



Microsoft®
Lync™ Server 2010

Comunicaciones Unificadas

Instalación EDGE



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Comunicaciones Unificadas Virtualizadas

- En la siguiente presentación se realizara la instalación del rol EDGE Server en Lync Server 2010
- **Requisitos:**
 - Lync Server 2010 Standard
 - Lync 2010 FrontEnd (Instalado)
 - Equipo en grupo de trabajo (Workgroup) en DMZ con 3 IPS de DMZ y 1 IP a la LAN de Lync 2010
- **Software Utilizado:**
 - Windows 2008 R2 Datacenter / Enterprise (VMs)
 - Lync Server 2010



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Nombre	Hardware Virtual	Redes	Roles
DC01	512 MB RAM 2 vCPU 40 GB Disco	LAN: 192.168.50.1	Domain Controller RootCA / DNS
LYFE01	2 GB RAM 2 vCPU 127 GB Disco	LAN: 192.168.50.5	Front End / Backend Mediation Server
LYED01	2 GB RAM 2 vCPU 127 GB Disco	LAN: 192.168.50.15 DMZ: 10.1.0.2 DMZ: 10.1.0.3 DMZ: 10.1.0.4	Lync Standard EDGE
EX01	2 GB RAM 2 vCPU 127 GB Disco	LAN: 192.168.50.20	Exchange 2010 SP2 HUB / CAS / MBX / UM
Asterisk	2 GB RAM 2 vCPU 40 GB Disco	LAN: 192.168.50.220	Asterisk 1.8 PBX
TMG01	2 GB RAM 2 vCPU 40 GB Disco	LAN: 192.168.50.100 DMZ: 10.1.0.1 WAN: 192.168.199.20/23	Firewall DNS Publico
Win7	2 GB RAM 2 vCPU 127 GB Disco	LAN: 192.168.50.201	Cliente Lync en Dominio
Win7ED	2 GB RAM 2 vCPU 127 Gb Disco	DMZ: 10.1.0.10	Cliente Lync en Workgroup

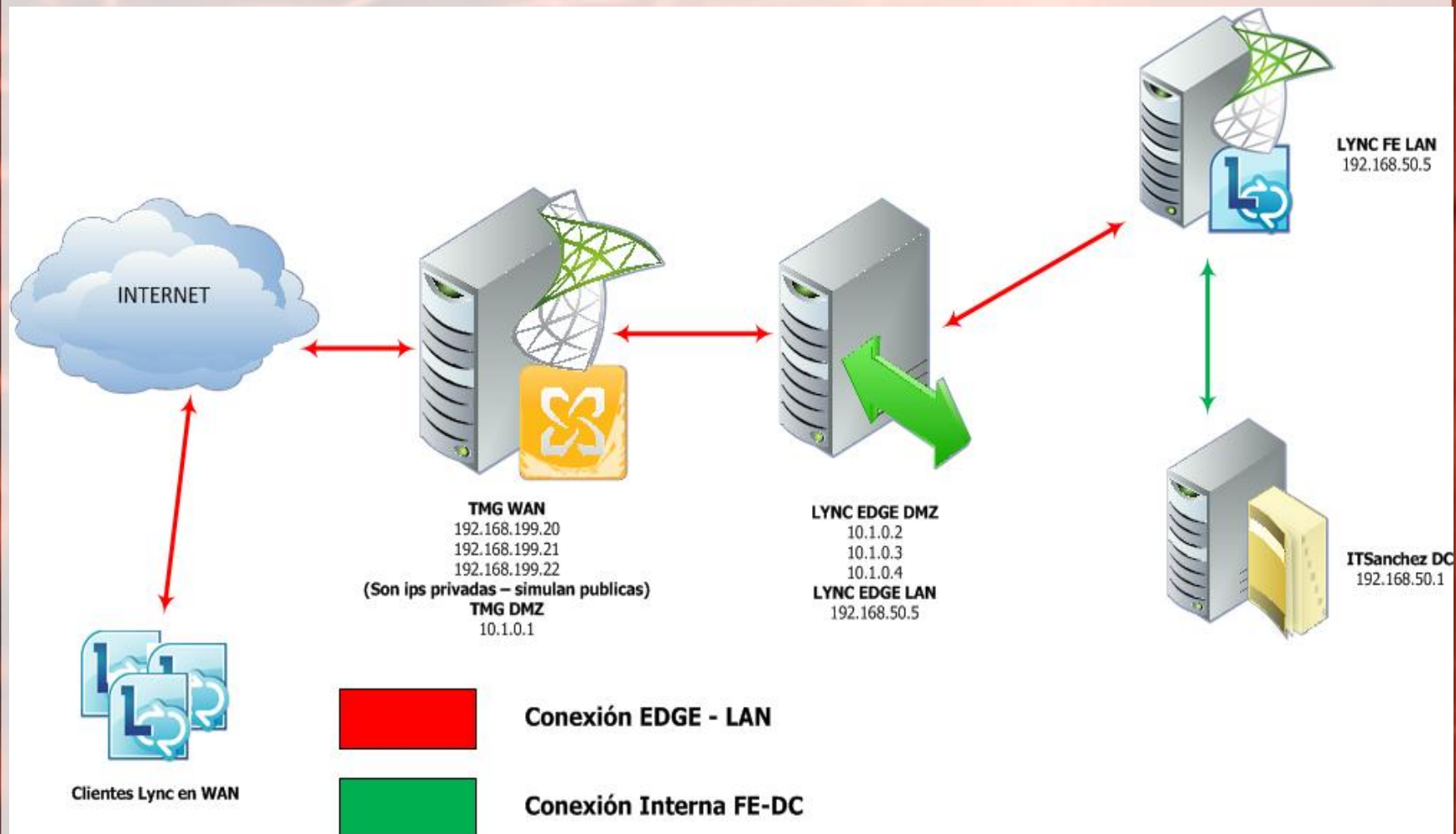
Nota: En el laboratorio todos los discos son de espacio dinámico (crece en funcion de la necesidad)



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Esquema Funcional de la instalación

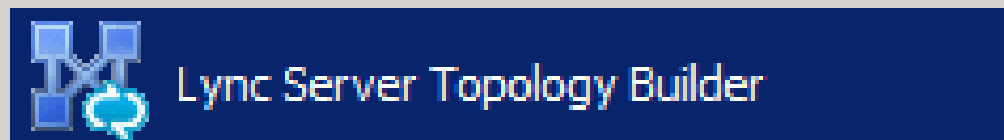




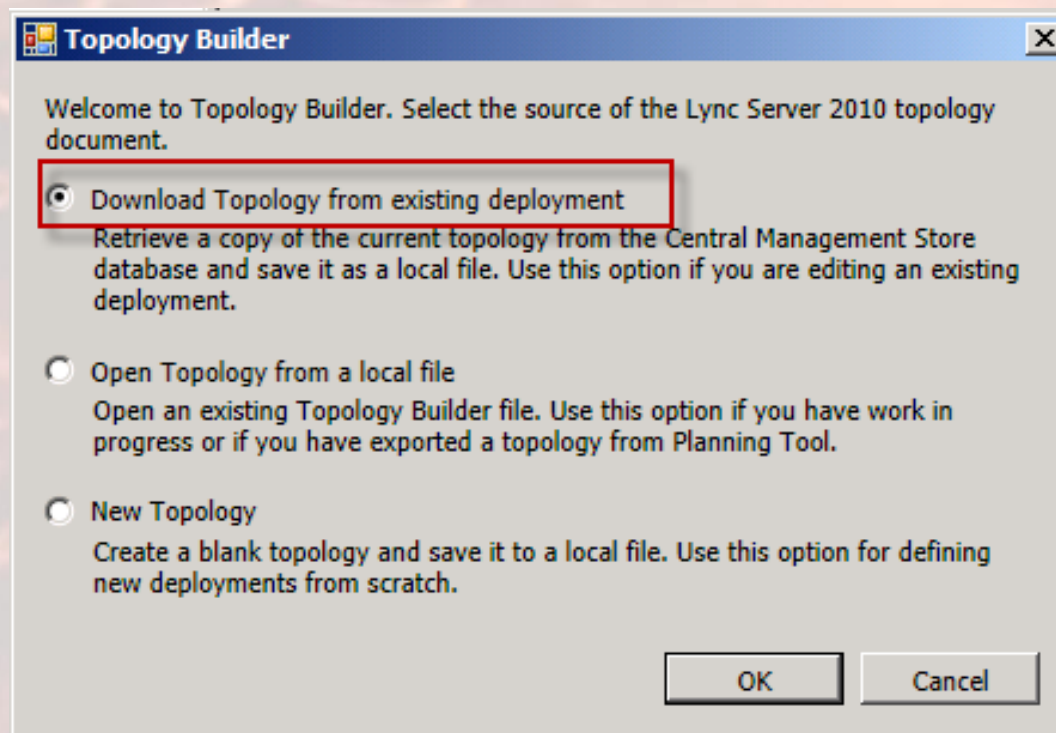
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En el FE de Lync abrimos -> **Lync Server Topology Builder**



