



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

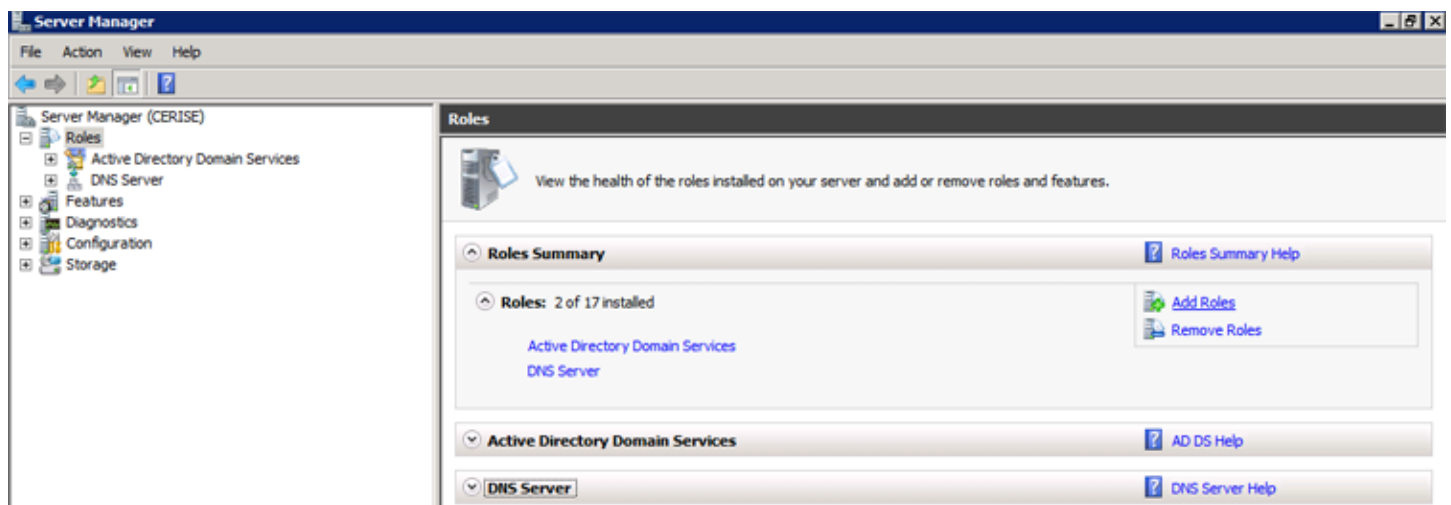
Un serveur DHCP est un serveur qui attribue une configuration IP (adresse IP, masque, passerelle, serveur de noms) aux ordinateurs configurés en adressage dynamique. Avec un serveur DHCP, l'utilisateur n'a plus besoin de rentrer les informations lui-même, le serveur s'en charge.

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**.

