

LAB 6

GII 3º TDRC

TELEMATIC SERVICES ON INTERNET

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Subgroup 1

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Domain 1: palomofernandez.dtdns.net

Subgroup 2

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Domain 2: gonzalezrosas.dtdns.net

BACKGROUND

Objetives:

- Approach common and useful services in order to learn how to maintain and manage a server.
- Simulating as much as possible real work environments.
- Performing tasks that involve a combination of different skills that we acquired along 'TDRC' and other network related subjects.

BACKGROUND

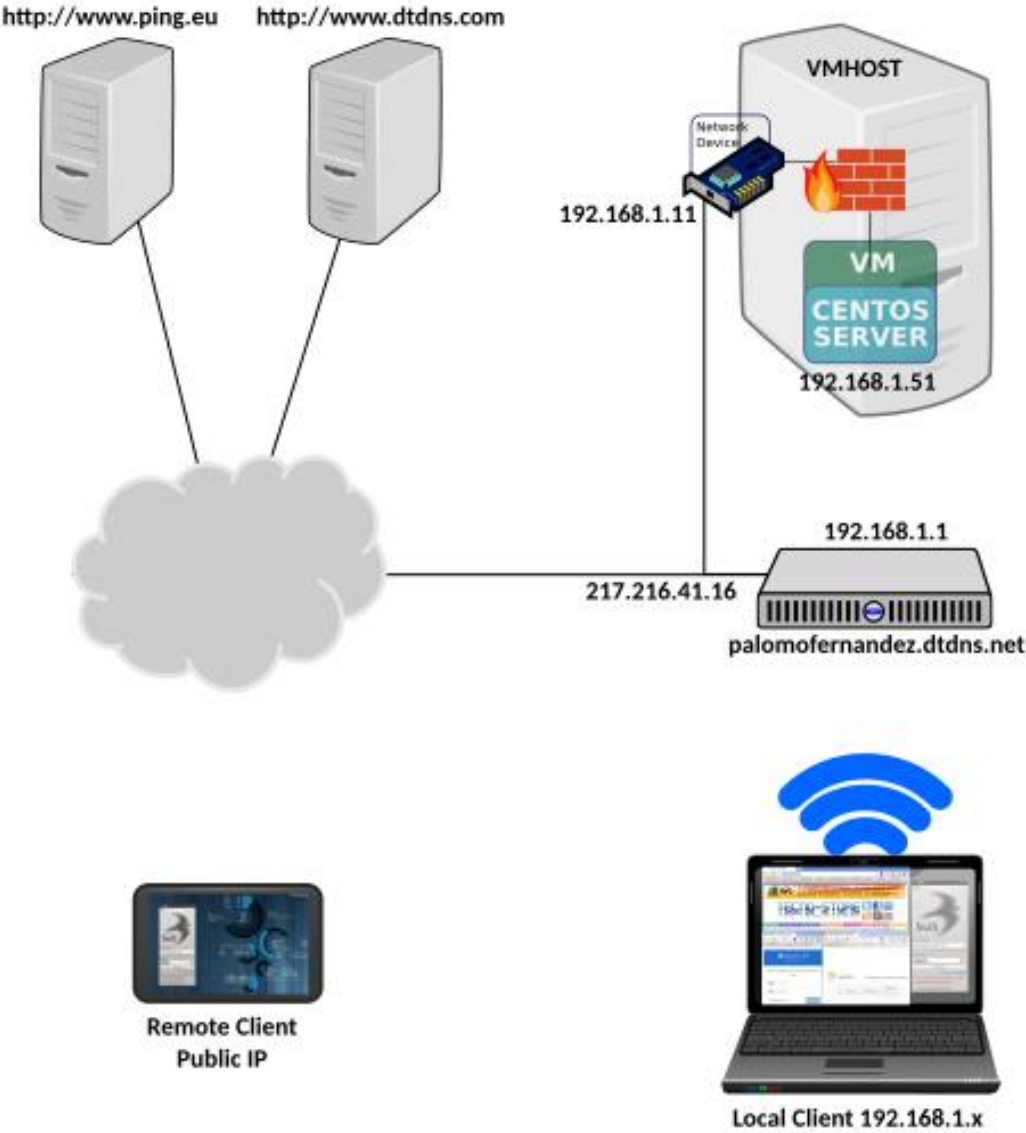
- Tools:



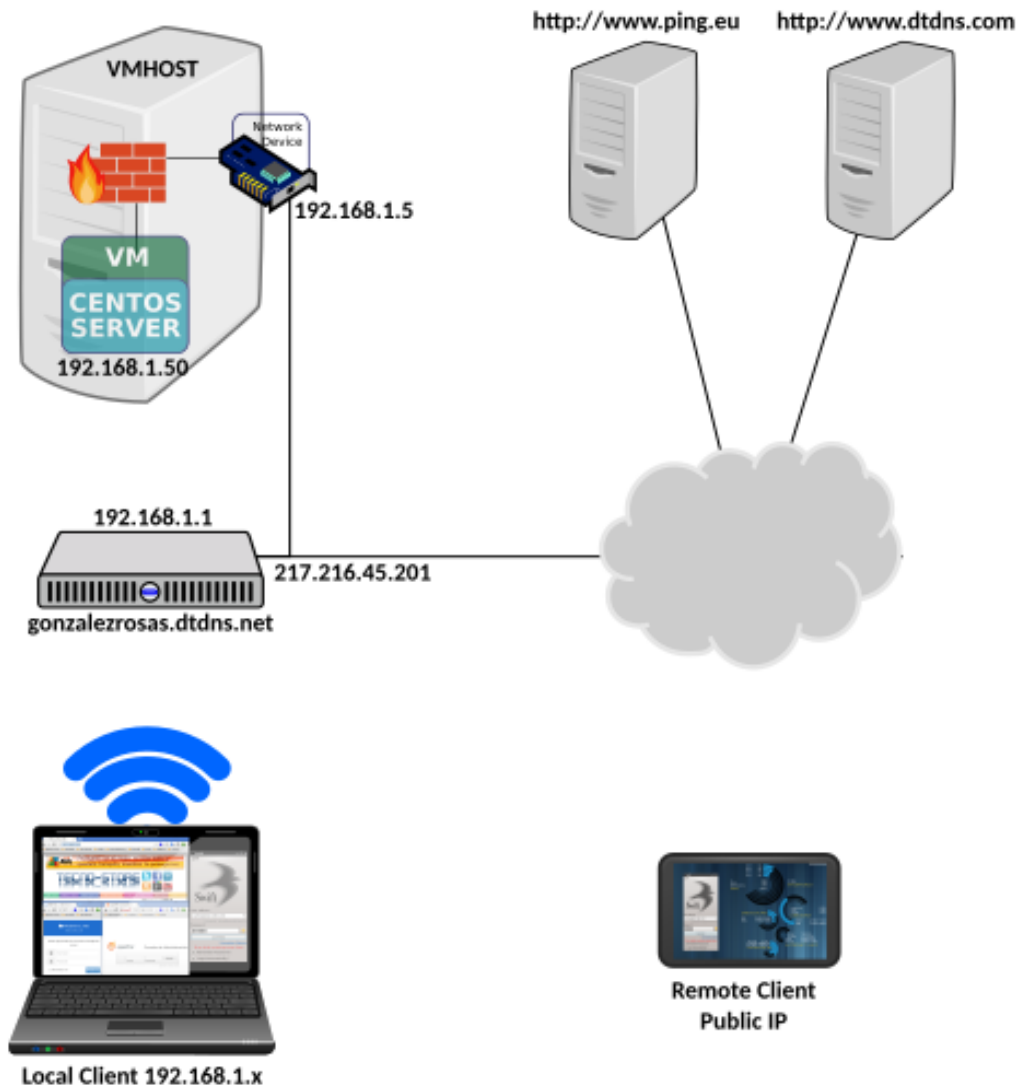
- Services:



BACKGROUND



BACKGROUND



CREATE Dynamic DNS Account: palomofernandez.dtdns.net

palomofernandez.dtdns.net

General Settings

Go

General Settings

Date Added:

May 19 2015 6:53 AM EDT

Date Modified:

May 20 2015 5:36 PM EDT

Update Group:

No Group Selected

Update Client:

DtDNS Hostname Manager

Update Count:

0

Offline Hits:

0

IP Address:

217.216.41.16

IP Type:

Dynamic

Site Title:

Site Status:

Active

Enable Wildcard:

Yes

CREATE Dynamic DNS Account: gonzalezrosas.dtdns.net

gonzalezrosas.dtdns.net

General Settings

Go

General Settings

Date Added: May 18 2015 6:18 AM EDT
Date Modified: May 19 2015 6:21 AM EDT

Update Group: No Group Selected
Update Client: DtDNS Hostname Manager
Update Count: 0
Offline Hits: 0

IP Address: 217.216.45.201
IP Type: Dynamic

Site Title:
Site Status: Active
Enable Wildcard: Yes

CHECK domain with nslookup and wireshark

```
: bash - Konsole
Archivo  Editar  Ver  Marcadores  Preferencias  Ayuda

[usuario@fedora20 ~]$ nslookup gonzalezrosas.dtdns.net
Server:      8.8.4.4
Address:     8.8.4.4#53

Non-authoritative answer:
Name:   gonzalezrosas.dtdns.net
Address: 217.216.45.201

[usuario@fedora20 ~]$
```

+p20p1 (port 53) [Wireshark 1.10.13 (Git Rev Unknown from unknown)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: Expression... Clear Apply Guardar

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.1.5	8.8.4.4	DNS	83	Standard query 0xdaef A gonzalezrosas.dtdns.net
2	0.131327000	8.8.4.4	192.168.1.5	DNS	99	Standard query response 0xdaef A 217.216.45.201