Seleccionamos -> **Download Topology from existing deployment -> Ok**

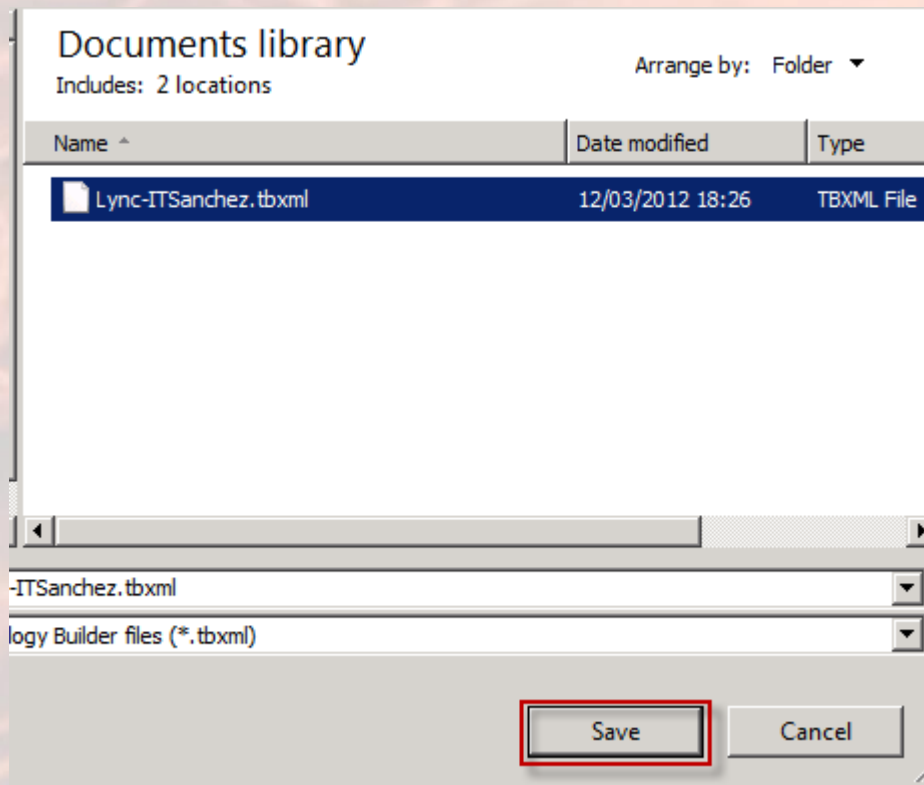




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Seleccionamos donde descargar el archivo -> **Save**



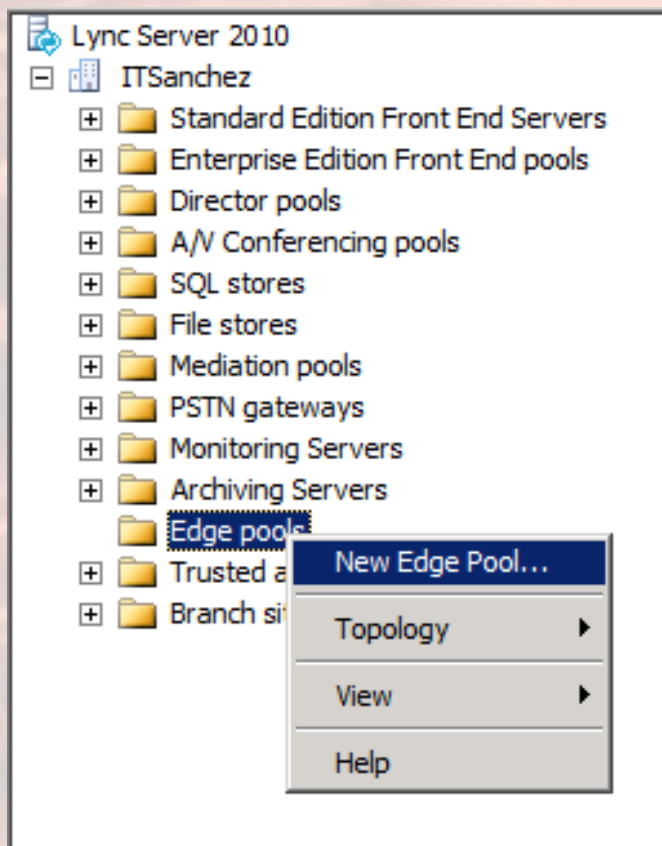
Seleccionamos donde descargar el archivo -> **Save**



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Seleccionamos -> **New Edge Pool...**






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Seleccionamos -> Next

Define New Edge Pool [X]

 **Define the New Edge Pool**

Specify Edge pool configuration and supported services.

Before you begin, ensure that you have made the following decisions and have the necessary information:

- How much scalability do you need? Will this be a single-server or multi-server pool?
- Do you want to use the same or different FQDNs and IP addresses for the SIP Access, Web conferencing, and A/V Edge services?
- Will this Edge pool be used for federation?
- Fully qualified domain names
- Ports for the pool and IP addresses, both internal and external, for the servers

When you are ready to proceed, click Next.

Help Back **Next** Cancel




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Completamos los datos del pool -> **Next**

Define New Edge Pool [X]

 **Define the Edge pool FQDN**

Define the fully qualified domain name (FQDN) for the Edge pool, and indicate whether this should be a single computer or multi-computer pool.

FQDN: *

Multiple computer pool
Select this option if you want this pool to support load balancing and high availability.

Single computer pool
Select this option if you have a small deployment and you do not need load balancing or high availability.




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Completamos con los siguientes datos -> **Next**

Define New Edge Pool [X]

 **Select features**

Select the features of this Edge pool.

- Use a single FQDN & IP Address.
Choose this option if you would like the SIP Access, Web Conferencing, and A/V Edge services to share a single FQDN and IP address. Note: The combination of IP address and port number for each Edge service must be unique.
- Enable federation (port 5061).
If you want users to communicate with trusted partners, you must enable federation.
- The external IP address of this Edge pool is translated by NAT.
If the external IP address of this pool is translated by NAT, we will ask for the NAT IP Address later.

Help Back **Next** Cancel




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Completamos los FQDNs públicos (necesitamos 3 ips Publicas) -> **Next**

Define New Edge Pool [X]

 **External FQDNs**

Specify the external FQDNs and ports for the SIP Access, Web Conferencing, and A/V Edge services. Note: The combination of IP address and port number for each Edge service must be unique.

External FQDNs	Ports
SIP Access: *	
<input type="text" value="edge.itsanchez.com.ar"/>	<input type="text" value="443"/>
Web Conferencing: *	
<input type="text" value="webconf.itsanchez.com.ar"/>	<input type="text" value="443"/>
Audio/Video: *	
<input type="text" value="av.itsanchez.com.ar"/>	<input type="text" value="443"/>




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Completamos la ip de LAN de EDGE -> Next

Define New Edge Pool ✕

 **Define the internal IP address**

Specify the internal IP address for the computer.

Internal IP address: *

Help Back **Next** Cancel




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Configuramos las IPs en DMZ -> Next

Define New Edge Pool [X]

 **Define the external IP address**

Specify the external IP addresses for SIP Access, Web Conferencing, and A/V Conferencing.

External IP addresses:

SIP Access: *

Web Conferencing: *

A/V Conferencing: *




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Esquema Funcional de la instalación

Define New Edge Pool

 **Define the public IP address**

Because the external IP address of this Edge pool is translated by NAT, please specify the public IP address that is used by the NAT.

Public IP address: *

Help Back **Next** Cancel

Nota: Ips Privada para el laboratorio en producción deben ser IP Publica




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Seleccionamos -> **Next**

Define New Edge Pool [X]

 **Define the next hop**

Select the Front End pool or Director that will be used as the next hop for the Edge pool.

Next hop pool:




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Seleccionamos el pool -> **Finish**

Define New Edge Pool [X]

 **Associate Front End pools**

Select the Pool that will use this Edge pool for external media traffic. Selecting a pool which is already associated with another Edge will change the association. This setting does not affect site-level federation settings.

Select the pools to associate with this Edge pool:

	Pool FQDN	Pool Type	Site	Associated Edge Pool
<input checked="" type="checkbox"/>	lyfe01.itsanchez.locz	Front End	ITSanchez	Not Associated

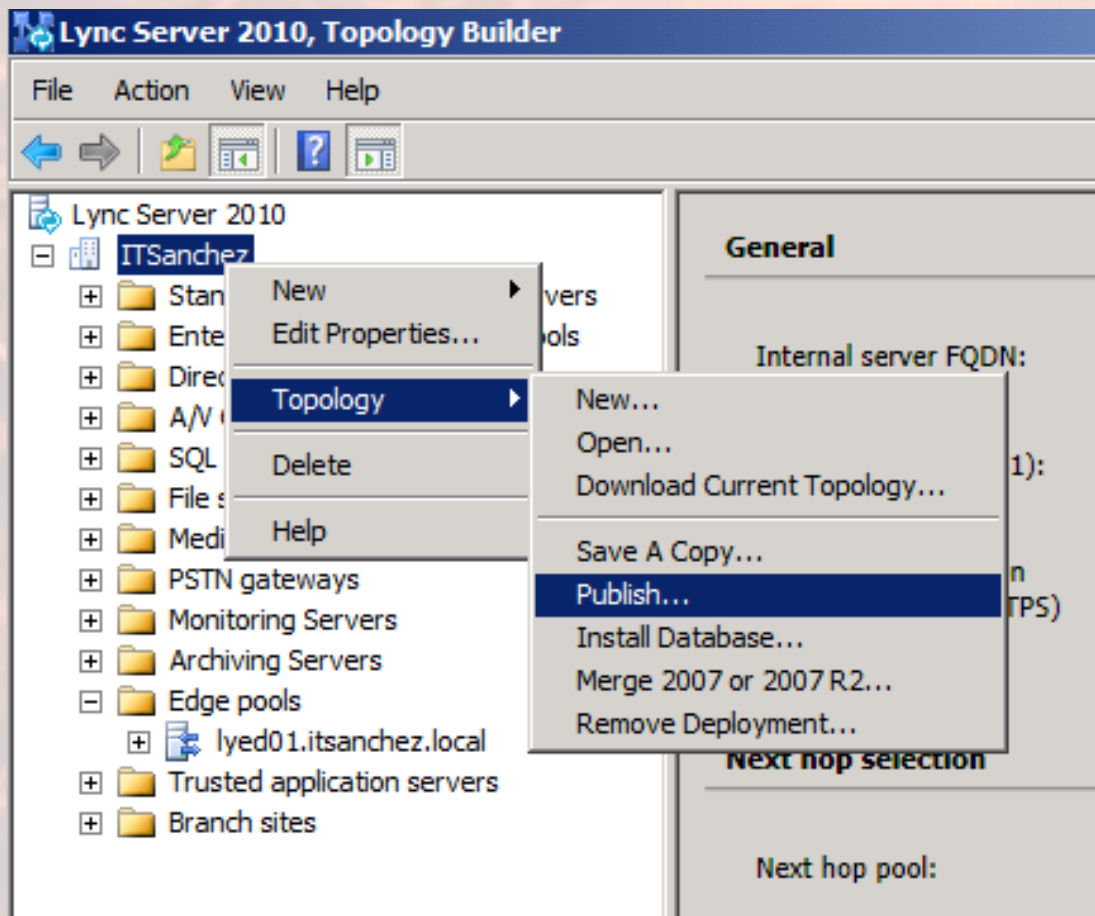
Buttons: Help, Back, **Finish**, Cancel



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Sobre nuestra Organización -> **Topology** -> **Publish**