Add Roles Wizard

 **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

Confirmation

Progress

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

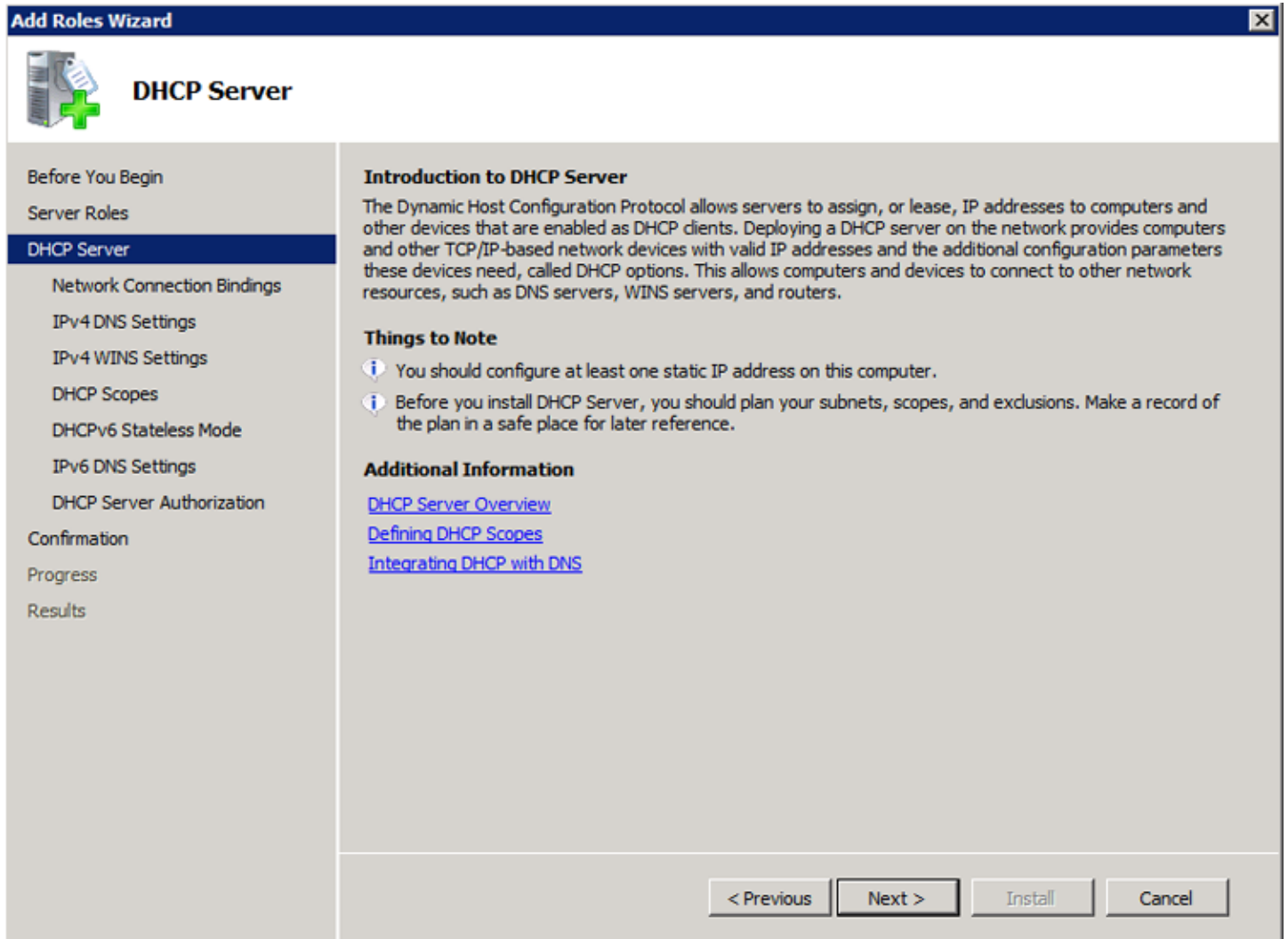
Description:

[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**.



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



Select Network Connection Bindings

Before You Begin

Server Roles

DHCP Server

Network Connection Bindings

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IPv4 WINS Settings

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IPv6 DNS Settings

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Results

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.

Add Roles Wizard

Specify IPv4 DNS Server Settings

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

Progress

Results

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



Specify IPv4 WINS Server Settings

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

Progress

Results

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**.

Add Roles Wizard

 **Add or Edit DHCP Scopes**

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

Progress

Results

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	
		Add...
		Edit...
		Delete

Properties

Add or select a scope to view its properties.

[More about adding scopes](#)

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

Add Scope

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

Configuration settings for DHCP Server

Scope name:

Starting IP address:

Ending IP address:

Subnet type:

☒ Activate this scope

Configuration settings that propagate to DHCP client


Subnet mask:

Default gateway (optional):

OK Cancel

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

Add Roles Wizard



Add or Edit DHCP Scopes

Before You Begin

Server Roles

DHCP Server

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DHCP Scopes

DHCPv6 Stateless Mode

IPv6 DNS Settings

DHCP Server Authorization

Confirmation

Progress

Results

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

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



Configure DHCPv6 Stateless Mode

Before You Begin

Server Roles

DHCP Server

Network Connection Bindings

IPv4 DNS Settings

IPv4 WINS Settings

DHCP Scopes

DHCPv6 Stateless Mode

DHCP Server Authorization

Confirmation

Progress

Results

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



Authorize DHCP Server

Before You Begin

Server Roles

DHCP Server

Network Connection Bindings

IPv4 DNS Settings

IPv4 WINS Settings

DHCP Scopes

DHCPv6 Stateless Mode

DHCP Server Authorization

Confirmation

Progress

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](#)

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Cliquez sur **Install**.

Add Roles Wizard



Confirm Installation Selections

Before You Begin

Server Roles

DHCP Server

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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 :
DNS Servers :
WINS Servers :

dumca.eu
127.0.0.1, 8.8.8.8
None

Scopes

Name :

Réseau 2

Default Gateway :

Subnet Mask :

IP Address Range :

Subnet Type :

Activate Scope :

192.168.1.254

255.255.255.0

192.168.1.1 - 192.168.1.10

Wired (lease duration will be 8 days)

Yes

Name :

Réseau 1

Default Gateway :

Subnet Mask :

IP Address Range :

Subnet Type :

Activate Scope :

10.1.0.254

255.255.254.0

10.1.0.1 - 10.1.0.10

Wired (lease duration will be 8 days)

Yes

DHCPv6 Stateless Mode :

DHCP Server Authorization :

Disabled

Authorize using credentials associated with DUMCA\Administrator

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

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Patientez quelques minutes.