> Frame 1: 83 bytes on wire (664 bits), 83 bytes captured (664 bits) on interface 0
> Ethernet II, Src: Giga-Byt_5c:9a:20 (00:1a:4d:5c:9a:20), Dst: Netgear_03:68:03 (c4:3d:c7:03:68:03)
> Internet Protocol Version 4, Src: 192.168.1.5 (192.168.1.5), Dst: 8.8.4.4 (8.8.4.4)
> User Datagram Protocol, Src Port: 57574 (57574), Dst Port: domain (53)
v Domain Name System (query)
- [Response In: 2]
- Transaction ID: 0xdaef
- Flags: 0x0100 Standard query
- Questions: 1
- Answer RRs: 0
- Authority RRs: 0
- Additional RRs: 0
v Queries
- gonzalezrosas.dtdns.net: type A, class IN

```
0000  c4 3d c7 03 68 03 00 1a 4d 5c 9a 20 08 00 45 00  .=.h... M\  ..E.
0010  00 45 29 5e 00 00 40 11 83 91 c0 a8 01 05 08 08  .E)^..@. ....
0020  04 04 e0 e6 00 35 00 31 72 b2 da ef 01 00 00 01  .....5.1 r.....
0030  00 00 00 00 00 00 0d 67 6f 6e 7a 61 6c 65 7a 72  .....g onzalezr
0040  6f 73 61 73 05 64 74 64 6e 73 03 6e 65 74 00 00  osas.dtd ns.net..
```

File: "/var/tmp/wireshark_pcapng_p2..." Packets: 2 · Displayed: ... Profile: Default

CHECK domain with nslookup and wireshark

usuario : bash - Konsole

Archivo Editar Ver Marcadores Preferencias Ayuda

```
[usuario@fedora20 ~]$ nslookup palomofernandez.dtdns.net
Server:      8.8.4.4
Address:     8.8.4.4#53

Non-authoritative answer:
Name:   palomofernandez.dtdns.net
Address: 217.216.41.16

[usuario@fedora20 ~]$
```

*p20p1 (port 53) [Wireshark 1.10.13 (Git Rev Unknown from unknown)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: Expression... Clear Apply Guardar

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.1.5	8.8.4.4	DNS	85	Standard query 0xafa8 A palomofernandez.dtdns.net
2	0.135136000	8.8.4.4	192.168.1.5	DNS	101	Standard query response 0xafa8 A 217.216.41.16

> Frame 1: 85 bytes on wire (680 bits), 85 bytes captured (680 bits) on interface 0

> Ethernet II, Src: Giga-Byt_Sc:9a:20 (00:1a:4d:5c:9a:20), Dst: Netgear_03:68:03 (c4:3d:c7:03:68:03)

> Internet Protocol Version 4, Src: 192.168.1.5 (192.168.1.5), Dst: 8.8.4.4 (8.8.4.4)

> User Datagram Protocol, Src Port: 54478 (54478), Dst Port: domain (53)

> Domain Name System (query)

[Response In: 2]

Transaction ID: 0xafa8

Flags: 0x0100 Standard query

Questions: 1

Answer RRs: 0

Authority RRs: 0

Additional RRs: 0

Queries

palomofernandez.dtdns.net: type A, class IN

0000 c4 3d c7 03 68 03 00 1a 4d 5c 9a 20 08 00 45 00 .=.h... M\..E.

0010 00 47 3b 4a 00 00 40 11 71 a3 c0 a8 01 05 08 08 .G;J..@. q.....

0020 04 04 d4 ce 00 35 00 33 61 a0 af a8 01 00 00 015.3 a.....

0030 00 00 00 00 00 00 0f 70 61 6c 6f 6d 6f 66 65 72p alomofer

0040 6e 61 6e 64 65 7a 05 64 74 64 6e 73 03 6e 65 74 nandez.d tdns.net

File: "/var/tmp/wireshark_pcapng_p2... Packets: 2 · Displayed:... Profile: Default

Configure DDNS at home

```
[usuario@fedora20 Downloads]$ cat ddclient.conf
daemon=7200                # check every 7200 seconds
syslog=yes                 # log update msgs to syslog
#mail=root                 # mail all msgs to root
mail-failure=root          # mail failed update msgs to root
pid=/var/run/ddclient/ddclient.pid # record PID in file.
ssl=yes                    # use ssl-support. Works with
                           # ssl-library
## To obtain an IP address from FW status page (using fw-login, fw-password)
#use=fw, fw=192.168.1.254/status.htm, fw-skip='IP Address' # found after IP Address
#
## To obtain an IP address from Web status page (using the proxy if defined)
## by default, checkip.dyndns.org is used if you use the dyndns protocol.
## Using use=web is enough to get it working.
## WARNING: set deamon at least to 600 seconds if you use checkip or you could
## get banned from their service.
#use=web, web=cualesmiip.com/, web-skip='Tu IP real es ' # found after IP Address
#
#use=ip,                    ip=127.0.0.1      # via static IP's
#use=if,                    if=eth0           # via interfaces
use=web                     # via web
#
#protocol=dyndns2           # default protocol
#proxy=fasthttp.sympatico.ca:80 # default proxy
#server=members.dyndns.org  # default server
#server=members.dyndns.org:8245 # default server (bypassing proxies)

login=jesusgn90            # default login
password=secretol          # default password
#mx=mx.for.your.host       # default MX
#backupmx=yes|no           # host is primary MX?
#wildcard=yes|no           # add wildcard CNAME?

##
## DtdNS (www.dtdns.com)
##
protocol=ddclient,
server=www.dtdns.com,
client=ddclient,
password=secretol
gonzalezrosas.dtdns.net
[usuario@fedora20 Downloads]$
```

```
[usuario@fedora20 Downloads]$ cat ddclient.conf
daemon=7200                # check every 7200 seconds
syslog=yes                 # log update msgs to syslog
#mail=root                 # mail all msgs to root
mail-failure=root          # mail failed update msgs to root
pid=/var/run/ddclient/ddclient.pid # record PID in file.
ssl=yes                    # use ssl-support. Works with
                           # ssl-library
## To obtain an IP address from FW status page (using fw-login, fw-password)
#use=fw, fw=192.168.1.254/status.htm, fw-skip='IP Address' # found after IP Address
#
## To obtain an IP address from Web status page (using the proxy if defined)
## by default, checkip.dyndns.org is used if you use the dyndns protocol.
## Using use=web is enough to get it working.
## WARNING: set deamon at least to 600 seconds if you use checkip or you could
## get banned from their service.
#use=web, web=cualesmiip.com/, web-skip='Tu IP real es ' # found after IP Address
#
#use=ip,                    ip=127.0.0.1      # via static IP's
#use=if,                    if=eth0           # via interfaces
use=web                     # via web
#
#protocol=dyndns2           # default protocol
#proxy=fasthttp.sympatico.ca:80 # default proxy
#server=members.dyndns.org  # default server
#server=members.dyndns.org:8245 # default server (bypassing proxies)

login=jesusgn90            # default login
password=secretol          # default password
#mx=mx.for.your.host       # default MX
#backupmx=yes|no           # host is primary MX?
#wildcard=yes|no           # add wildcard CNAME?

##
## DtdNS (www.dtdns.com)
##
protocol=ddclient,
server=www.dtdns.com,
client=ddclient,
password=secretol
palomofernandez.dtdns.net
[usuario@fedora20 Downloads]$
```