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Seleccionamos -> Next

Publish Topology

Publish the topology

In order for Lync Server 2010 to correctly route messages in your deployment, you must publish your topology. Before you publish the topology, ensure that the following tasks have been completed:

- A validation check on the root node did not return any errors.
- A file share has been created for all file stores that you have configured in this topology.
- All simple URLs have been defined.
- For Enterprise Edition Front End pools and for Monitoring Servers and Archiving Servers: All SQL stores are installed and accessible remotely; firewall exceptions for remote access to SQL Server are configured.
- For a single Standard Edition server: The task "Prepare first Standard Edition server" was run.
- You are currently logged on as a SQL administrator, for example, as a member of the SQL sysadmin role.
- If you are removing a Front End pool, all users, common area phones, analog devices, application contact objects, and conference directories have been removed from the pool.

When you are ready to proceed, click Next.

Help

Back

Next

Cancel



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Seleccionamos -> **Finish**

Publish Topology

Publishing wizard complete

Your topology was successfully published.

	Step	Status
✓	Publishing topology ...	Success
✓	Downloading topology ...	Success
✓	Downloading global simple URL settings.	Success
✓	Enabling topology...	Success

[View Logs](#)

Next steps:
→ [Click here to open to-do list](#)
In order for Lync Server 2010 to correctly route traffic, your deployment must match the published topology. The linked text file contains a list of any servers that need to be updated, as well as any databases that need to be created.

To close the wizard, click Finish.

[Help](#) [Back](#) **[Finish](#)** [Cancel](#)



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Desde el panel de control de Lync (Lync Server Control Panel)
External User Access -> Global -> Show Details...

Microsoft Lync Server 2010

External Access Policy | Access Edge Configuration | Federated Domains | Provider

Home | Users | Topology | IM and Presence | Voice Routing | Voice Features | Response Groups | Conferencing | Clients | **External User Access**

+ New | Edit | Refresh

Name	Scope	Federated user access	Remote user access	Public
Global	Global			

Context menu options: Show details..., Select all, Delete



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Habilitamos las siguientes funcionalidades -> **Commit**

Microsoft Lync Server 2010

External Access Policy | Access Edge Configuration | Federated Domains | Provider

Edit External Access Policy - Global

Commit **Cancel**

Scope: Global
Name: *
Global

Description:

- Enable communications with federated users
- Enable communications with remote users
- Enable communications with public users

Validamos que la configuración esta aplicada

Microsoft Lync Server 2010 Administrato

External Access Policy | Access Edge Configuration | Federated Domains | Provider

+ New Edit Refresh

Name	Scope	Federated user access	Remote user access	Public provider access
Global	Global	✓	✓	✓



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Desde el panel de control de Lync (Lync Server Control Panel)
External User Access -> Global -> Show Details...

Microsoft Lync Server 2010

External Access Policy | **Access Edge Configuration** | Federated Domains | Provider

Home | Users | Topology | IM and Presence | Voice Routing | Voice Features | Response Groups | Conferencing | Clients | **External User Access**

Search

Edit Refresh

	Scope	Federated user access	Remote user access
	Global		

Show details...
Select all
Delete



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Seleccionamos las siguientes opciones -> Commit

Microsoft Lync Server 2010

External Access Policy | **Access Edge Configuration** | Federated Domains | Provider

Home | Users | Topology | IM and Presence | Voice Routing | Voice Features | Response Groups | Conferencing | Clients | External User Access

Edit Access Edge Configuration

Commit **Cancel**

Scope: Global

- Enable federation
 - Enable partner domain discovery
 - Send archiving disclaimer to federated partners
- Enable remote user access
- Enable anonymous user access to conferences ?

Validamos que la configuración este aplicada

Microsoft Lync Server 2010

External Access Policy | **Access Edge Configuration** | Federated Domains | Provider

Home | Users | Topology | IM and Presence | Voice Routing | Voice Features | Response Groups

Admin: [Name]

Search: []

Edit Refresh

Name	Scope	Federated user access	Remote user access	Anonymous user access
Global	Global	✓	✓	✓



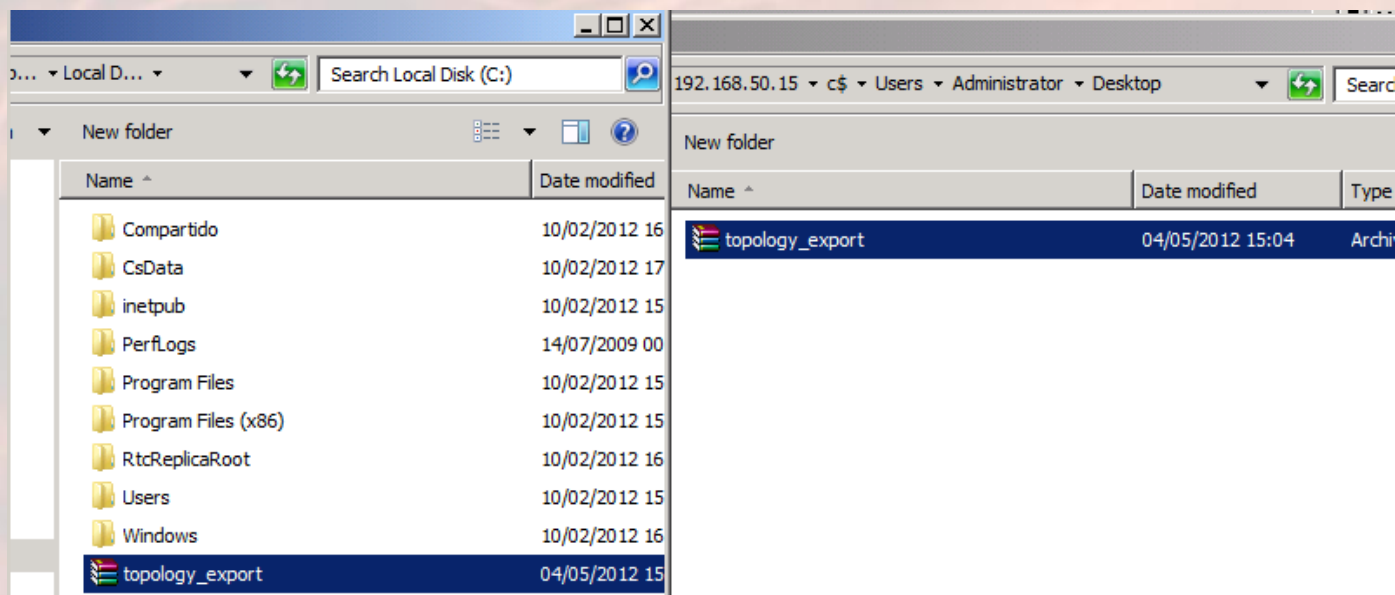
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Abrimos (Lync Server Management Shell) ejecutamos ->
Export-csconfiguration -filename c:\topology_export.zip

```
Administrator: Lync Server Management Shell
PS C:\Users\administrator.ITSANCHEZ> Export-csconfiguration -filename c:\topology_export.zip
PS C:\Users\administrator.ITSANCHEZ>
```

Copiamos el archivo c:\topology_export.zip al escritorio del usuario administrator en el servidor EDGE





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Validamos la configuracion de la interfase DMZ, 3 ips de DMZ el router es TMG 2010

The image shows two overlapping windows from Windows Firewall. The left window is titled "Internet Protocol Version 4 (TCP/IPv4) Properties" and is on the "General" tab. The right window is titled "Advanced TCP/IP Settings" and is on the "IP Settings" tab.

Internet Protocol Version 4 (TCP/IPv4) Properties - General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

Subnet mask:

Default gateway:

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Validate settings upon exit

Advanced...