Installation Progress

Before You Begin

Server Roles

DHCP Server

Network Connection Bindings

IPv4 DNS Settings

IPv4 WINS Settings

DHCP Scopes

DHCPv6 Stateless Mode

DHCP Server Authorization

Confirmation

Progress

Results

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

DHCP Server



Initializing installation...

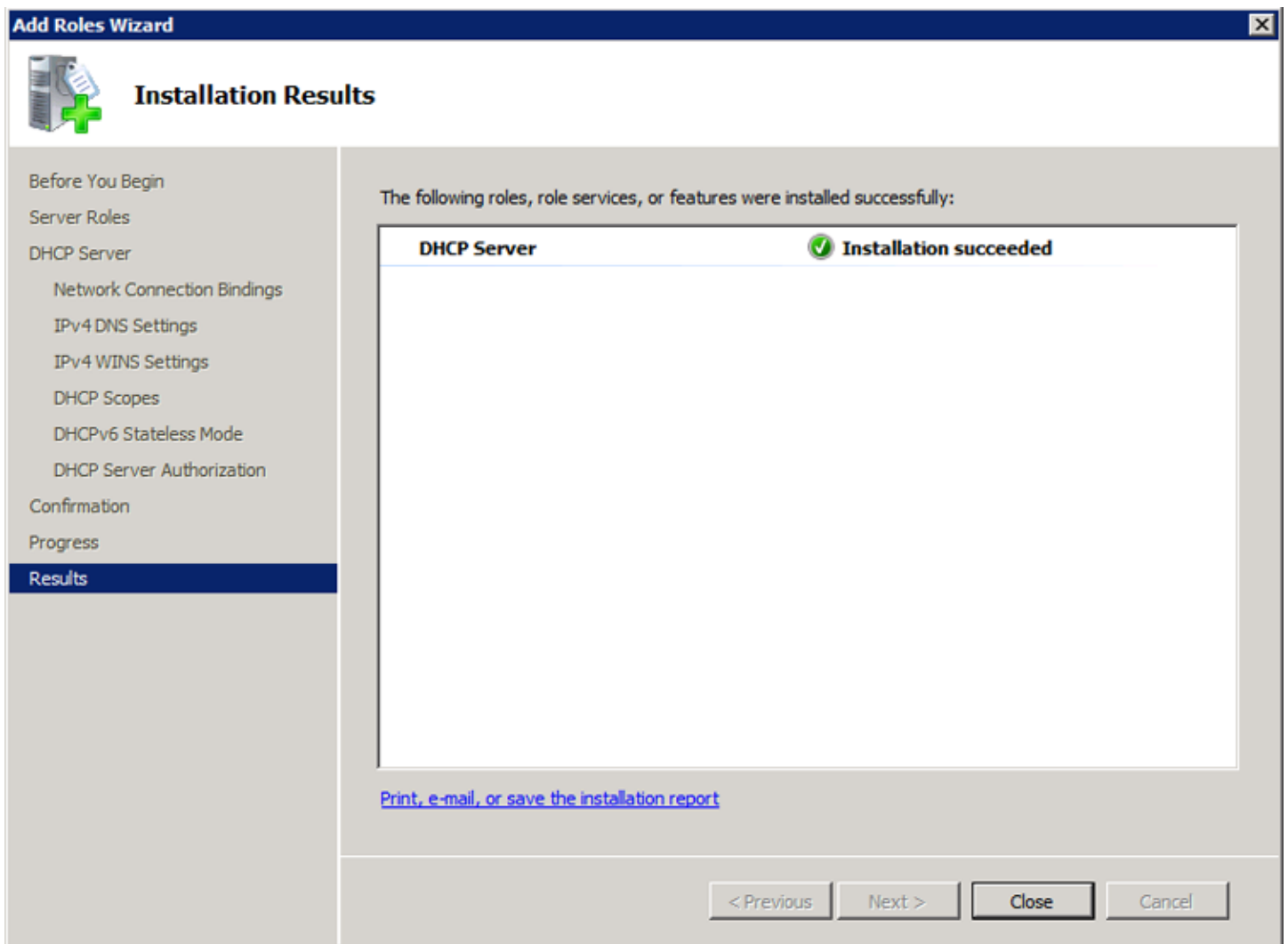
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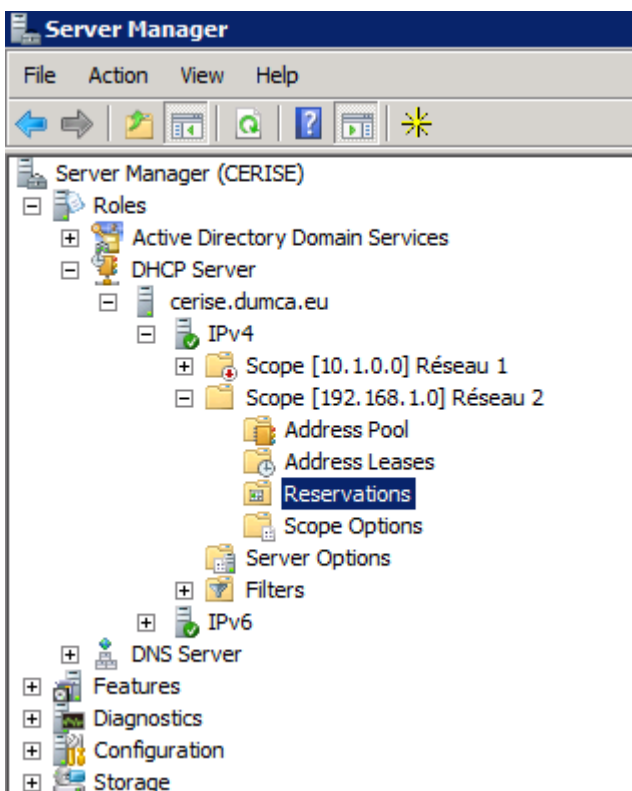
Cancel

