

FTP:

- Components: pc1, pc2, switch and a server
- in the server ->desktop ->ip : create ip 192.168.1.1
- in the server ->services -> FTP : create user and pass and check all boxes and click add
- in pc1 -> desktop -> ip : create ip 192.168.1.2 and put gateway 192.168.1.1 "server"
- in pc2 -> desktop -> ip : create ip 192.168.1.3 and put gateway 192.168.1.1 "server"
- in pc1 -> desktop -> text editor : create a file and name it 'without .txt' and save it 'click x'
- in pc1->desktop->command prompt :type [ftp 192.168.1.1](#) ,user and pass then **put** file.txt
- in pc2->desktop->command prompt :type [ftp 192.168.1.1](#) ,user and pass then **get** file.txt

Note: u can list all files for pc or in server ftp by dir

Note: u can check for devices see each other and the server by **ping** 192.168.1.1 "server"

SMTP:

- Components: pc1, pc2, switch and a server
- in the server ->desktop ->ip : create ip 192.168.1.1
- in pc1 -> desktop -> ip : create ip 192.168.1.2 and put gateway 192.168.1.1 "server"
- in pc2 -> desktop -> ip : create ip 192.168.1.3 and put gateway 192.168.1.1 "server"
- in the server ->services -> EMAIL : set **domain.com** and add 2 users with passwords
- in pc1 ->desktop -> email : type ur **name1** and its email [name1@domain.com](#) then type 192.168.1.1 in **ingoin&outgoing** mail then add **user1** "same as name1" and **password**
- in pc1 ->desktop -> email : type ur **name2** and its email [name2@domain.com](#) then type 192.168.1.1 in **ingoin&outgoing** mail then add **user2** "same as name2" and **password**
- in pc1 ->desktop-> email: compose email and send to [name2@domain.com](#)
- in pc2 ->desktop-> email: receive, and see the sent email from [name1@domain.com](#)

HTTP&DNS:

- Components: pc1, HTTP server and DNS server
- in HTTP server ->desktop ->ip : create ip 192.168.1.1
- in HTTP server ->services ->HTTP : check its on
- in DNS server ->desktop -> ip : create ip 192.168.1.1 and put DNS 192.168.1.1 "server"
- in DNS server ->services -> DNS : check its open and put name [www.somesite.com](#) and address 192.168.1.1 "server"
- in pc1 ->desktop ->ip : put ip 192.168.1.3 and DNS 192.168.1.2 "DNS"
- in pc1 ->desktop ->browser : search for [www.somesite.com](#)

DHCP: server, swich and n PCs

server: ip -> dhcp on -> give pool name -> start ip: edit last zero to one -> add

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in each pc: go to ip and click dhcp

NTP: router, swich and a server

router: ip-> on

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ex

do sh clo

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server: ip-> gateway - > check ntp on

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ntp server server ip

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"speed up time"

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*press enter**

show clock

TELNET: router, swich and a pc

router: ip -> on

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ex

line vty 0 5

password 1234

login

exit

enable password 1234

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pc: ip -> gateway

command - > ping -> telnet router ip -> enter password - > enable - > enter router password