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 / Enteprise (VMs)
  - Lync Server 2010

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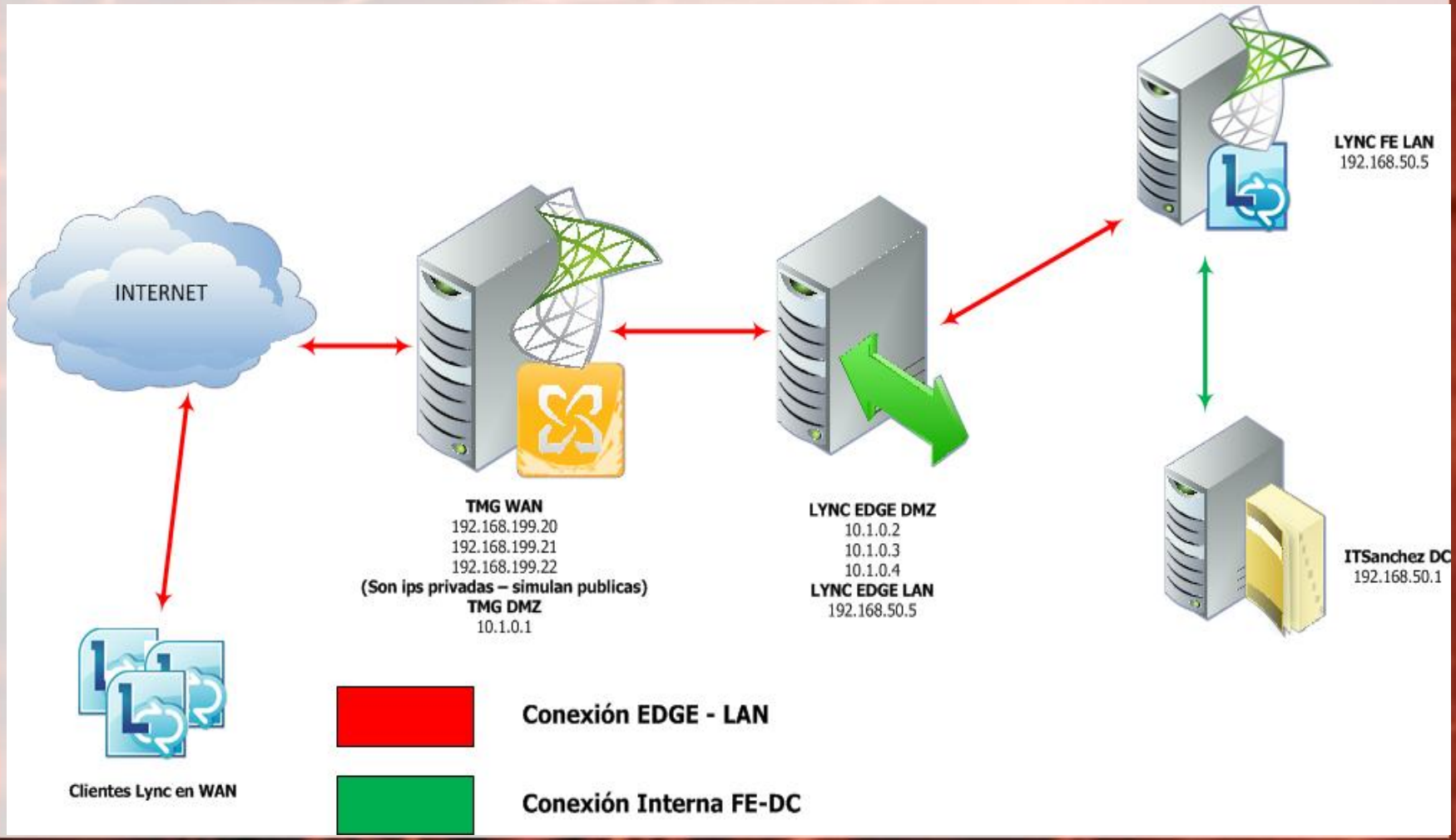
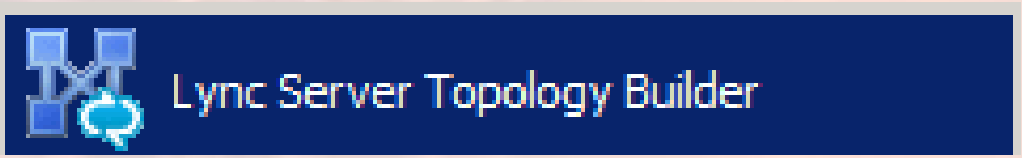
Nombre	Hardware Virtual	Redes	Roles
DC01	512 MB RAM 2 vCPU 40 GB Disco	LAN: 192.168.50.1	Domain Controler RootCA / DNS
LYFE01	2 GB RAM 2 vCPU 127 GB Disco	LAN: 192.168.50.5	Front End / Backend Mediation Server
LYED01	2 GB RAM 2 vCPU 127 GB Disco	LAN: 192.168.50.15 DMZ: 10.1.0.2 DMZ: 10.1.0.3 DMZ: 10.1.0.4	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 funciona de la necesidad)			

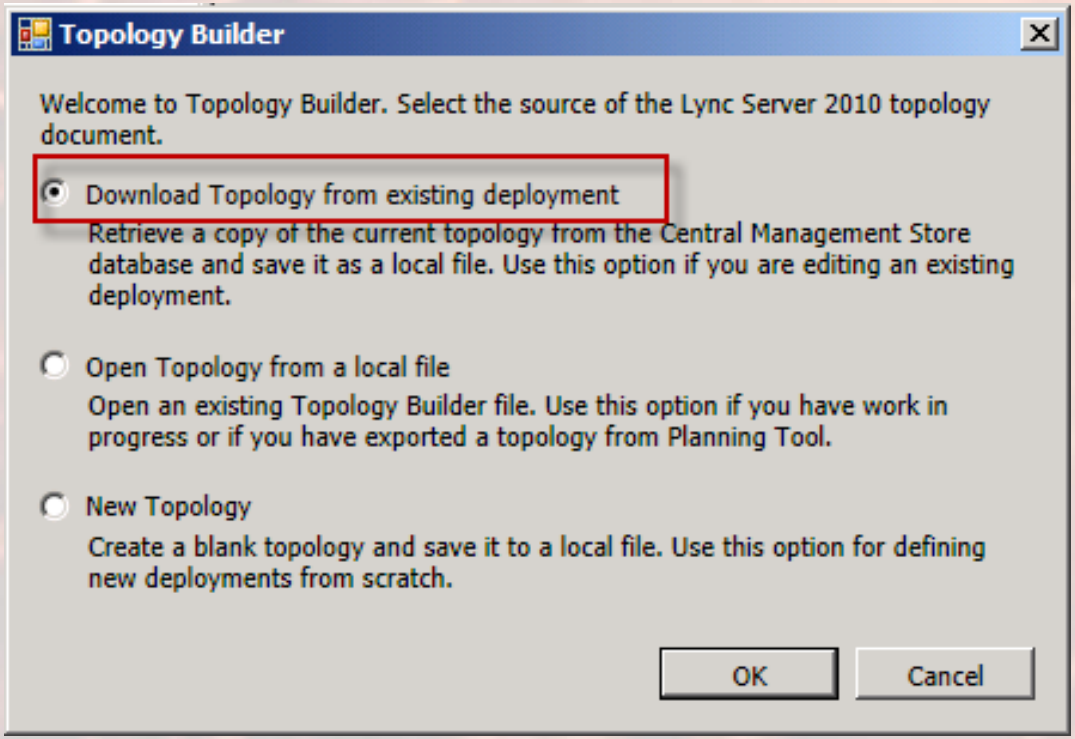
Esquema Funcional de la instalación



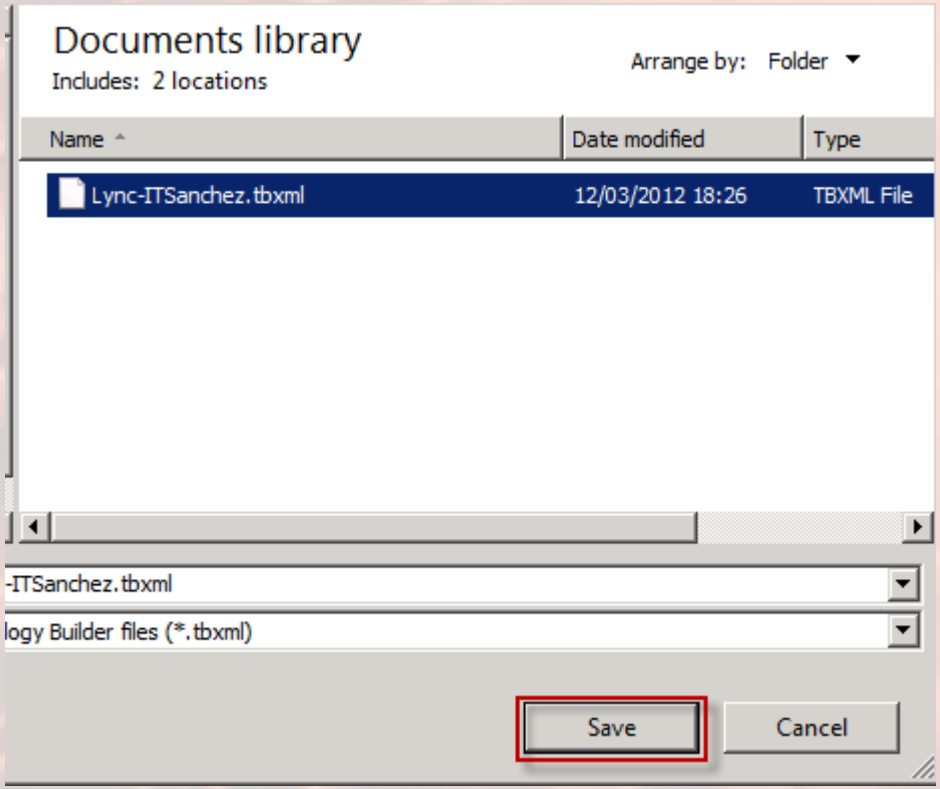
En el FE de Lync abrimos -> **Lync Server Topology Builder**



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

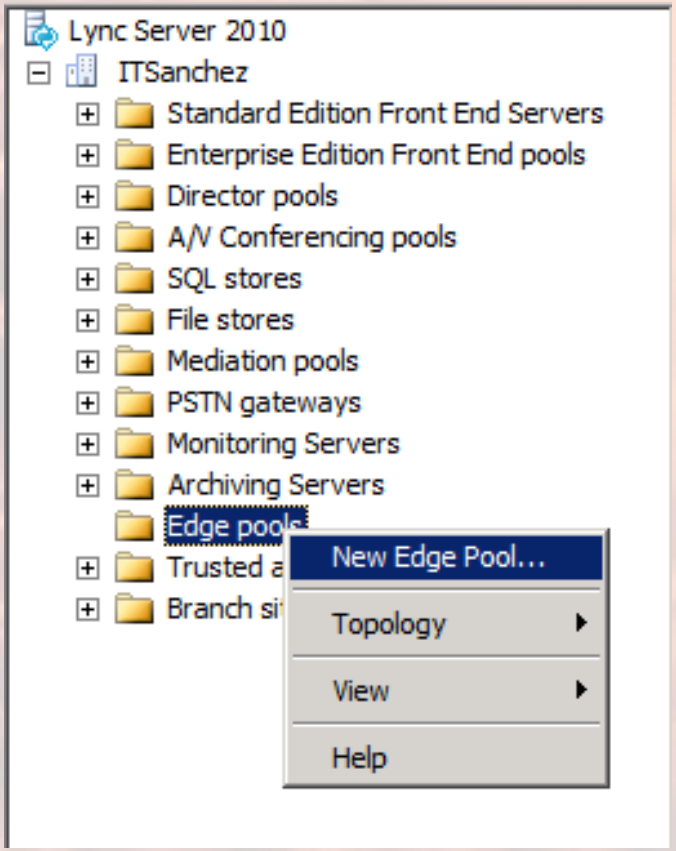


Seleccionamos donde descargar el archivo -> **Save**

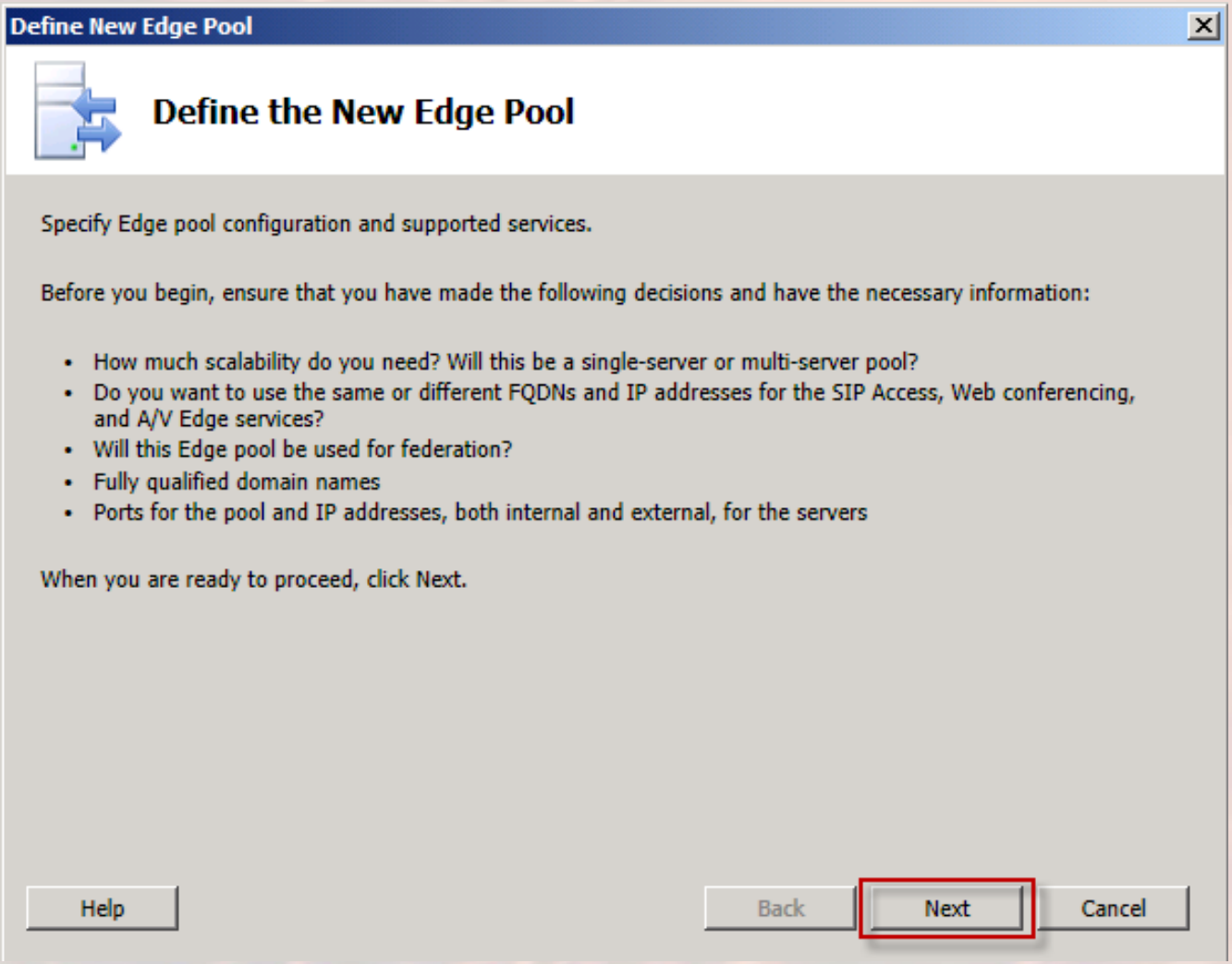


Seleccionamos donde descargar el archivo -> **Save**

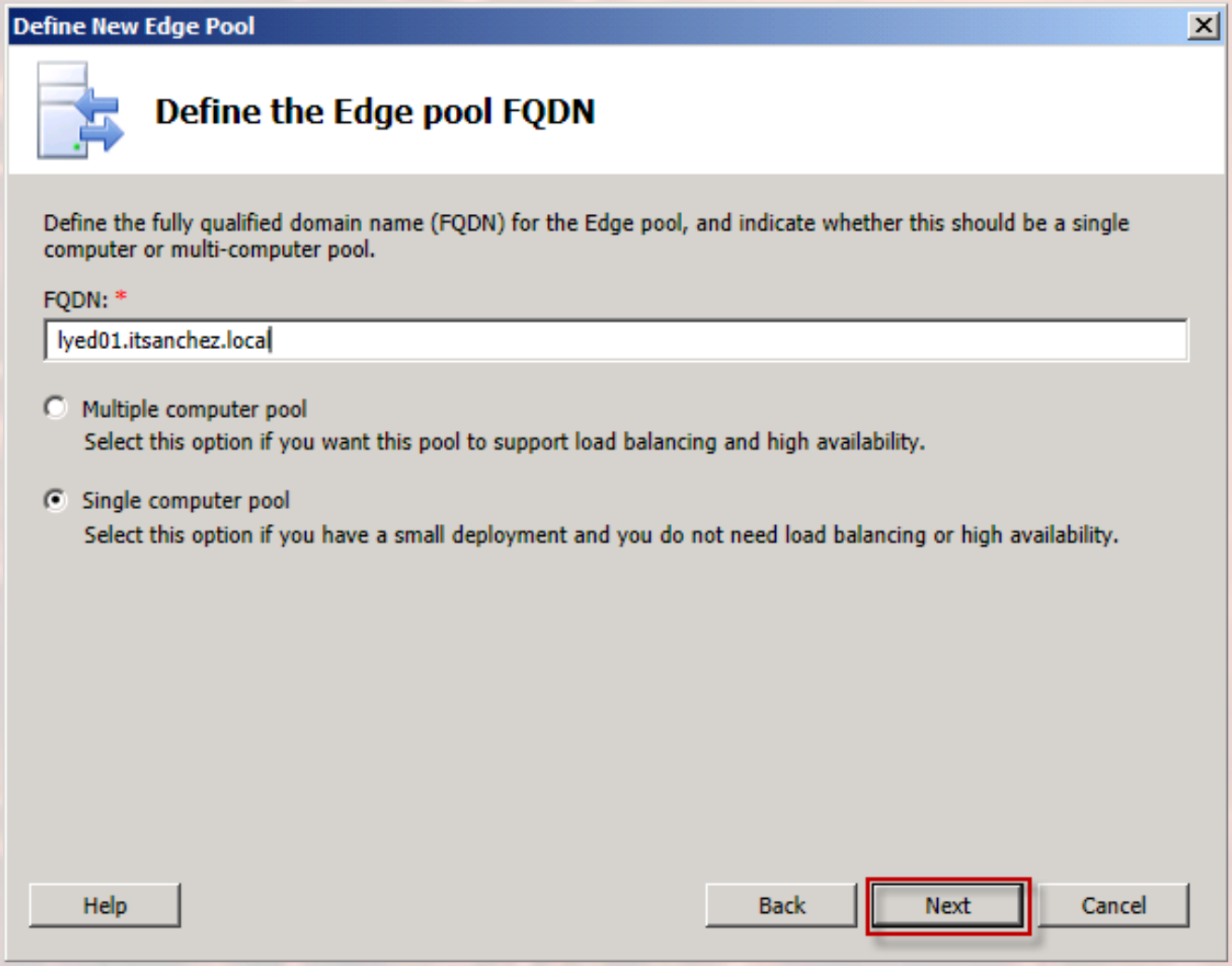
Seleccionamos -> **New Edge Pool…**



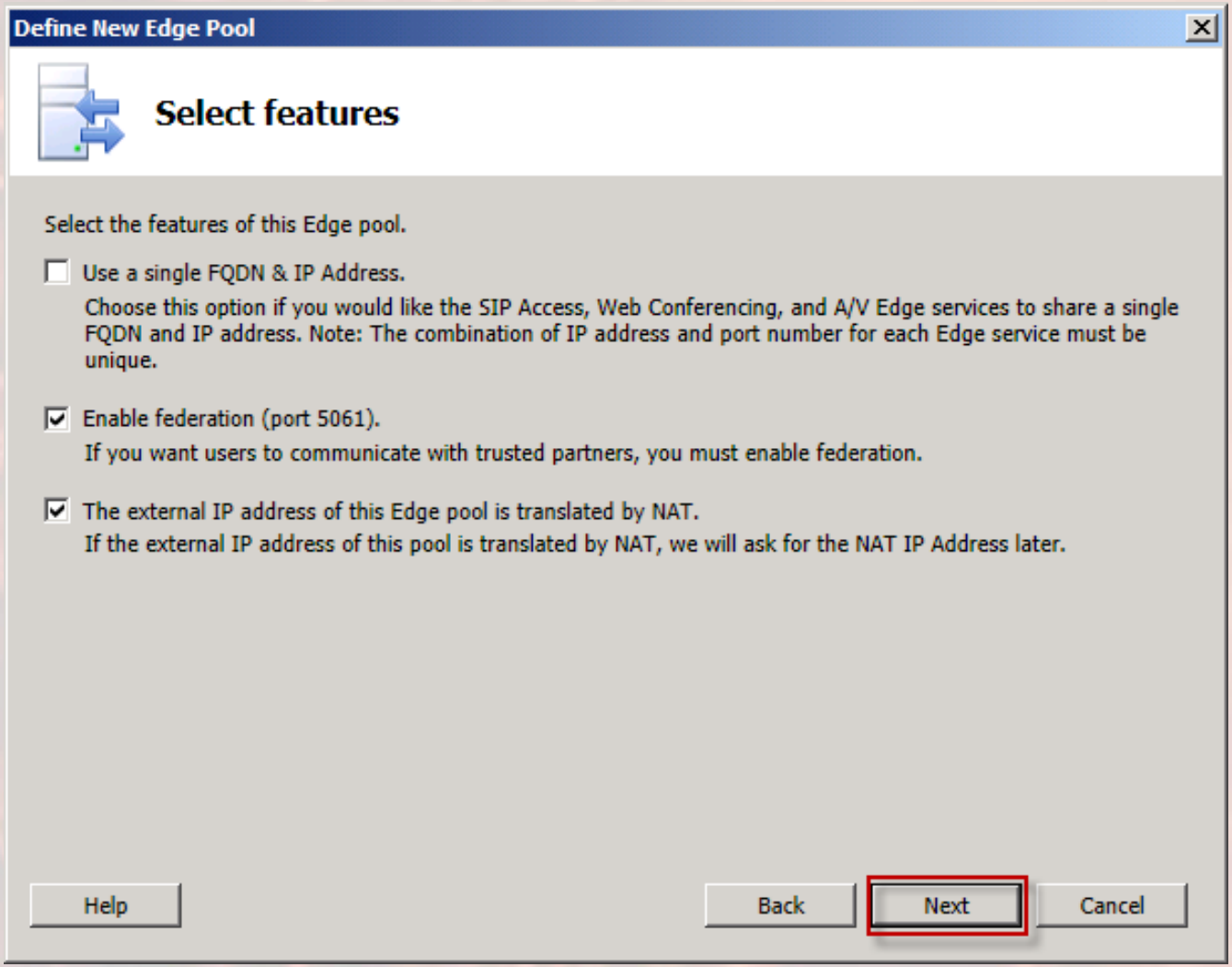
Seleccionamos -> Next



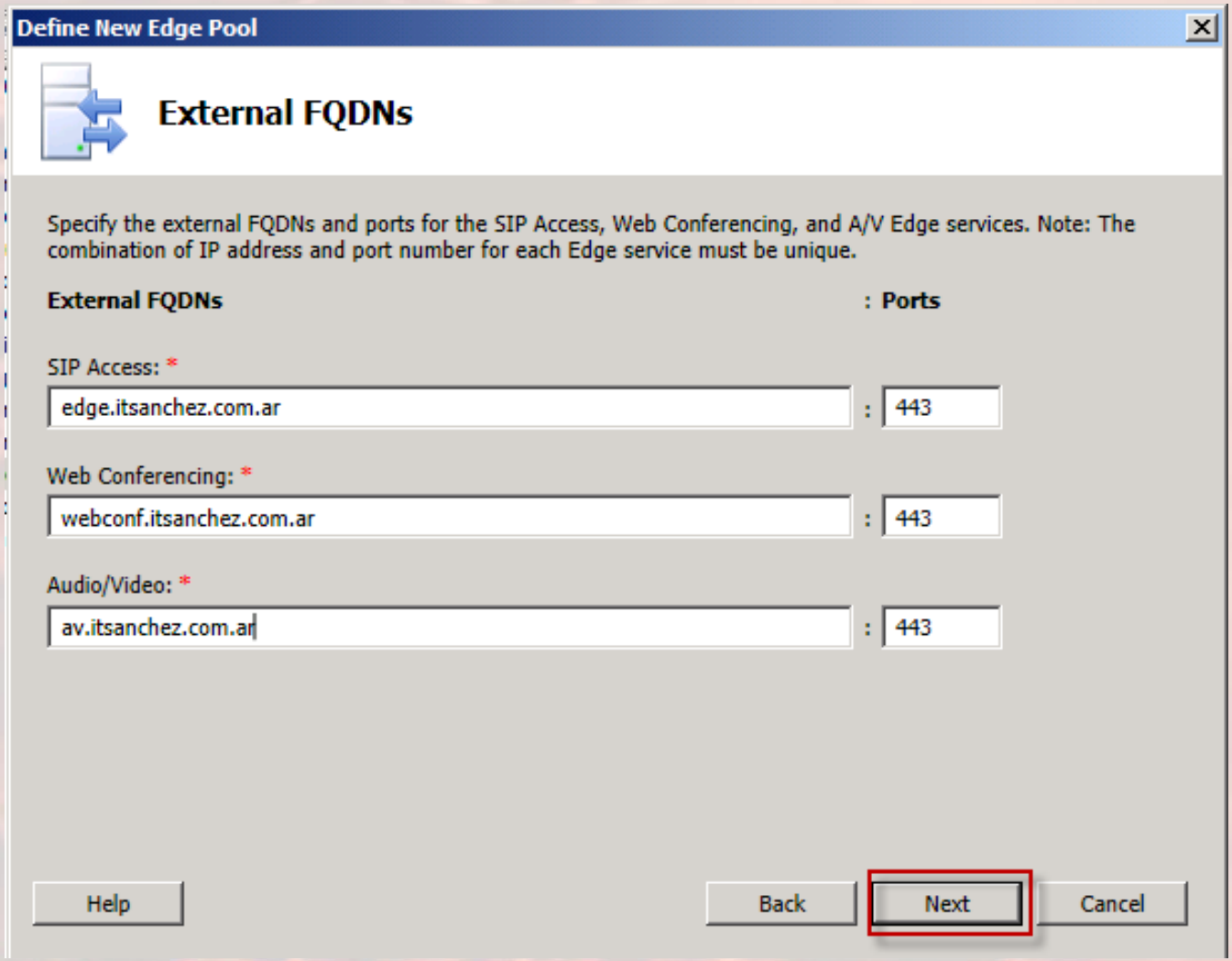
Completamos los datos del pool -> **Next**



