



Installation et Configuration d'un serveur DHCP

>>> Windows Serveur 2003, 2008 et 2008R2

Description :

Le but de ce cours est de vous apprendre à configurer un serveur DHCP sous Windows server 2008R2 English.

Installation et Configuration d'un serveur DHCP

>>> Windows Serveur 2003, 2008 et 2008R2

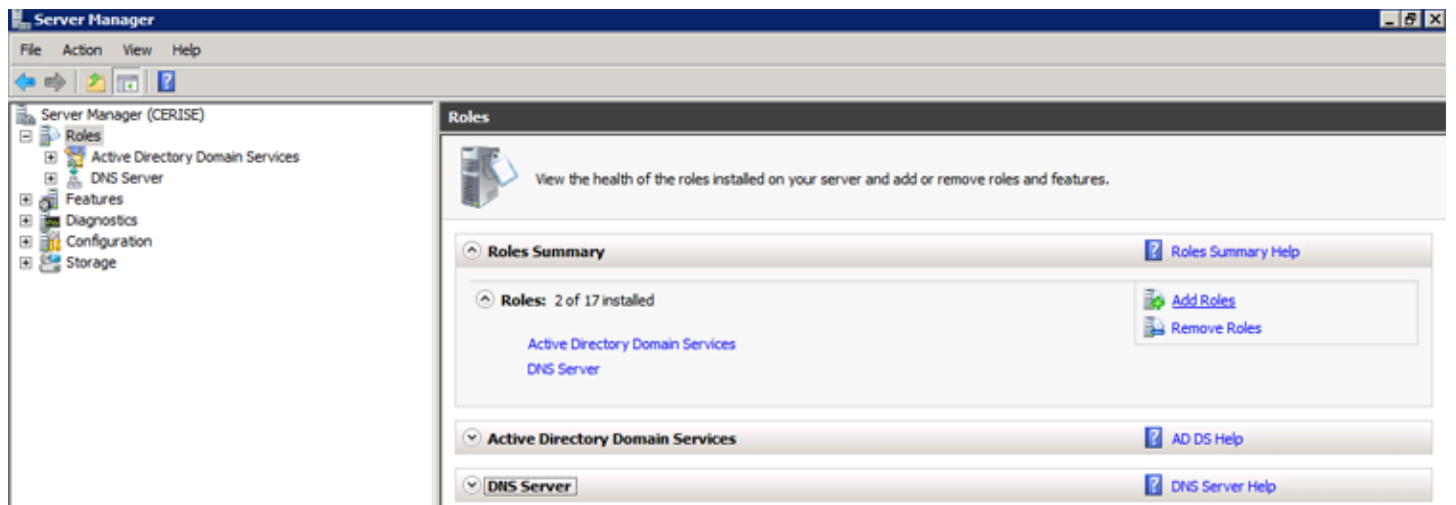
Un serveur DHCP est un serveur qui attribue une configuration IP (adresse IP, masque, passerelle, serveur de noms) aux ordinateurs configurés en adressage dynamique. Avec un serveur DHCP, l'utilisateur n'a plus besoin de rentrer les informations lui-même, le serveur s'en charge.

Sommaire :

- I) Installation et configuration du DHCP
- II) Ajouter une réservation d'adresse
- III) Test

I) Installation et configuration du DHCP

Pour installer un serveur DHCP commencez par ouvrir le "Server Manager", puis cliquez sur **Add roles**.



Cochez **DHCP Server**, puis cliquez sur **Next**.



Select Server Roles

Before You Begin

Server Roles

DHCP Server

Network Connection Bindings

IPv4 DNS Settings

IPv4 WINS Settings

DHCP Scopes

DHCPv6 Stateless Mode

IPv6 DNS Settings

DHCP Server Authorization

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Results

Select one or more roles to install on this server.

Roles:

- Active Directory Certificate Services
- Active Directory Domain Services (Installed)
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Application Server
- DHCP Server**
- DNS Server (Installed)
- Fax Server
- File Services
- Hyper-V
- Network Policy and Access Services
- Print and Document Services
- Remote Desktop Services
- Web Server (IIS)
- Windows Deployment Services
- Windows Server Update Services

Description:

[Dynamic Host Configuration Protocol \(DHCP\) Server](#) enables you to centrally configure, manage, and provide temporary IP addresses and related information for client computers.

