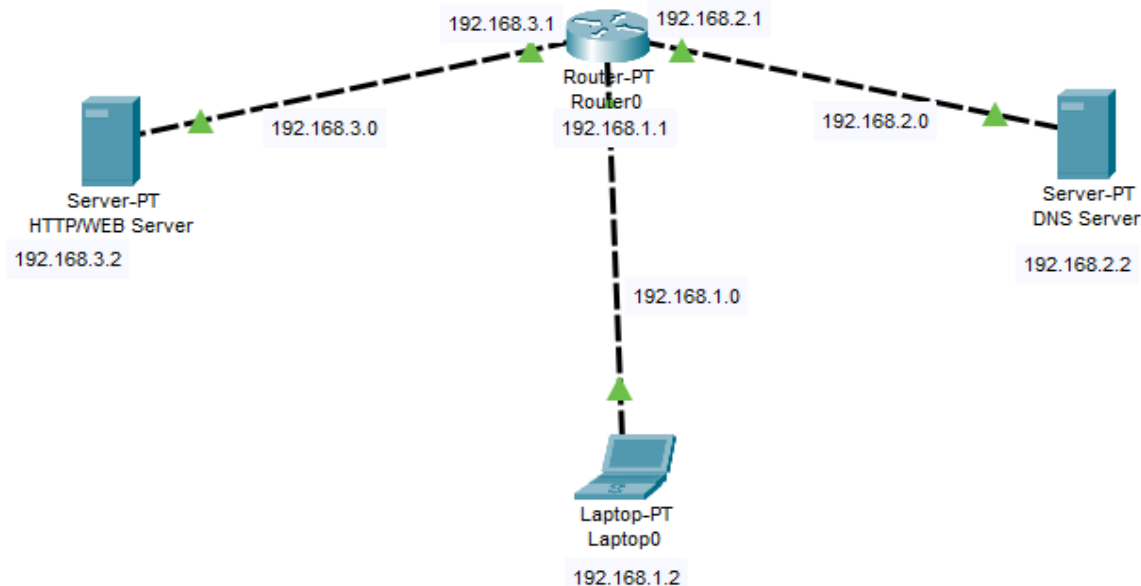


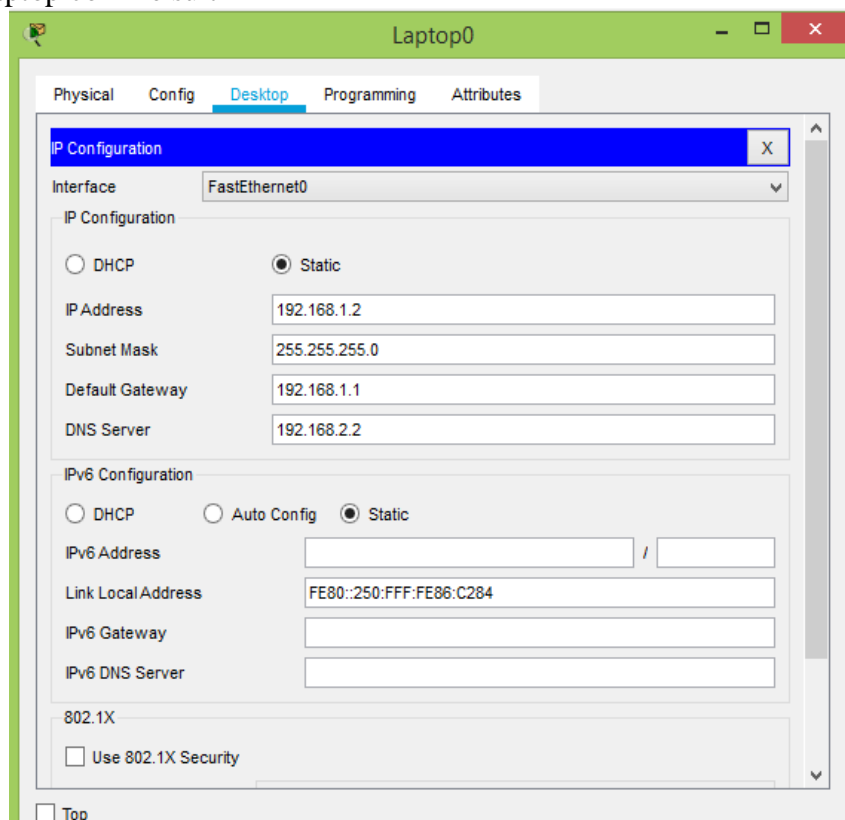
UNIVERSITE LARBI BEN M'HIDI OUM EL BOUAGHI
DEPARTEMENT DE MATHÉMATIQUES ET INFORMATIQUE
Filière : INFORMATIQUE
2^{ème} année Licence
Module : Réseaux de communication
TP.9 : DNS+WEB Server