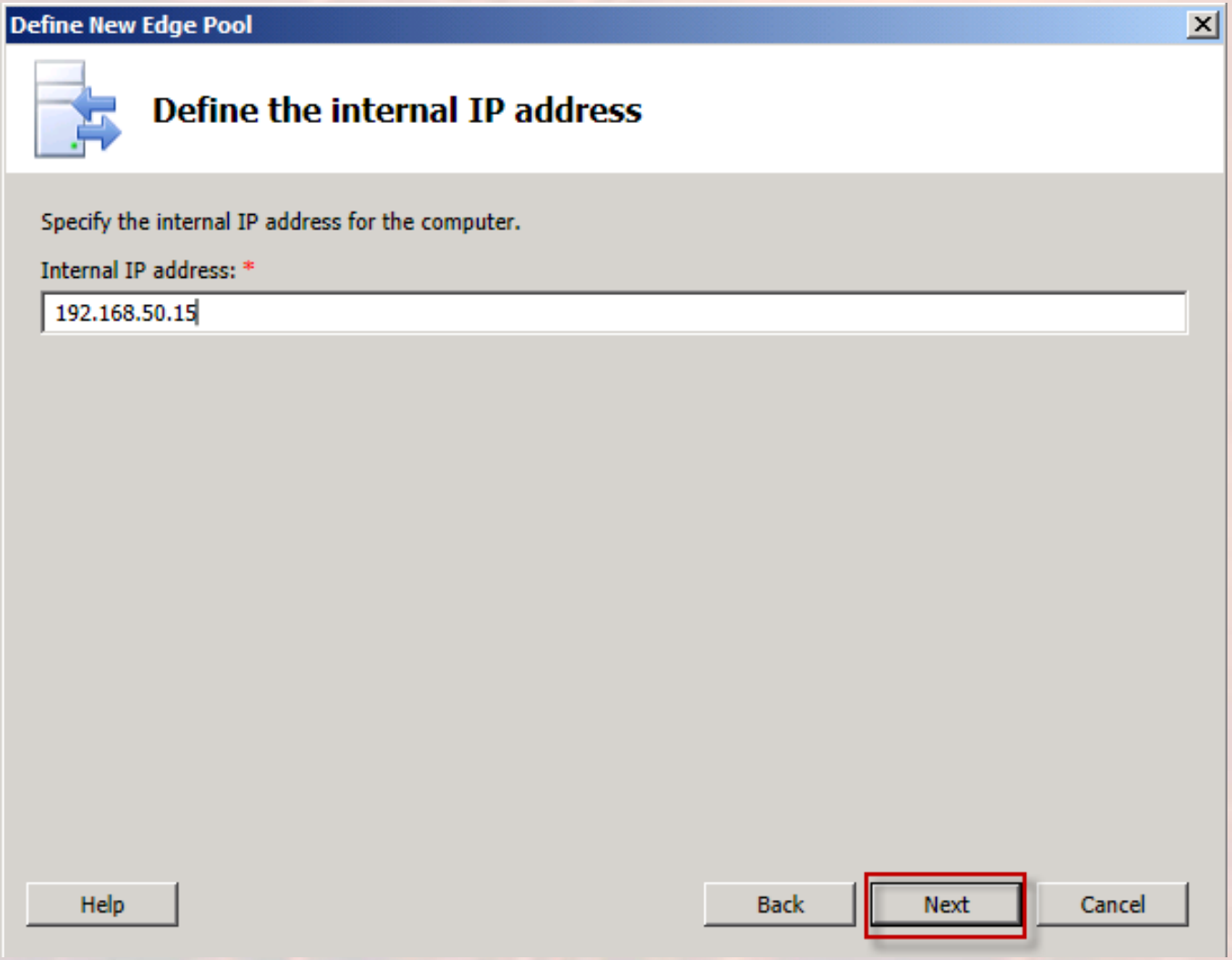
Completamos con los siguientes datos -> **Next**



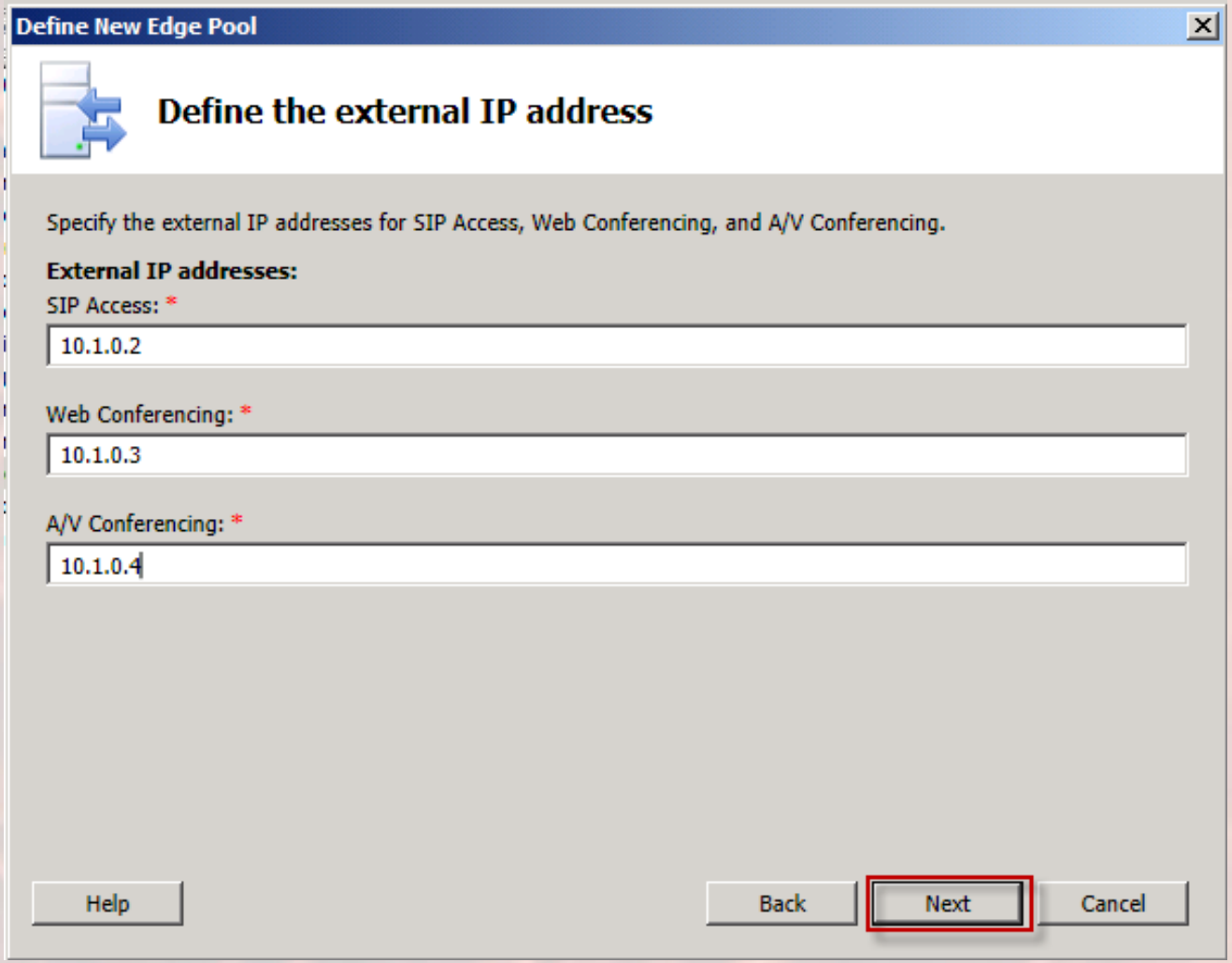
Completamos los FQDNs públicos (necesitamos 3 ips Publicas) -> **Next**



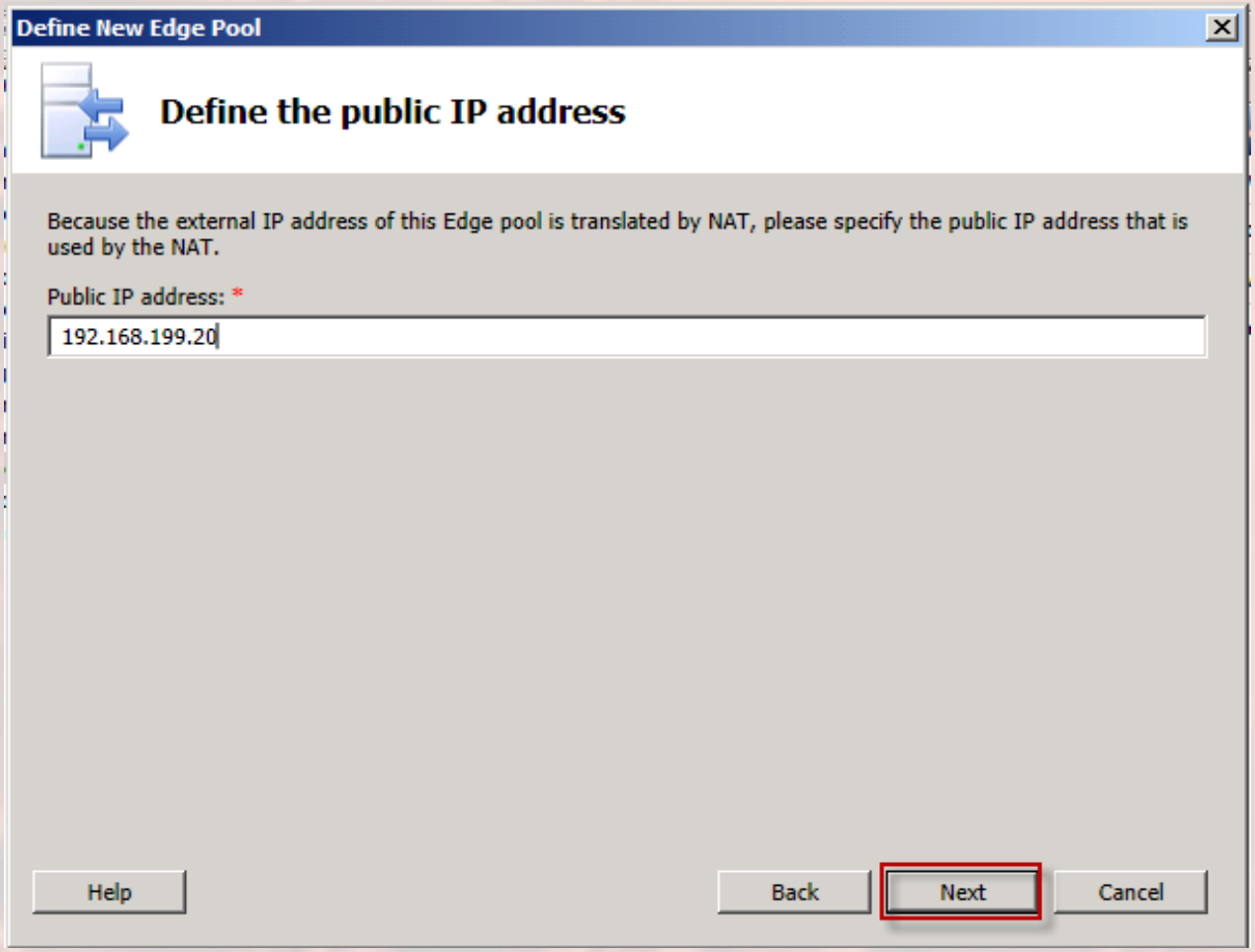
Completamos la ip de LAN de EDGE -> **Next**



Configuramos las IPs en DMZ -> **Next**

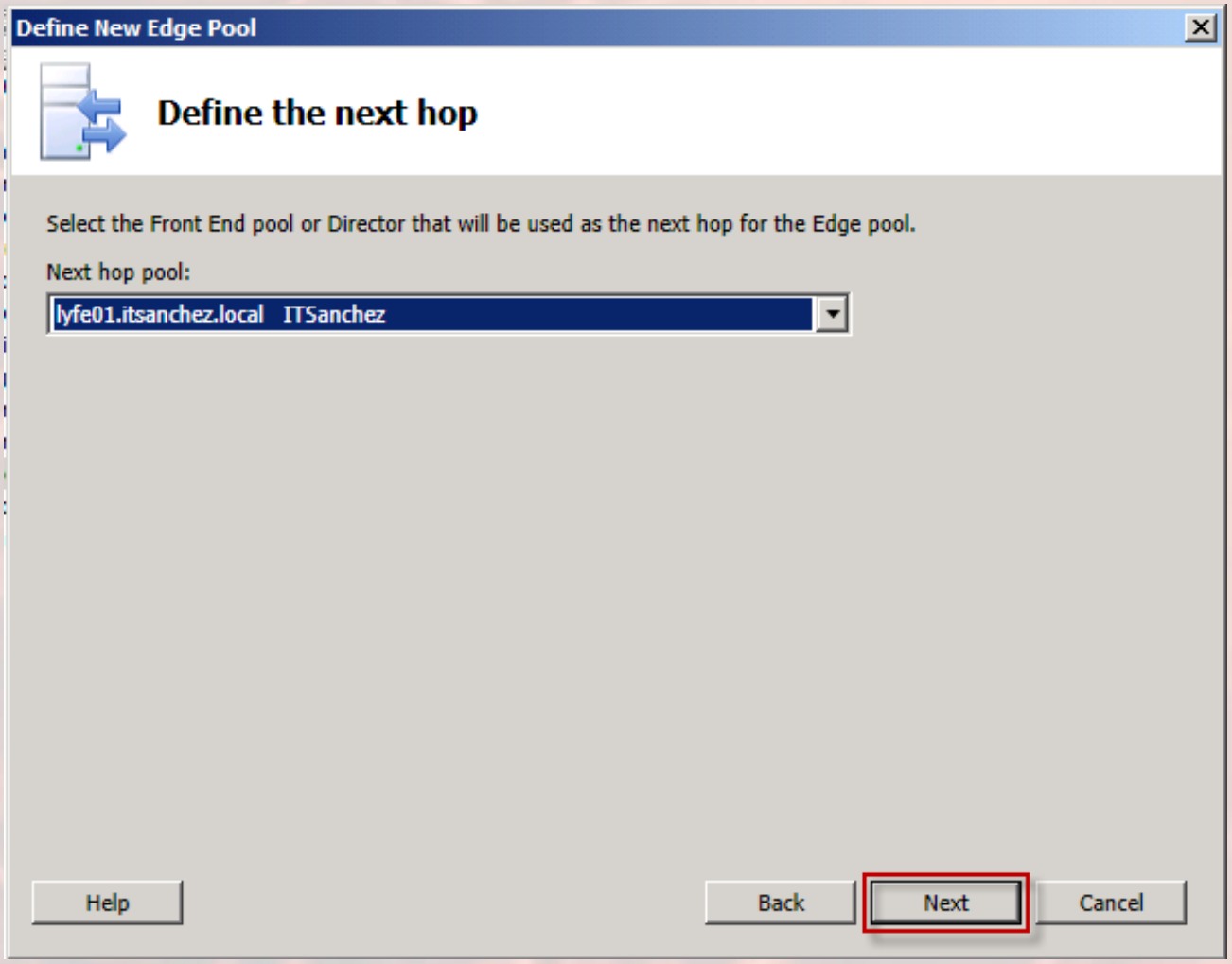


Esquema Funcional de la instalación

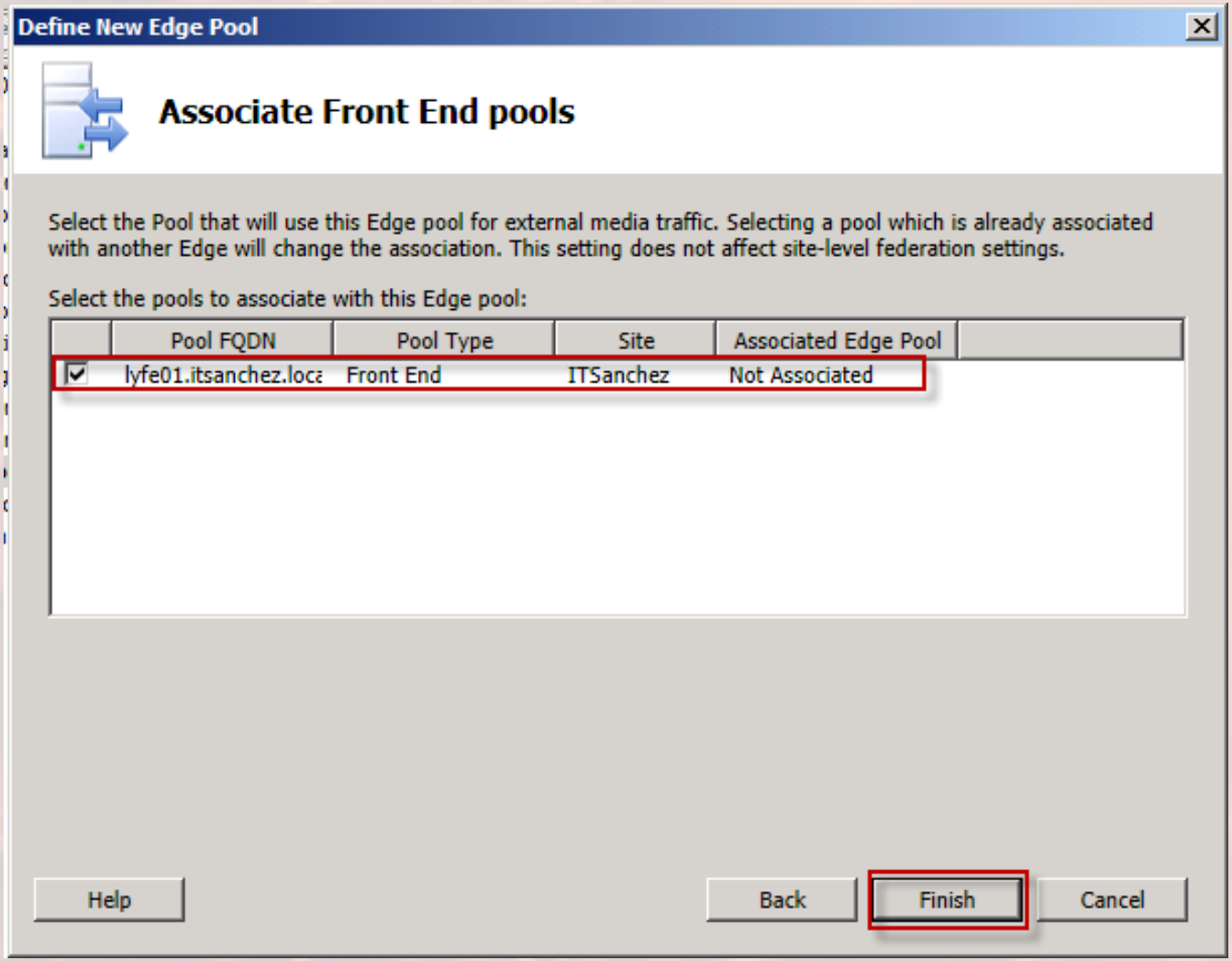


Nota: Ips Privada para el laboratorio en producción deben ser IP Publica

Seleccionamos -> **Next**



Seleccionamos el pool -> **Finish**



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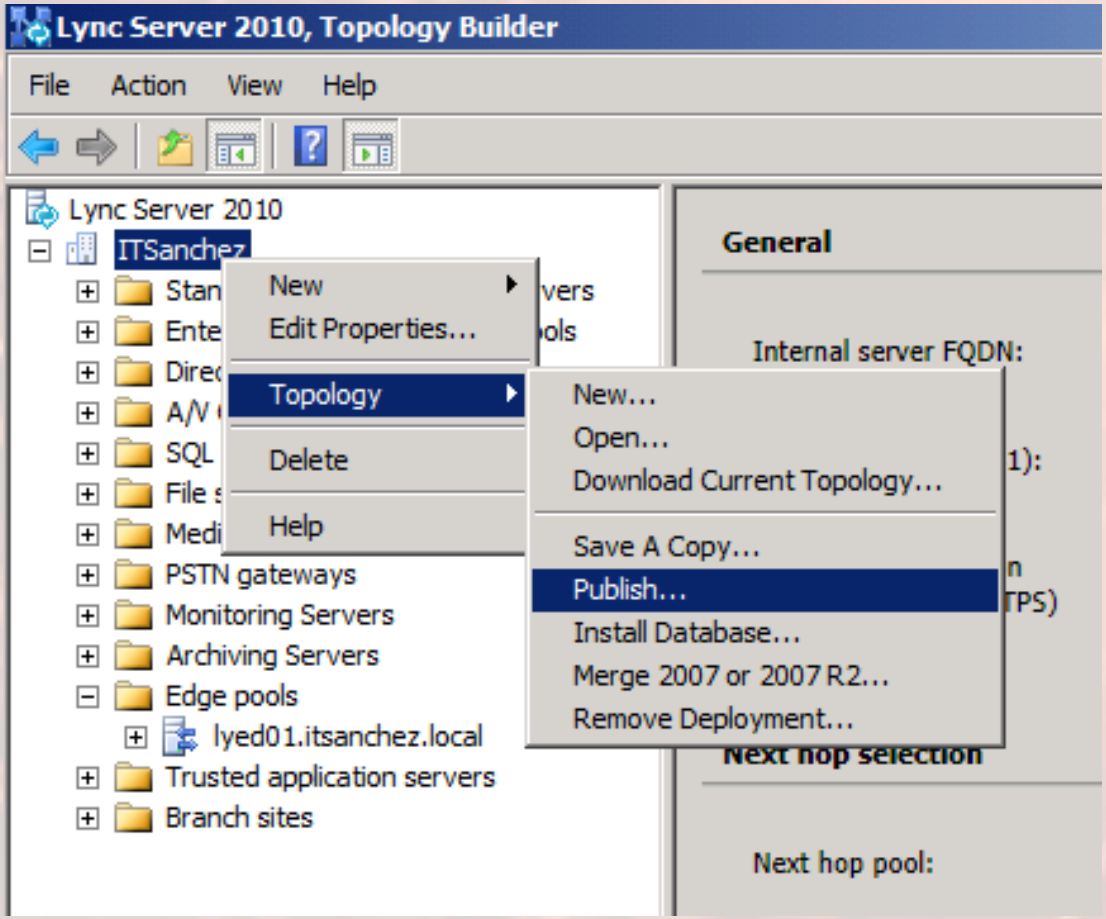
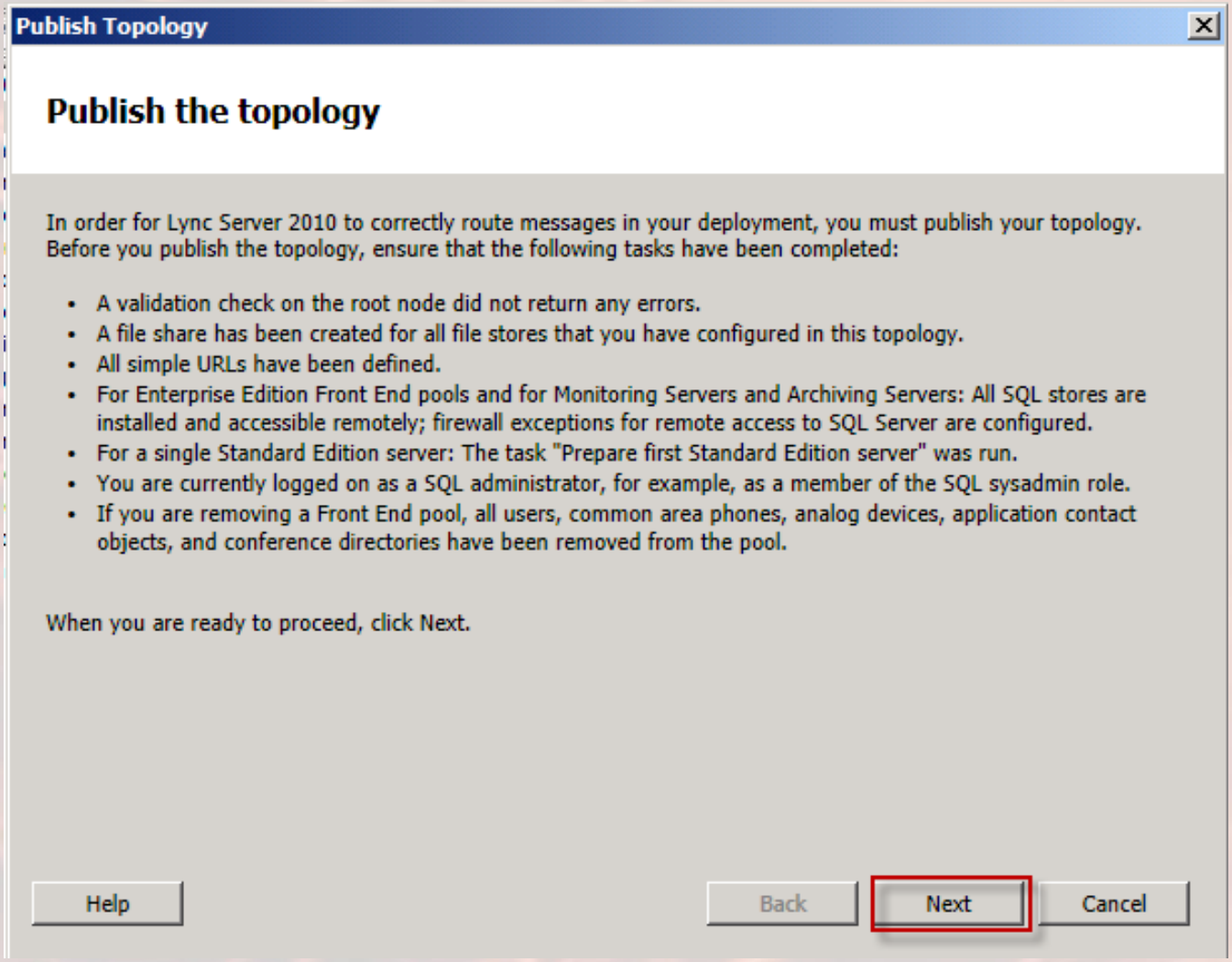
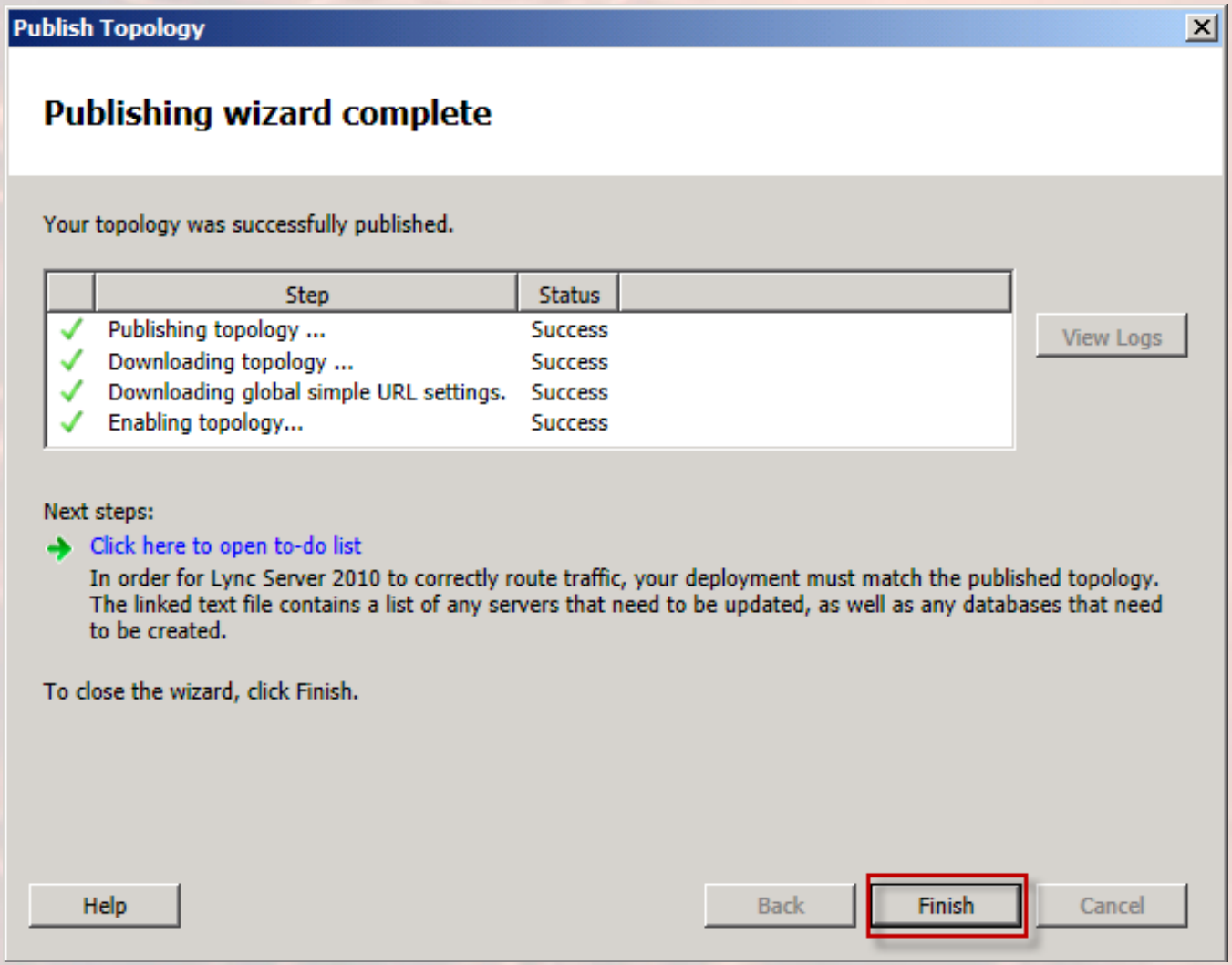
Sobre nuestra Organización -> **Topology -> Publish**



