**Experiment No:** 08

**Experiment name:** Configuring a DNS server.

**Theory:** The [Domain Name System (DNS)](http://compnetworking.about.com/cs/domainnamesystem/g/bldef_dns.htm) is a standard technology for managing public names of Web sites and other Internet domains. [DNS technology](http://compnetworking.about.com/od/dns_domainnamesystem/f/what-is-a-dns-cache.htm) allows you to type names into your Web browser like compnetworking.about.com and your computer to automatically find that address on the Internet. A key element of the DNS is a worldwide collection of DNS servers.

A **DNS server** is any computer registered to join the Domain Name System.

A DNS server runs special-purpose networking software, features a public [IP address](http://compnetworking.about.com/library/glossary/bldef-ipaddress.htm), and contains [a database of network names](http://compnetworking.about.com/od/basicnetworkingfaqs/f/network-name.htm) and addresses for other Internet hosts.

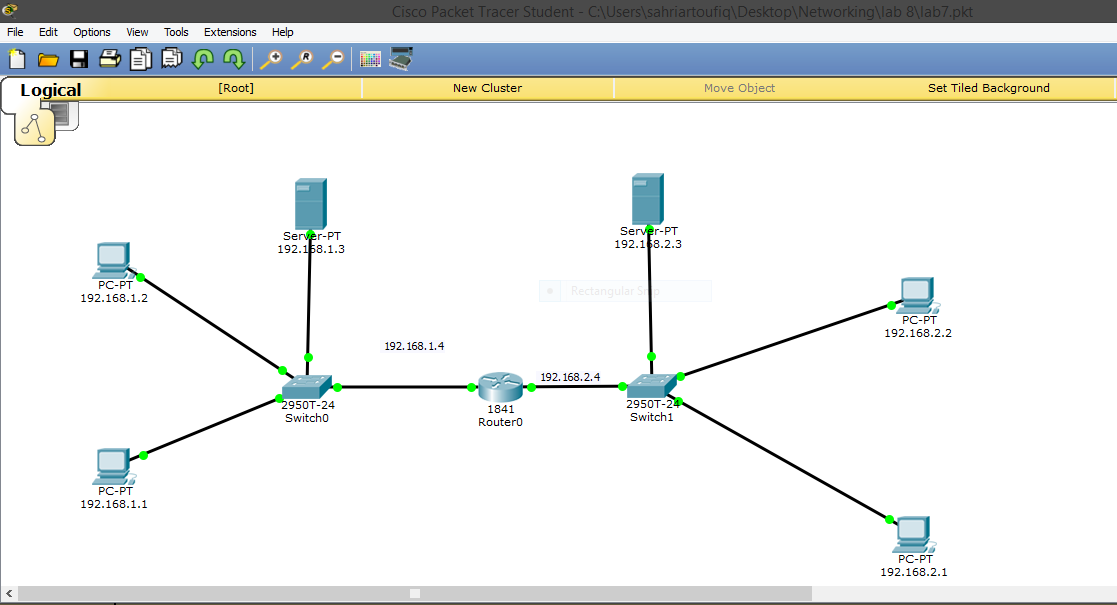
**Objectives:** To configure a DNS server so that one can find another pc connected to the network using it’s domain name.