Fermez la fenêtre.

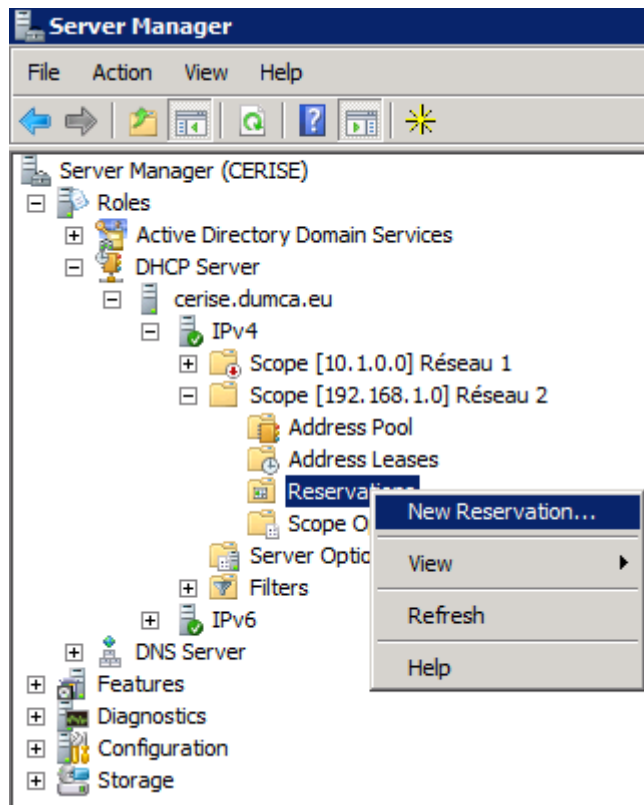


II) Ajouter une réservation d'adresse

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



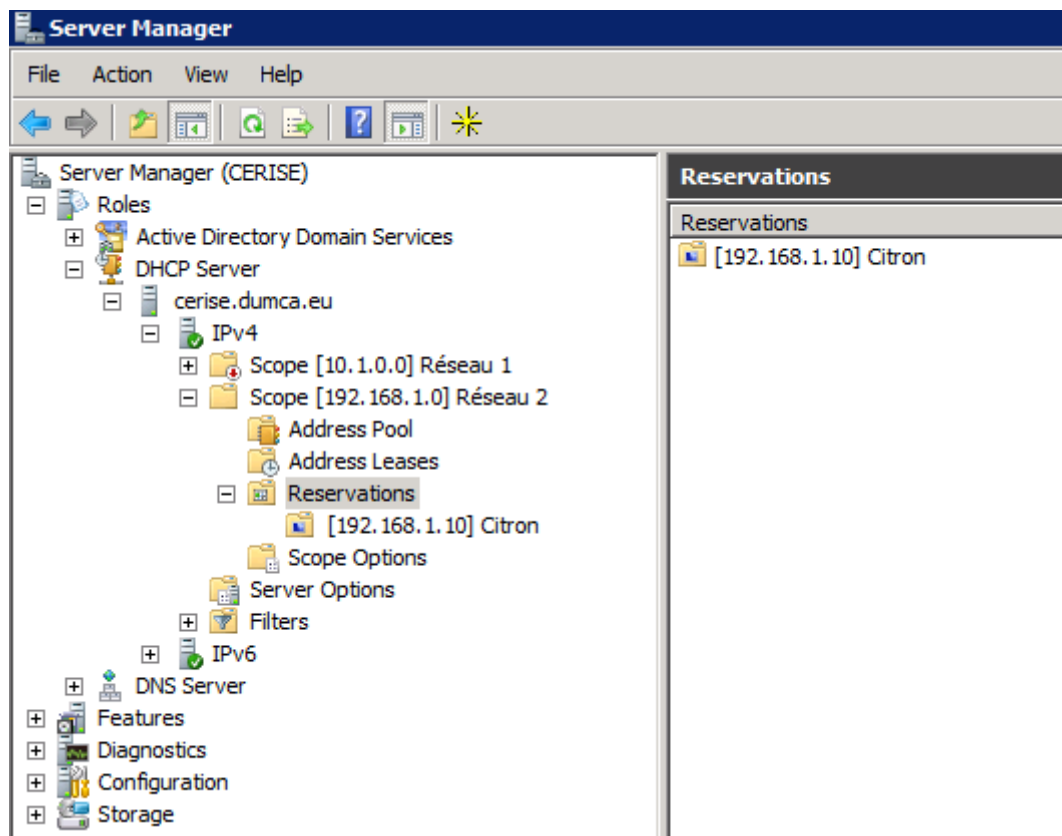
Faites un clic droit sur Réservations, **New Reservation**.



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**.

The image shows the 'New Reservation' dialog box. It has a title bar with a question mark and a close button. The main text says 'Provide information for a reserved client.' There are four input fields: 'Reservation name:' with the value 'Citron', 'IP address:' with the value '192 . 