Seleccionamos -> **Next**



Seleccionamos -> **Finish**



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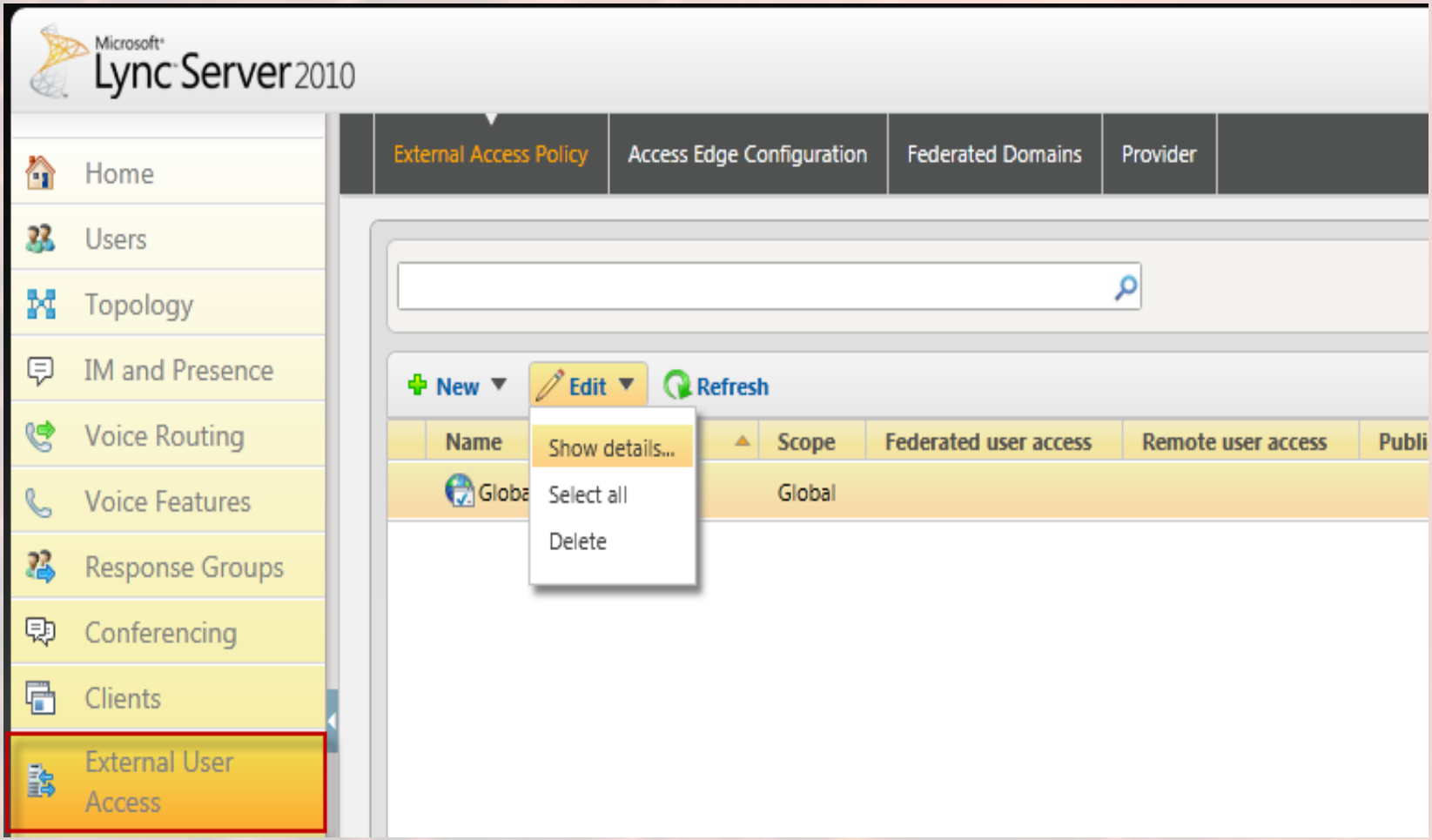
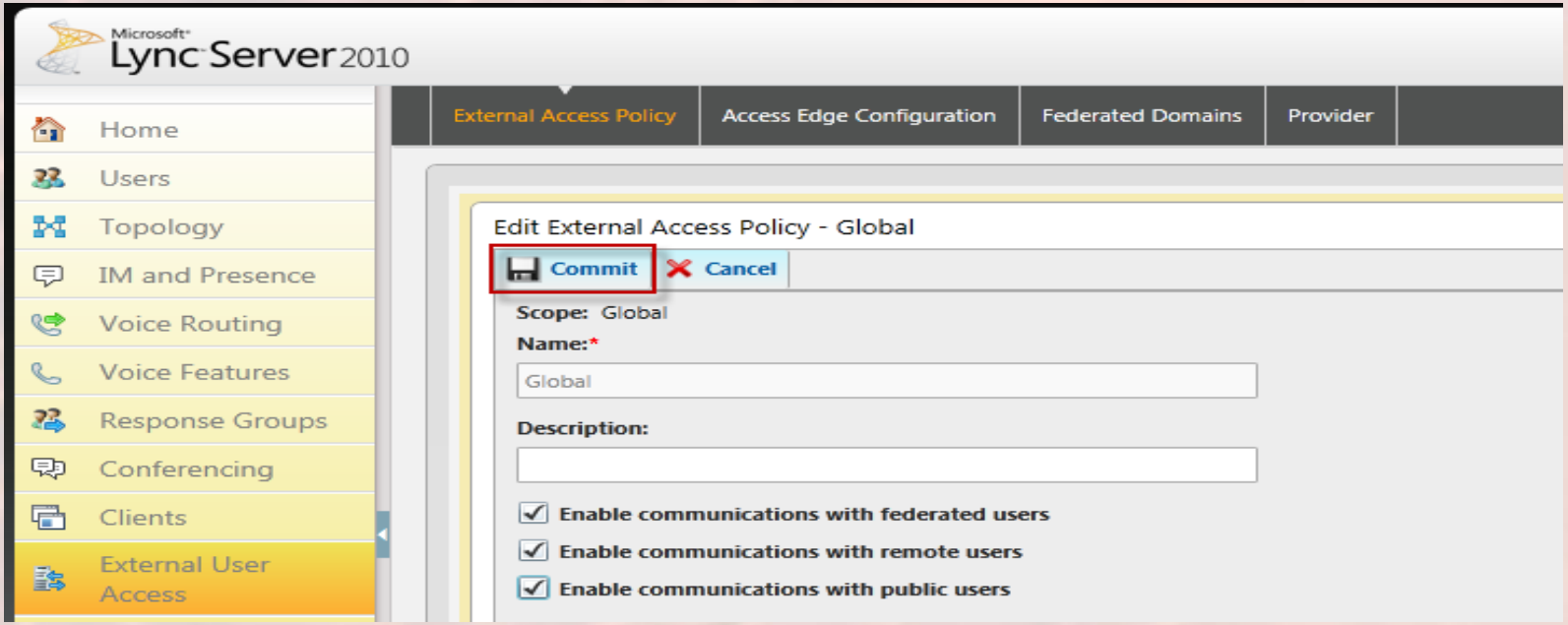
Desde el panel de control de Lync **(Lync Server Control Panel)**

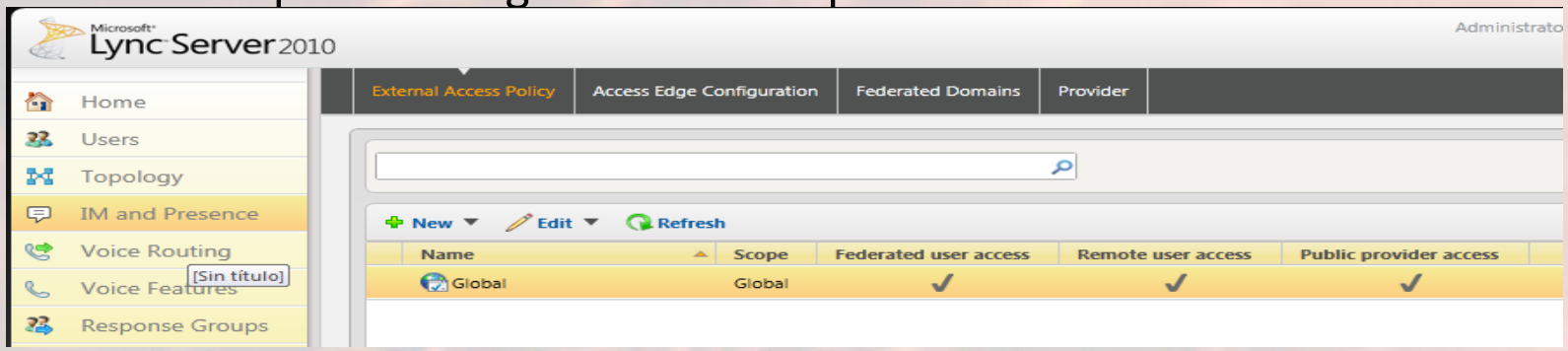
External User Access -> Global -> Show Details…



Habilitamos las siguientes funcionalidades -> **Commit**



Validamos que la configuración esta aplicada



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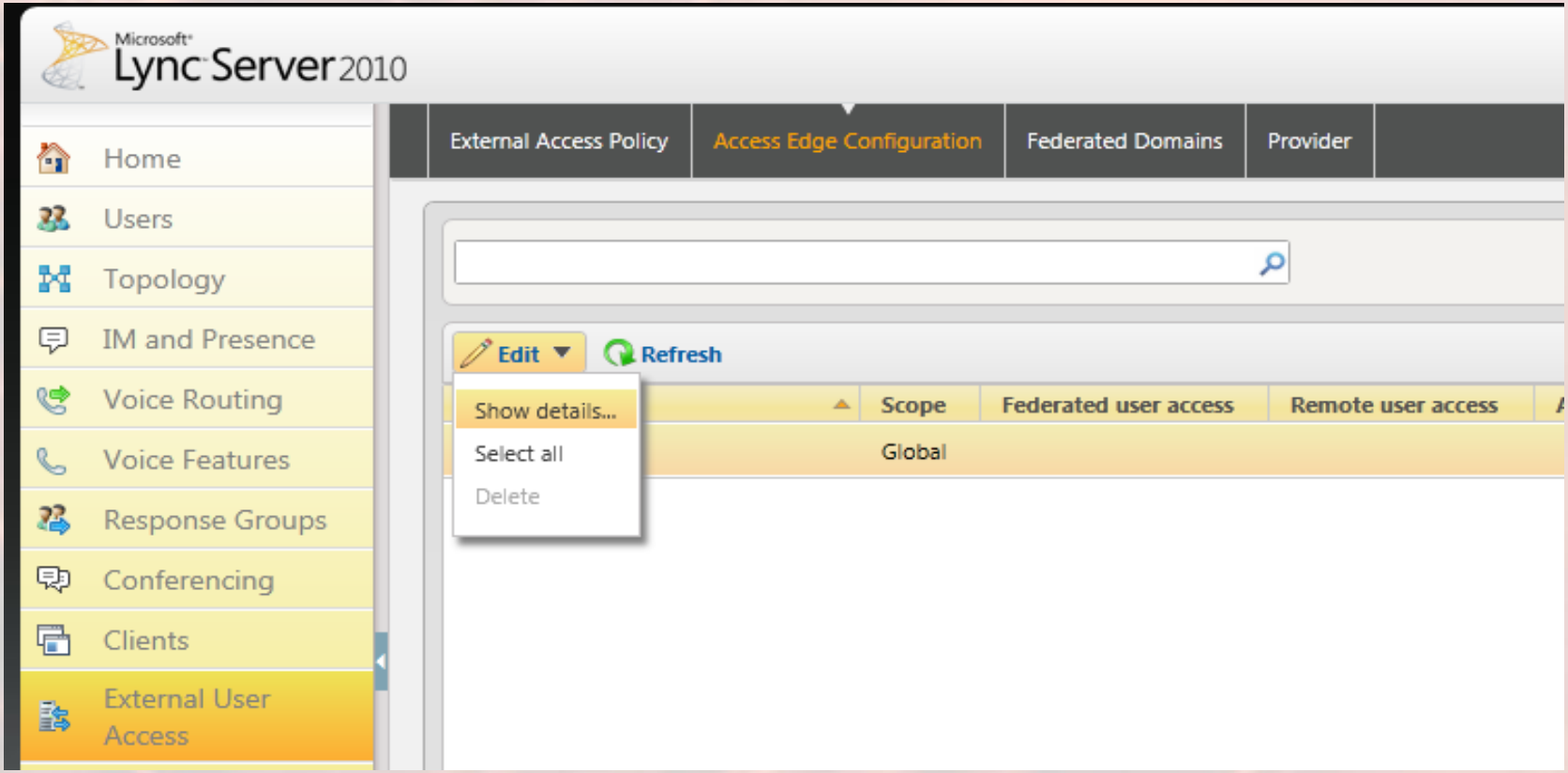
Desde el panel de control de Lync **(Lync Server Control Panel)**

External User Access -> Global -> Show Details…



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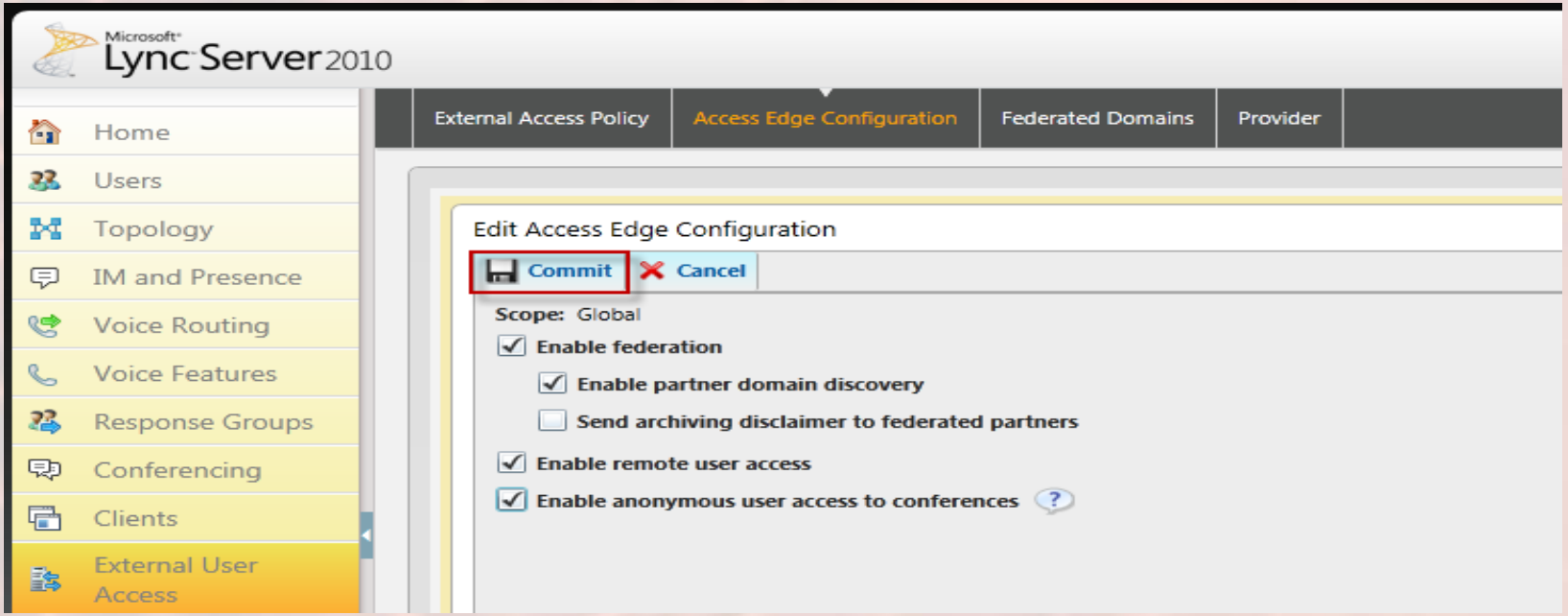
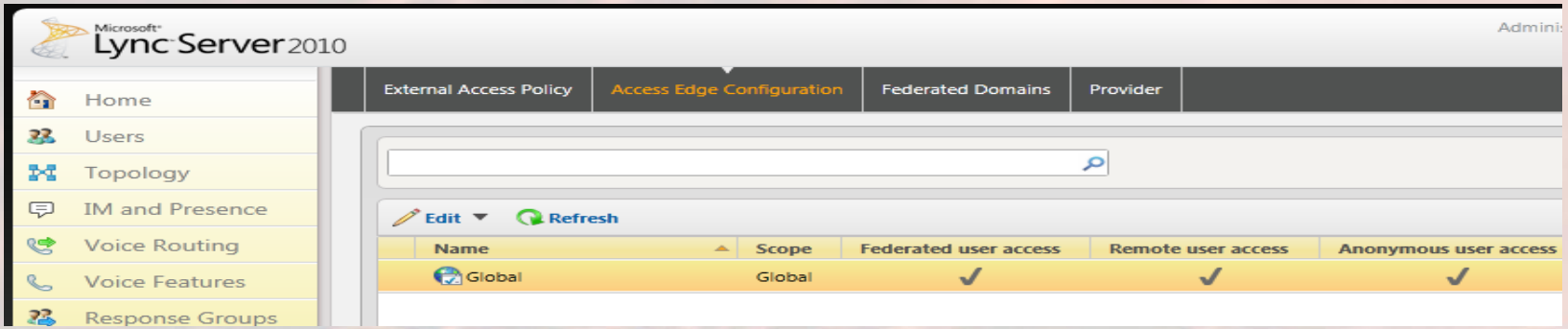
Seleccionamos las siguientes opciones -> **Commit**