Open ports in ADSL router

Nombre del servicio

Dirección IP del servidor

192

.

168

.

1

.

+ Añadir

#	Nombre del servicio	Puerto de inicio externo	Puerto de destino externo	Puerto de inicio interno	Puerto de destino interno	Dirección IP interna
0						
1						
2						
3	HTTPS	443	443	443	443	192.168.1.5
4	VmWareWS	8888	8888	8888	8888	192.168.1.5
5	GestionVmWare	902	902	902	902	192.168.1.5
6						
7						
8	FTP	20	21	20	21	192.168.1.50
9	HTTP	80	80	80	80	192.168.1.50
10	XMPP	5222	5223	5222	5223	192.168.1.50
11	openfire	9090	9091	9090	9091	192.168.1.50
12	xmppservidor	5269	5269	5269	5269	192.168.1.50
13	webmin	10000	10000	10000	10000	192.168.1.50

Externo			Interno				
Puerto inicial	Puerto final	Dirección IP	Puerto inicial	Puerto final	Protocolo	Activar	
22	a 22	192.168.1.15	22	a 22	TCP	<input type="checkbox"/>	
80	a 80	192.168.1.15	80	a 80	Ambos	<input type="checkbox"/>	
8888	a 8888	192.168.1.11	8888	a 8888	Ambos	<input checked="" type="checkbox"/>	
443	a 443	192.168.1.11	443	a 443	Ambos	<input checked="" type="checkbox"/>	
902	a 902	192.168.1.11	902	a 902	Ambos	<input checked="" type="checkbox"/>	
20	a 21	192.168.1.50	20	a 21	Ambos	<input checked="" type="checkbox"/>	
80	a 80	192.168.1.50	80	a 80	Ambos	<input checked="" type="checkbox"/>	
5222	a 5223	192.168.1.50	5222	a 5223	Ambos	<input checked="" type="checkbox"/>	
10000	a 10000	192.168.1.50	10000	a 10000	Ambos	<input checked="" type="checkbox"/>	
9090	a 9091	192.168.1.50	9090	a 9091	Ambos	<input checked="" type="checkbox"/>	

Install service 1

```
[usuario@fedora20 ~]$ sudo yum install httpd
```

Complementos cargados:

fastestmirror, keys, langpacks, protectbase, refresh-packagekit, remove-with-leaves, versionlock

Unable to send message to PackageKit

Loading mirror speeds from cached hostfile

* fedora: ftp.cica.es

* rpmfusion-free: ftp-stud.hs-esslingen.de

* rpmfusion-free-updates: ftp-stud.hs-esslingen.de

* rpmfusion-nonfree: ftp-stud.hs-esslingen.de

* rpmfusion-nonfree-updates: ftp-stud.hs-esslingen.de

* updates: ftp.cica.es

0 packages excluded due to repository protections

Paquetes instalados

httpd.x86_64

2.4.10-2.fc20

@updates

Install service 1

```
[usuario@fedora20 ~]$ sudo yum install vsftpd
```

Complementos cargados:

fastestmirror, keys, langpacks, protectbase, refresh-packagekit, remove-with-leaves, versionlock

Unable to send message to PackageKit

Loading mirror speeds from cached hostfile

- * fedora: ftp.cica.es
- * rpmfusion-free: ftp-stud.hs-esslingen.de
- * rpmfusion-free-updates: ftp-stud.hs-esslingen.de
- * rpmfusion-nonfree: ftp-stud.hs-esslingen.de
- * rpmfusion-nonfree-updates: ftp-stud.hs-esslingen.de
- * updates: ftp.cica.es