OK Cancel

Windows Firewall

Advanced TCP/IP Settings - IP Settings

IP Settings | DNS | WINS

IP addresses

IP address	Subnet mask
10.1.0.2	255.255.0.0
10.1.0.3	255.255.0.0

Add... Edit... Remove

Default gateways:

Gateway	Metric
10.1.0.1	Automatic

Add... Edit... Remove

Automatic metric

Interface metric:

OK Cancel



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Desabilitamos Register DNS... en la solapa DNS

Advanced TCP/IP Settings [?] [X]

IP Settings | **DNS** | WINS

DNS server addresses, in order of use:

[Empty list box] [Up] [Down]

[Add...] [Edit...] [Remove]

The following three settings are applied to all connections with TCP/IP enabled. For resolution of unqualified names:

- Append primary and connection specific DNS suffixes
 - Append parent suffixes of the primary DNS suffix
- Append these DNS suffixes (in order):

[Empty list box] [Up] [Down]

[Add...] [Edit...] [Remove]

DNS suffix for this connection: [Empty text box]

Register this connection's addresses in DNS

Use this connection's DNS suffix in DNS registration

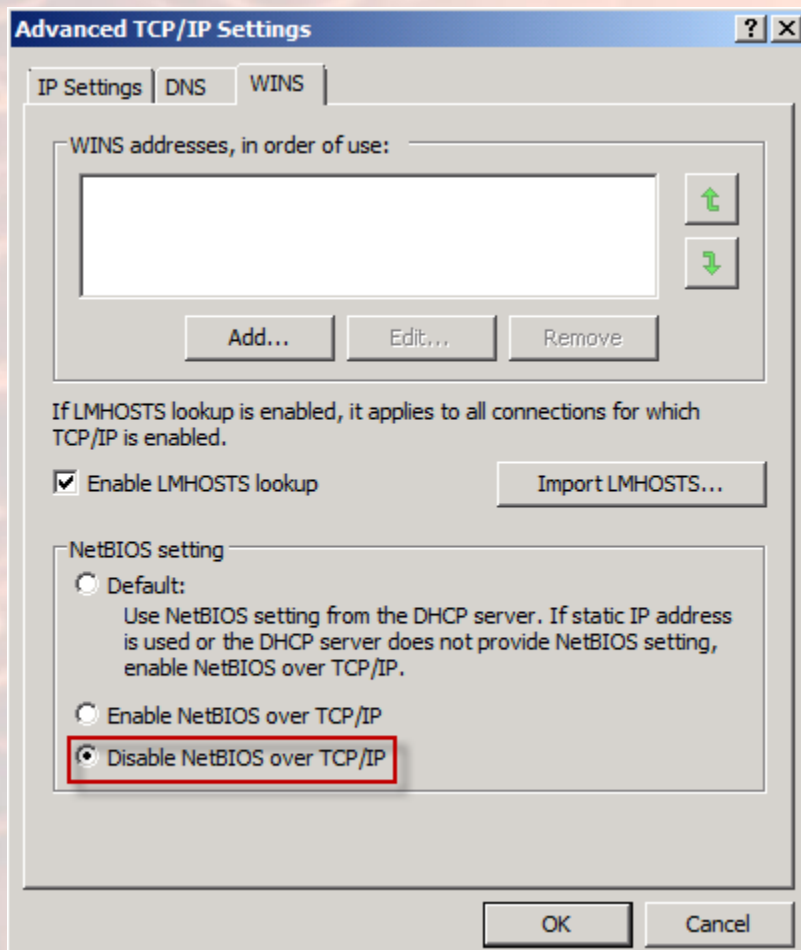
[OK] [Cancel]



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Deshabilitamos Netbios over TCP/IP





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Validamos la configuración el DNS es nuestro DC

Internet Protocol Version 4 (TCP/IPv4) Properties [?] [X]

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

Subnet mask:

Default gateway:

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Validate settings upon exit

Advanced...

OK Cancel



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En configuración de mi PC -> Change Settings

System

Processor: Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz 2.69 GHz
Installed memory (RAM): 2,00 GB
System type: 64-bit Operating System
Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name: LYED01
Full computer name: LYED01
Computer description:
Workgroup: WORKGROUP

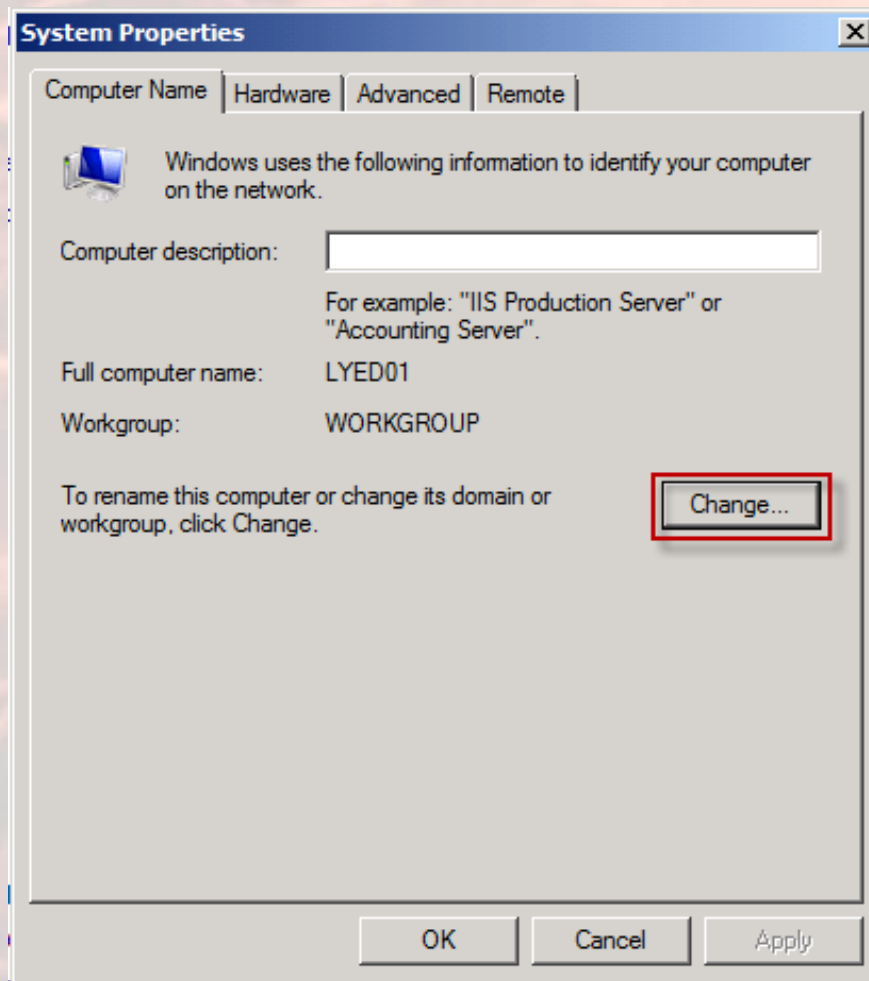
 [Change settings](#)



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En Computer Name -> **Change...**





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Seleccionamos -> Next

Computer Name/Domain Changes [X]

You can change the name and the membership of this computer. Changes might affect access to network resources.
[More information](#)

Computer name:
LYED01

Full computer name:
LYED01

More...

Member of

Domain:
[]

Workgroup:
WORKGROUP

OK Cancel



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Competamos el sufijo del domino (itsanchez.local)

DNS Suffix and NetBIOS Computer Name [X]

Primary DNS suffix of this computer:


Change primary DNS suffix when domain membership changes

NetBIOS computer name:

This name is used for interoperability with older computers and services.

Aceptamos y reiniciamos el equipo

Computer Name/Domain Changes

 **You must restart your computer to apply these changes**

Before restarting, save any open files and close all programs.



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En nuestro DNS agregamos un host A en **lyed01.itsanchez.local** a **192.168.50.15** en nuestro DC

New Host [X]

Name (uses parent domain name if blank):

Fully qualified domain name (FQDN):

IP address:

Create associated pointer (PTR) record

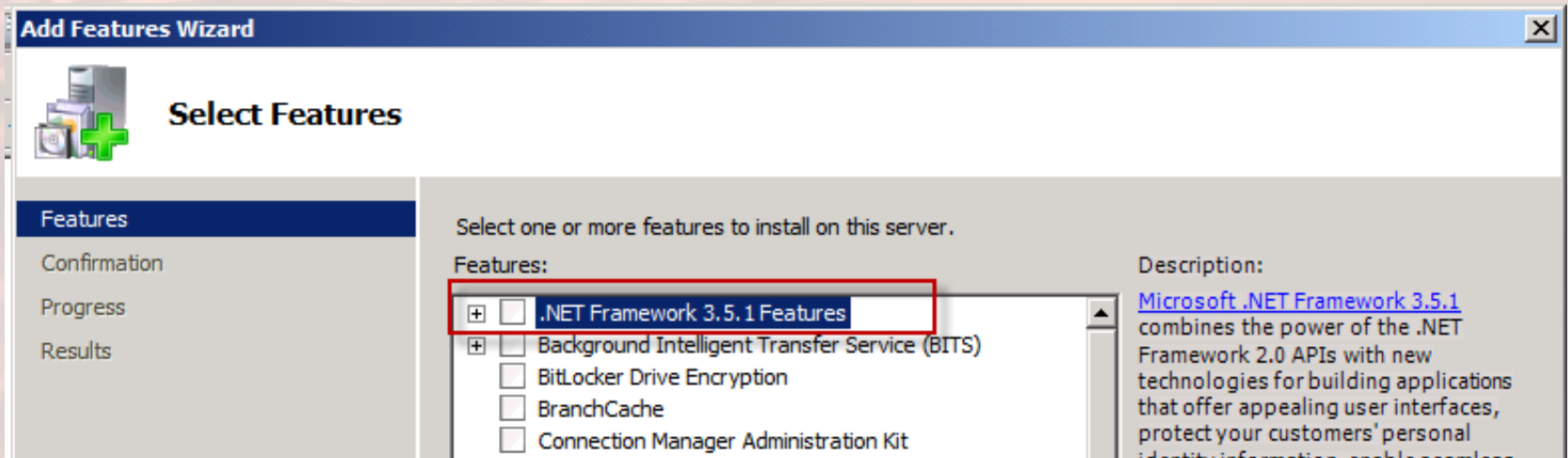
Allow any authenticated user to update DNS records with the same owner name