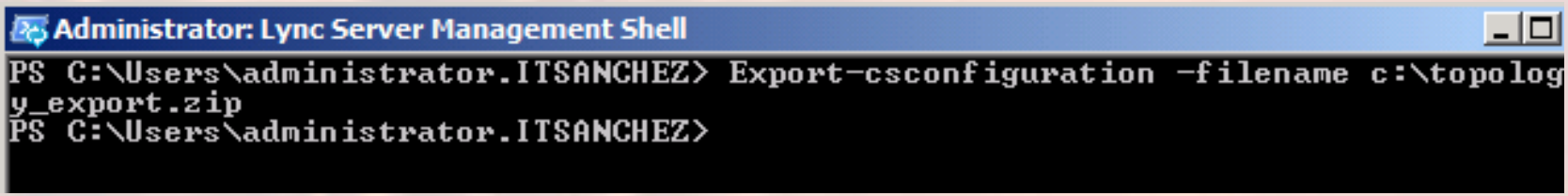


Validamos que la configuración este aplicada

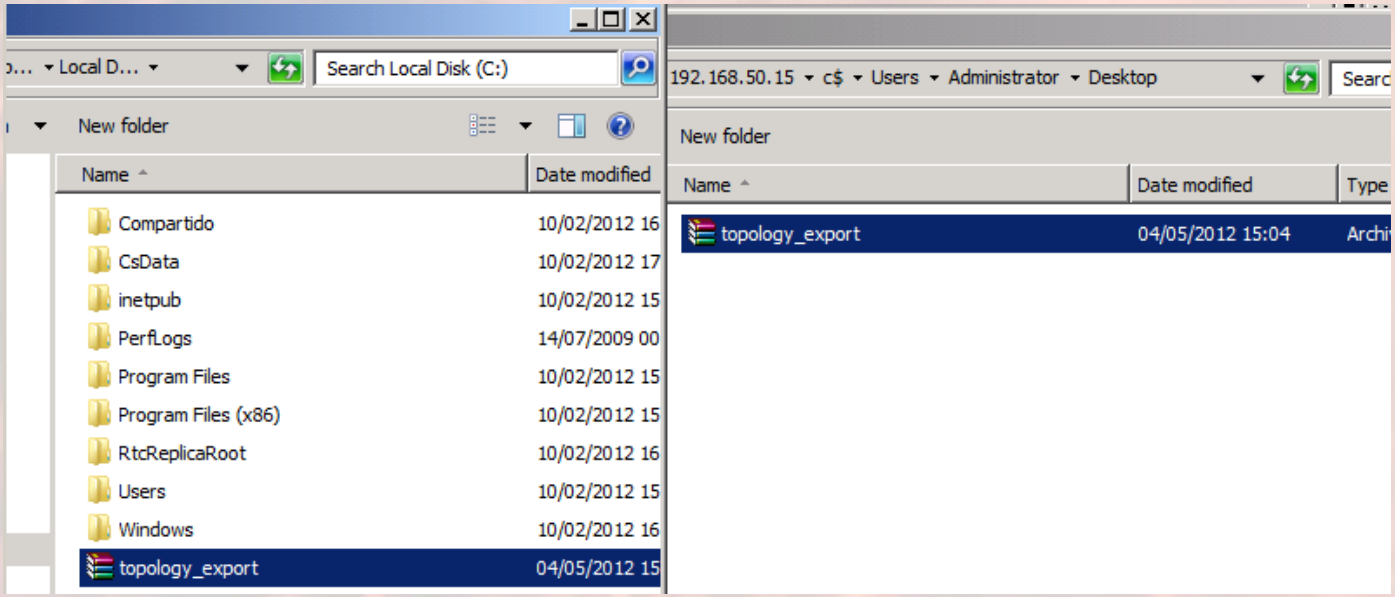


Abrimos **(Lync Server Management Shell) ejecutamos ->**

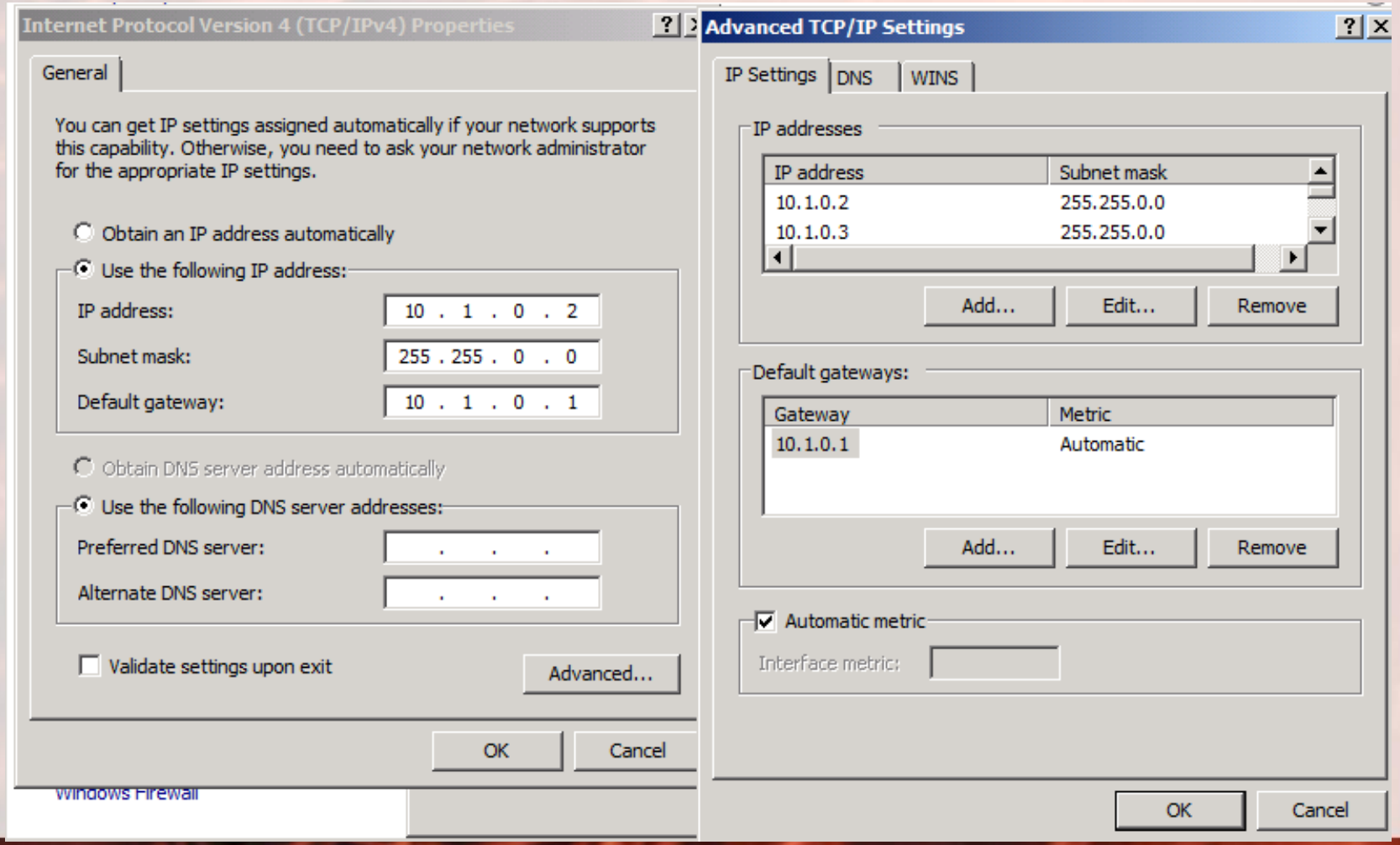
Export-csconfiguration –filename c:\topology_export.zip



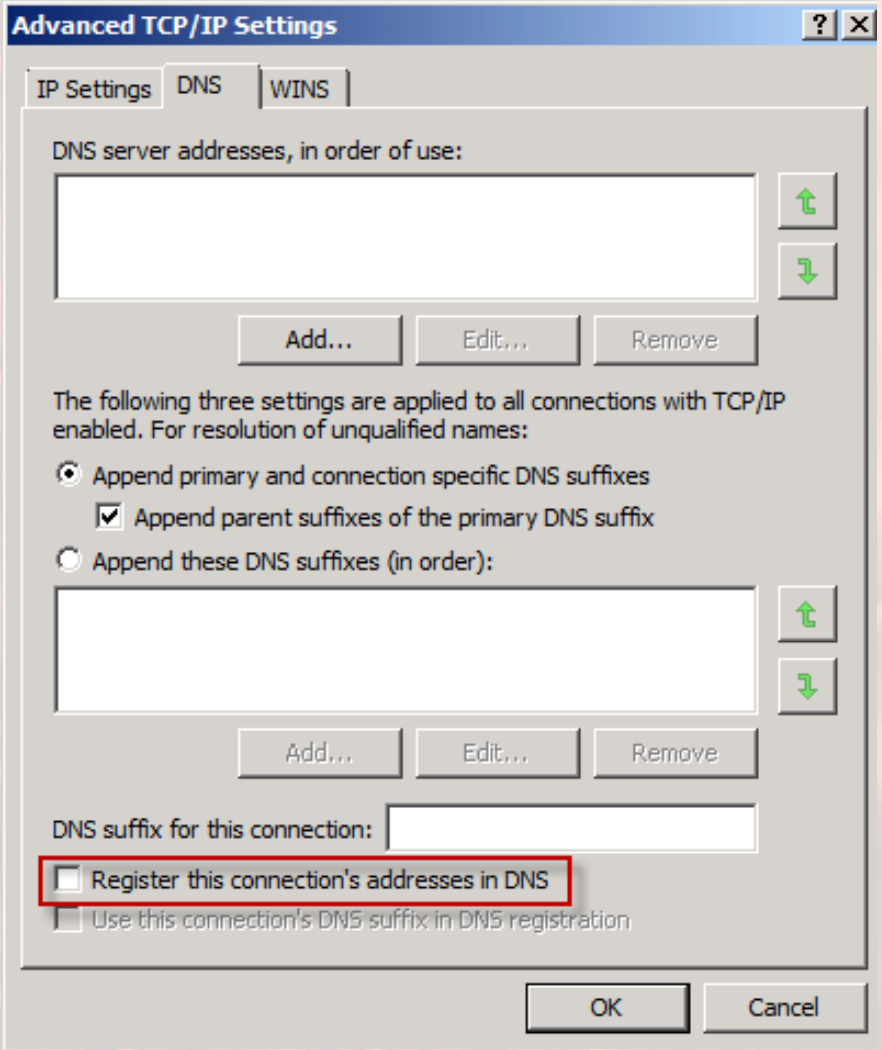
Copiamos el archivo c:\topology_export.zip al escritorio del usuario administrator en el servidor EDGE



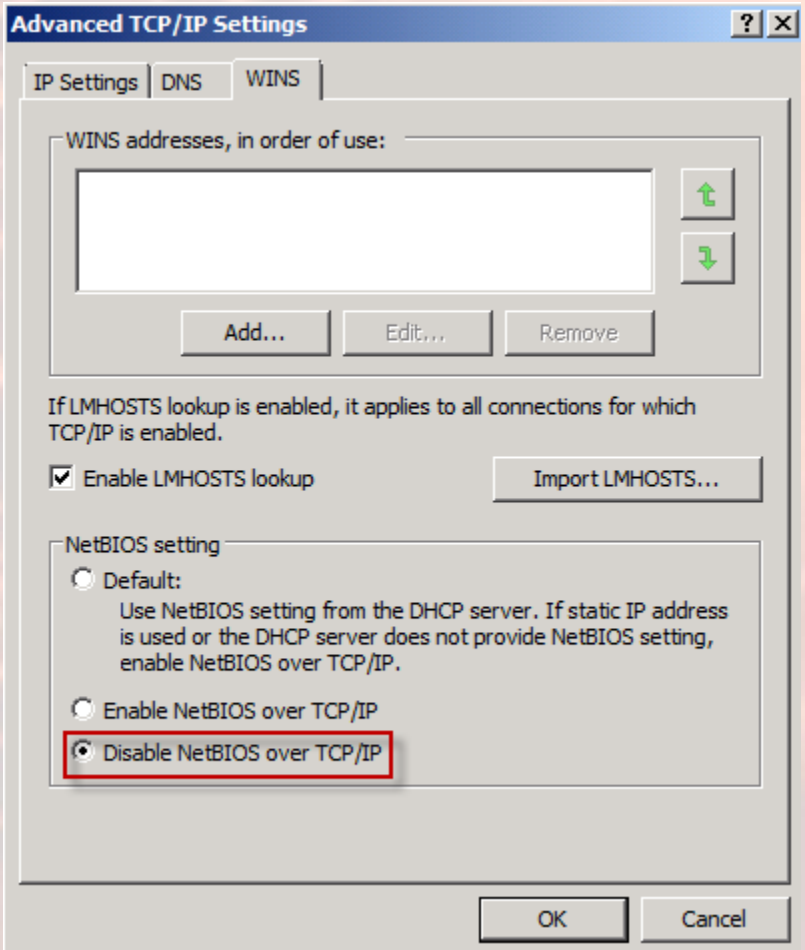
Validamos la configuracion de la interfase DMZ, 3 ips de DMZ el router es TMG 2010



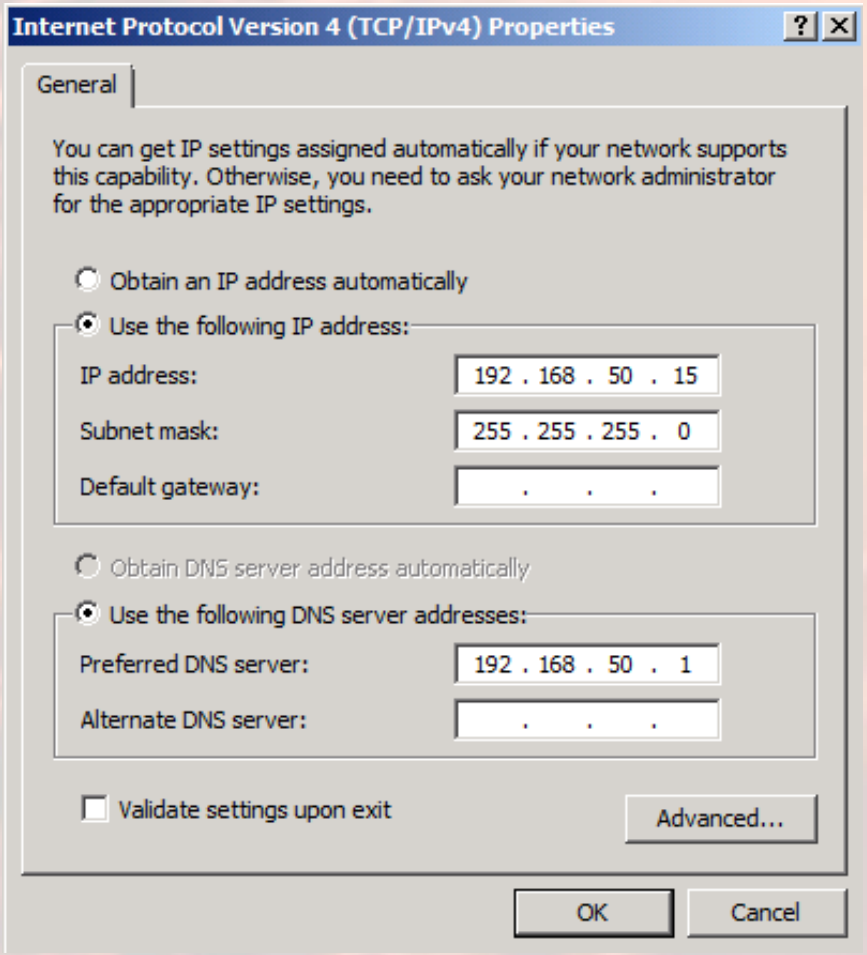
Desabilitamos Register DNS… en la solapa DNS



Deshabilitamos Netbios over TCP/IP



Validamos la configuración el DNS es nuestro DC



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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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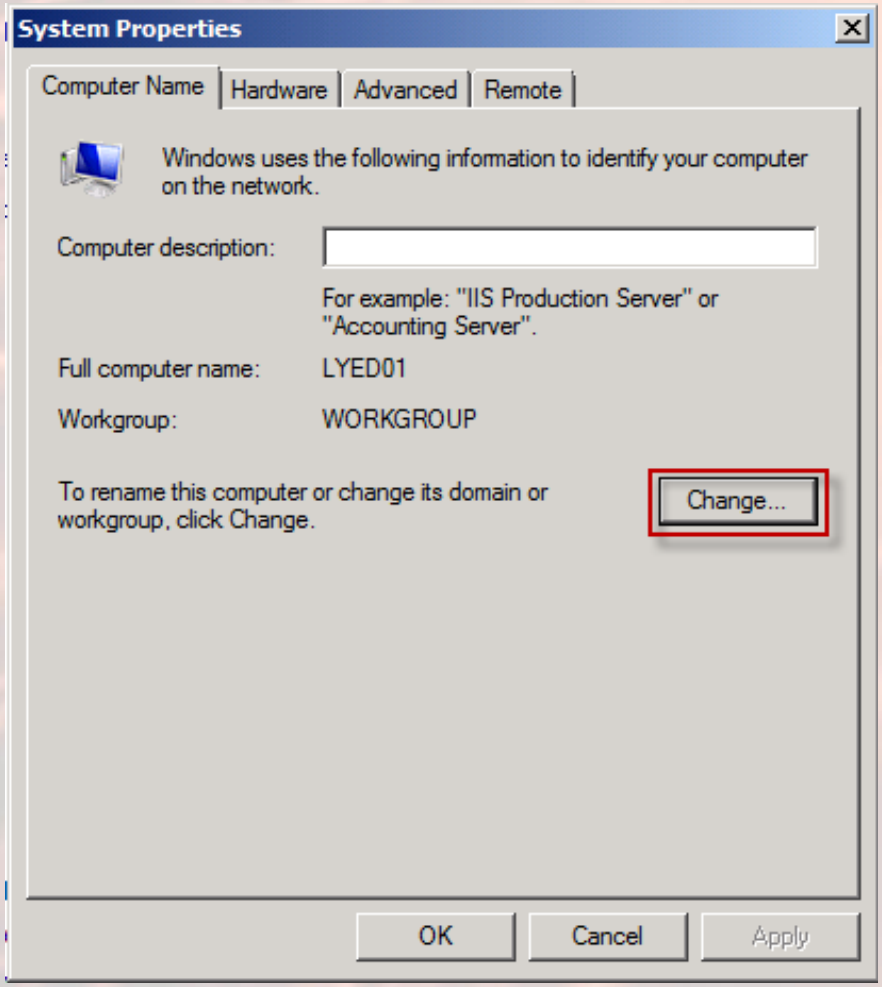
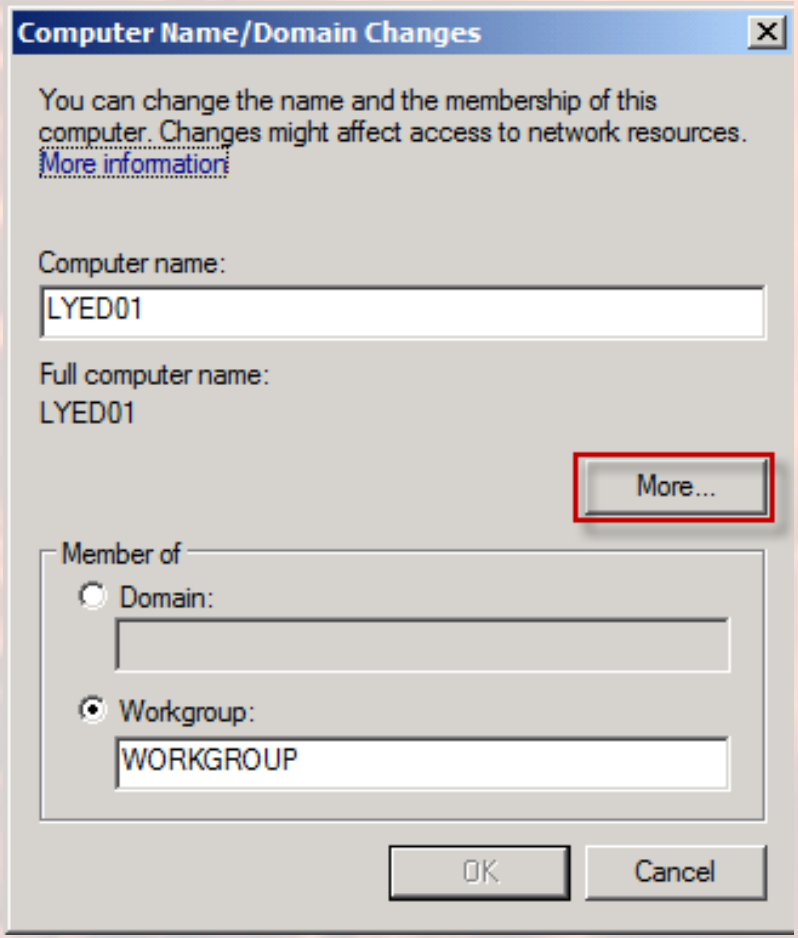
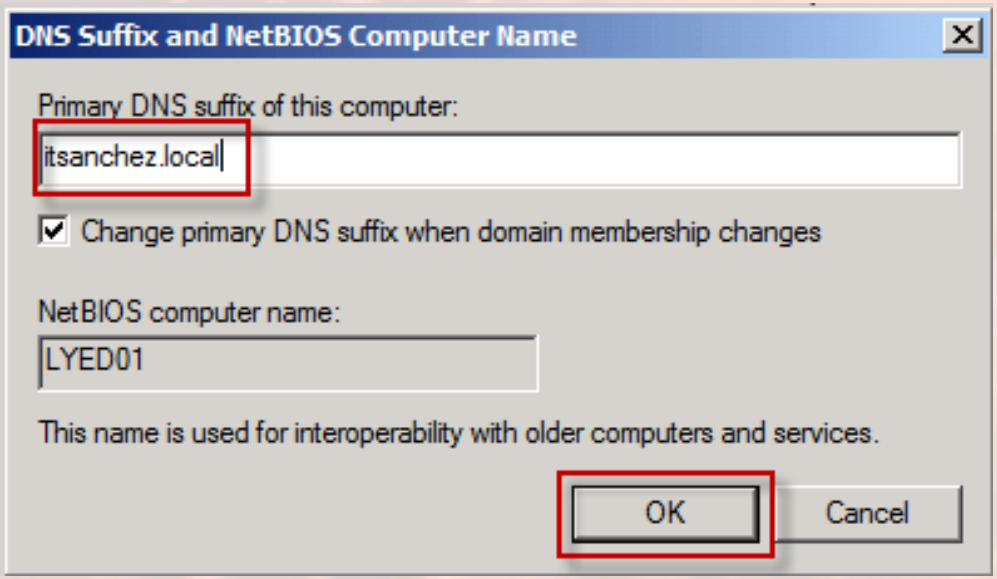
En Computer Name -> **Change…**



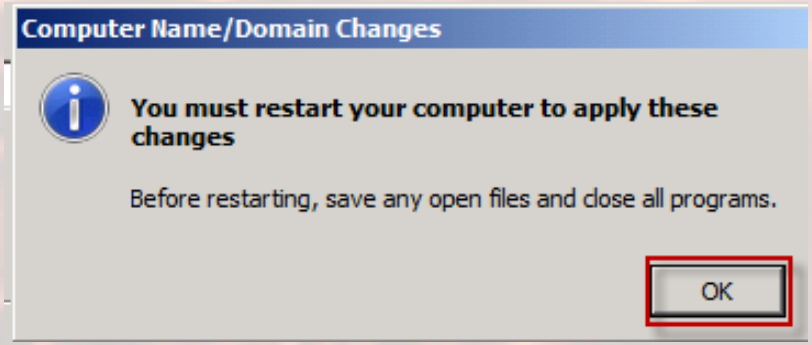
Seleccionamos -> **Next**



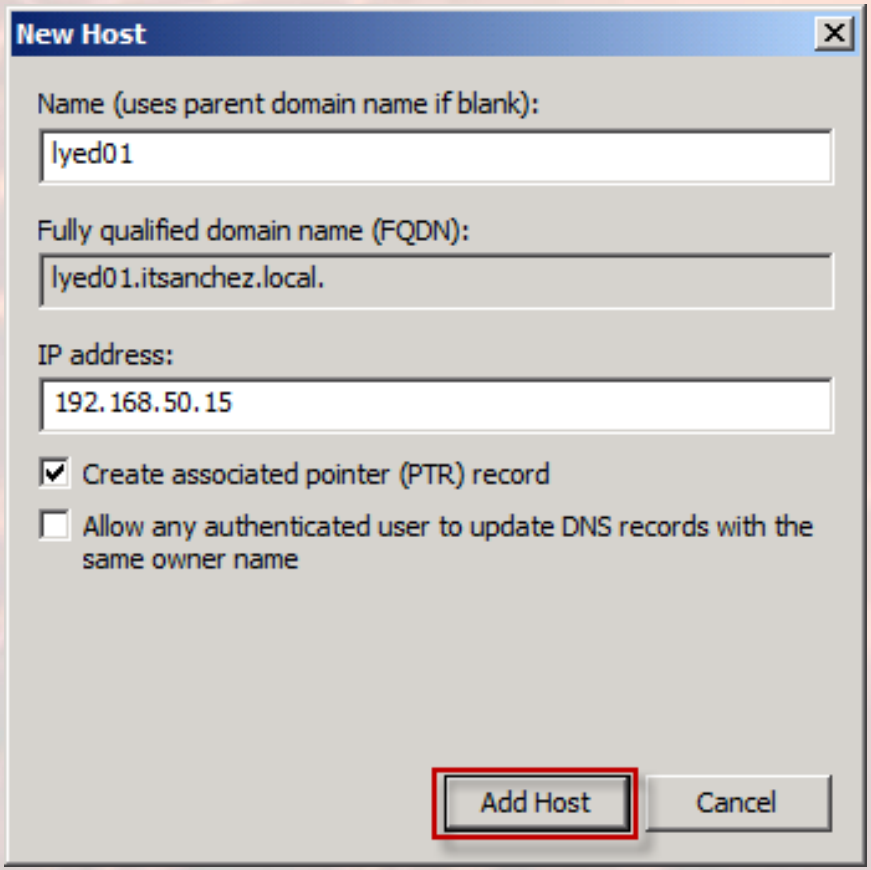
Competamos el sufijo del domino (itsanchez.local)



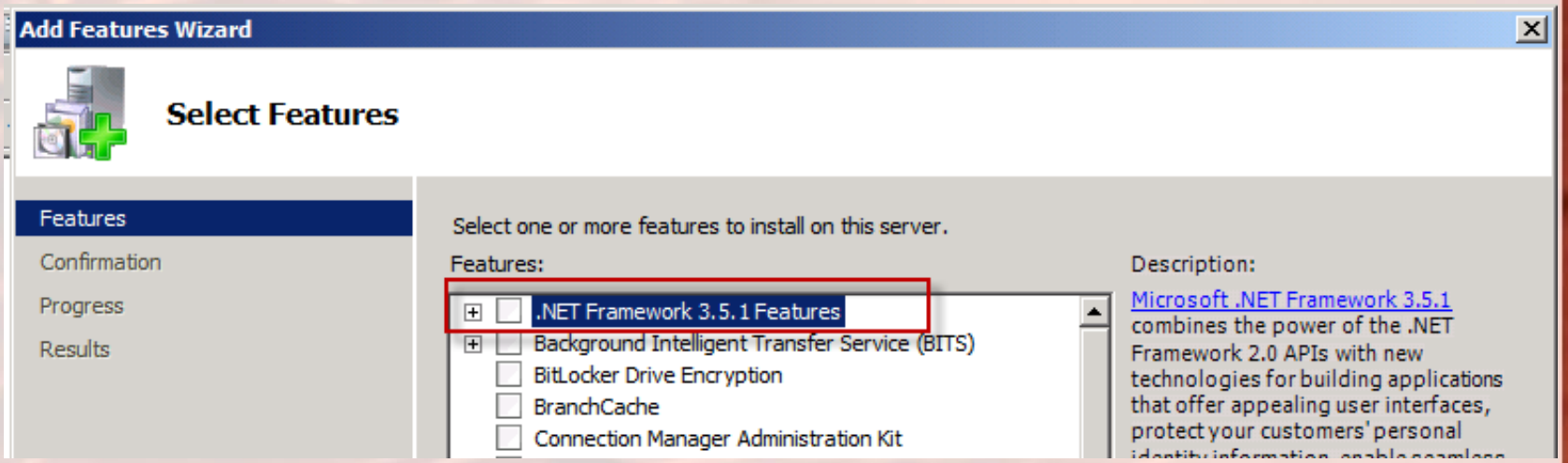
Aceptamos y reiniciamos el equipo



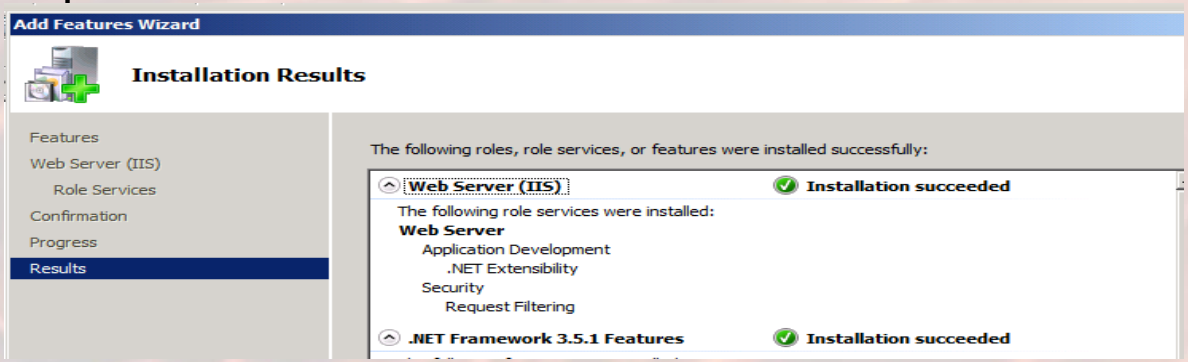
En nuestro DNS agregamos un host A en **lyed01.itsanchez.local** a **192.168.50.15** en nuestro DC