0 packages excluded due to repository protections

Paquetes disponibles

vsftpd.x86_64	3.0.2-6.fc20	fedora
---------------	--------------	--------

Install service 2

```
[usuario@fedora20 Downloads]$ wget
http://www.igniterealtime.org/downloadServlet?filename=openfire/openfire-3.10.0-1.i386.rpm
--2015-05-28 20:38:24--
  http://www.igniterealtime.org/downloadServlet?filename=openfire/openfire-3.10.0-1.i386.rpm
Resolviendo www.igniterealtime.org (www.igniterealtime.org)... 199.193.196.18
Conectando con www.igniterealtime.org (www.igniterealtime.org)[199.193.196.18]:80...
conectado.
Petición HTTP enviada, esperando respuesta... 302 Moved Temporarily
Localización: http://download.igniterealtime.org/openfire/openfire-3.10.0-1.i386.rpm
[siguiendo]
--2015-05-28 20:38:24-- http://download.igniterealtime.org/openfire/openfire-3.10.0-1.i386.rpm
(...)
2015-05-28 20:38:37 (5,93 MB/s) - "downloadServlet?filename=openfire%2Fopenfire-3.10.0-1.i386.rpm" guardado
```

Install service 2

```
[usuario@fedora20 Downloads]$ mv downloadServlet\?filename\=openfire%2Fopenfire-3.10.0-1.i386.rpm openfire.rpm
[usuario@fedora20 Downloads]$ sudo yum install openfire.rpm
Complementos cargados:
(...)
=====
Package                Arquitectura    Versión        Repositorio      Tamaño
=====
Instalando:
openfire                i386           3.10.0-1       /openfire        179 M

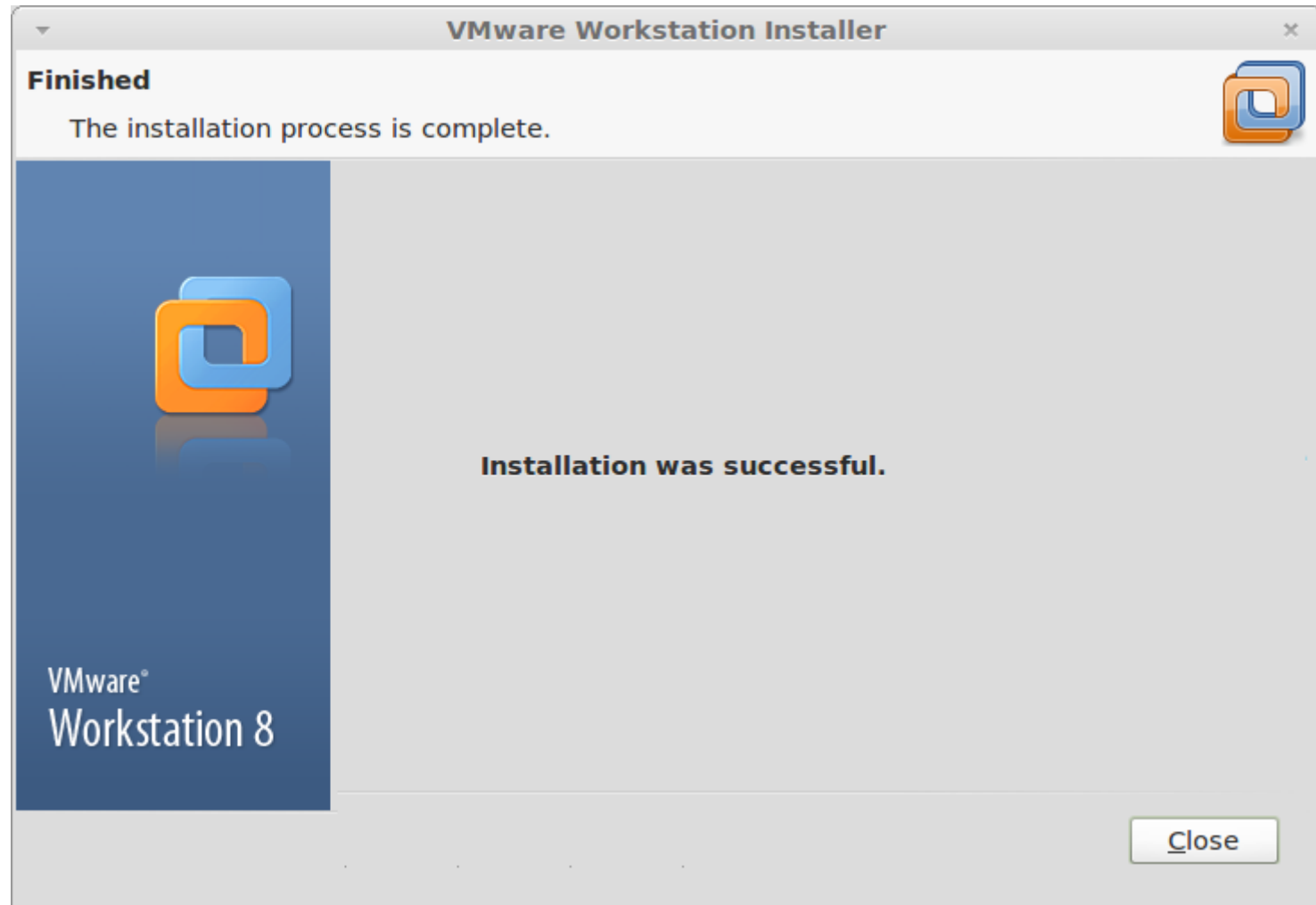
Resumen de la transacción
=====
Instalar 1 Paquete
Tamaño total: 179 M
Tamaño instalado: 179 M
Is this ok [y/d/N]: Y
```