[More about server roles](#)

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Cliquez sur **Next**.

Add Roles Wizard [X]



DHCP Server

Before You Begin

Server Roles

- DHCP Server**
- Network Connection Bindings
- IPv4 DNS Settings
- IPv4 WINS Settings
- DHCP Scopes
- DHCPv6 Stateless Mode
- IPv6 DNS Settings
- DHCP Server Authorization

Confirmation

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Results

Introduction to DHCP Server

The Dynamic Host Configuration Protocol allows servers to assign, or lease, IP addresses to computers and other devices that are enabled as DHCP clients. Deploying a DHCP server on the network provides computers and other TCP/IP-based network devices with valid IP addresses and the additional configuration parameters these devices need, called DHCP options. This allows computers and devices to connect to other network resources, such as DNS servers, WINS servers, and routers.

Things to Note

- i** You should configure at least one static IP address on this computer.
- i** Before you install DHCP Server, you should plan your subnets, scopes, and exclusions. Make a record of the plan in a safe place for later reference.

Additional Information

- [DHCP Server Overview](#)
- [Defining DHCP Scopes](#)
- [Integrating DHCP with DNS](#)

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Sélectionnez l'interface réseau ou les interfaces réseau qui écouteront les requêtes DHCP.



Select Network Connection Bindings

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IPv6 DNS Settings

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One or more network connections having a static IP address were detected. Each network connection can be used to service DHCP clients on a separate subnet.

Select the network connections that this DHCP server will use for servicing clients.

Network Connections:

IP Address	Type
<input checked="" type="checkbox"/> 192.168.1.3	IPv4

Details

Name: Local Area Connection 3
Network Adapter: Local Area Connection 3
Physical Address: 00-13-46-8D-38-31

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Entrez ensuite le nom du domaine, l'adresse IP du serveur DNS local, puis l'adresse IP du serveur DNS public.



Specify IPv4 DNS Server Settings

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IPv4 WINS Settings

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IPv6 DNS Settings

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When clients obtain an IP address from the DHCP server, they can be given DHCP options such as the IP addresses of DNS servers and the parent domain name. The settings you provide here will be applied to clients using IPv4.

Specify the name of the parent domain that clients will use for name resolution. This domain will be used for all scopes you create on this DHCP server.

Parent domain:

Specify the IP addresses of the DNS servers that clients will use for name resolution. These DNS servers will be used for all scopes you create on this DHCP server.


Preferred DNS server IPv4 address:

Alternate DNS server IPv4 address:

[More about DNS server settings](#)

Configurez ou non les paramètres WINS. N'ayant pas de serveur WINS, je sélectionne la première option.

Add Roles Wizard [X]



Specify IPv4 WINS Server Settings

Before You Begin

- Server Roles
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 - IPv4 WINS Settings**
 - DHCP Scopes
 - DHCPv6 Stateless Mode
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When clients obtain an IP address from the DHCP server, they can be given DHCP options such as the IP addresses of WINS servers. The settings you provide here will be applied to clients using IPv4.

WINS is not required for applications on this network

WINS is required for applications on this network

Specify the IP addresses of the WINS servers that clients will use for name resolution. These WINS servers will be used for all scopes you create on this DHCP server.