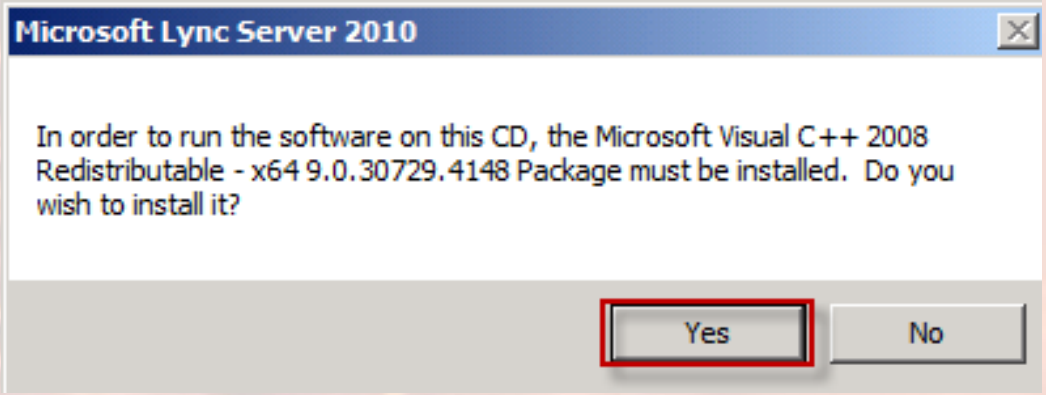
En el equipo LYED01 instalamos framework 3.5.1 en Server Manager con los parámetros por defecto



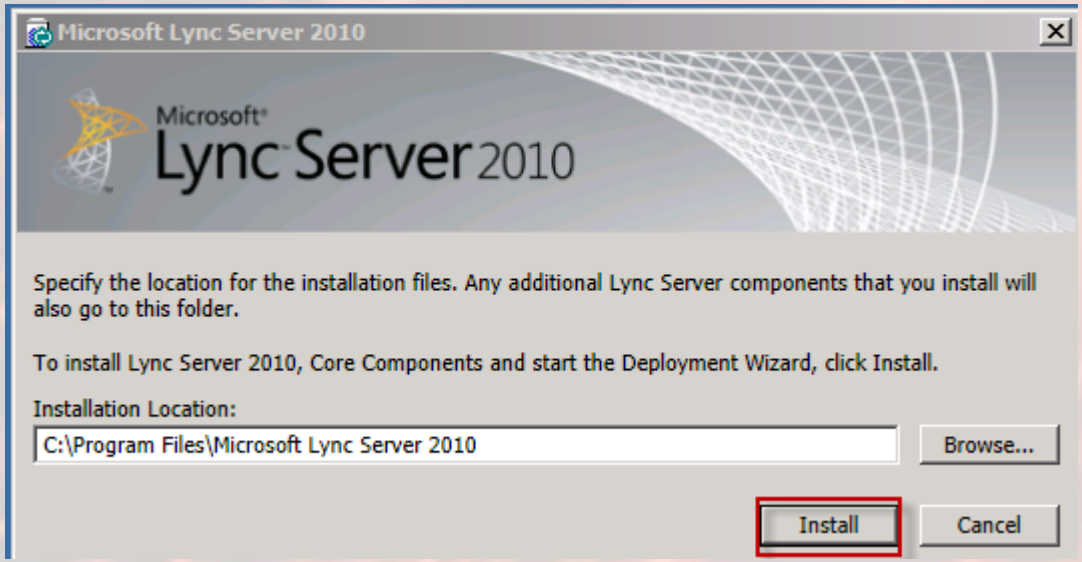
Validamos que la instalación finalice con exito



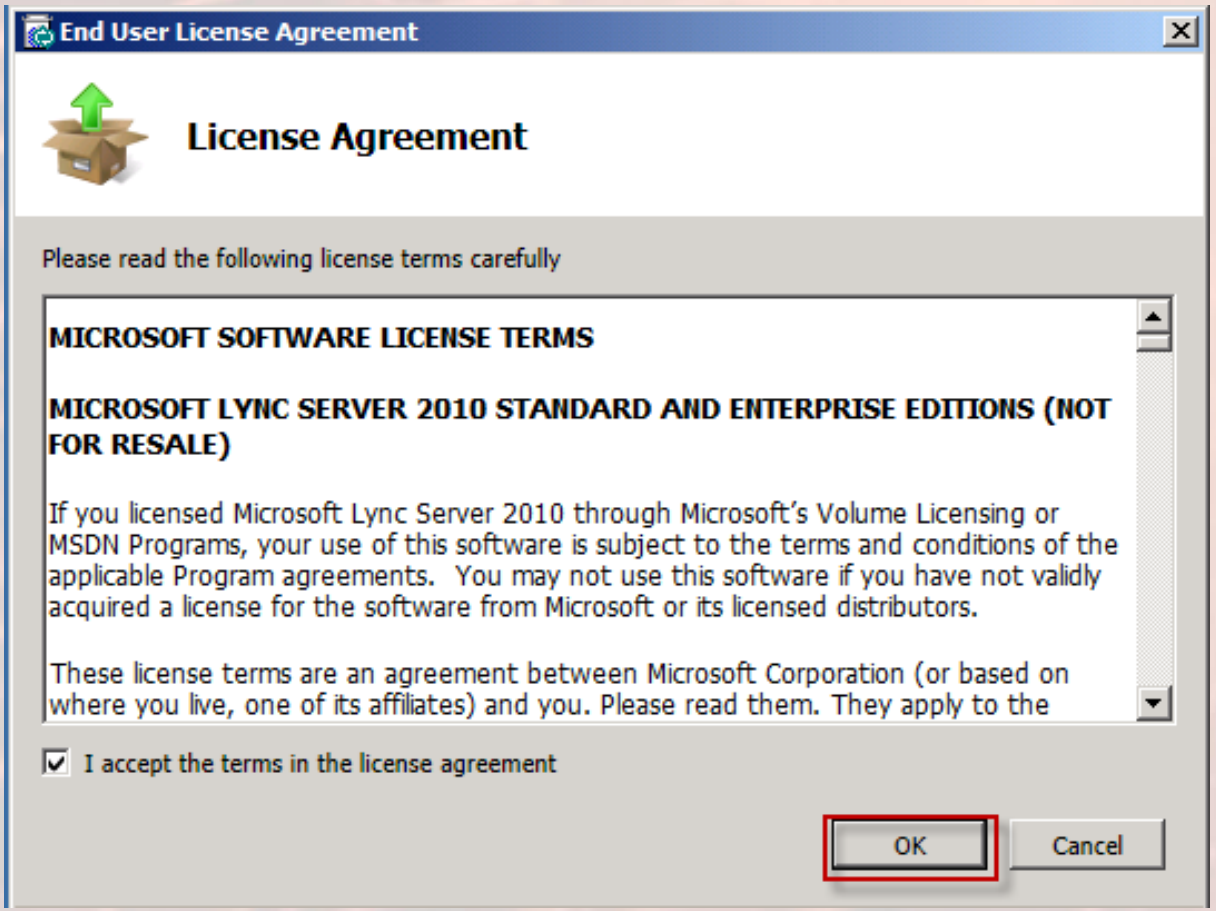
Ejecutamos el instalador de Lync Server 2010 –> **Yes**



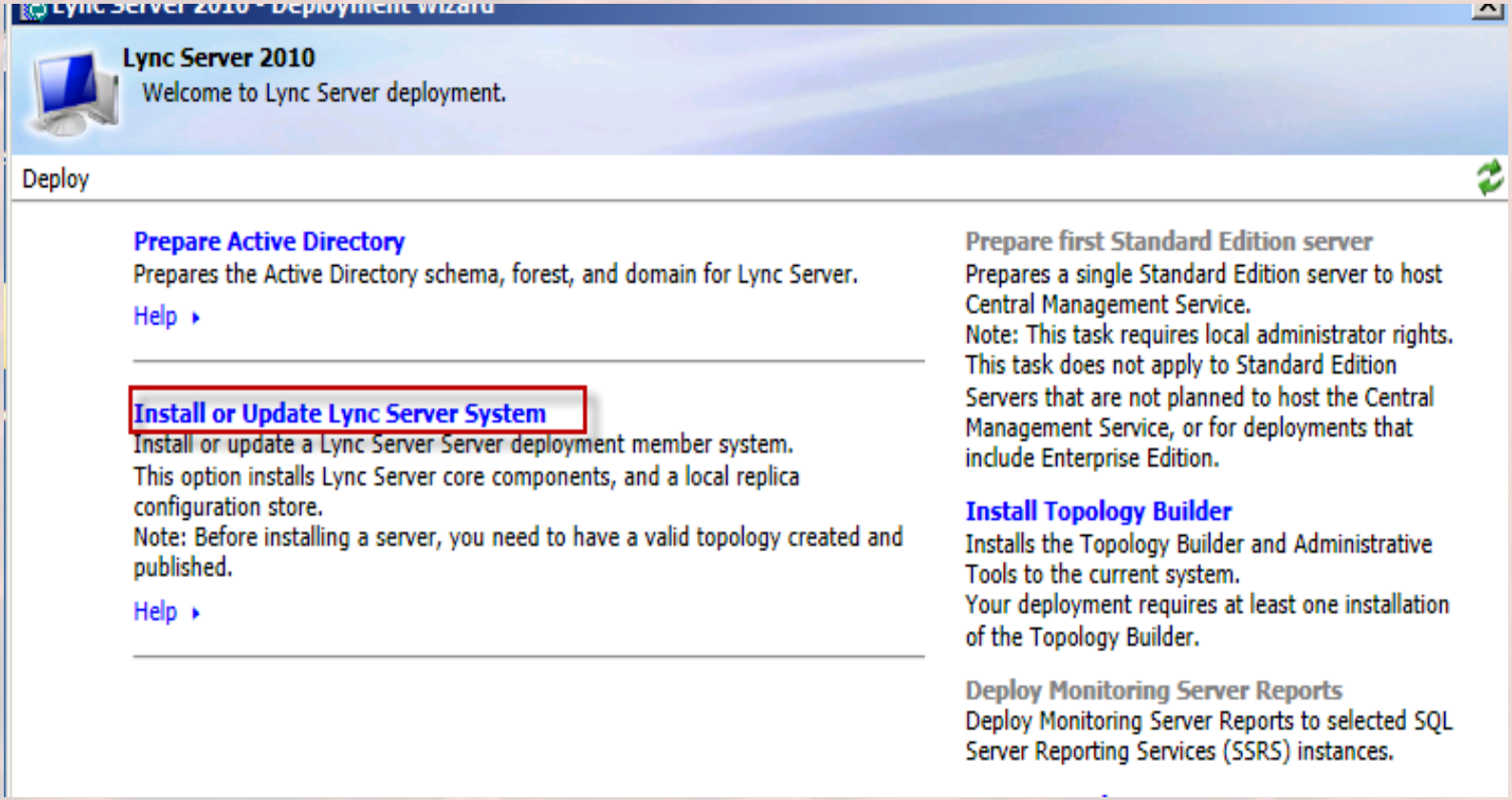
Seleccionamos –> **Install**



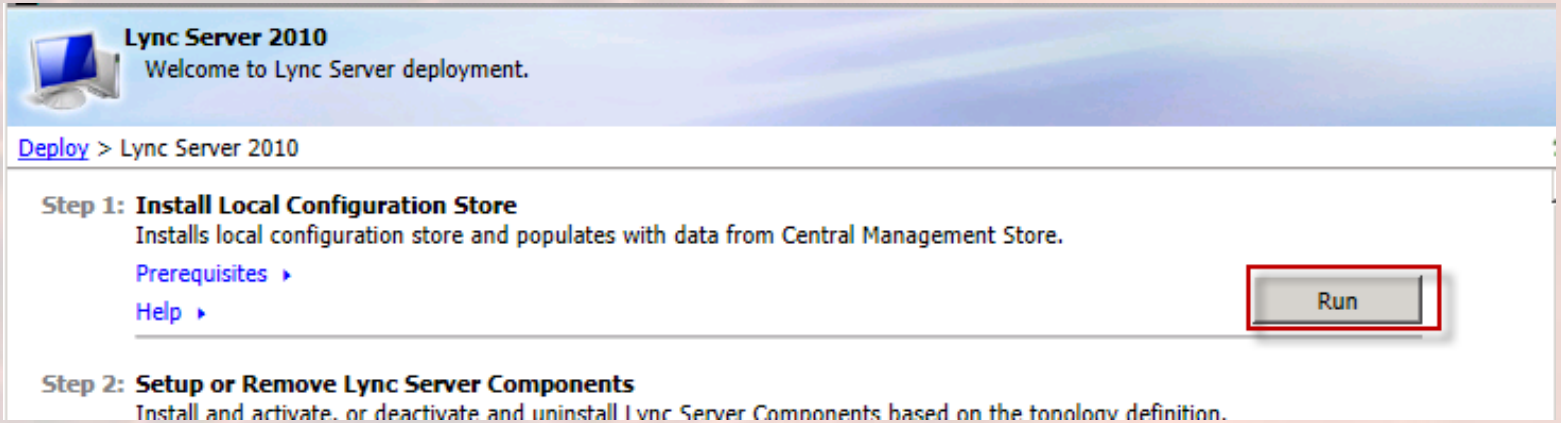
Aceptamos la licencia -> **Ok**



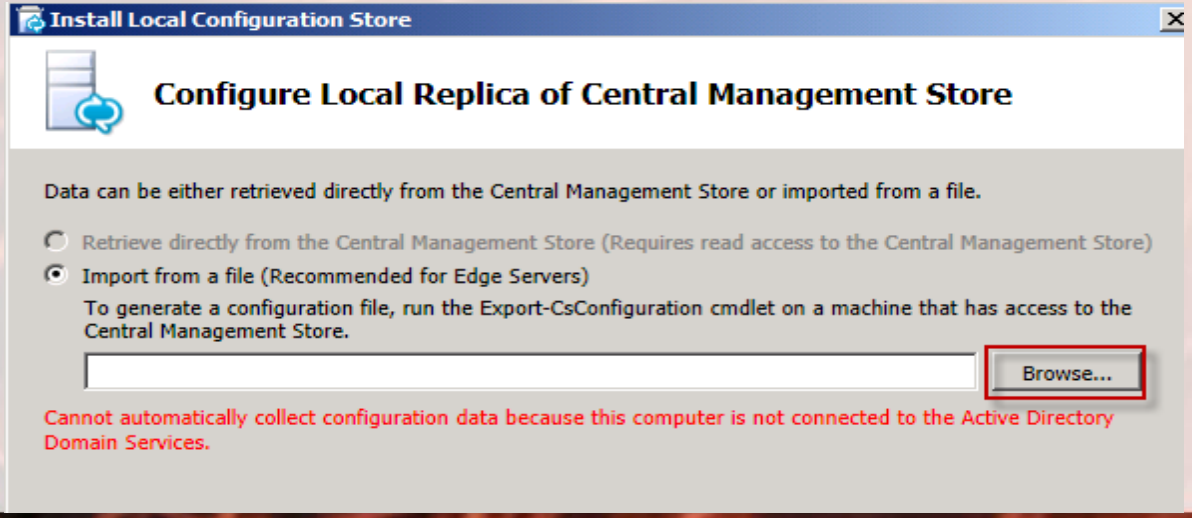
Seleccionamos -> **Install or Update Lync Server System**



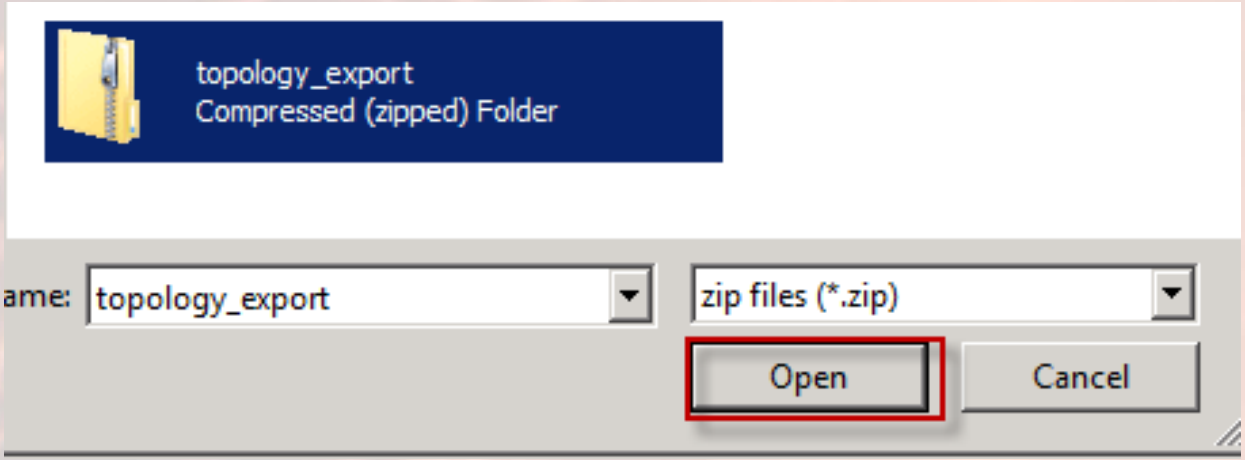
Seleccionamos -> **Install Local Confiugration Store -> Run**



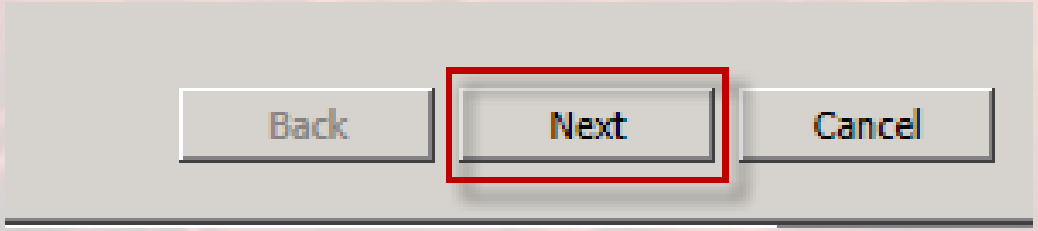
Seleccionamos -> **Browse**



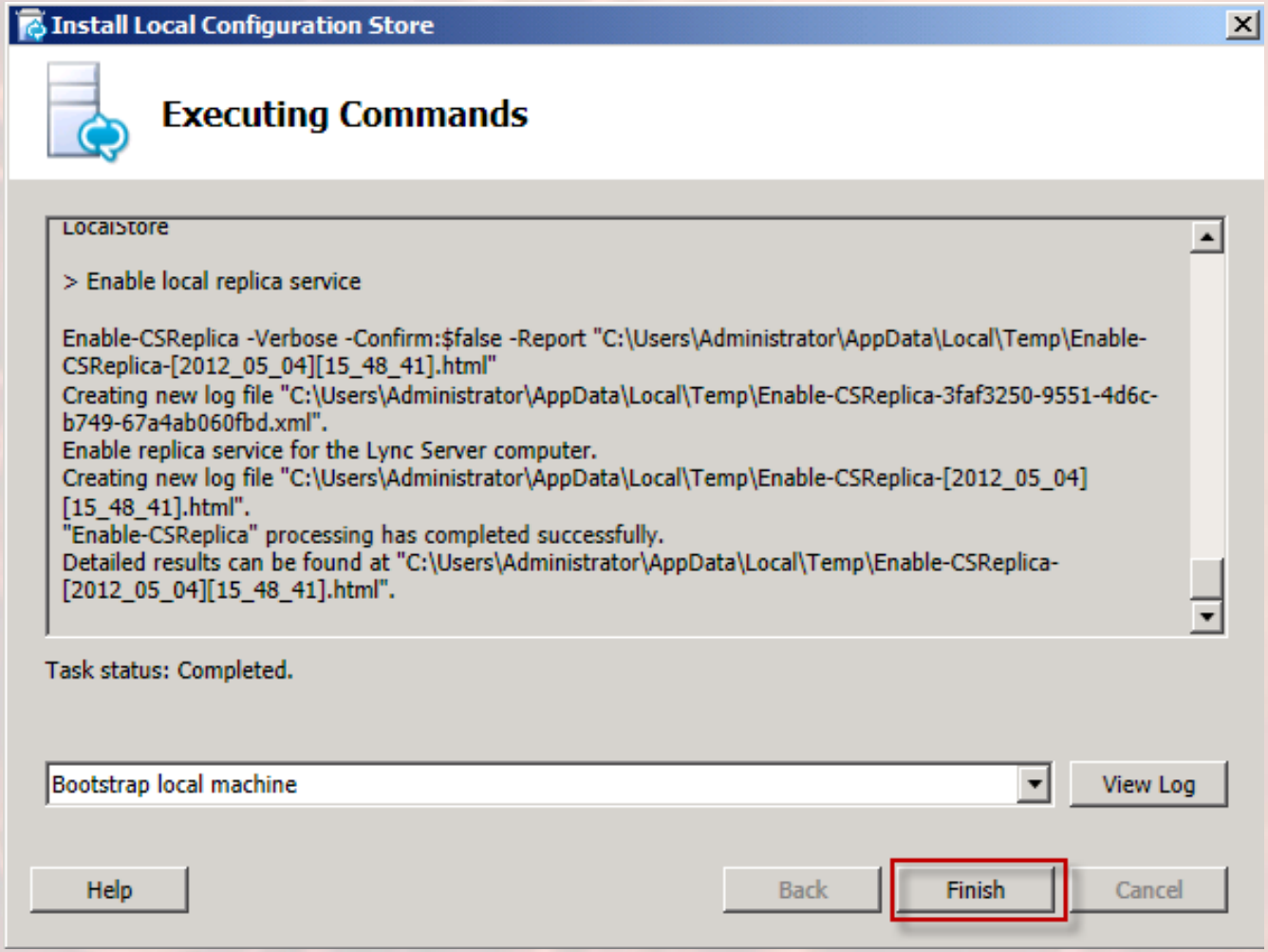
Seleccionamos el archivo exportardo en los pasos anteriores