Install service 3

Download from the [official website of VMWare](#) both Workstation and WSX module

```
chmod +x VMware-Workstation-Full-8.0.0-2305329.x86_64.bundle  
./VMware-Workstation-Full-8.0.0-2305329.x86_64.bundle
```


Install service 3



Check ports in your server with netstat -a

```
[root@server /]# netstat -tulpn
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:38846          0.0.0.0:*               LISTEN      973/rpc.statd
tcp        0      0 0.0.0.0:111           0.0.0.0:*               LISTEN      953/rpcbind
tcp        0      0 0.0.0.0:10000          0.0.0.0:*               LISTEN      1570/perl
tcp        0      0 192.168.1.50:21       0.0.0.0:*               LISTEN      1173/vsftpd
tcp        0      0 0.0.0.0:22            0.0.0.0:*               LISTEN      1161/sshd
tcp        0      0 127.0.0.1:631          0.0.0.0:*               LISTEN      1034/cupsd
tcp        0      0 127.0.0.1:5432         0.0.0.0:*               LISTEN      1204/postmaster
tcp        0      0 :::443                :::*                   LISTEN      1245/httpd
tcp        0      0 :::7777               :::*                   LISTEN      1338/java
tcp        0      0 :::9090               :::*                   LISTEN      1338/java
tcp        0      0 :::9091               :::*                   LISTEN      1338/java
tcp        0      0 :::5222               :::*                   LISTEN      1338/java
tcp        0      0 :::39878              :::*                   LISTEN      973/rpc.statd
tcp        0      0 :::5223               :::*                   LISTEN      1338/java
tcp        0      0 :::5229               :::*                   LISTEN      1338/java
tcp        0      0 :::111                :::*                   LISTEN      953/rpcbind
tcp        0      0 :::80                 :::*                   LISTEN      1245/httpd
tcp        0      0 :::5269               :::*                   LISTEN      1338/java
tcp        0      0 :::22                 :::*                   LISTEN      1161/sshd
tcp        0      0 :::1:631              :::*                   LISTEN      1034/cupsd
tcp        0      0 :::1:5432              :::*                   LISTEN      1204/postmaster
udp        0      0 0.0.0.0:636           0.0.0.0:*               900/portreserve
udp        0      0 0.0.0.0:34179          0.0.0.0:*               973/rpc.statd
udp        0      0 0.0.0.0:10000          0.0.0.0:*               1570/perl
udp        0      0 0.0.0.0:704           0.0.0.0:*               953/rpcbind
udp        0      0 127.0.0.1:725          0.0.0.0:*               973/rpc.statd
udp        0      0 0.0.0.0:111           0.0.0.0:*               953/rpcbind
udp        0      0 0.0.0.0:631           0.0.0.0:*               1034/cupsd
udp        0      0 :::704                :::*                   953/rpcbind
udp        0      0 :::57673              :::*                   973/rpc.statd
udp        0      0 :::111                :::*                   953/rpcbind
[root@server /]#
```

Check all open ports from outside with www.ping.eu

IP address or host name:

Port number:

palomofernandez.dtdns.net:21 port is open

TCP Connections (Source Host:Port)	Packets	Bytes	Flags	Iface
192.168.1.50:21	= 17	1620	-PA-	eth0
88.198.46.51:50574	= 0	0	----	eth0

IP address or host name:

Port number:

palomofernandez.dtdns.net:80 port is open

TCP Connections (Source Host:Port)	Packets	Bytes	Flags	Iface
192.168.1.50:80	= 3	164	--A-	eth0
88.198.46.51:42988	= 0	0	----	eth0

IP address or host name:

Port number:

palomofernandez.dtdns.net:5222 port is open

TCP Connections (Source Host:Port)	Packets	Bytes	Flags	Iface
192.168.1.50:5222	= 2	112	--A-	eth0
88.198.46.51:44130	= 0	0	----	eth0

IP address or host name:

Port number:

palomofernandez.dtdns.net:9091 port is open

192.168.1.50:9091	= 3	164	--A-	eth0
88.198.46.51:35437	= 0	0	----	eth0
192.168.1.50:9090	= 3	164	--A-	eth0
88.198.46.51:35378	= 0	0	----	eth0

Check ports from outside with www.ping.eu

IP address or host name:

Port number:

Go

gonzalezrosas.dtdns.net:21 port is **open**

IPTráf

TCP Connections (Source Host:Port)

	Packets	Bytes	Flags	Iface
192.168.1.50:21	= 14	1191	-PA-	eth0
88.198.46.51:42230	= 0	0	----	eth0

IP address or host name:

Port number:

Go

gonzalezrosas.dtdns.net:80 port is **open**

IPTráf

TCP Connections (Source Host:Port)

	Packets	Bytes	Flags	Iface
192.168.1.50:80	= 2	112	--A-	eth0
88.198.46.51:38464	= 0	0	----	eth0

IP address or host name:

Port number:

Go

gonzalezrosas.dtdns.net:5222 port is **open**

IPTráf

TCP Connections (Source Host:Port)

	Packets	Bytes	Flags	Iface
192.168.1.50:5222	> 1	52	--A-	eth0
192.168.1.5:42764	= 0	0	----	eth0