**Tools:**

1. Some pcs.
2. 2950 –T24 Switch.
3. 1841 Router.
4. DNS server.
5. Cisko Packet Tracer.

**Procedures:**

1. Connect some pc and DNS server using 2950-T24 switches
2. Connect the switches using 1841 router.



1. Configuring switches using following command.

Switch>en

Switch#conf t

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

Switch(config)#enable secret ju123

Switch(config)#line console 0

Switch(config-line)#password cseju

Switch(config-line)#login

Switch(config-line)#end

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

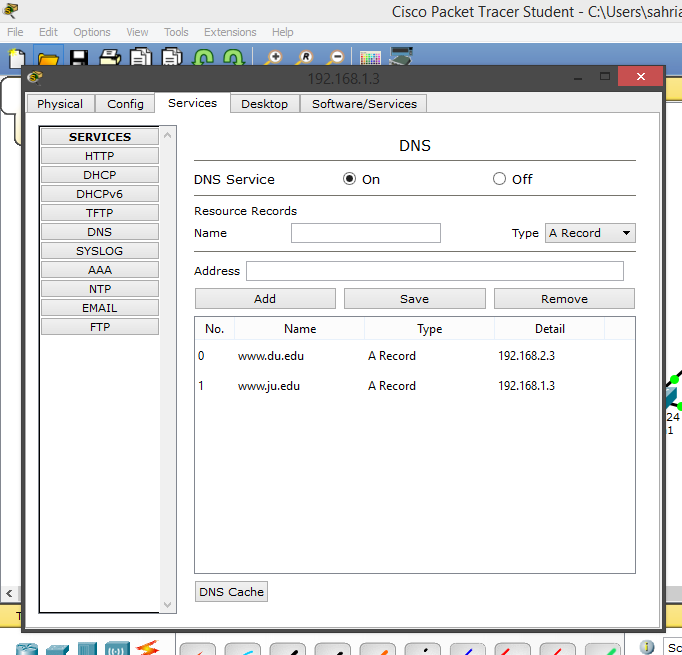
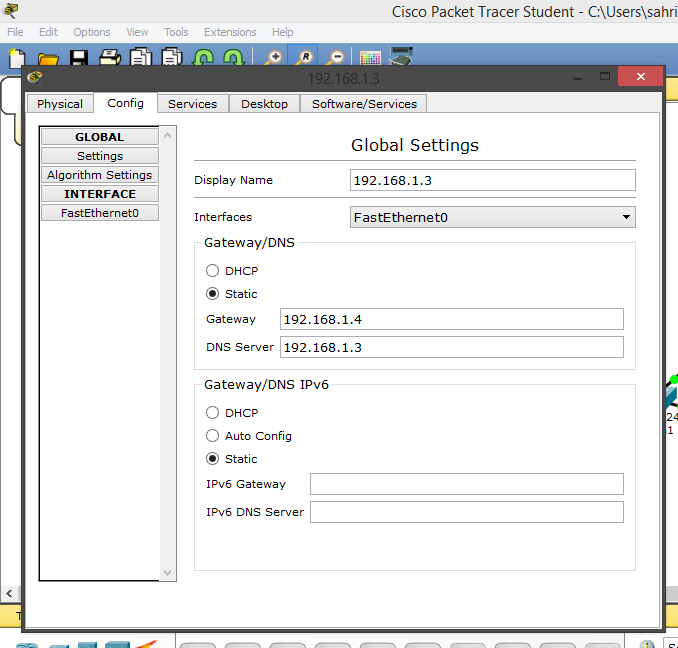
Switch#exit

Switch>en

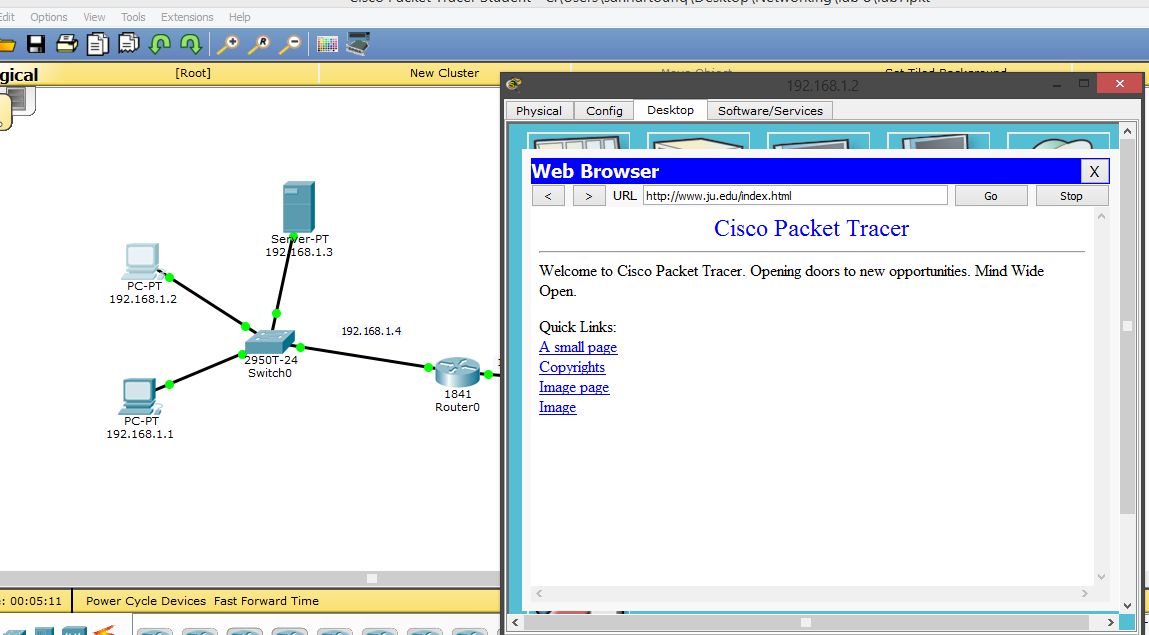
Password:

Switch#exit

1. Configuring the DNS server.



1. Access any pc connected to DNS using web address like [www.ju.edu](http://www.ju.edu).



**Conclusion:** DNS server saves and convert the domain name of ip address. So people don’t need to memorize the ip address of desired machine.