Objectifs : Configuration de serveur DNS¹ et serveur HTTP²

1/Ouvrir le logiciel Packet Tracer et réalisez le schéma suivant :



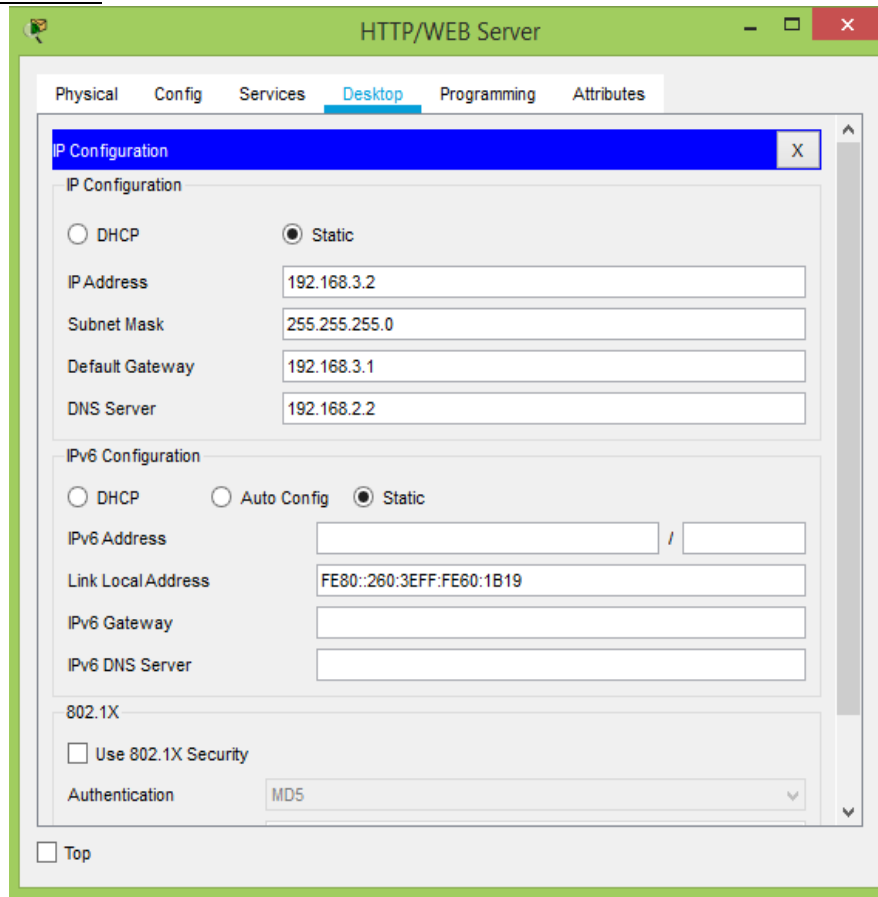
2/ Configurer Laptop comme suit :



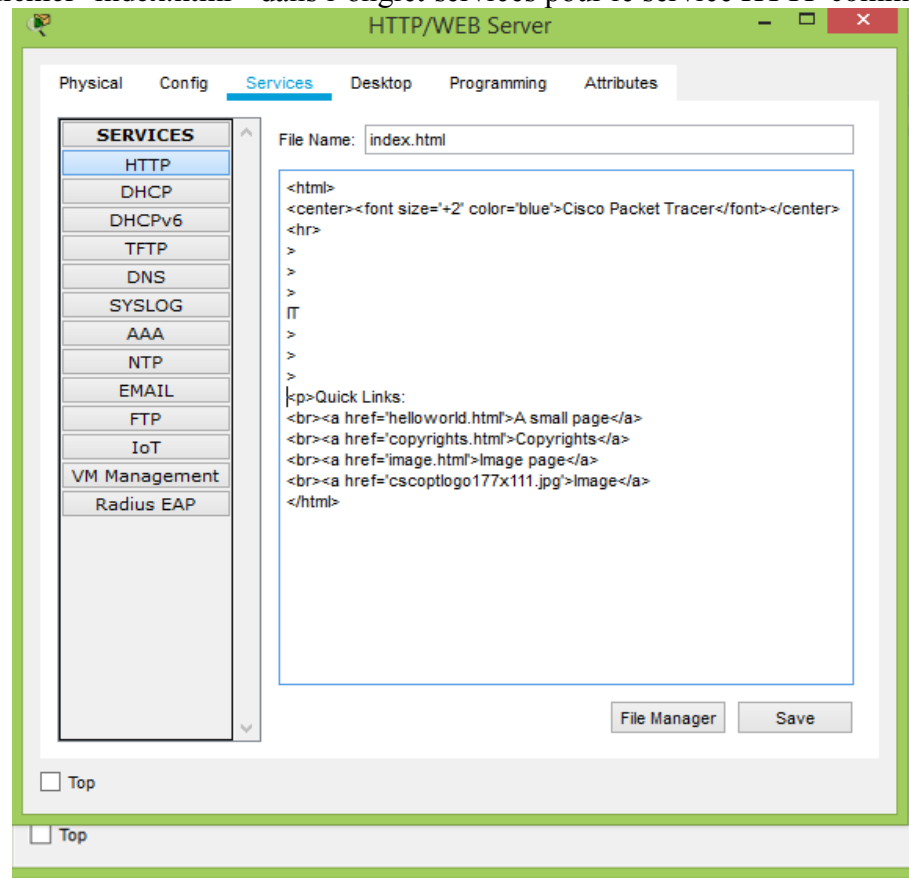
¹ Résolution du **serveur** de noms i.e. un système de noms de domaine (**DNS** ou Domain Name System en anglais) permet de convertir votre nom de domaine en adresses IP.