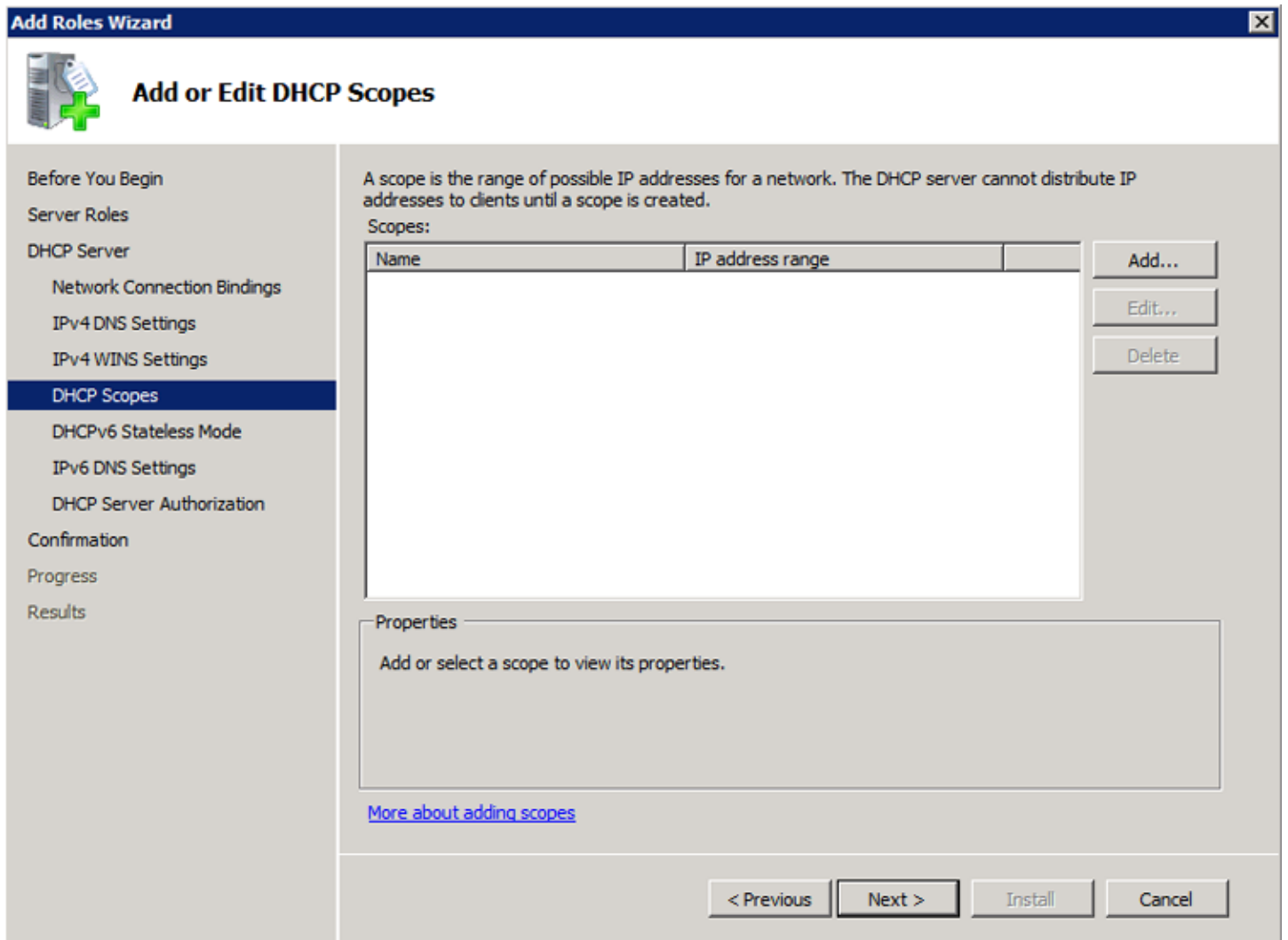
Preferred WINS server IP address:

Alternate WINS server IP address:

