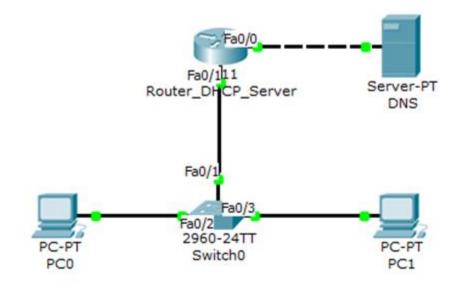
Lab7 - Guideline

```
DNS role; C/S architecture, UDP port 53
DNS Namespace
DNS Components
      forward query
      reverse queries
      caching
DNS records:
      Start of Authority (SOA)
   - Name Servers
   - Host (A), Host (AAAA)
   - Pointer (PTR)
   - Canonical Name (CNAME) or Alias
   - Mail Exchange (MX)
>nslookup
      > server <IP>
      > set type=A
      > set type=AAAA
View Wireshark DNS query and reply
(on UDP, port 53)
```

Usefull tutorial for DNS on Windows Server 2008:

http://www.techrepublic.com/blog/datacenter/how-do-i-install-and-configure-a-dns-server-in-windows-server-2008/327

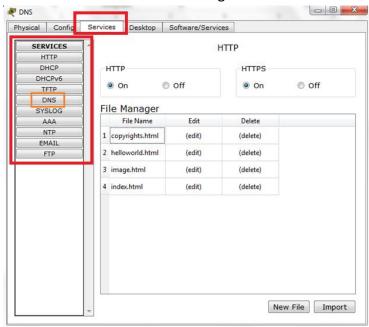
<u>Laboratory test configuration (same as EasyIP lab):</u>



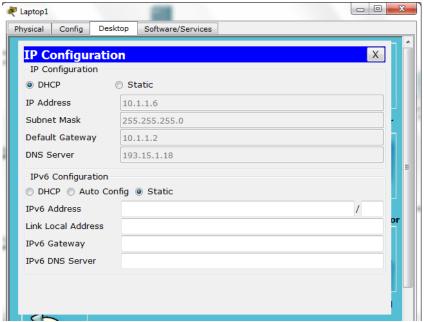
Device		IP address	Subnet mask	Default	DNS address
				Gateway	
Router	Fa0/0	193.1.1.1	255.255.255.0	-	-
	Fa0/1	172.16.2.1	255.255.255.0	-	-
PCs		Dynamic	Dynamic (DHCP)	Dynamic	Dynamic
		(DHCP)		(DHCP)	(DHCP)
DNS Server		193.1.1.2	255.255.255.0	193.1.1.1	-

Configuring a DNS server in Packet Tracer

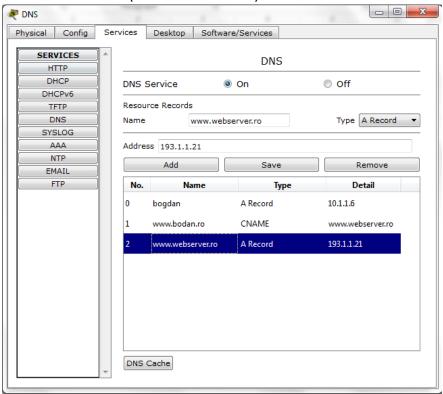
a. Select the service to configure



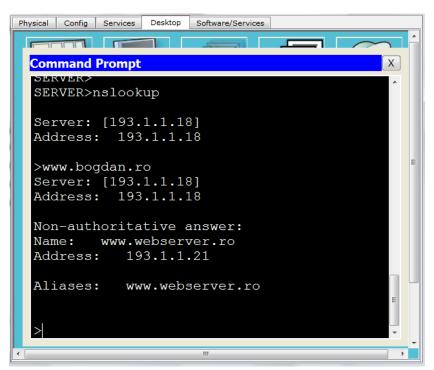
b. All the devices should have a DNS server address (verify you have assigned an DNS address using either DHCP service or statically assign the address)



c. Add entries (Name and address)



- d. Test the DNS service:
 - I. Open command prompt on a network host
 - II. Enter the nslookup command
 - III. Test with a define Name or IP address



IV. Ping/tracert the Name or the IP address