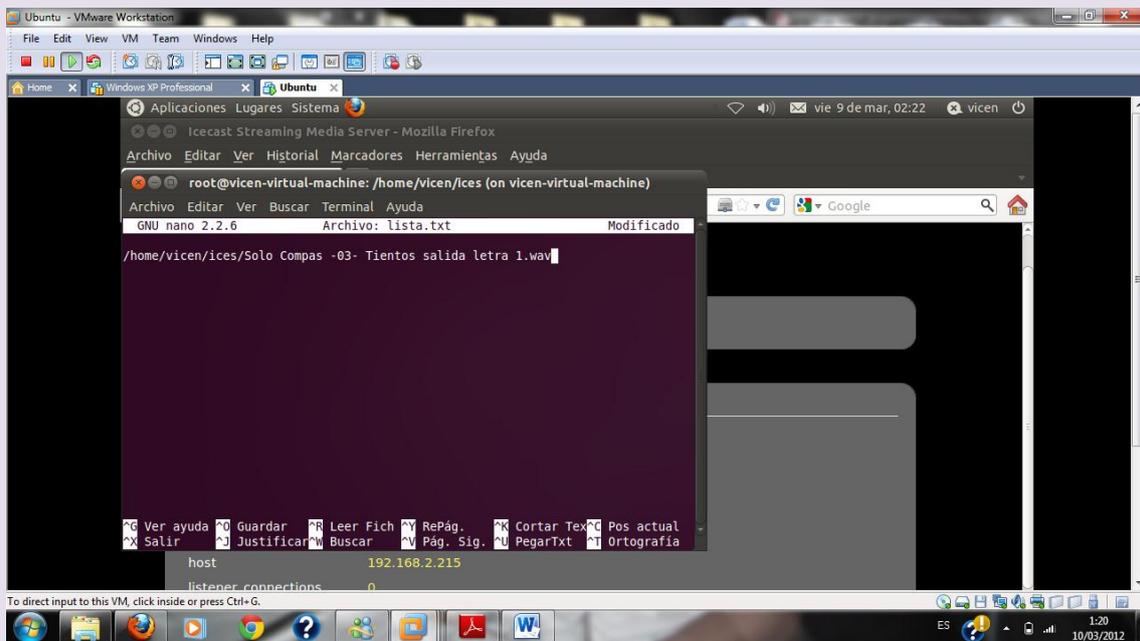
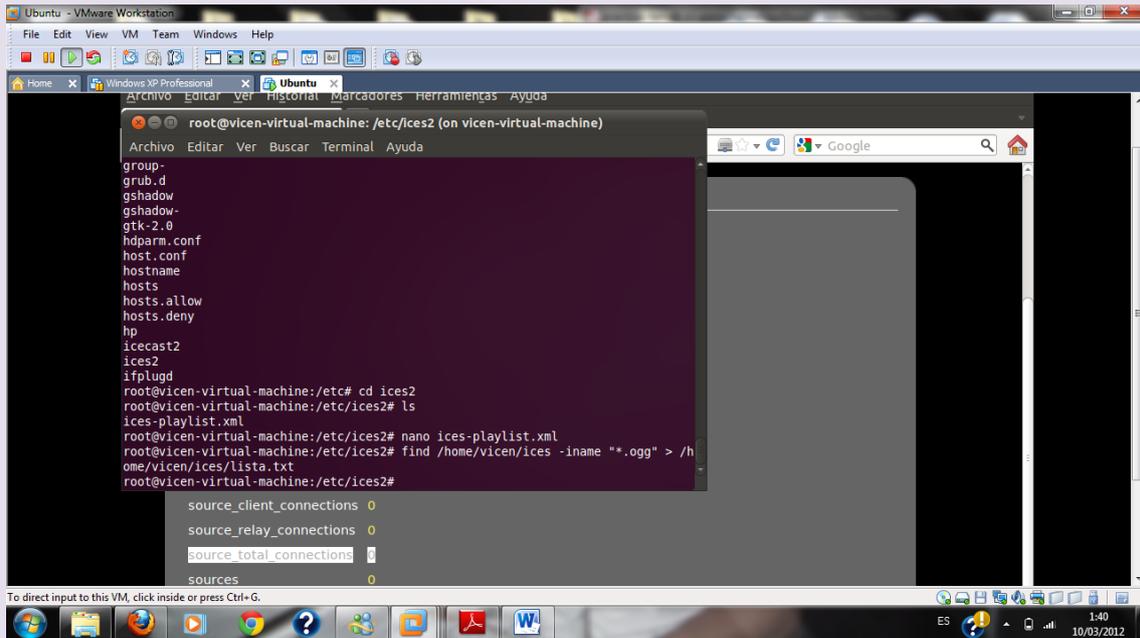
```

-->
<!-- This is the hostname other people will use to connect to your server.
It affects mainly the urls generated by Icecast for playlists and yp
listings. -->
<hostname>192.168.2.215</hostname>

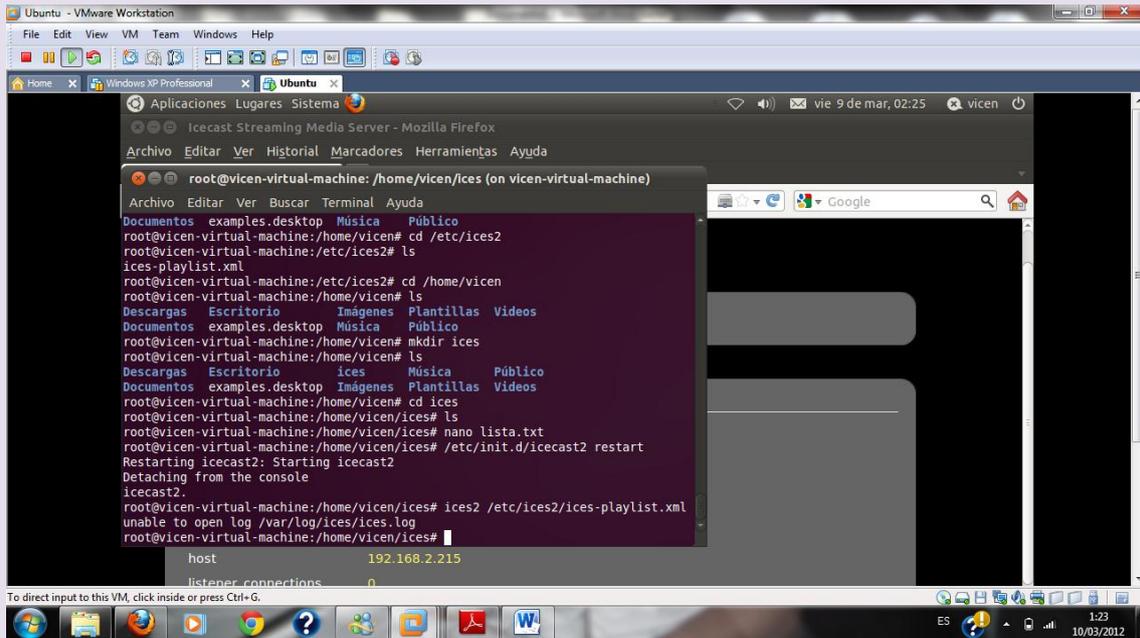
<!-- You may have multiple <listener> elements -->
<listen-socket>
<port>8000</port>
<!-- <bind-address>127.0.0.1</bind-address> -->
<shoutcast-mount>lista.ogg</shoutcast-mount> -->
</listen-socket>
<!--
<listen-socket>
<port>8001</port>
</listen-socket>

server_id          Icecast 2.3.2
server_start       Fri, 09 Mar 2012 01:36:16 +0100
source_client_connections  0
source_relay_connections  0

```



Reiniciamos



Accedemos de nuevo en el navegador autenticándonos