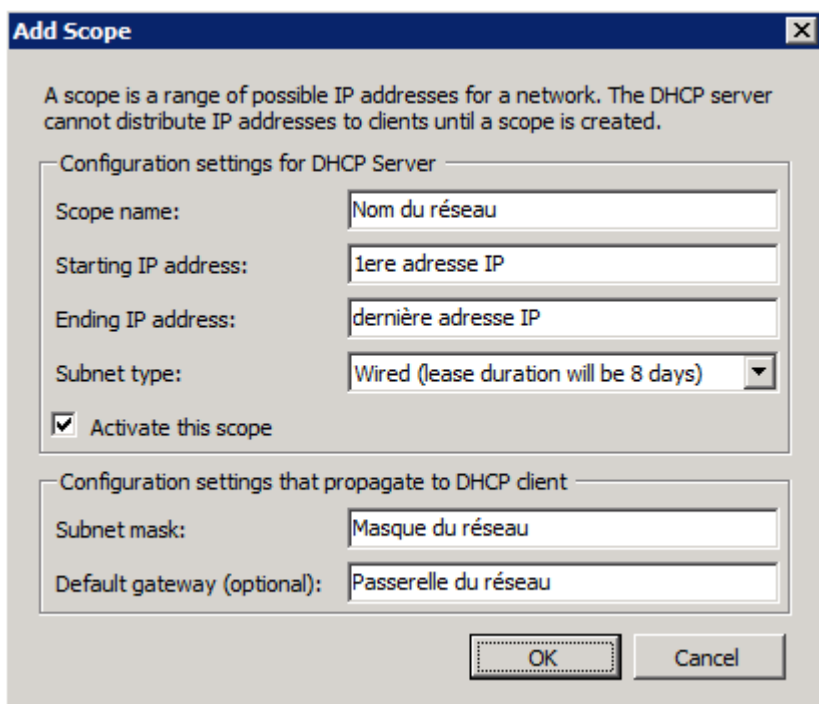
[More about WINS server settings](#)

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On vous demande ensuite de configurer les étendues d'adresse IP qui seront distribuées par le serveur. Cliquez sur **Add**.



Entrez les paramètres de votre réseau comme sur l'image ci-dessous.



Lorsque vous avez ajouté les étendues souhaitées, cliquez sur **Next**.

Add Roles Wizard

Add or Edit DHCP Scopes

Before You Begin

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A scope is the range of possible IP addresses for a network. The DHCP server cannot distribute IP addresses to clients until a scope is created.

Scopes:

Name	IP address range	
Réseau 2	192.168.1.1 - 192.168.1.10	
Réseau 1	10.1.0.1 - 10.1.0.10	

Buttons: Add... Edit... Delete

Properties


Default gateway:	10.1.0.254
Subnet mask:	255.255.254.0
IP address range:	10.1.0.1 - 10.1.0.10
Activate scope:	Yes

[More about adding scopes](#)

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L'assistant d'installation vous demande si vous voulez configurer le serveur en IPv6. N'ayant que des adresses IPv4, je sélectionne la deuxième option (Disable DHCPv6).

Add Roles Wizard [X]



Configure DHCPv6 Stateless Mode

Before You Begin

- Server Roles
 - DHCP Server
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 - IPv4 DNS Settings
 - IPv4 WINS Settings
 - DHCP Scopes
 - DHCPv6 Stateless Mode**
 - DHCP Server Authorization
- Confirmation
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DHCP Server supports the DHCPv6 protocol for servicing IPv6 clients. Using DHCPv6, clients can automatically configure their own IPv6 addresses using stateless mode, or they can acquire IPv6 addresses in stateful mode from the DHCP server. If routers on your network are configured to support DHCPv6, verify that your selection below matches the router configuration.

Select the DHCPv6 stateless mode configuration for this server.


- Enable DHCPv6 stateless mode for this server
IPv6 clients will be automatically configured without using this DHCP server.
- Disable DHCPv6 stateless mode for this server
After installing DHCP Server, you can configure the DHCPv6 mode using the DHCP Management console.

[More about DHCPv6 stateless mode](#)

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On vous demande ensuite le login de l'administrateur autorisé à ajouter un serveur dans le domaine. (Ce message s'affiche car mon serveur est intégré au domaine).

Add Roles Wizard [X]



Authorize DHCP Server

Before You Begin

Server Roles

- DHCP Server
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 - IPv4 DNS Settings
 - IPv4 WINS Settings
 - DHCP Scopes
 - DHCPv6 Stateless Mode
 - DHCP Server Authorization**
- Confirmation
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- Results

Active Directory Domain Services (AD DS) stores a list of DHCP servers that are authorized to service clients on the network. Authorizing DHCP servers helps avoid accidental damage caused by running DHCP servers with incorrect configurations or DHCP servers with correct configurations on the wrong network.

Specify credentials to use for authorizing this DHCP server in AD DS.

Use current credentials

The credentials of the current user will be used to authorize this DHCP server in AD DS.


User Name:

Use alternate credentials

Specify domain administrator credentials for authorizing this DHCP server in AD DS.