² Un serveur web est, soit un logiciel de service de ressources web (serveur HTTP), soit un serveur informatique (ordinateur) qui répond à des requêtes du World Wide Web sur un réseau public (Internet) ou privé (intranet), en utilisant principalement le protocole HTTP.

3/ Pour le serveur Web



- Modifier le fichier 'index.html' dans l'onglet services pour le service HTTP comme suit :



4/ Pour le DNS serveur

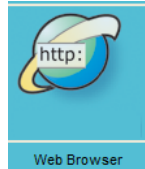
The screenshot shows the 'DNS Server' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing 'Static' as the selected option. The fields are filled with: IP Address: 192.168.2.2, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.2.1, and DNS Server: 192.168.2.2. The 'IPv6 Configuration' section shows 'Static' as the selected option, with fields for IPv6 Address, Link Local Address (FE80::201:97FF:FE2A:7A4E), IPv6 Gateway, and IPv6 DNS Server. The '802.1X' section has 'Use 802.1X Security' unchecked and 'Authentication' set to MD5. A 'Top' button is at the bottom left.

- Allez dans l'onglet « Services » ensuite choisissez le service DNS et ajouter un DNS pour le site 'WWW.IT.COM' comme suit :

The screenshot shows the 'DNS Server' configuration window with the 'Services' tab selected. The 'DNS' service is highlighted in the 'SERVICES' list on the left. The 'DNS' configuration panel on the right shows 'DNS Service' set to 'On'. The 'Resource Records' section has 'Name' and 'Address' fields. Below the fields are 'Add', 'Save', and 'Remove' buttons. A table lists the resource records:

| No. | Name | Type | Detail |
|-----|------------|----------|-------------|
| 0 | www.it.com | A Record | 192.168.3.2 |

Below the table is a 'DNS Cache' button. A 'Top' button is at the bottom left.



5/ Faite une requête http (commande : `http://www.it.com`) sur laptop et ouvrir le mode simulation en même temps comme suit :

The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with a central Router-PT (192.168.1.1) connected to three other devices: a Server-PT HTTPWEB Server (192.168.3.2), a Server-PT DNS Server (192.168.2.0), and a Laptop-PT Laptop0 (192.168.1.2). The Router is connected to the Server-PT HTTPWEB Server via a dashed line (192.168.3.0), to the Server-PT DNS Server via a dashed line (192.168.2.1), and to the Laptop-PT Laptop0 via a dashed line (192.168.1.0).

Overlaid on the main workspace is the configuration window for Laptop0. The 'Desktop' tab is selected, showing a 'Web Browser' window with the URL 'http://WWW.IT.COM' entered. Below the browser window, the text '>>> IT >>>' is visible. The 'Simulation' tab is also visible at the bottom right of the Laptop0 window.

In the top right corner, the 'Simulation Panel' is open, displaying an 'Event List' table:

| Vis. | Time(sec) | Last Device | At Device | Type |
|-------|-----------|-----------------|---------------|------|
| 0.009 | -- | Laptop0 | Router0 | TCP |
| 0.009 | -- | Laptop0 | Laptop0 | HTTP |
| 0.010 | -- | Laptop0 | Router0 | HTTP |
| 0.010 | -- | Router0 | HTTP/WEB S... | TCP |
| 0.011 | -- | Router0 | HTTP/WEB S... | HTTP |
| 0.012 | -- | HTTP/WEB Ser... | Router0 | HTTP |
| 0.013 | -- | Router0 | Laptop0 | HTTP |
| 0.013 | -- | -- | Laptop0 | TCP |

At the bottom of the interface, the 'PLAY CONTROLS' section shows the simulation time as 00:25:20.250. The bottom right corner features a Windows-style notification area with the text 'Activer Windows' and 'Accédez aux paramètres de l'ordinateur pour activer Windows.'