IP address or host name:

Port number:

Go

gonzalezrosas.dtdns.net:9091 port is **open**

IPTráf

TCP Connections (Source Host:Port)

	Packets	Bytes	Flags	Iface
192.168.1.50:9091	= 3	164	--A-	eth0
88.198.46.51:55397	= 0	0	----	eth0

Checking conectivity to server with traceroute from OUTSIDE

IP address or host name:

Go

traceroute to gonzalezrosas.dtdns.net (217.216.45.201), 30 hops max, 60 byte packets

1				*	*	*
2	hos-tr3.juniper2.rz13.hetzner.de hos-tr4.juniper2.rz13.hetzner.de hos-tr2.juniper1.rz13.hetzner.de	213.239.224.65 213.239.224.97 213.239.224.33	de de de	0.166 ms 0.157 ms 0.120 ms		
3	core22.hetzner.de core21.hetzner.de	213.239.245.121 213.239.245.81	de de	0.193 ms 0.194 ms	0.201 ms	
4	core11.hetzner.de core11.hetzner.de	213.239.245.225 213.239.245.221	de de	2.746 ms 2.811 ms	2.805 ms	
5	juniper4.rz2.hetzner.de juniper4.rz2.hetzner.de juniper4.rz2.hetzner.de	213.239.203.138 213.239.245.26 213.239.203.138	de de de	2.795 ms 2.807 ms 2.795 ms		
6	r1nue1.core.init7.net r1nue2.core.init7.net	77.109.135.101 82.197.163.29	ch ch	2.936 ms 2.910 ms	2.934 ms	
7	r1nue2.core.init7.net r1muc1.core.init7.net r1nue2.core.init7.net	77.109.140.154 77.109.128.231 77.109.140.154	ch ch ch	2.926 ms 5.431 ms 2.926 ms		
8	r1ams2.core.init7.net r1muc1.core.init7.net r1ams2.core.init7.net	77.109.140.157 77.109.128.231 77.109.128.193	ch ch ch	21.604 ms 5.410 ms 18.475 ms		
9	ae-15.r02.amstnl02.nl.bb.gin.ntt.net	80.249.208.36	nl	19.136 ms	14.744 ms	21.363 ms
11	ae-2.r02.mdrdsp04.es.bb.gin.ntt.net	129.250.2.235	us	58.722 ms	57.688 ms	58.717 ms
12	ae-1.r01.mdrdsp04.es.bb.gin.ntt.net ae-2.r02.mdrdsp04.es.bb.gin.ntt.net ae-1.r01.mdrdsp04.es.bb.gin.ntt.net	129.250.2.42 129.250.2.235 129.250.2.42	us us us	57.329 ms 53.971 ms 57.329 ms		
13	53.232 ms xe-0-2-0-5.r01.mdrdsp04.es.ce.gin.ntt.net xe-0-2-0-6.r01.mdrdsp04.es.ce.gin.ntt.net	81.20.64.250 81.20.64.254	es es	58.939 ms 60.012 ms		
14				*	*	*
15				*	*	*
16				*	*	*

No reply for 3 hops. Assuming we reached firewall.

Your IP is **217.216.41.16**

Online service Traceroute

Traceroute - Traces the route of packets to destination host from our server

IP address or host name:

Go

traceroute to palomofernandez.dtdns.net (217.216.41.16), 30 hops max, 60 byte packets