User Name:

Skip authorization of this DHCP server in AD DS

 This DHCP server must be authorized in AD DS before it can service clients.

[More about authorizing DHCP servers in AD DS](#)

Cliquez sur **Install**.



Confirm Installation Selections

Before You Begin

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Network Connection Bindings

IPv4 DNS Settings

IPv4 WINS Settings

DHCP Scopes

DHCPv6 Stateless Mode


DHCP Server Authorization

Confirmation

Progress

Results

To install the following roles, role services, or features, click Install.

 1 informational message below

DNS Parent Domain :	dumca.eu
DNS Servers :	127.0.0.1, 8.8.8.8
WINS Servers :	None
Scopes	
Name :	Réseau 2
Default Gateway :	192.168.1.254
Subnet Mask :	255.255.255.0
IP Address Range :	192.168.1.1 - 192.168.1.10
Subnet Type :	Wired (lease duration will be 8 days)
Activate Scope :	Yes
Name :	Réseau 1
Default Gateway :	10.1.0.254
Subnet Mask :	255.255.254.0
IP Address Range :	10.1.0.1 - 10.1.0.10
Subnet Type :	Wired (lease duration will be 8 days)
Activate Scope :	Yes
DHCPv6 Stateless Mode :	Disabled
DHCP Server Authorization :	Authorize using credentials associated with DUMCA\Administrator

[Print, e-mail, or save this information](#)

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Patientez quelques minutes.



Installation Progress

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Server Roles

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IPv4 WINS Settings

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DHCPv6 Stateless Mode

DHCP Server Authorization

Confirmation

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Results

The following roles, role services, or features are being installed:

DHCP Server



Initializing installation...