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En el equipo LYED01 instalamos framework 3.5.1 en Server Manager con los parámetros por defecto



Validamos que la instalación finalice con éxito

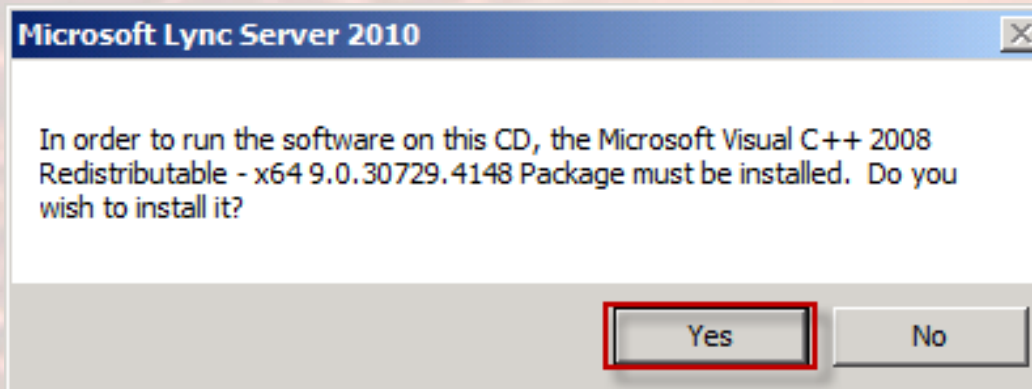




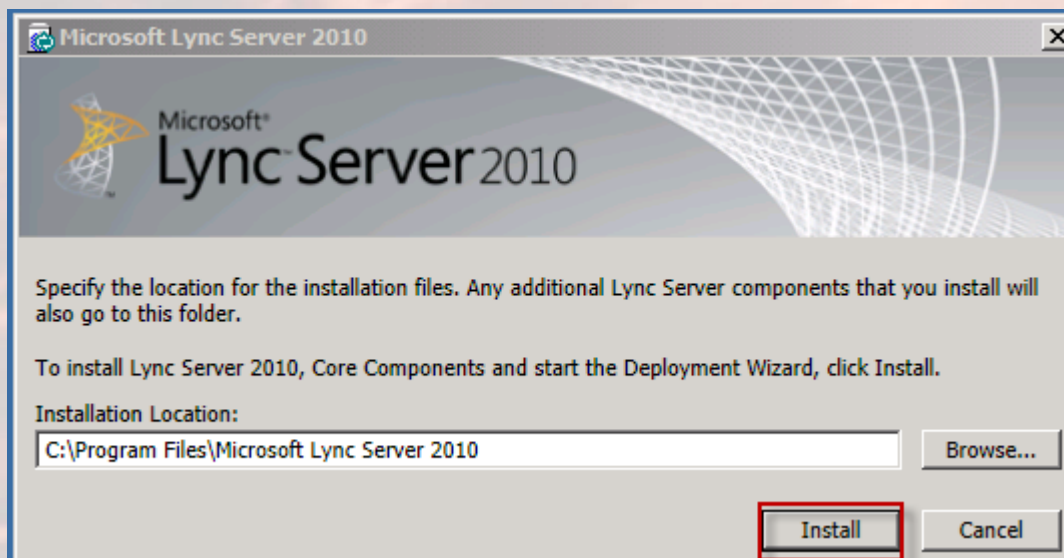
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Ejecutamos el instalador de Lync Server 2010 → **Yes**



Seleccionamos → **Install**

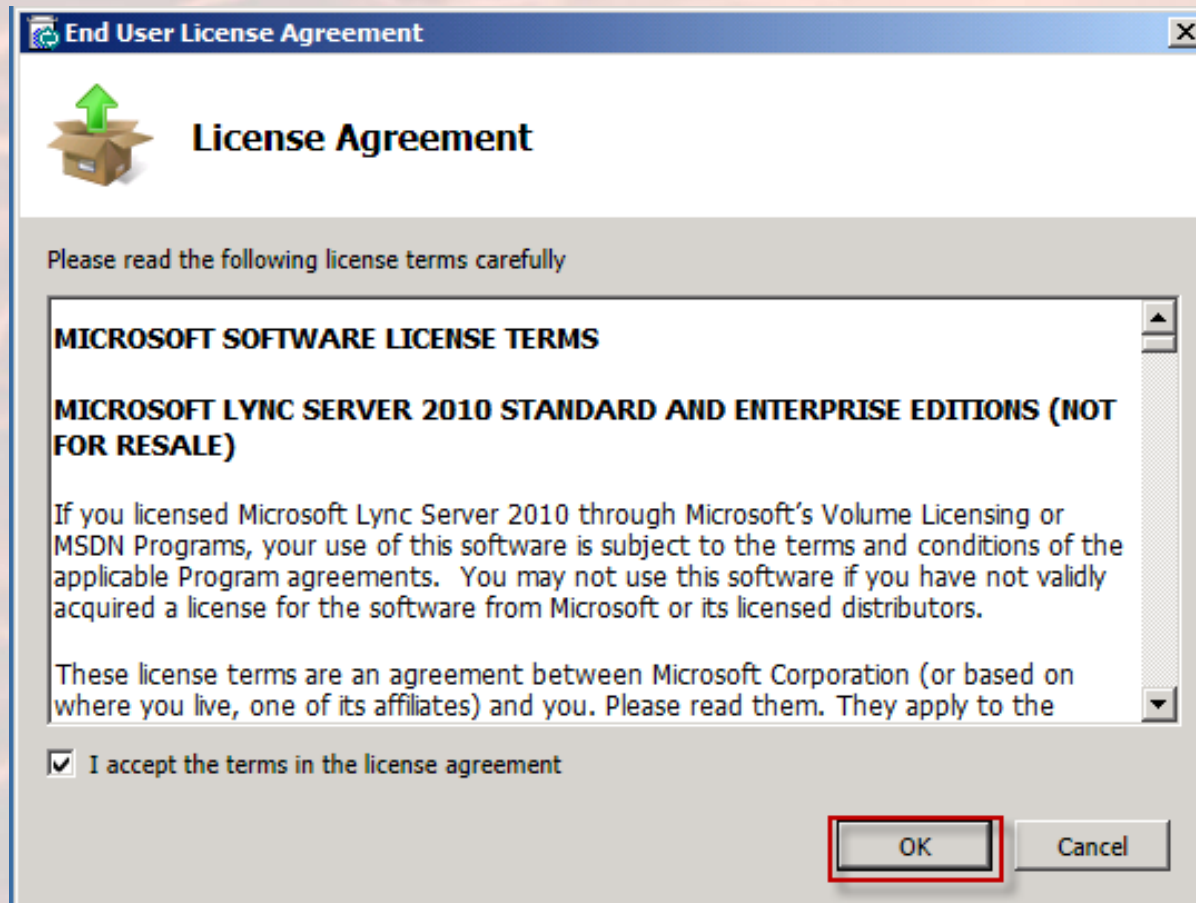




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Aceptamos la licencia -> **Ok**





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Seleccionamos -> **Install or Update Lync Server System**

Lync Server 2010
Welcome to Lync Server deployment.

Deploy

Prepare Active Directory
Prepares the Active Directory schema, forest, and domain for Lync Server.
[Help](#) ▶

Install or Update Lync Server System
Install or update a Lync Server Server deployment member system.
This option installs Lync Server core components, and a local replica configuration store.
Note: Before installing a server, you need to have a valid topology created and published.
[Help](#) ▶

Prepare first Standard Edition server
Prepares a single Standard Edition server to host Central Management Service.
Note: This task requires local administrator rights. This task does not apply to Standard Edition Servers that are not planned to host the Central Management Service, or for deployments that include Enterprise Edition.

Install Topology Builder
Installs the Topology Builder and Administrative Tools to the current system.
Your deployment requires at least one installation of the Topology Builder.

Deploy Monitoring Server Reports
Deploy Monitoring Server Reports to selected SQL Server Reporting Services (SSRS) instances.



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Seleccionamos -> **Install Local Configuration Store** -> **Run**