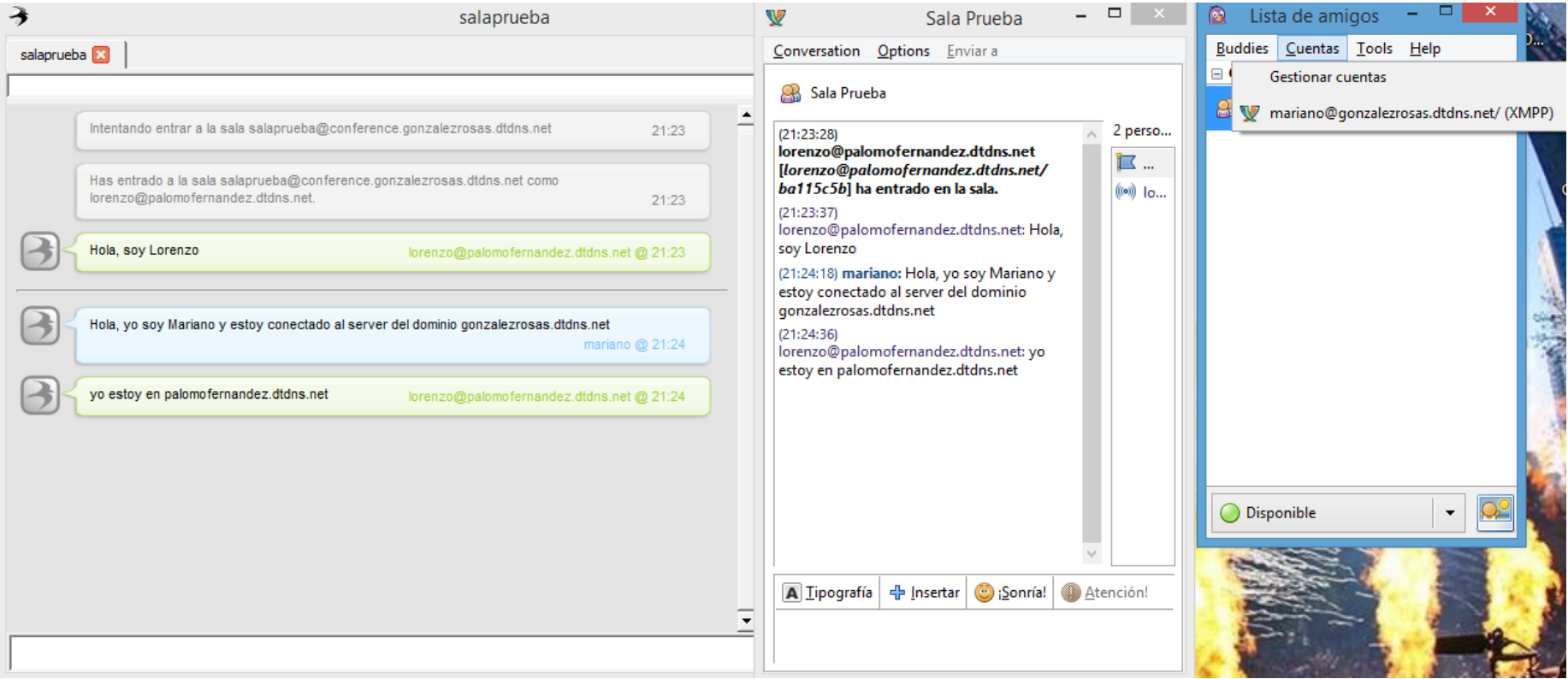
1				*	*	*
2	hos-tr2.juniper1.rz13.hetzner.de hos-tr1.juniper1.rz13.hetzner.de	213.239.224.33 213.239.224.1	de de	0.342 ms 0.196 ms	0.598 ms	
3	core22.hetzner.de core21.hetzner.de core22.hetzner.de	213.239.245.121 213.239.245.81 213.239.245.121	de de de	0.588 ms 0.475 ms 0.588 ms		
4	core11.hetzner.de	213.239.245.221	de	2.808 ms	2.902 ms	2.979 ms
5	juniper4.rz2.hetzner.de juniper4.rz2.hetzner.de juniper4.rz2.hetzner.de	213.239.203.138 213.239.245.26 213.239.203.138	de de de	4.338 ms 2.957 ms 4.338 ms		
6	r1nue1.core.init7.net r1nue2.core.init7.net r1nue1.core.init7.net	77.109.135.101 82.197.163.29 77.109.135.101	ch ch ch	2.933 ms 2.936 ms 2.933 ms		
7	r1nue2.core.init7.net r1ams2.core.init7.net	77.109.140.154 77.109.140.157	ch ch	3.082 ms 21.710 ms	21.597 ms	
8	r1ams2.core.init7.net ae-15.r02.amstnl02.nl.bb.gin.ntt.net	77.109.128.193 80.249.208.36	ch nl	18.741 ms 19.703 ms	17.611 ms	
9	19.730 ms r1ams2.core.init7.net ae-15.r02.amstnl02.nl.bb.gin.ntt.net	77.109.128.193 80.249.208.36	ch nl	18.698 ms 19.730 ms		
10	15.516 ms ae-2.r02.mdrdsp04.es.bb.gin.ntt.net	129.250.2.235	us	62.687 ms	62.691 ms	
11	61.372 ms ae-1.r01.mdrdsp04.es.bb.gin.ntt.net	65.086 ms 129.250.2.42	us		57.768 ms	
12	ae-2.r02.mdrdsp04.es.bb.gin.ntt.net ae-1.r01.mdrdsp04.es.bb.gin.ntt.net	129.250.2.235 129.250.2.42	us us	59.227 ms 57.912 ms	59.332 ms	
13	xe-0-2-0-5.r01.mdrdsp04.es.ce.gin.ntt.net	81.20.64.250	es	55.628 ms	*	
14				*	*	*
15				*	*	*
16				*	*	*

No reply for 3 hops. Assuming we reached firewall.

Show service 1



Show service 2



Show service 3

← → ↺ 🏠 gonzalezrosas.dtdns.net:8888 ★ 🔑 📄 ABP ⌵ ☰

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📄 Practica_TDR ▾ VMware WSX

🔴 Power off this virtual machine

🟡 Suspend this virtual machine

▼ Hardware

🖨 Memory 512 MB

🖨 Processors 1

▼ Description

Maquina para hacer la practica de TDR Servicios instalados Apache FTP,

← → ↺ 🏠 palomofernandez.dtdns.net:8888 ★ 🔑 📄 ABP ⌵ ☰

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▼ Description

Maquina para hacer la practica de TDR Servicios instalados Apache FTP,

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CONCLUSIONS

- Some steps turned out to be a little more complex than expected (configuring VM's and hosts to share resources on the web interface WSX) → permission and user's configuration issues
- Several concepts learnt during the year unified: NAT, network management, DDNS.
- Get in touch with a few useful tools, such as Webmin for server administration, Openfire for the XMPP servers or PhpPgAdmin to manage the database.

CONCLUSIONS

- Hosting our own messaging server, secured with SSL technology.
- Keep sensible data out of reach of other third parties that may be involved in the communication and eavesdrop information.