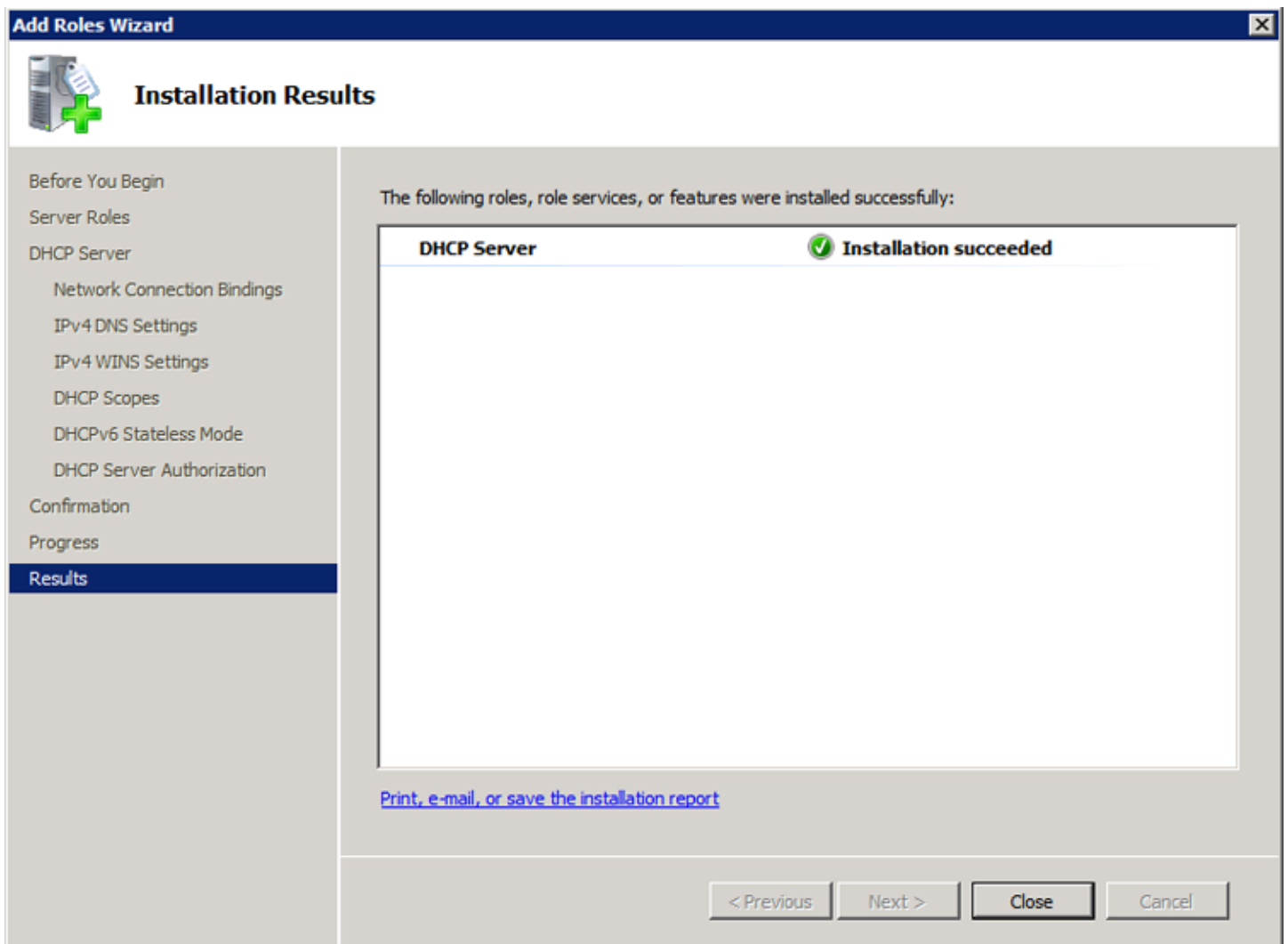
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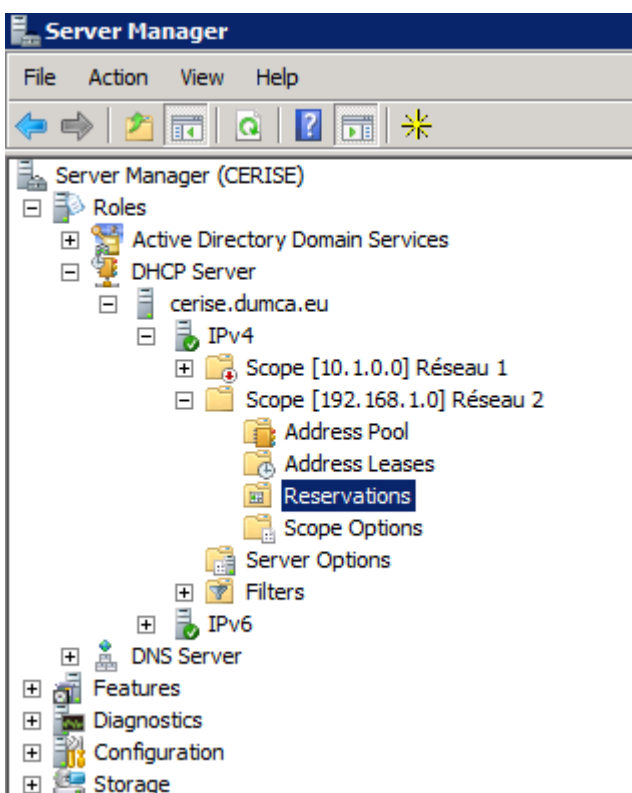
Cancel

Fermez la fenêtre.