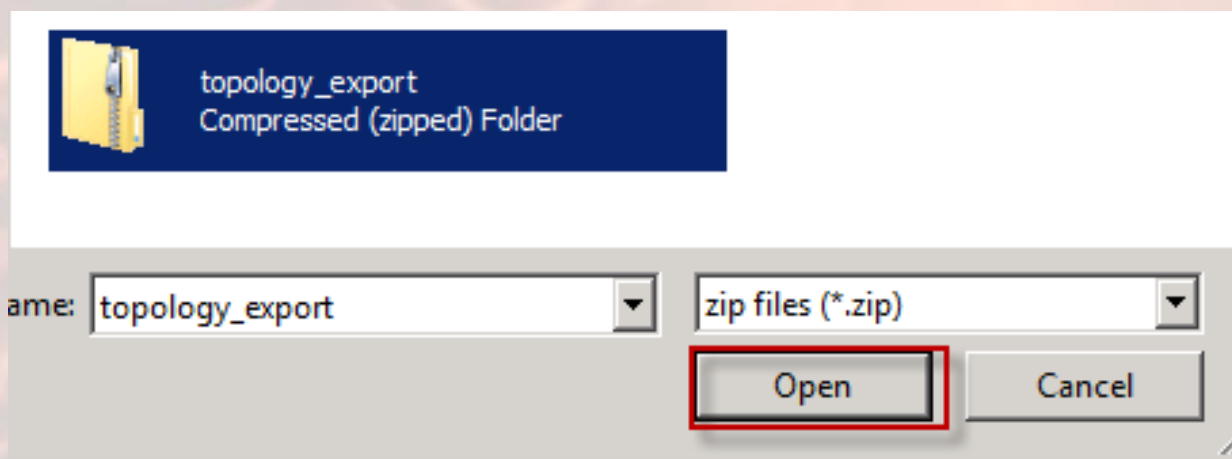
Seleccionamos -> **Browse**



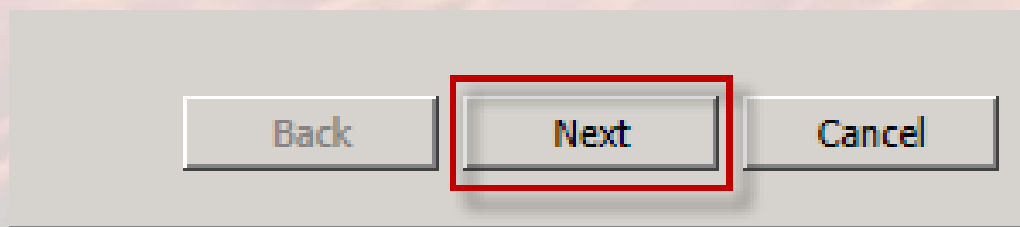
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Seleccionamos el archivo exportado en los pasos anteriores



Seleccionamos -> **Next**

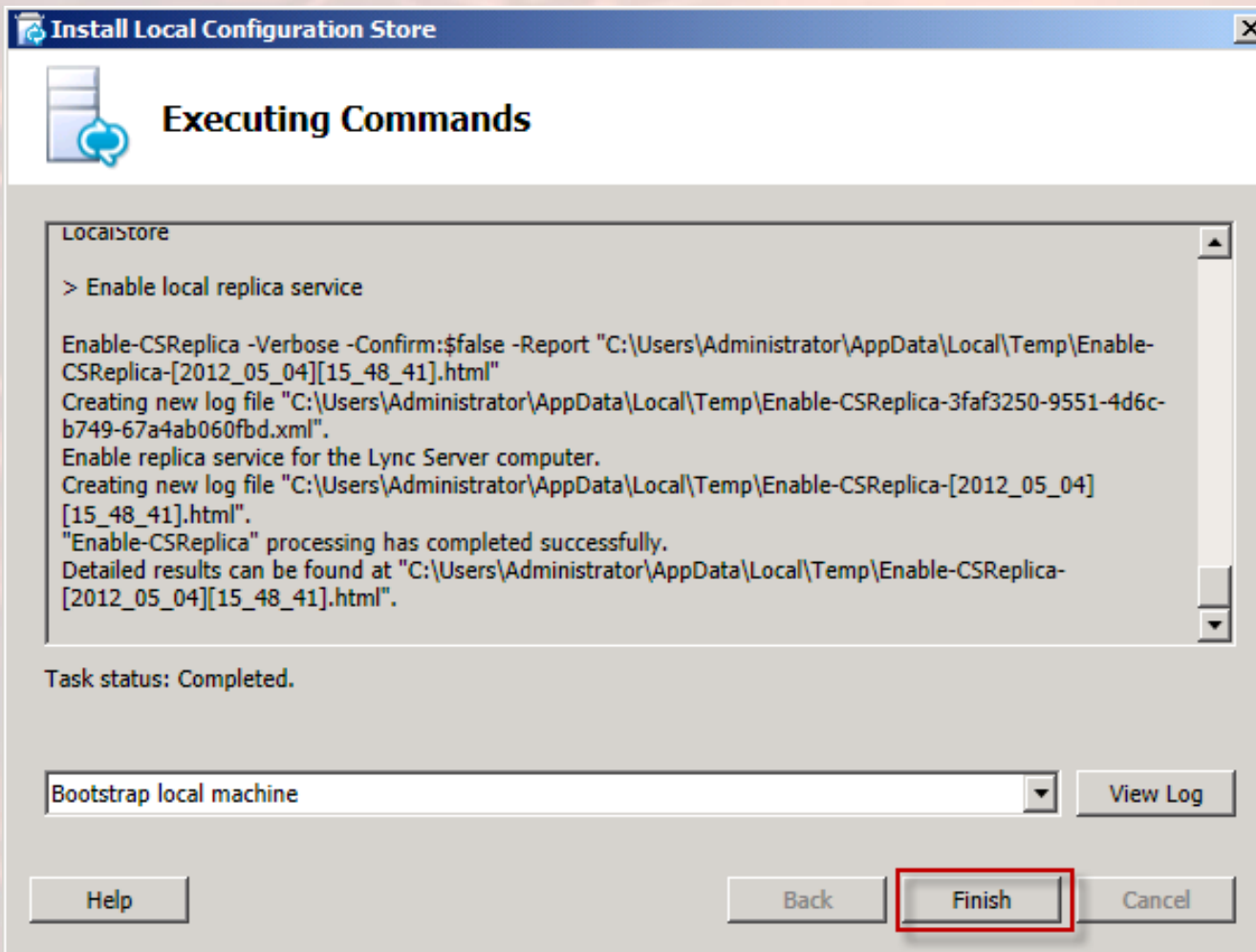




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Seleccionamos -> **Finish**





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Seleccionamos -> Setup or Remove Lync Server Component -> Run -> Next

Lync Server 2010
Welcome to Lync Server deployment.

[Deploy](#) > Lync Server 2010

Step 1: Install Local Configuration Store
Installs local configuration store and populates with data from Central Management Store.

[Prerequisites](#) ▶ ✔ Complete

[Help](#) ▶

Step 2: Setup or Remove Lync Server Components
Install and activate, or deactivate and uninstall Lync Server Components based on the topology definition.

[Prerequisites](#) ▶

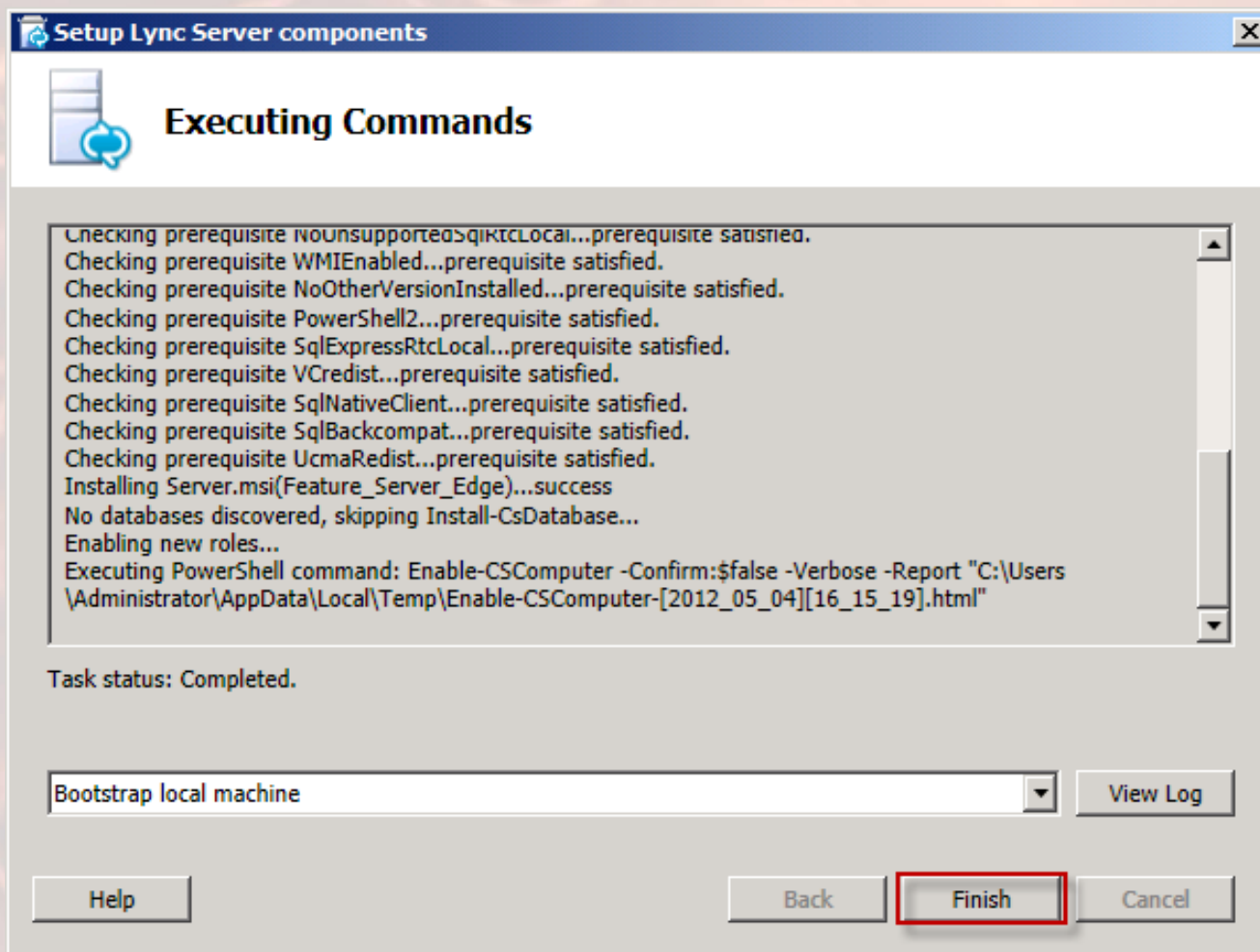
[Help](#) ▶



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Seleccionamos -> **Finish**





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Ya tenemos la instalación completa solo nos falta generar el certificado en el laboratorio lo vamos a hacer con una CA Interna en producción se debe comprar un certificado publico, importamos el certificado de nuestra root CA siguiendo este instructivo <http://bit.ly/x7DatO>

Seleccionamos → **Request, Install or Assing Certificates** -> **Run**

Lync Server 2010
Welcome to Lync Server deployment.