168 . 1 . 10', 'MAC address:' with the value '00-1c-23-58-2e-ae', and an empty 'Description:' field. Below these fields is a section titled 'Supported types' containing three radio buttons: 'Both' (which is selected), 'DHCP', and 'BOOTP'. At the bottom right of the dialog are two buttons: 'Add' and 'Close'.

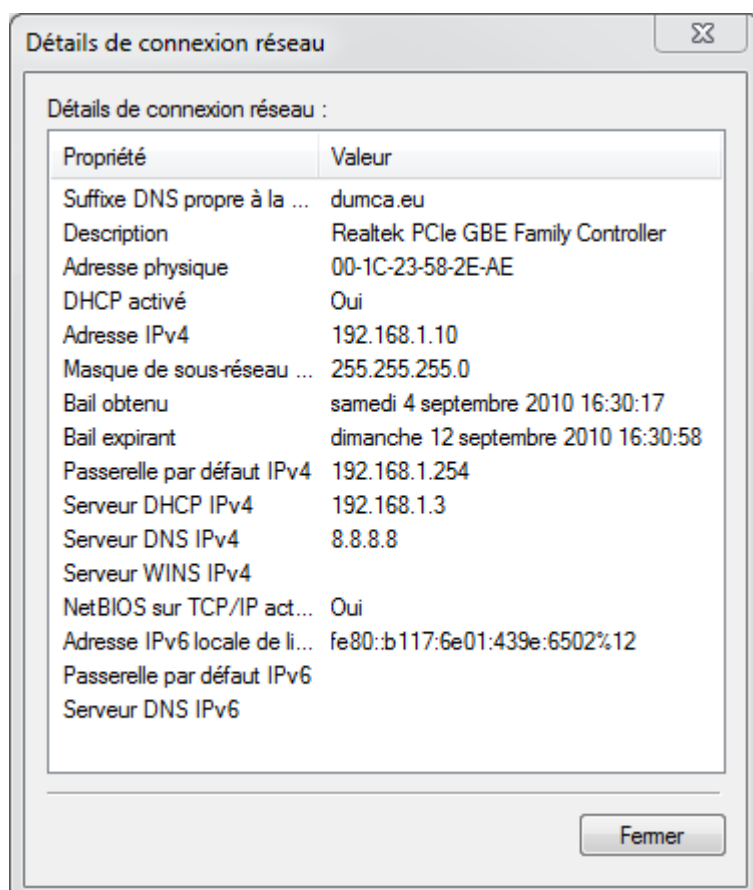
Comme vous pourrez le constater la réservation est bien ajoutée.



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