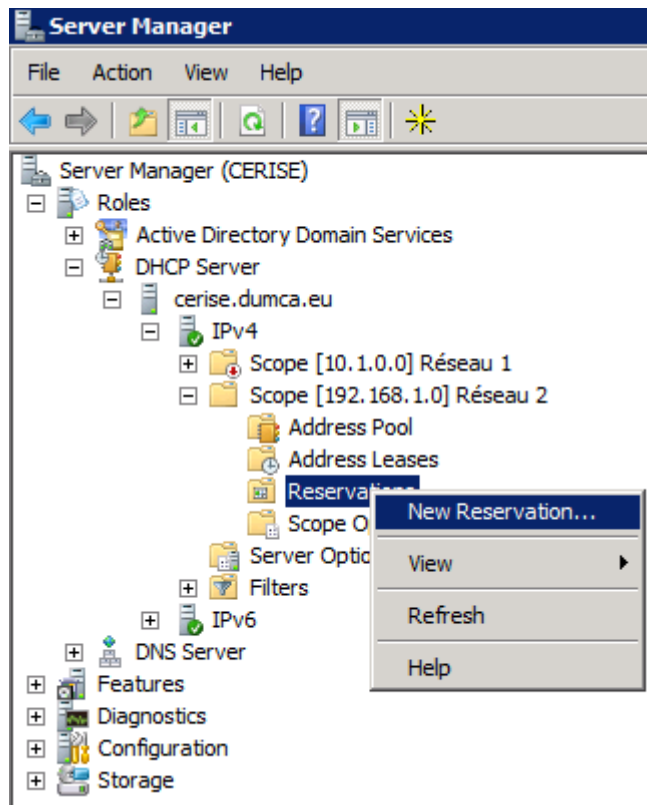


II) Ajouter une réservation d'adresse

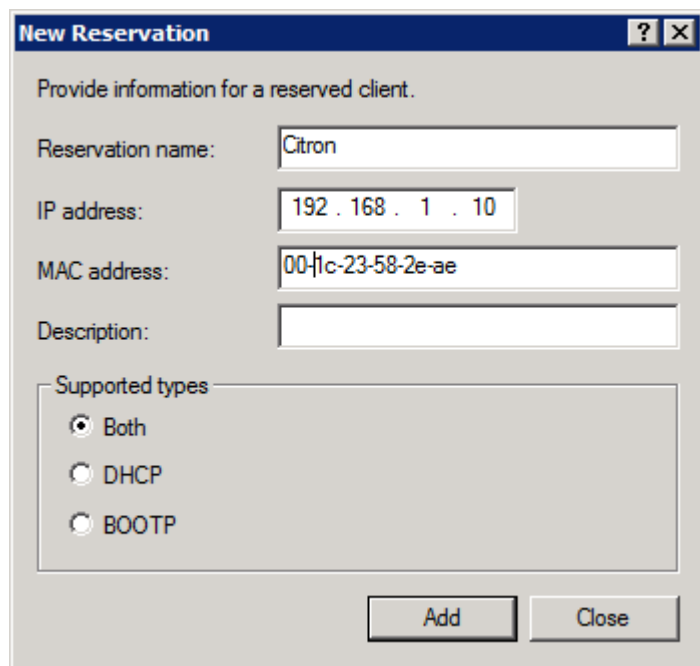
Ouvrez le Server Manager, développez l'architecture à gauche.



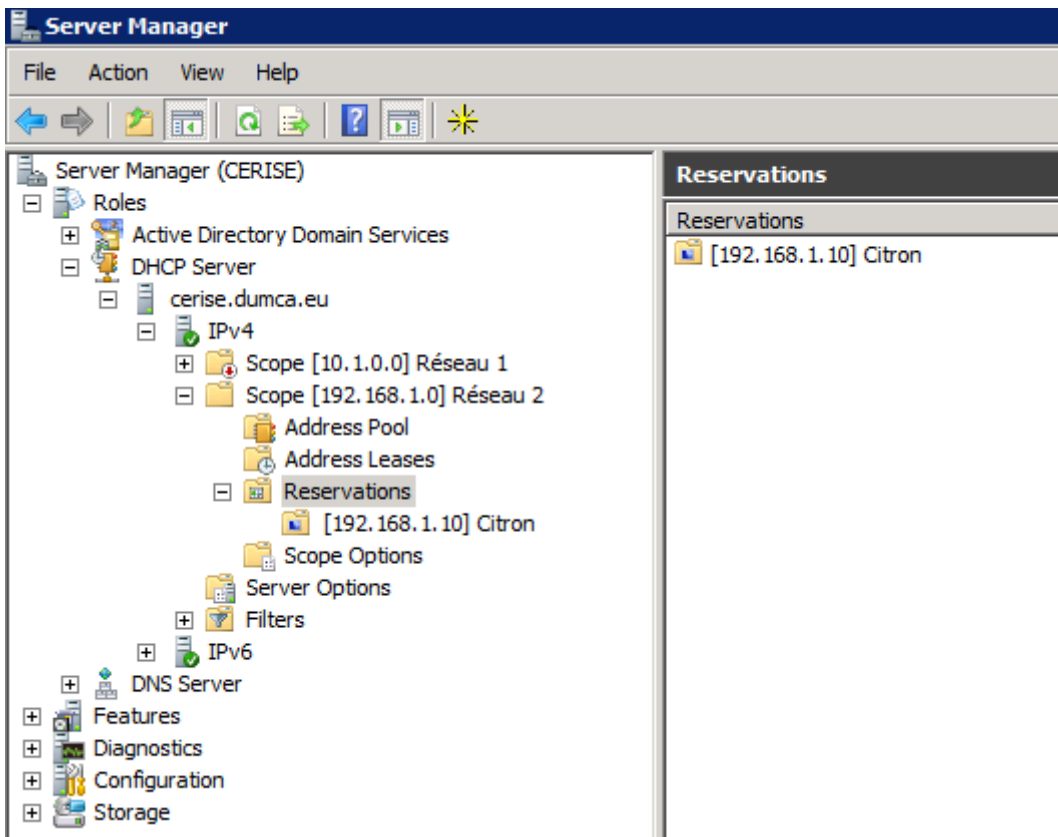
Faites un clic droit sur Réservations, **New Reservation**.