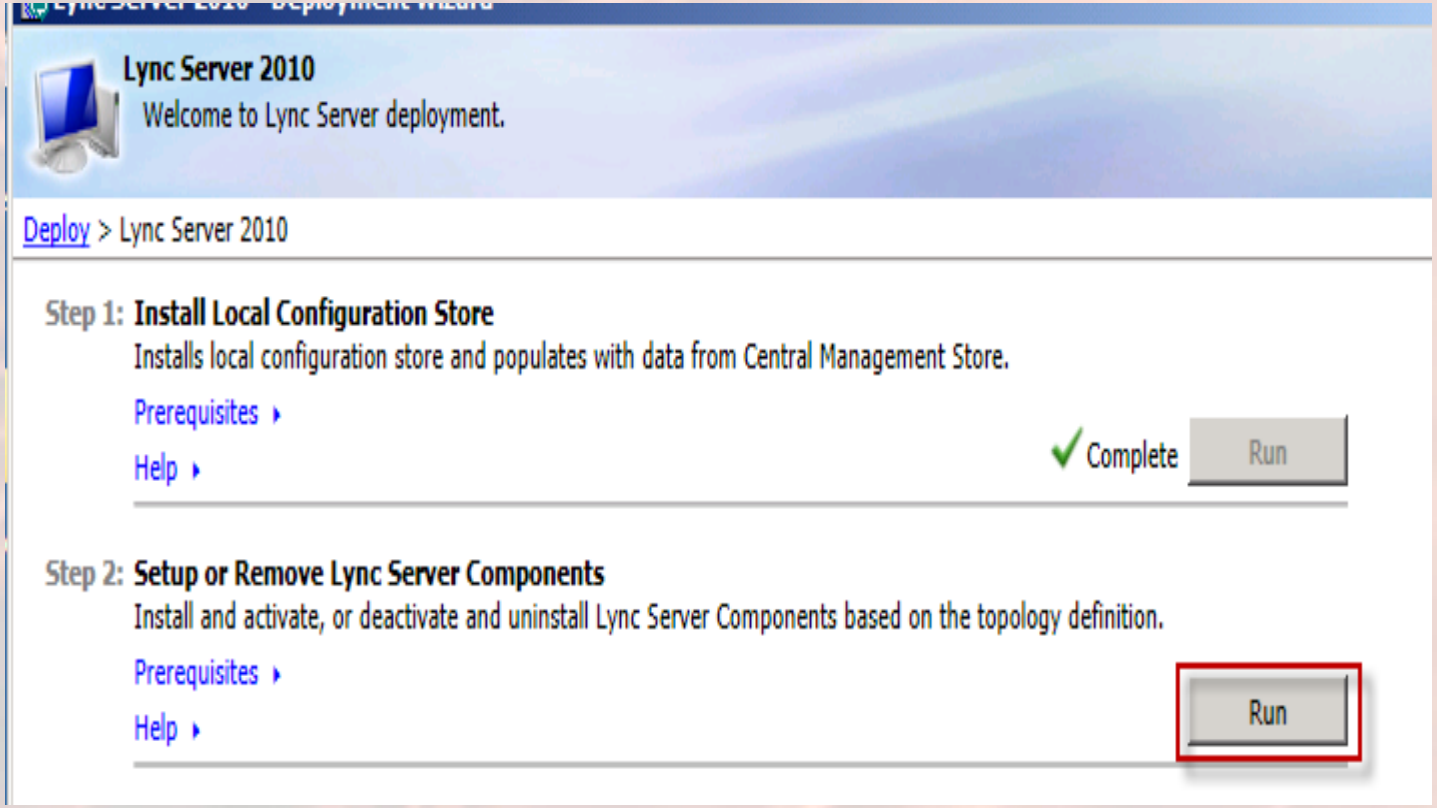
Seleccionamos -> **Next**



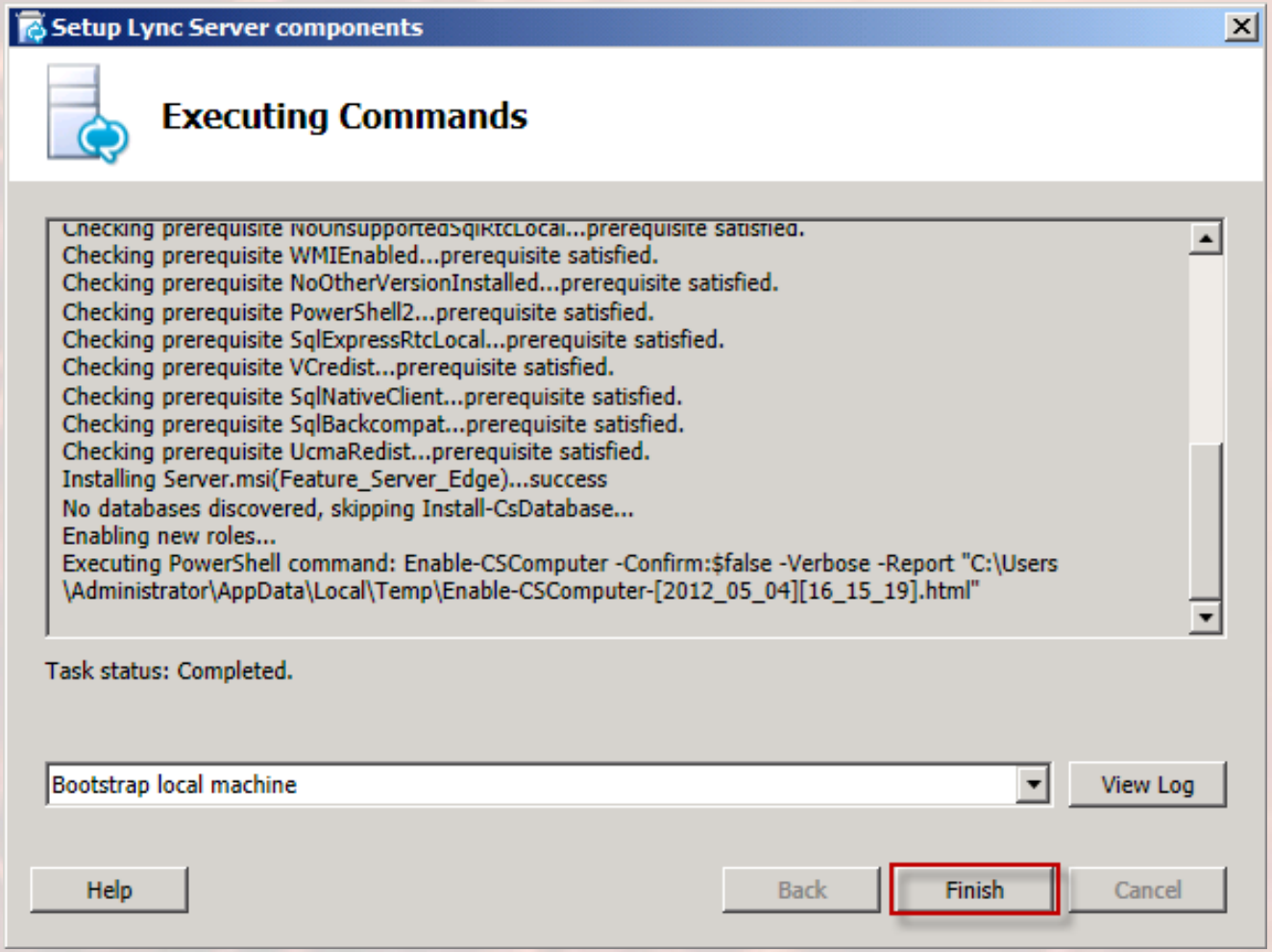
Seleccionamos -> **Finish**



Seleccionamos -> **Setup or Remove Lync Server Componet -> Run -> Next**

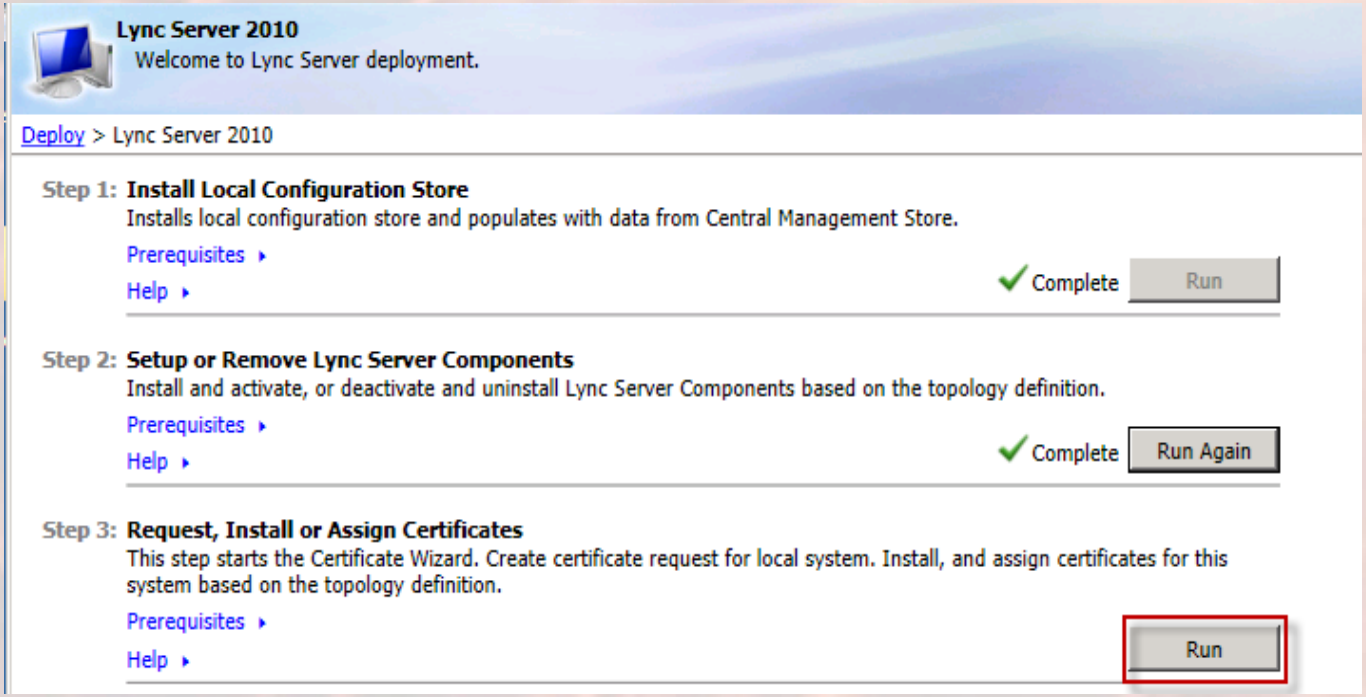


Seleccionamos -> **Finish**

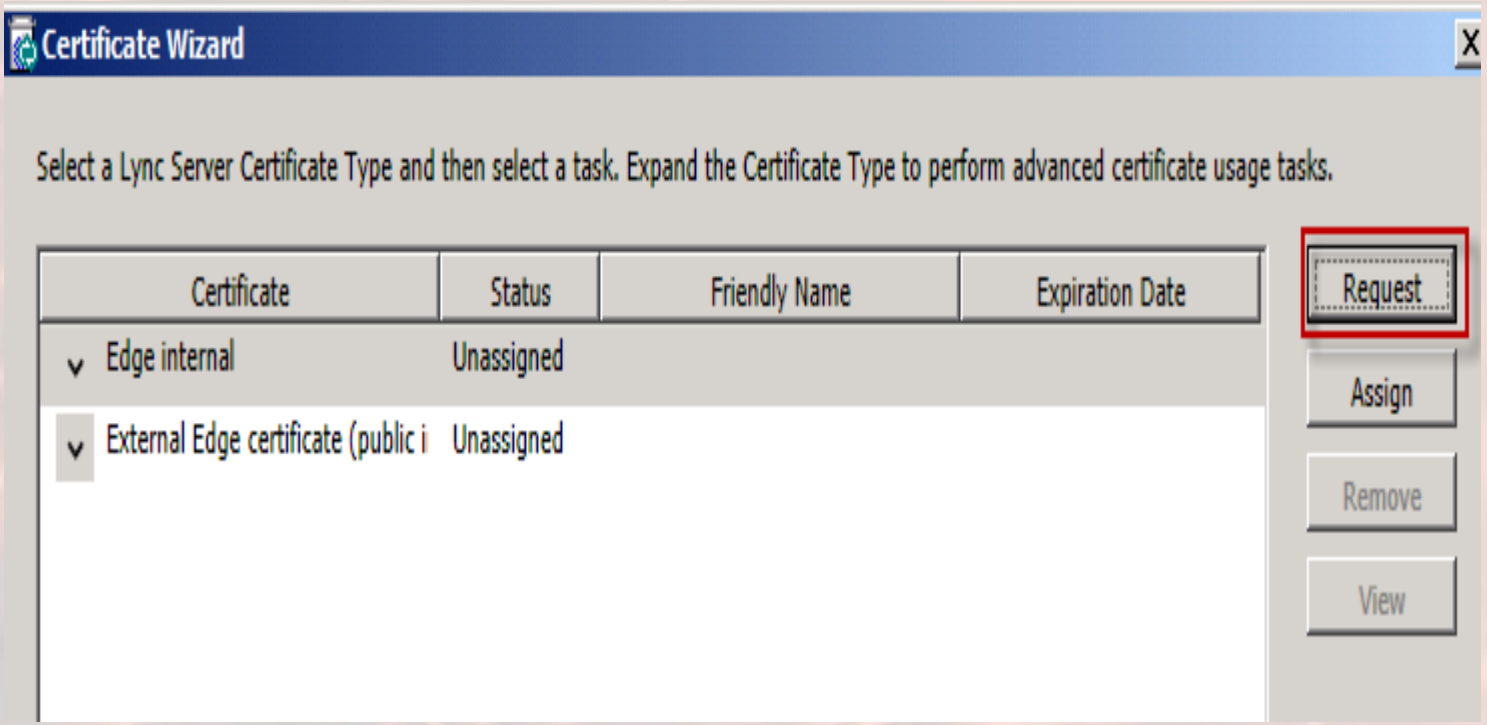


Ya tenemos la instalación completa solo nos falta generar el certificado en el laboratorio lo vamos a hacer con una CA Interna en producción se debe comprar un certificado publico, importamos el certificado de nuestra root CA siguiendo este instructivo http://bit.ly/x7DatO

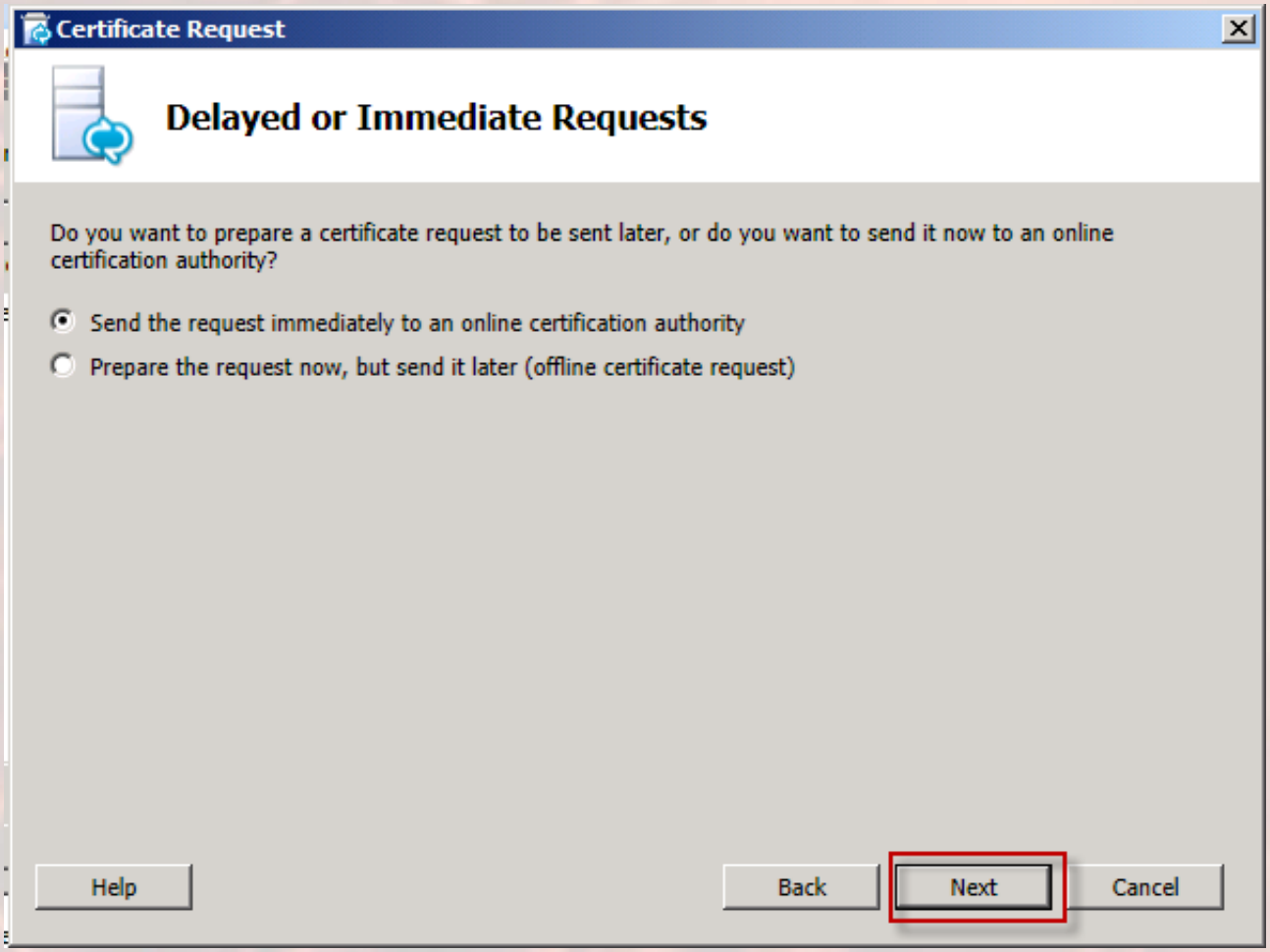
Seleccionamos –> **Request, Install or Assing Certificates -> Run**



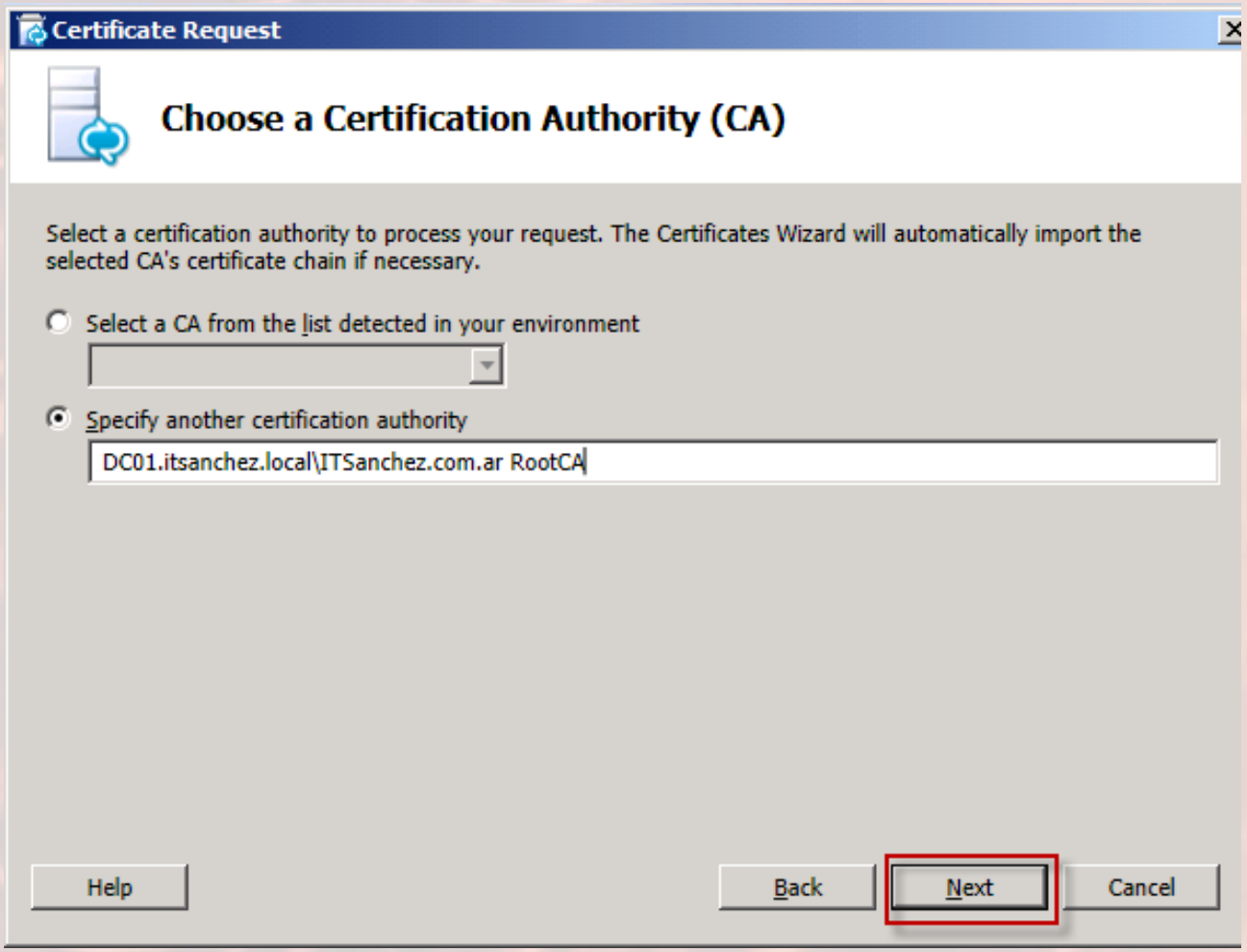
Seleccionamos –> **Request**



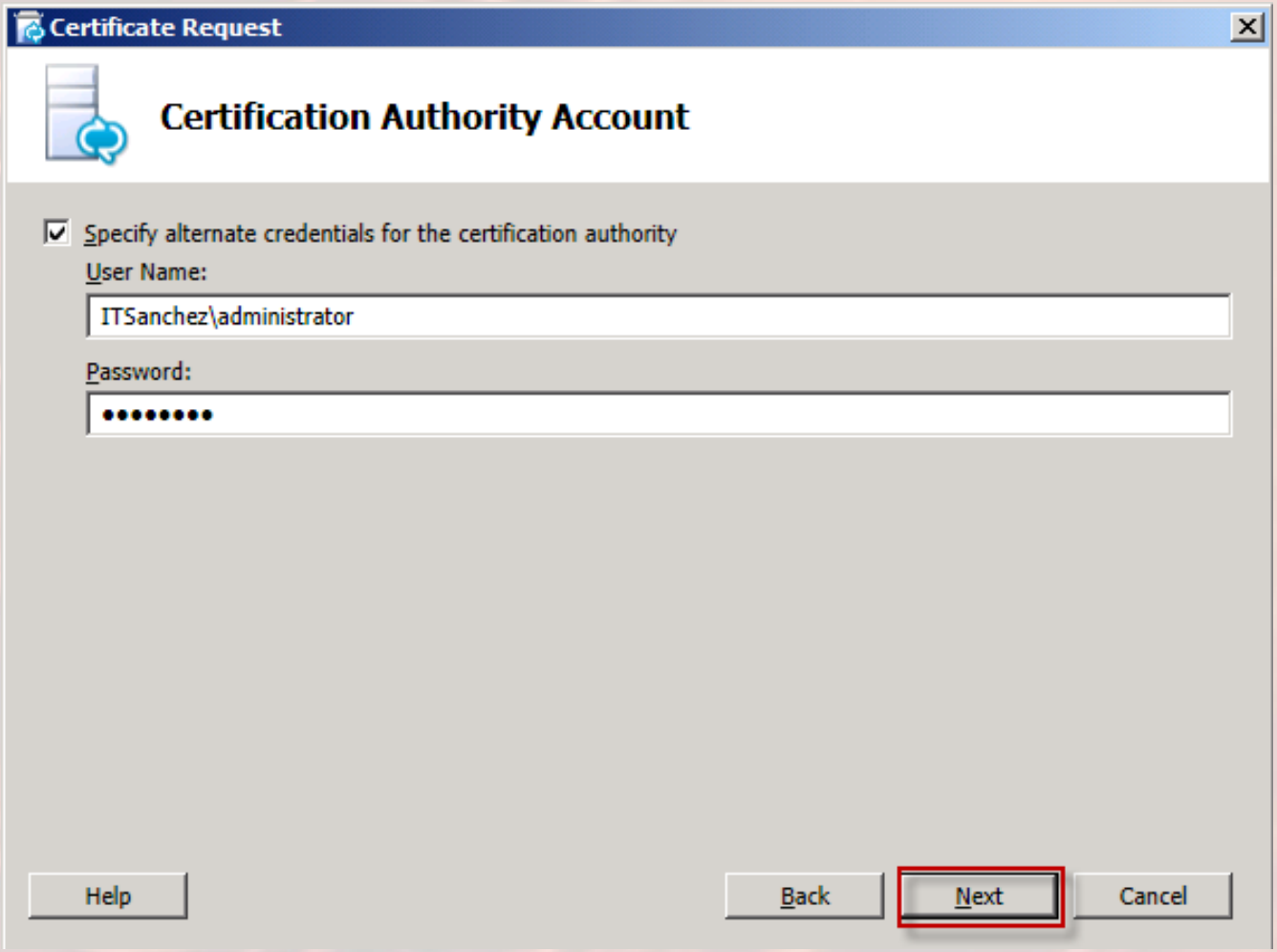
Seleccionamos -> **Send the request … -> Next**



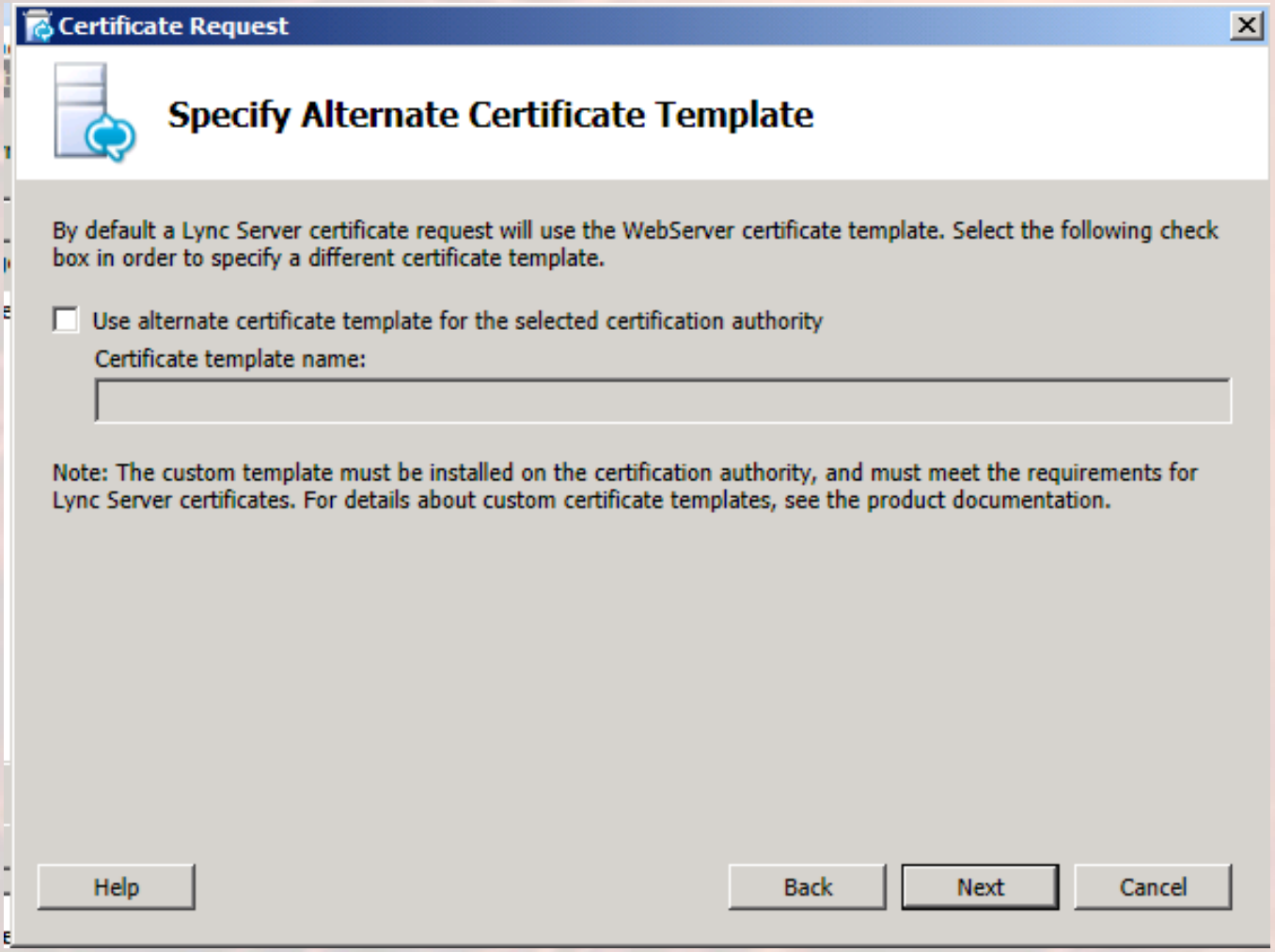
Completamos los datos de nuestra RootCA -> **Next**