Deploy > Lync Server 2010

Step 1: Install Local Configuration Store
Installs local configuration store and populates with data from Central Management Store.
Prerequisites >
Help > ✓ Complete

Step 2: Setup or Remove Lync Server Components
Install and activate, or deactivate and uninstall Lync Server Components based on the topology definition.
Prerequisites >
Help > ✓ Complete

Step 3: Request, Install or Assign Certificates
This step starts the Certificate Wizard. Create certificate request for local system. Install, and assign certificates for this system based on the topology definition.
Prerequisites >
Help >



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Seleccionamos → Request

Certificate Wizard

Select a Lync Server Certificate Type and then select a task. Expand the Certificate Type to perform advanced certificate usage tasks.

Certificate	Status	Friendly Name	Expiration Date
▼ Edge internal	Unassigned		
▼ External Edge certificate (public i	Unassigned		

Request

Assign

Remove

View




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Seleccionamos -> Send the request ... -> Next

Certificate Request

 **Delayed or Immediate Requests**

Do you want to prepare a certificate request to be sent later, or do you want to send it now to an online certification authority?

Send the request immediately to an online certification authority

Prepare the request now, but send it later (offline certificate request)



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Completamos los datos de nuestra RootCA -> Next

Certificate Request

Choose a Certification Authority (CA)

Select a certification authority to process your request. The Certificates Wizard will automatically import the selected CA's certificate chain if necessary.

Select a CA from the list detected in your environment

Specify another certification authority

DC01.itsanchez.local\ITSanchez.com.ar RootCA

Help Back **Next** Cancel




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Seleccionamos el usuario que valida-> Next

Certificate Request

 **Certification Authority Account**

Specify alternate credentials for the certification authority

User Name:

Password:




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Seleccionamos -> Next

Certificate Request [X]

 **Specify Alternate Certificate Template**

By default a Lync Server certificate request will use the WebServer certificate template. Select the following check box in order to specify a different certificate template.

Use alternate certificate template for the selected certification authority

Certificate template name:

Note: The custom template must be installed on the certification authority, and must meet the requirements for Lync Server certificates. For details about custom certificate templates, see the product documentation.




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Seleccionamos -> Friendly Name-> Next

Certificate Request [X]

 **Name and Security Settings**

Type a name for the new certificate. The name should be easy for you to refer to and remember.

Note: The friendly name should not be confused with the Subject Name which will be determined automatically based on the certificate's usages on this machine.

Friendly Name:

Bit length:

Mark the certificate's private key as exportable



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Completamos los datos-> **Next**

Certificate Request [X]

Organization Information

Enter your organization's name and your organization unit. This is typically the legal name of your organization and the name of your division or department.

For further information, consult the certification authority's web site.

Organization:

Organizational Unit:

Help Back Next Cancel



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Completamos los datos -> -> **Next**

Certificate Request

Geographical Information

Country/Region:

State/Province:

City/Locality:

State/Province and City/Locality must be completed. Official names cannot contain abbreviations.




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Confirmamos -> Next

Certificate Request [X]

 **Subject Name / Subject Alternate Names**

The following will be automatically populated for the Subject Name and Subject Alternate Name (SAN)

Subject Name:

Subject Alternate Name:




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Seleccionamos -> Next

Certificate Request [X]

 **Configure Additional Subject Alternate Names**

Specify any additional Subject Alternate Names (SANs) to be added to the existing list of SANs.



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Seleccionamos -> Next

Certificate Request

Certificate Request Summary

To generate a request with the following information, click Next

Property	Value
Certificate Use	Edge internal
Country/Region	AR
State/Province	Buenos Aires
City/Locality	Ciudad Autonoma
Friendly Name	EDGE-Interno
Key Size	2048
Exportable	True
Organization	ITSanchez
Organizational Unit	Lync
Subject Name (SN)	lyed01.itsanchez.local
CA Account	ITSanchez\administrator

Help Back **Next** Cancel



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Seleccionamos -> Next

Certificate Request

Executing Commands

```
PrivatekeyExportable $true -Organization ITSanchez -OU Lync -CAAccount ITSanchez\administrator -
CAPassword "*****" -Verbose -Report "C:\Users\Administrator\AppData\Local\Temp\Request-CSCertificate-
[2012_05_04][16_37_18].html"
Creating new log file "C:\Users\Administrator\AppData\Local\Temp\Request-CSCertificate-
bde3e641-4845-4e51-97cc-271ada5aa5cc.xml".
Create a certificate request based on Lync Server configuration for this computer.
Issued thumbprint "3BAACD23D72E71D8721663D767DFD4FFC502D66E" for use "Internal" by
"DC01.itsanchez.local\ITSanchez.com.ar RootCA".
No changes were made to the Central Management Store.
Creating new log file "C:\Users\Administrator\AppData\Local\Temp\Request-CSCertificate-[2012_05_04]
[16_37_18].html".
"Request-CSCertificate" processing has completed successfully.
Detailed results can be found at "C:\Users\Administrator\AppData\Local\Temp\Request-CSCertificate-
[2012_05_04][16_37_18].html".
```

Task status: Completed.