Entrez le nom de la machine, l'adresse IP que vous souhaitez toujours lui affecter, son adresse MAC (Utilisez des - pour la séparation), et enfin cliquez sur **Add**.



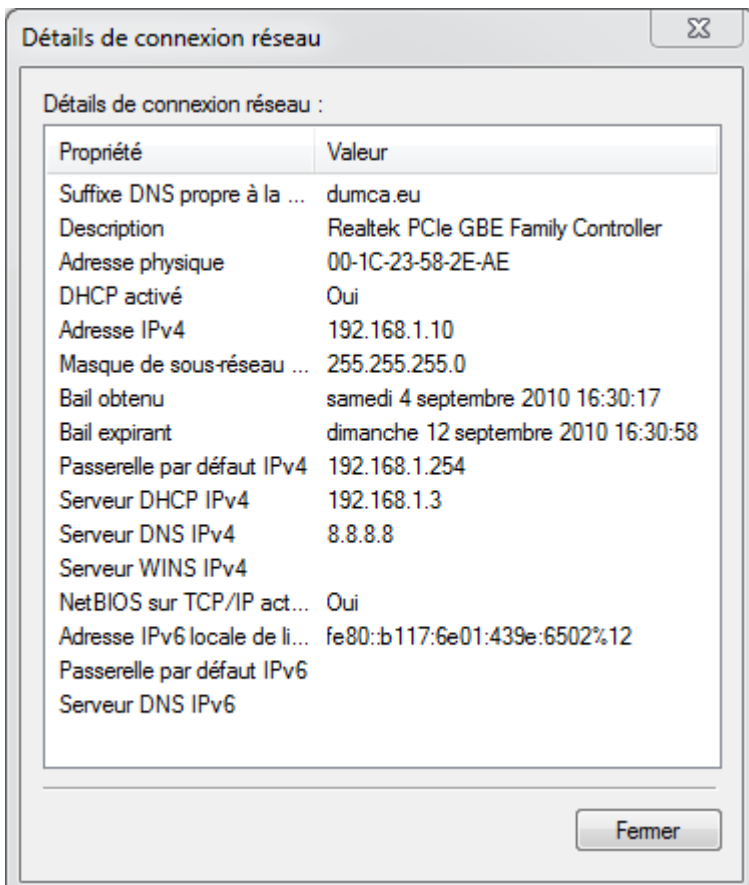
Comme vous pourrez le constater la réservation est bien ajoutée.



III) Test

Pour tester le serveur, connectez une station de travail (vérifiez bien que celle-ci soit configurée en "Configuration automatique").

Je connecte ma station de travail nommée "Citron". On peut voir ci-dessous que la station a bien récupéré l'adresse IP qui lui était réservée.



PS : Attention pour les serveurs DHCP Windows 2003 faisant partie d'un domaine, vous devez aller autoriser le DHCP dans Active Directory.

4 septembre 2010 -- N.Salmon -- article_180.pdf



Idum