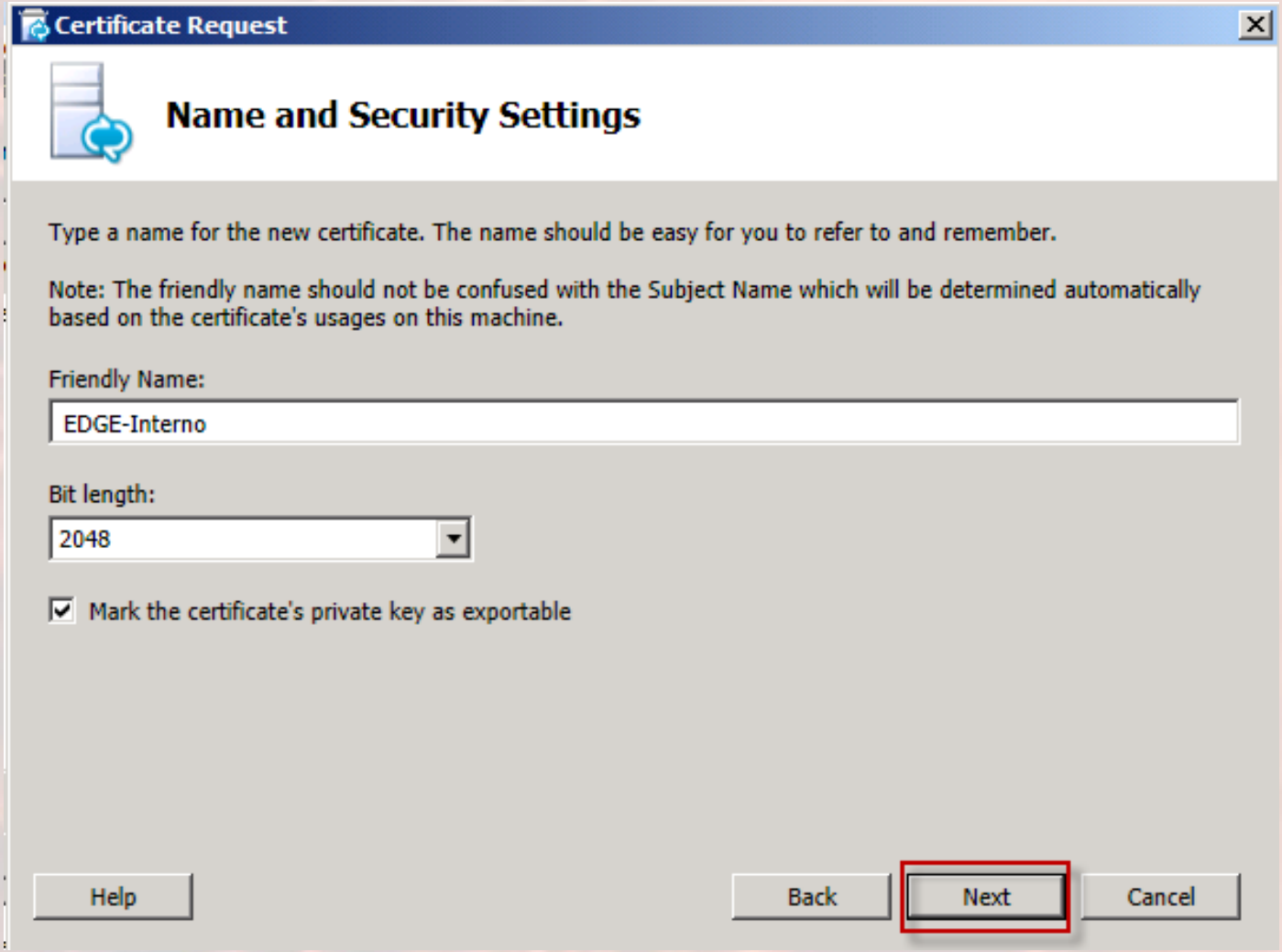
Seleccionamos el usuario que valida-> **Next**



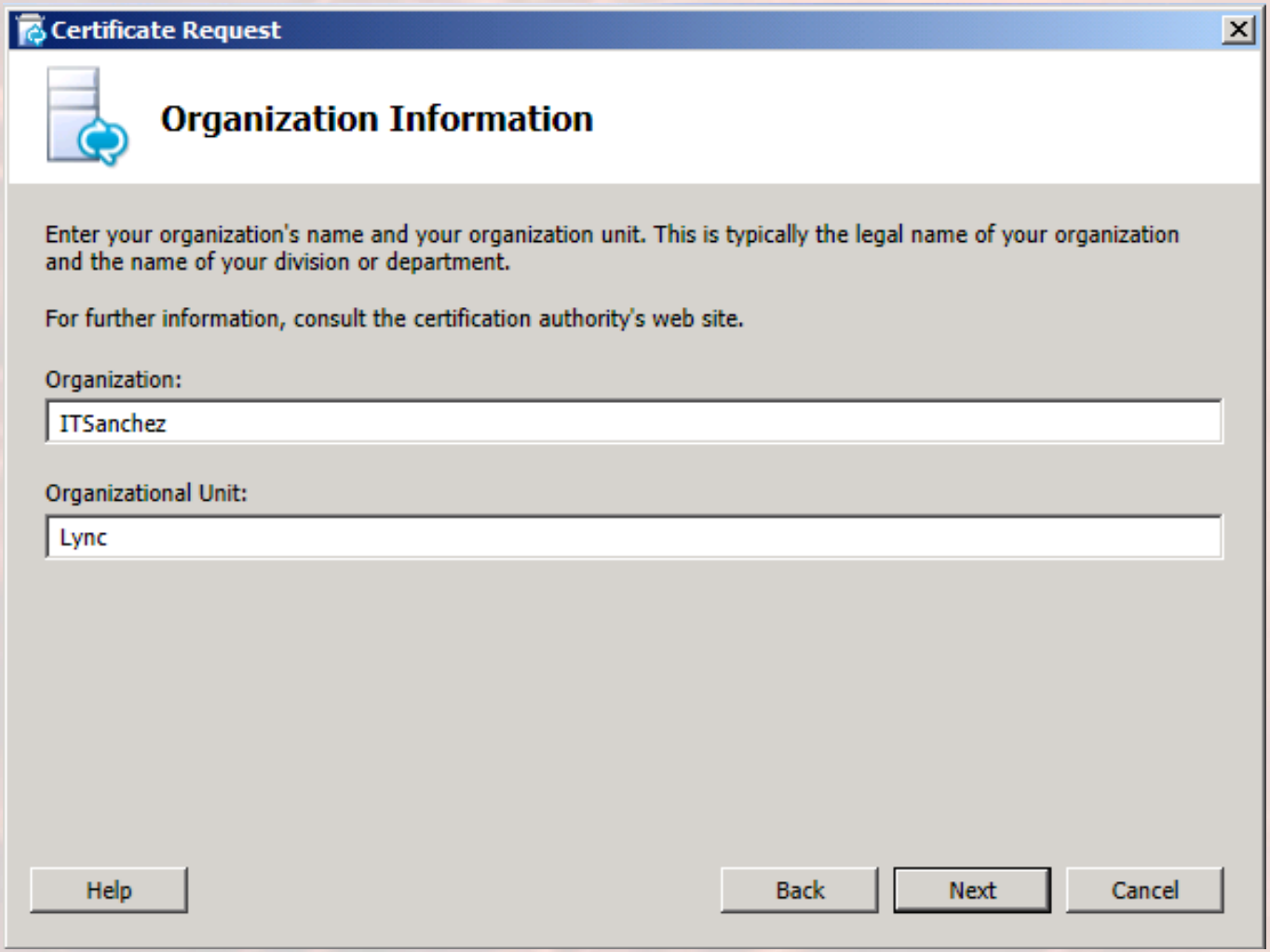
Seleccionamos -> **Next**



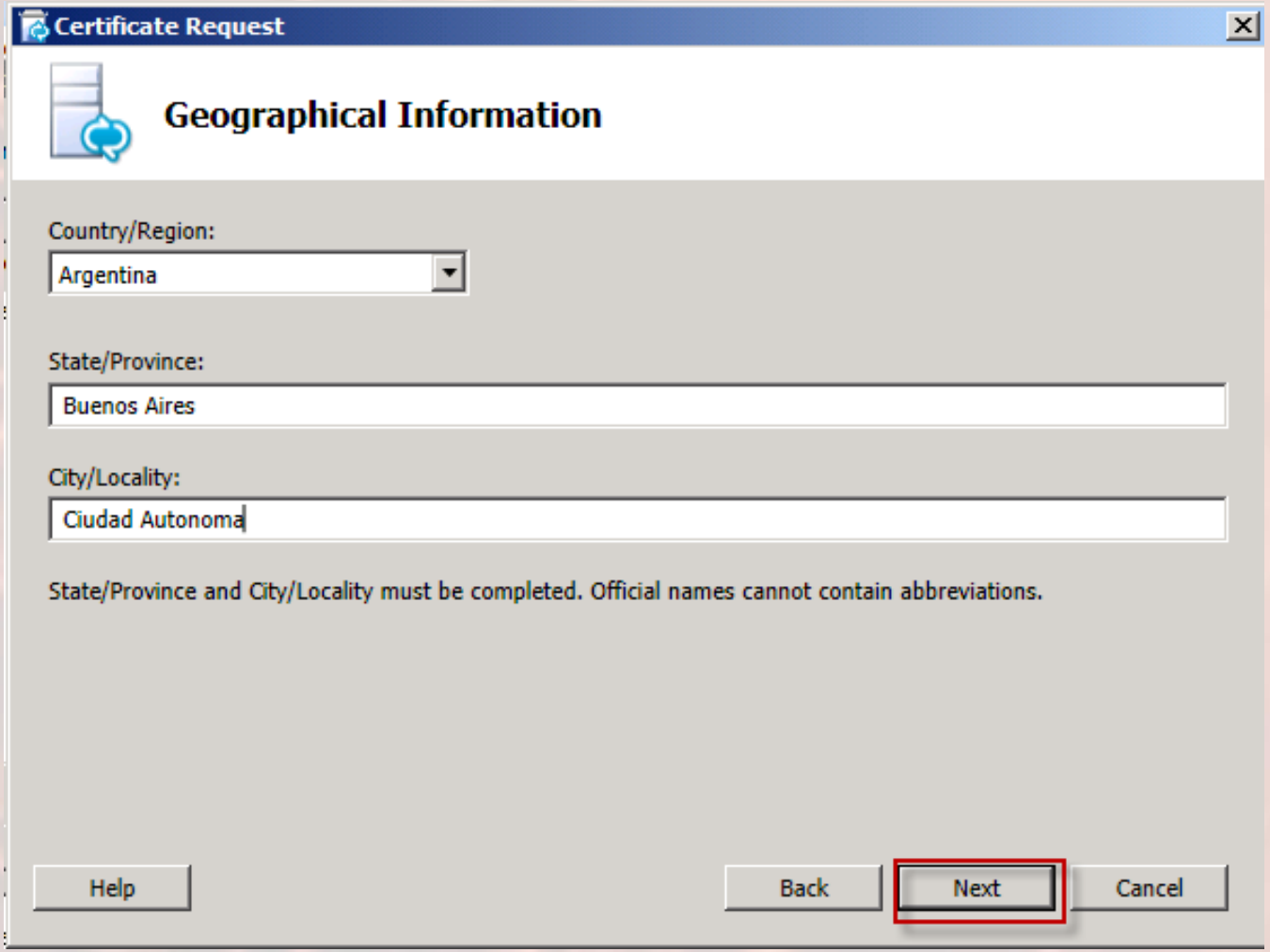
Seleccionamos -> **Friendy Name-> Next**



