

Cisco packet tracer tutorial: Configuration de DHCP dans un routeur Cisco

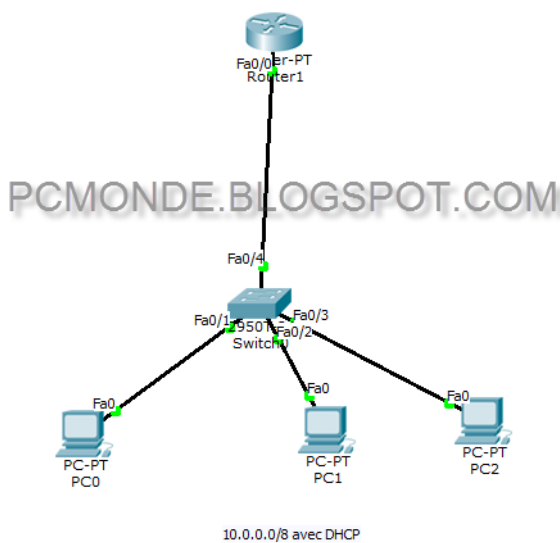


Cisco packet tracer tutorial configuration de DHCP dans un routeur Cisco

La configuration de DHCP dans un routeur Cisco permet de faire envoyer les adresses ip aux machines d'une façon dynamique et automatique.

Dans ce tutorial on va voir les étapes et les commandes pour faire cette tache

Prenons la maquette suivante :



Le travail se fait dans le routeur

```
Router>enable
```

```
Router#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Router(config)#interface FastEthernet0/0
```

```
Router(config-if)#ip address 10.0.0.1 255.0.0.0
```

```
Router(config-if)#no shutdown
```

```
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/0, changed state to up
```

Maintenant la configuration de DHCP pool

```
Router(config)#ip dhcp pool pmonde          nom de
pool
Router(dhcp-config)#default-router 10.0.0.1  adresse ip
de passerelle
Router(dhcp-config)#network 10.0.0.0 255.0.0.0  adresse
réseau
Router(dhcp-config)#dns-server 192.168.1.50  adresse de
DNS optionelle
```

```
Router(dhcp-config)#exit
```

```
Router(config)#ip dhcp excluded-address 10.0.0.1 10.0.0.5  j'ai fait une
excluded address
alors les adresse ip vont commencer de 10.0.0.6 et les autres sont exclue
```

```
Router#wr
Building configuration...
[OK]
```

Maintenant on passe aux machines

The network diagram shows a topology with a central Switch connected to a Router (Fa0/0) and three PCs (PC0, PC1, PC2) via Fa0/1, Fa0/2, and Fa0/3 respectively. The text below the diagram reads "10.0.0.0/8 avec DHCP".

The IP Configuration window for PC0 shows the following settings:

- IP Configuration: DHCP Static. Status: DHCP request successful.
- IP Address: 10.0.0.6
- Subnet Mask: 255.0.0.0
- Default Gateway: 10.0.0.1
- DNS Server: 192.168.1.50
- IPv6 Configuration: DHCP Auto Config Static
- IPv6 Address: (empty)
- Link Local Address: FE80::20B:BEFF:FE3E:7AAD
- IPv6 Gateway: (empty)
- IPv6 DNS Server: (empty)

The network diagram shows the same topology as above, but with PC1 highlighted. The text below the diagram reads "10.0.0.0/8 avec DHCP".

The IP Configuration window for PC1 shows the following settings:

- IP Configuration: DHCP Static. Status: DHCP request successful.
- IP Address: 10.0.0.1
- Subnet Mask: 255.0.0.0
- Default Gateway: 10.0.0.1
- DNS Server: 192.168.1.50
- IPv6 Configuration: DHCP Auto Config Static
- IPv6 Address: (empty)
- Link Local Address: FE80::201:64FF:FE49:C714
- IPv6 Gateway: (empty)
- IPv6 DNS Server: (empty)

The network diagram shows the same topology as above, but with PC2 highlighted. The text below the diagram reads "10.0.0.0/8 avec DHCP".

The IP Configuration window for PC2 shows the following settings:

- IP Configuration: DHCP Static. Status: DHCP request successful.
- IP Address: 10.0.0.8
- Subnet Mask: 255.0.0.0
- Default Gateway: 10.0.0.1
- DNS Server: 192.168.1.50
- IPv6 Configuration: DHCP Auto Config Static
- IPv6 Address: (empty)
- Link Local Address: FE80::202:4AFF:FE20:E658
- IPv6 Gateway: (empty)
- IPv6 DNS Server: (empty)

Le DHCP ca marche