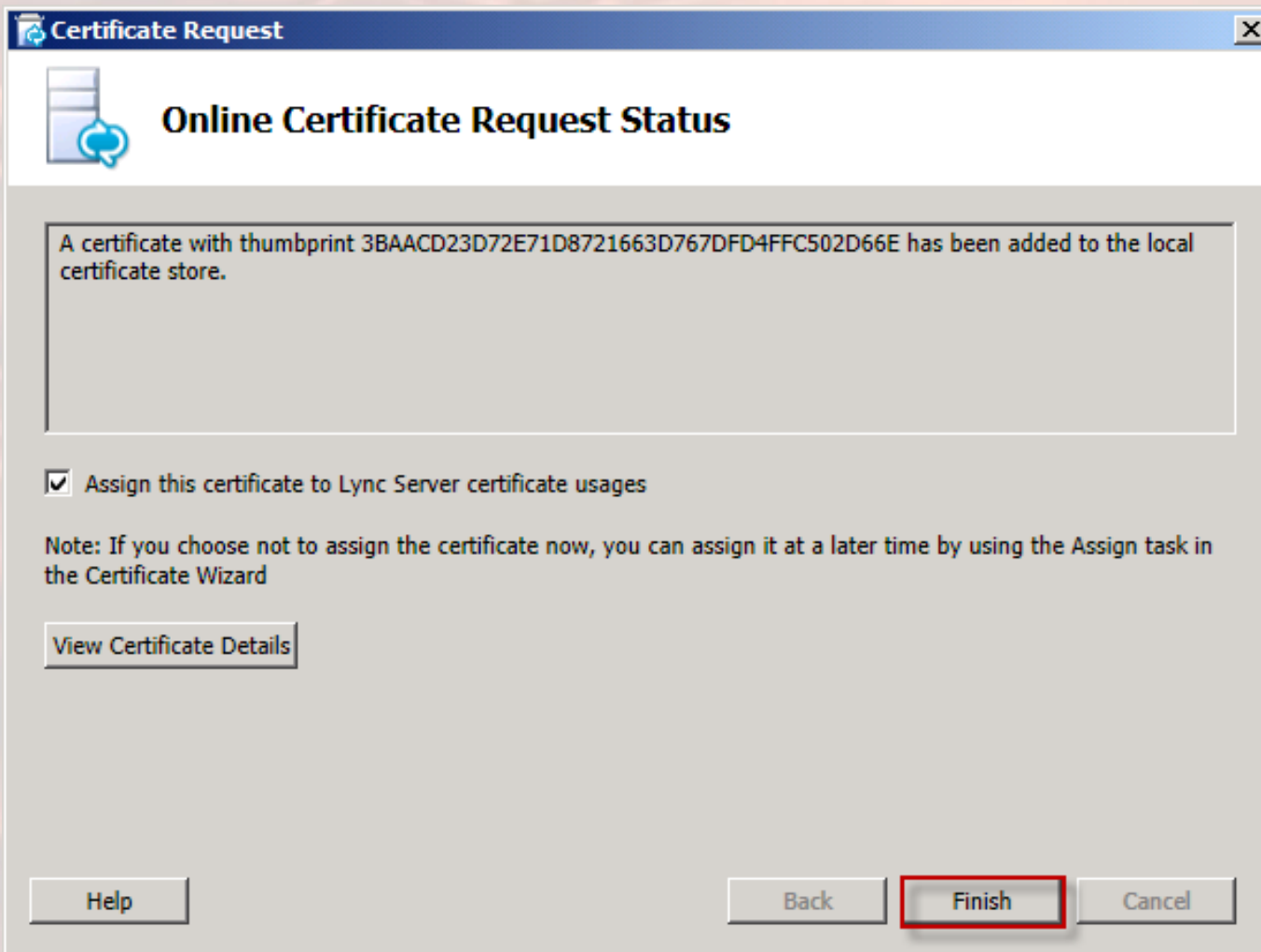
Request Certificate



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Seleccionamos -> **Finish**

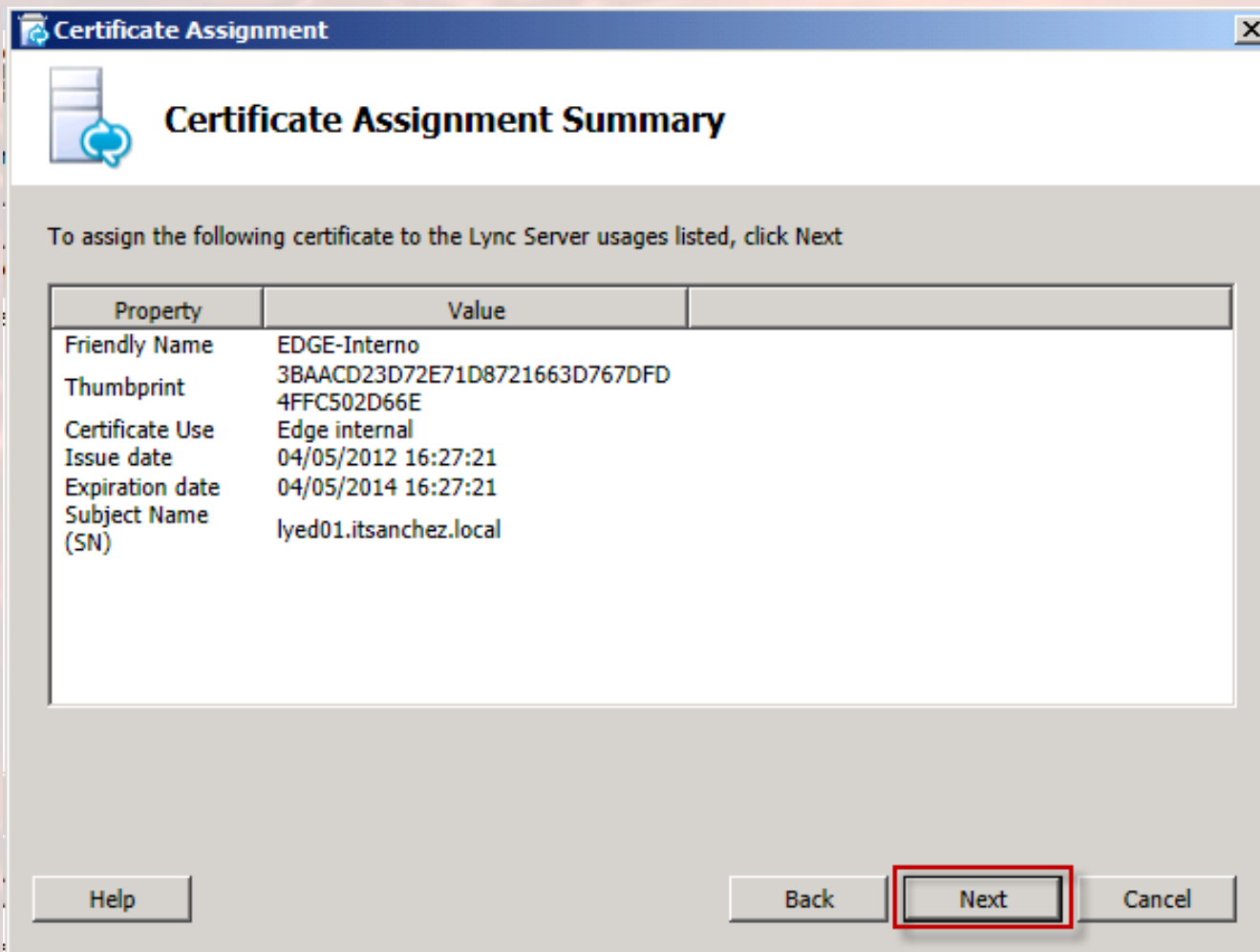




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Seleccionamos -> **Next**

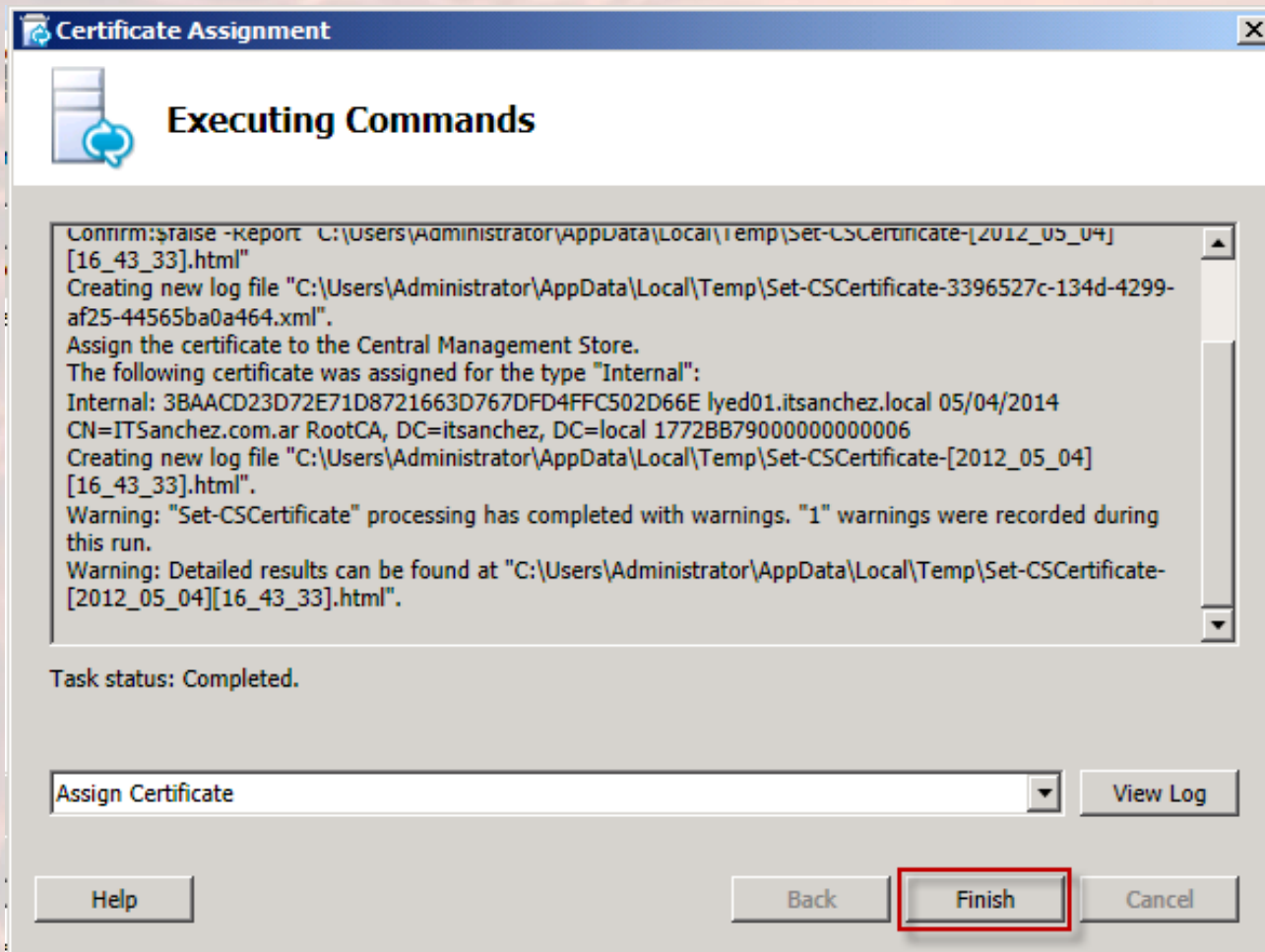




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Seleccionamos -> **Finish**





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Seleccionamos -> Request

Select a Lync Server Certificate Type and then select a task. Expand the Certificate Type to perform advanced certificate usage tasks.

Certificate	Status	Friendly Name	Expiration Date
▼ Edge internal	Assigned	EDGE-Interno	04/05/2014 16:27:21
▼ External Edge certificate (public i	Unassigned		

Request
Assign
Remove
View

Repetimos los mismos pasos para generar el certificado interno validando que tenga la siguiente configuración específica




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Subjet predeterminados

Certificate Request [X]

 **Subject Name / Subject Alternate Names**

The following will be automatically populated for the Subject Name and Subject Alternate Name (SAN)

Subject Name:

Subject Alternate Name:




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Agregamos av.itsanchez.com.ar

Certificate Request [X]

 **Configure Additional Subject Alternate Names**

Specify any additional Subject Alternate Names (SANs) to be added to the existing list of SANs.

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Add
Remove
Clear All

Help Back Next Cancel



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Validamos que los certificados están asignados

Certificate Wizard [X]

Select a Lync Server Certificate Type and then select a task. Expand the Certificate Type to perform advanced certificate usage tasks.

Certificate	Status	Friendly Name	Expiration Date
▼ Edge internal	Assigned	EDGE-Interno	04/05/2014 16:27:21
▼ External Edge certificate (public i	Assigned	EDGE-Externo	04/05/2014 16:38:30

Request
Assign
Remove
View






Ejecutamos -> **Start Services** -> **Run**



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Validamos que todos los servicios están activos en los servicios de Windows (**Services.msc**)

 Lync Server Access Edge	Lync Serve...	Started	Automa
 Lync Server Audio/Video Authentication	Lync Serve...	Started	Automa
 Lync Server Audio/Video Edge	Lync Serve...	Started	Automa
 Lync Server Replica Replicator Agent	Lync Serve...	Started	Automa
 Lync Server Web Conferencing Edge	Lync Serve...	Started	Automa

El próximo paso para terminar nuestra instalación la publicación de nuestro servidor EDGE en DMZ con Microsoft TMG 2010 o el firewall que utilicemos.

Espero les sea de utilidad!!

Saludos

Guillermo Sanchez

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