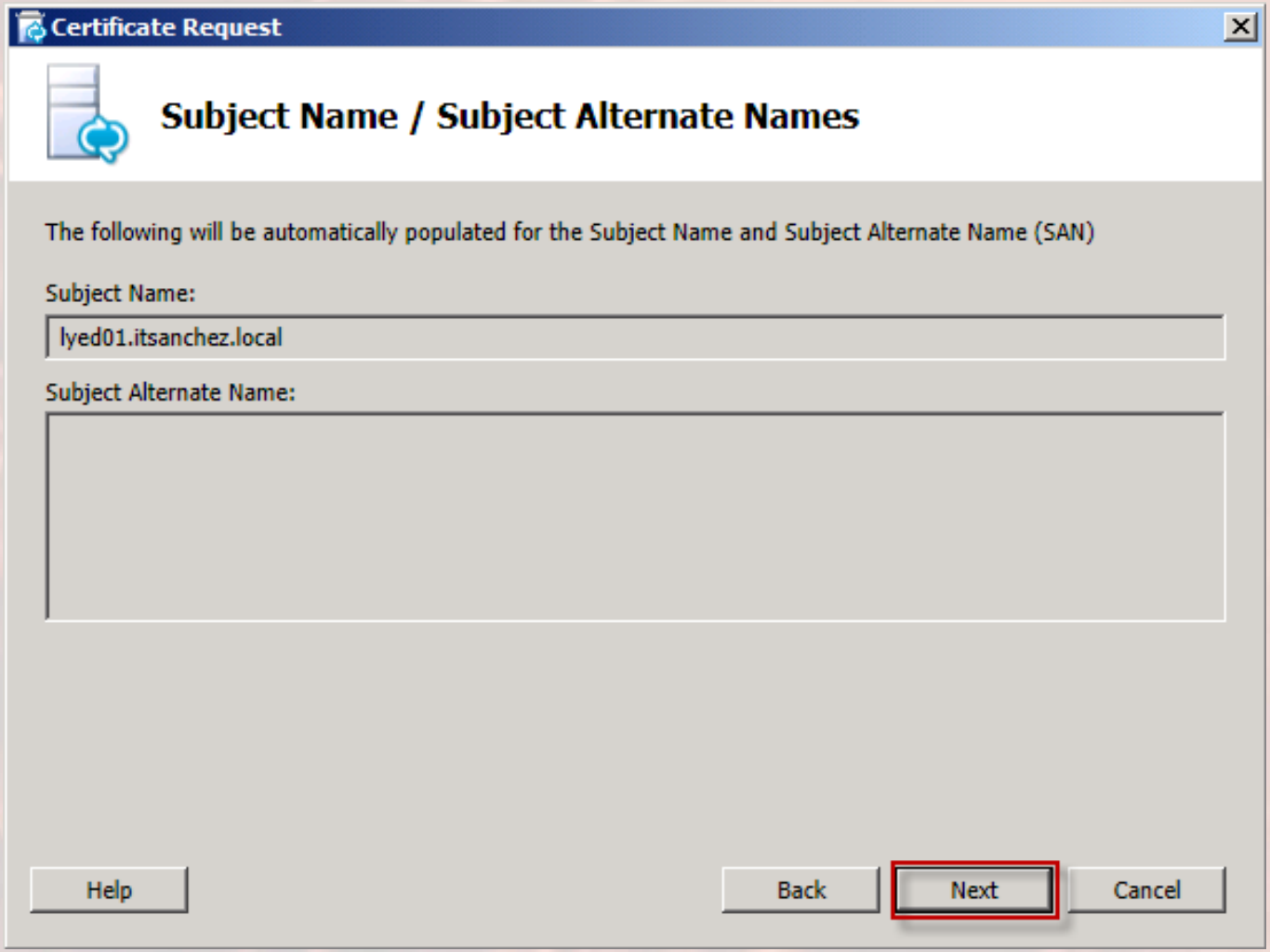
Completamos los datos-> **Next**



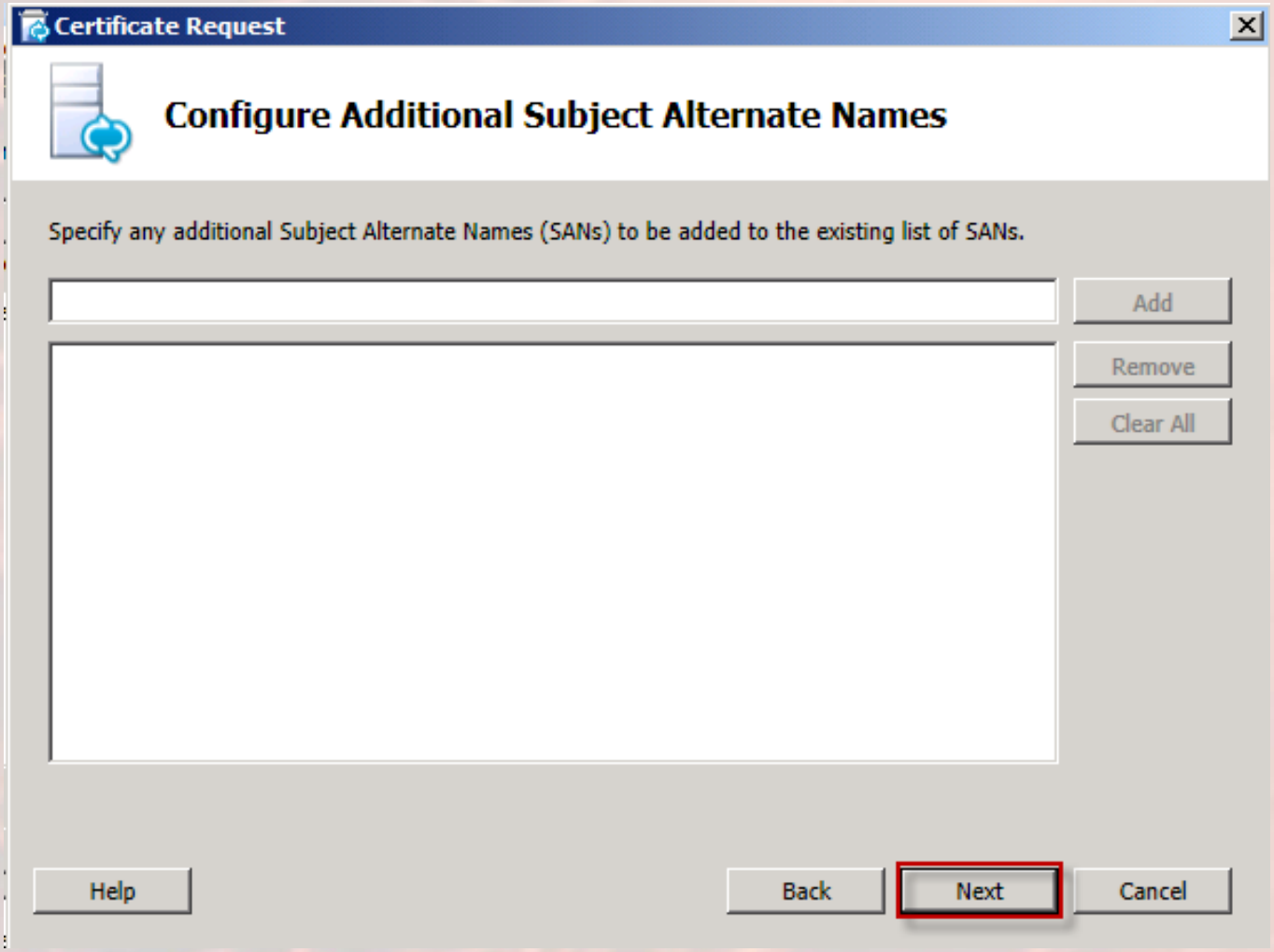
Completamos los datos -> **-> Next**



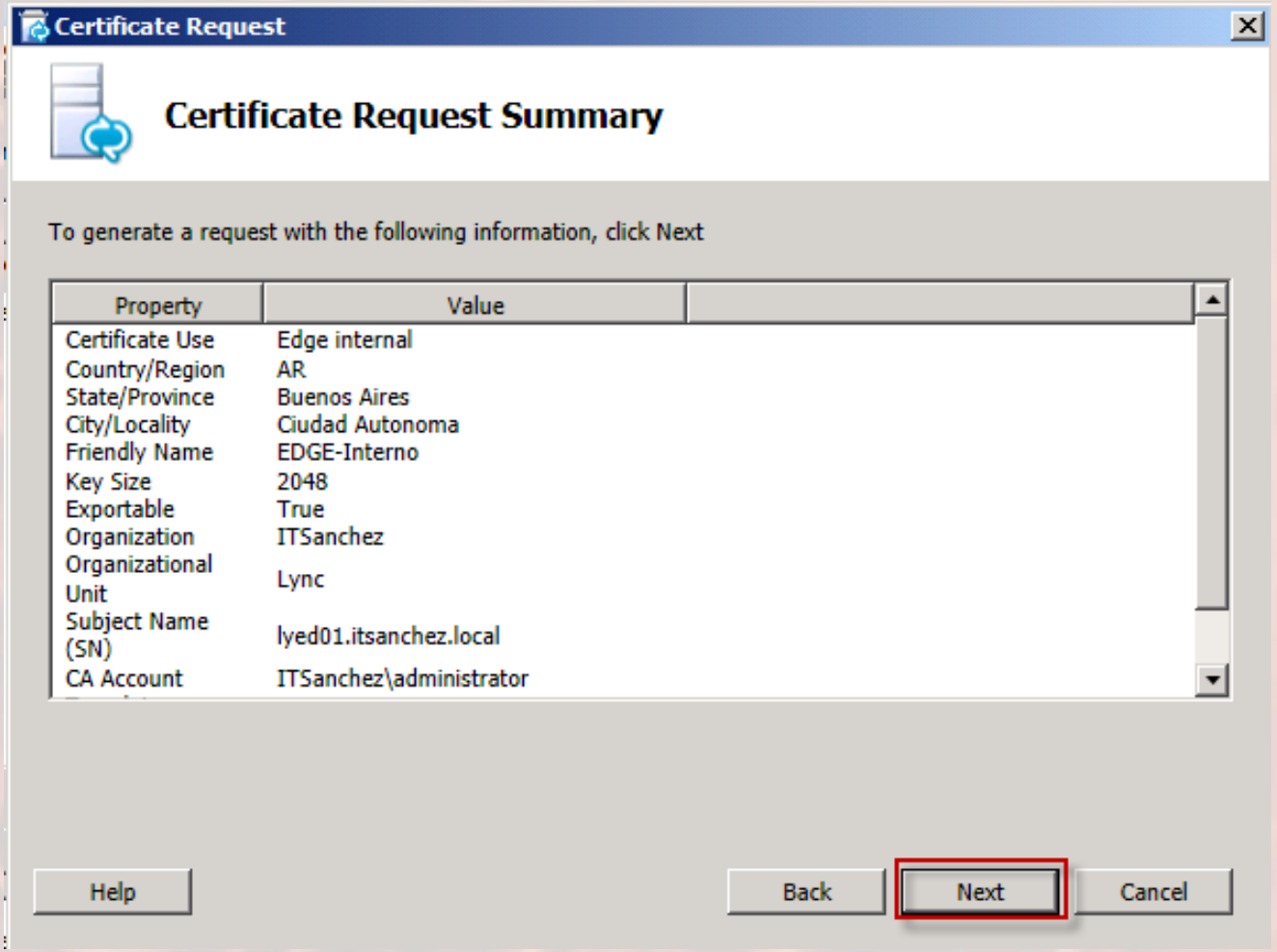
Confirmamos -> **Next**



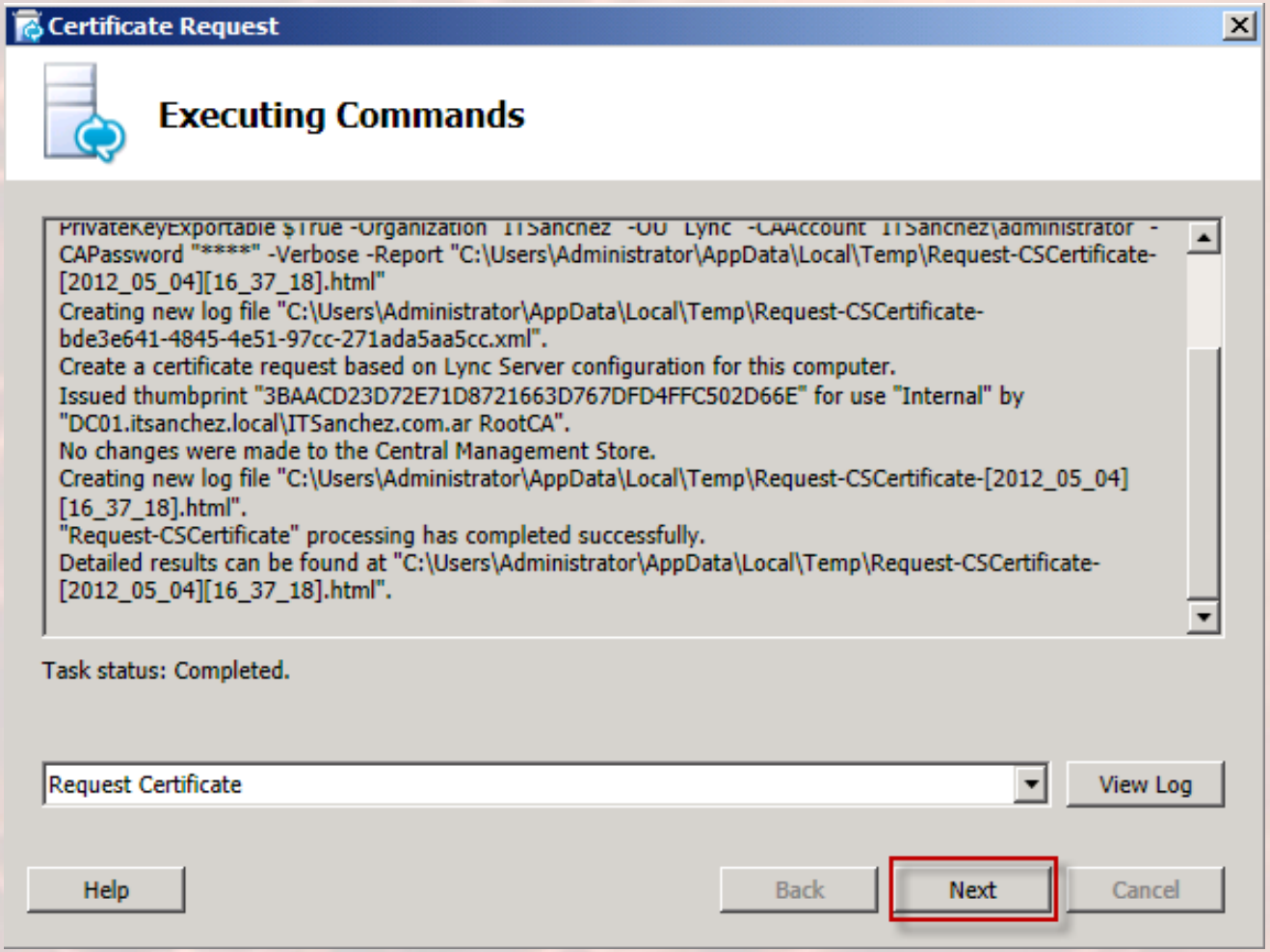
Seleccionamos -> **Next**



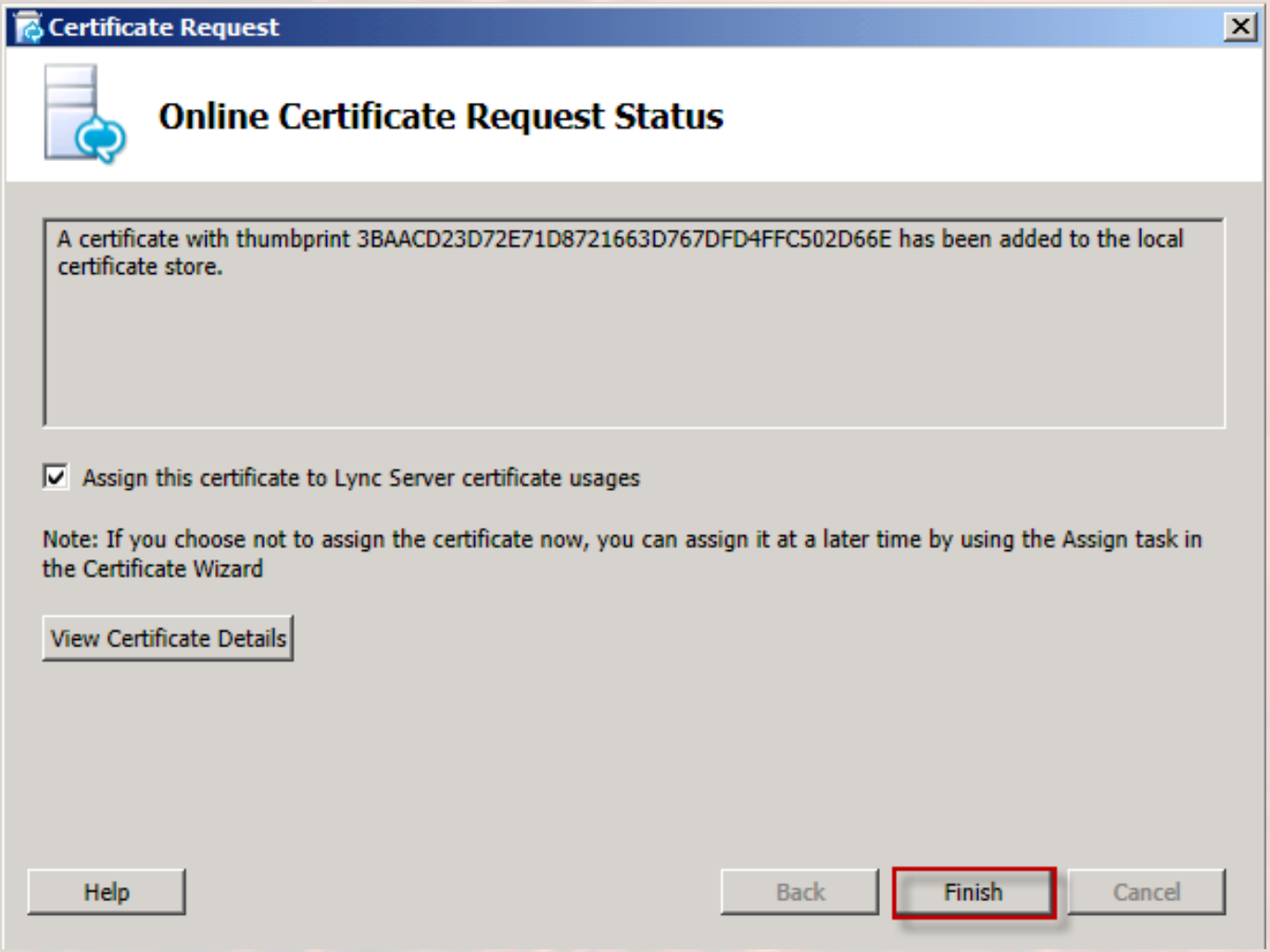
Seleccionamos -> **Next**



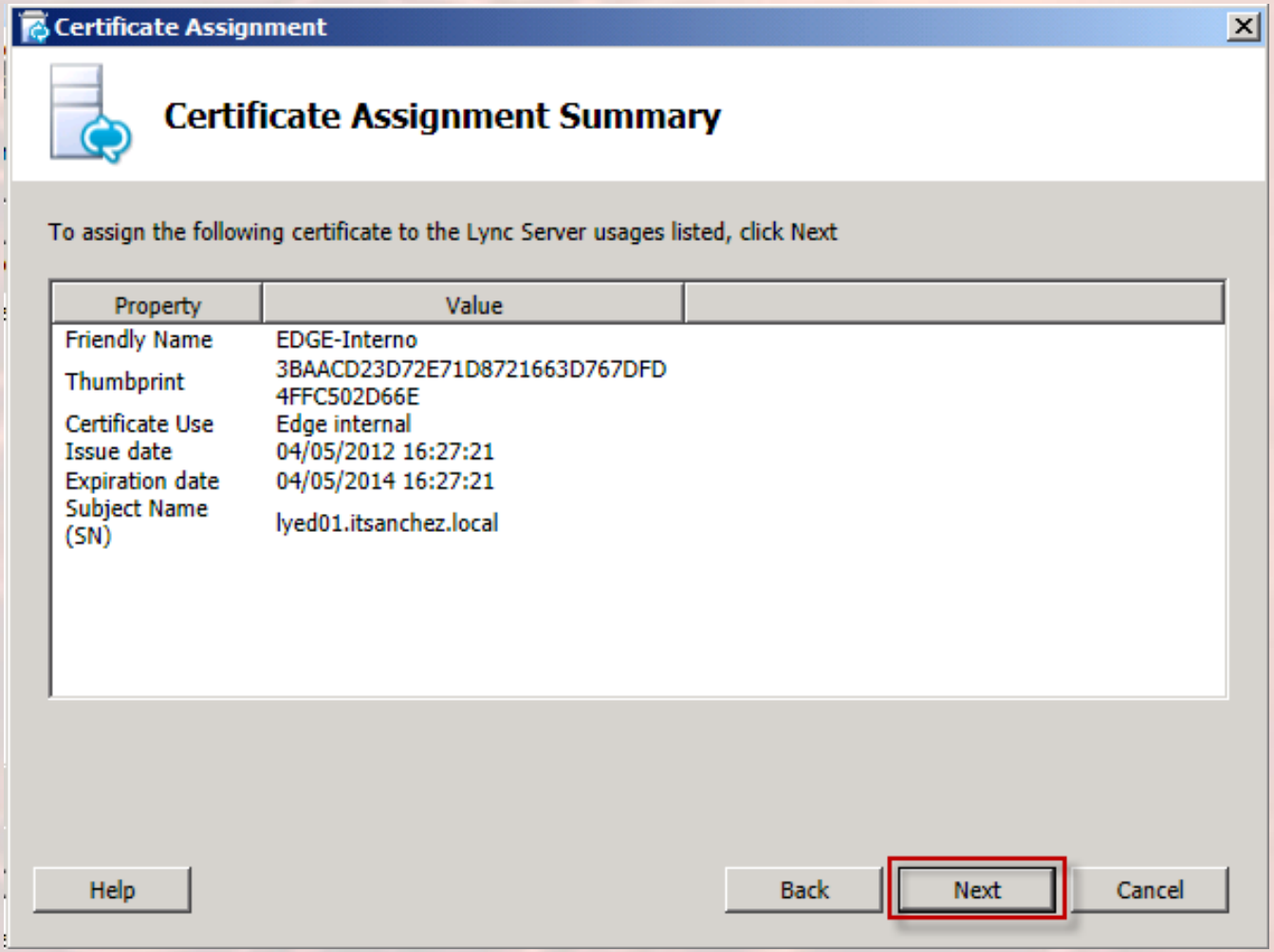
Seleccionamos -> **Next**



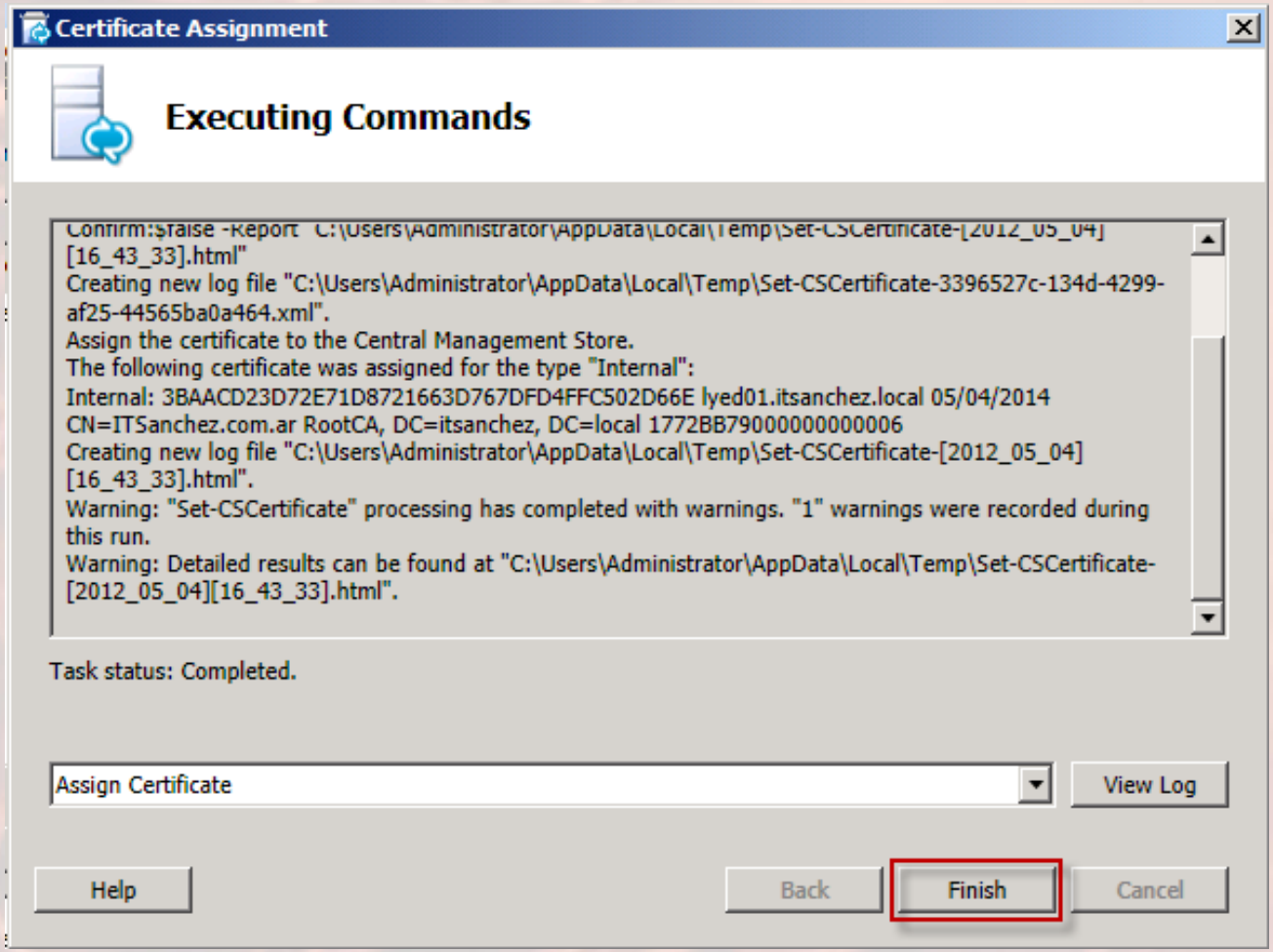
Seleccionamos -> **Finish**



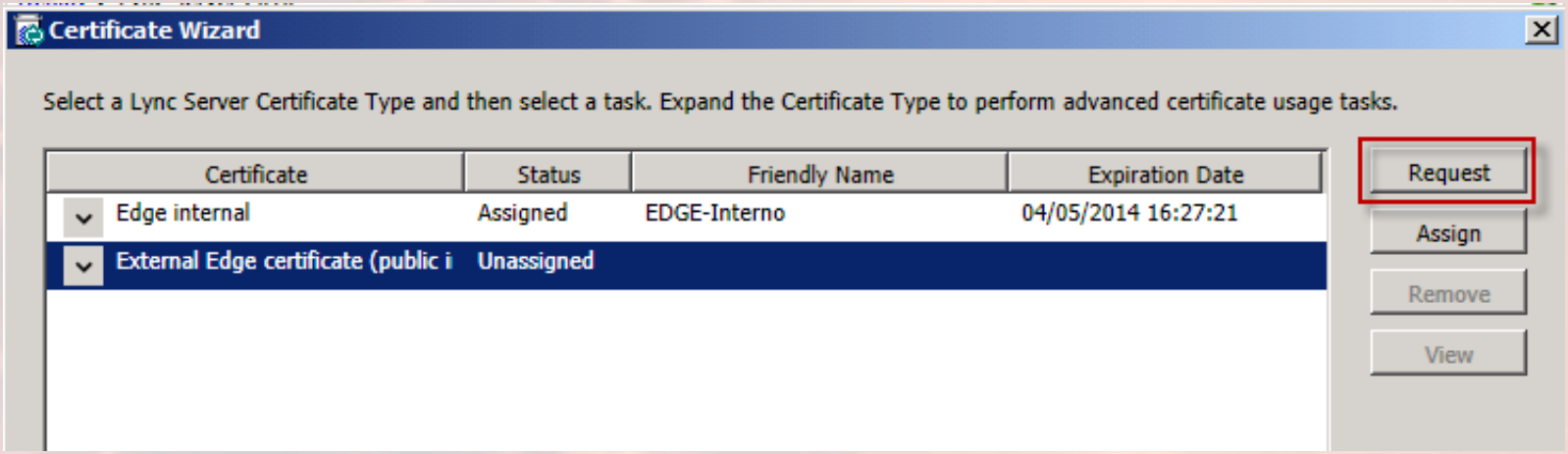
Seleccionamos -> **Next**



Seleccionamos -> **Finish**

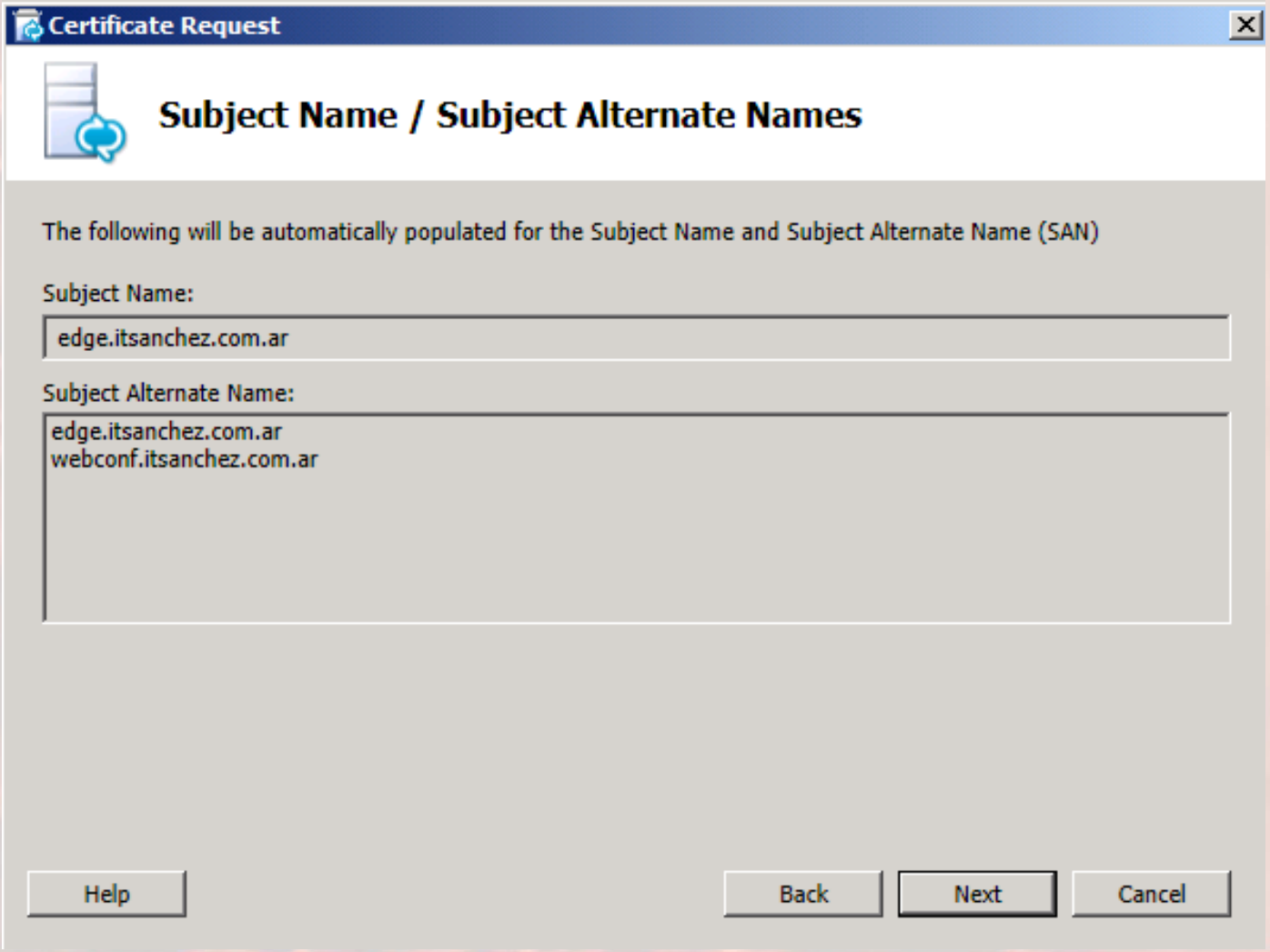


Seleccionamos -> **Request**



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

Subjet predeterminados



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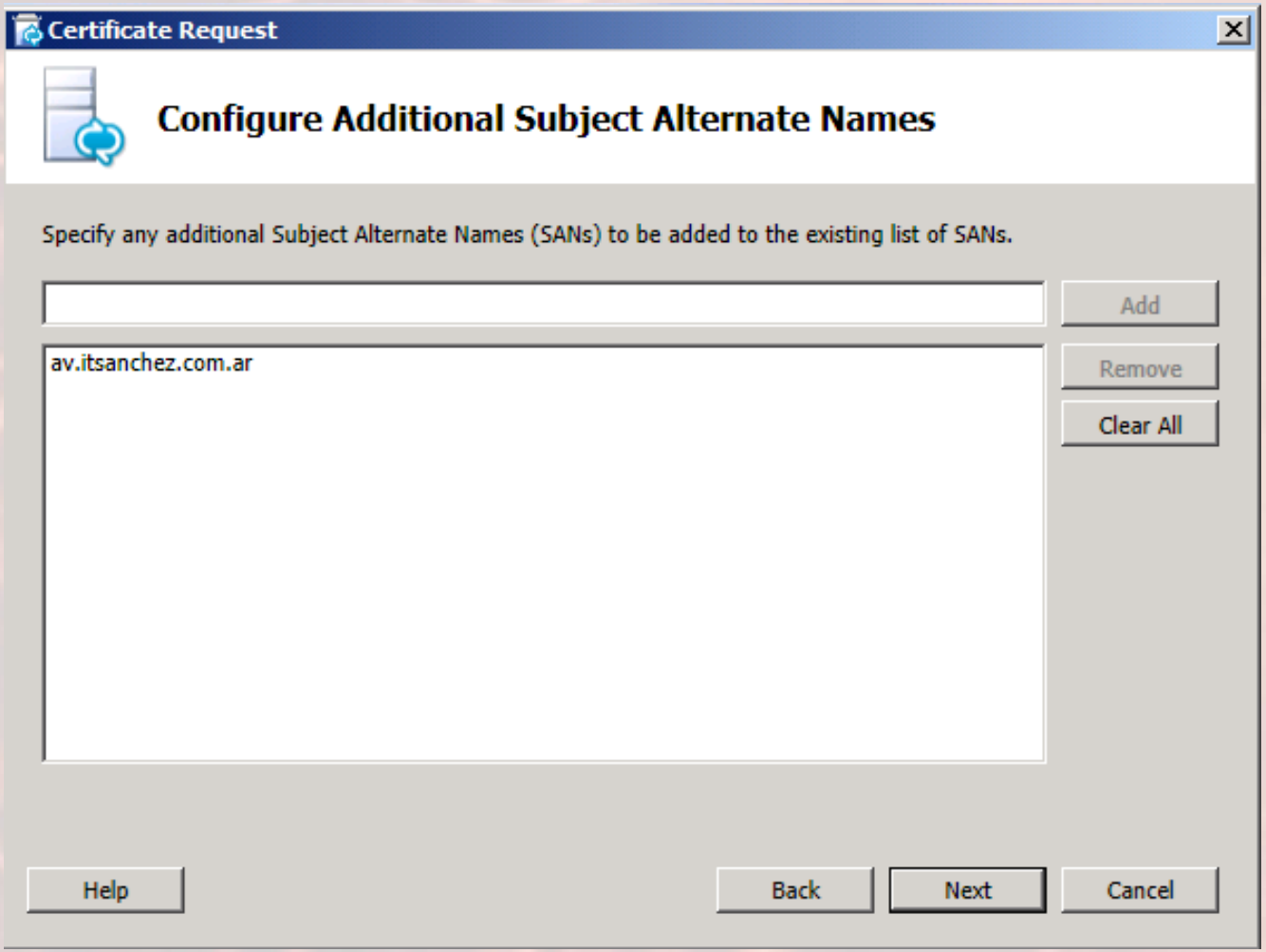
Agregamos av.itsanchez.com.ar



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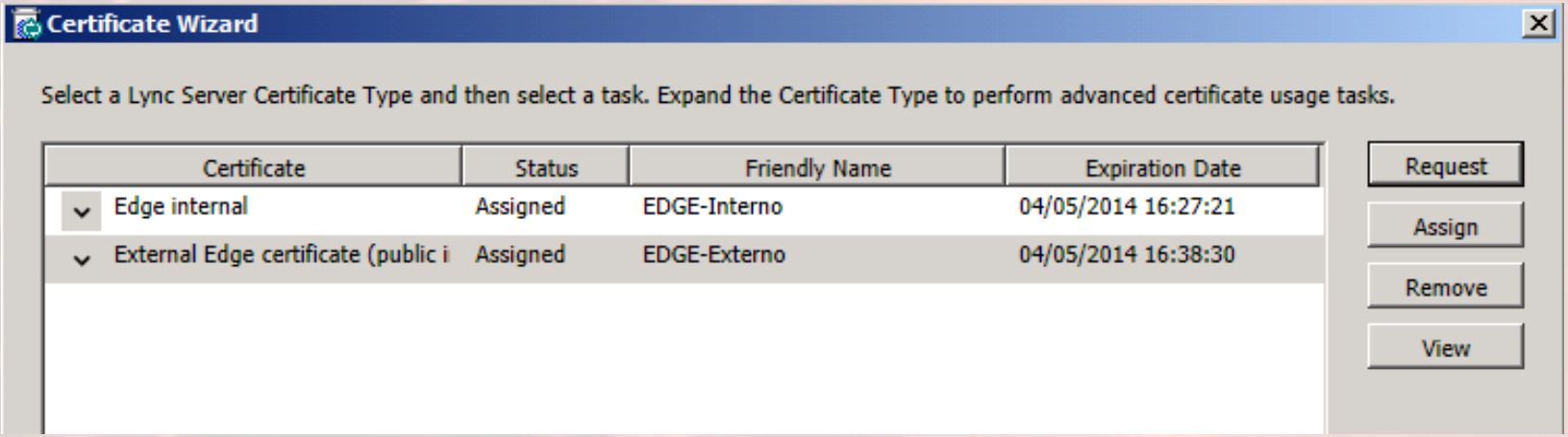
Validamos que los certificados están asignados



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

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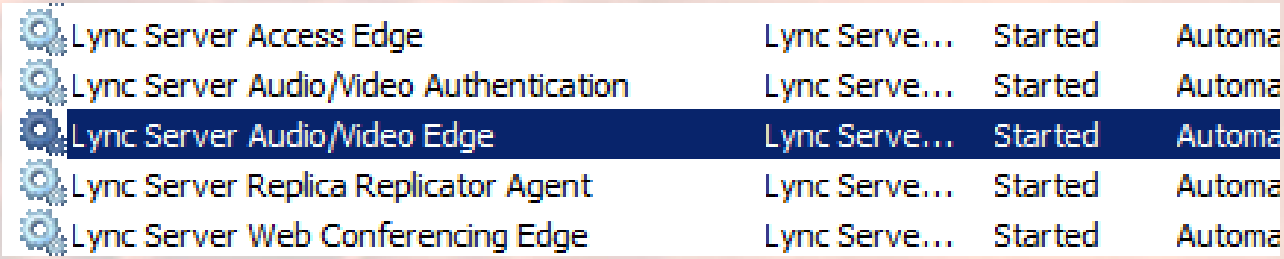
Validamos que todos los servicios están activos en los servicios de Wndows (**Services.msc**)



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
gsanchez@itsanchez.com.ar