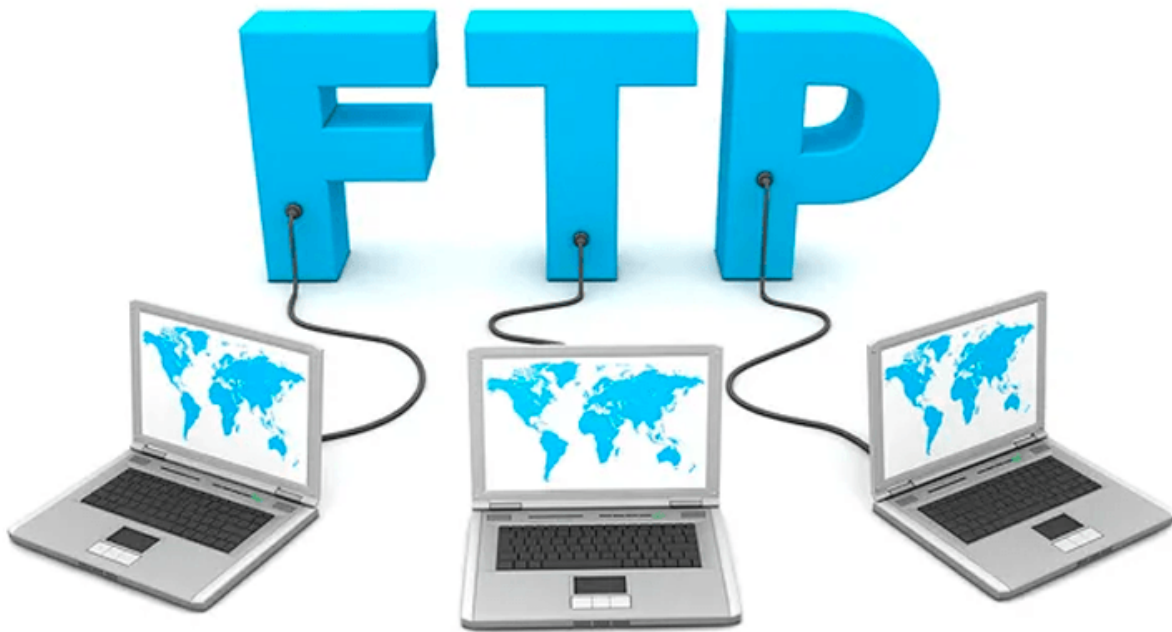


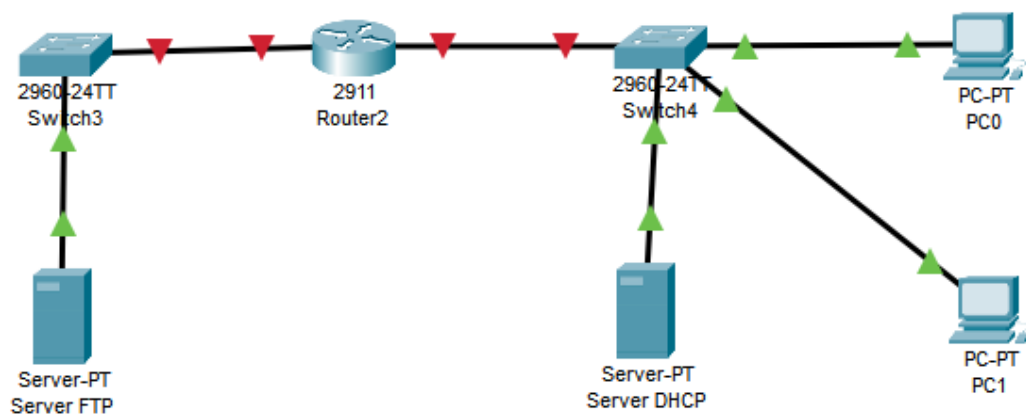
# Files Transfer Protocol

---

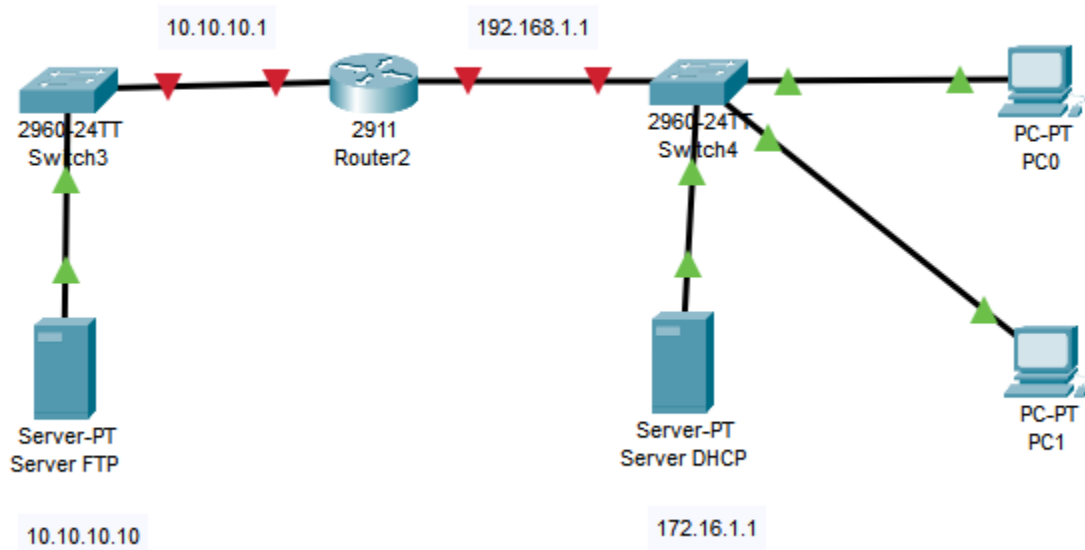


## JOB 1

Création d'un réseau :



## JOB 2



## JOB 3

Configuration serveur FTP :

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

10.10.10.10

Subnet Mask

255.255.255.0

Default Gateway

10.10.10.1

DNS Server

0.0.0.0

FTP

Service

☒ On

☐ Off

User Setup

Username

Password

☐ Write

☐ Read

☐ Delete

☐ Rename

☐ List

	Username	Password	Permission
1	cisco	cisco	RWDNL
2	issou	aze	RWDNL

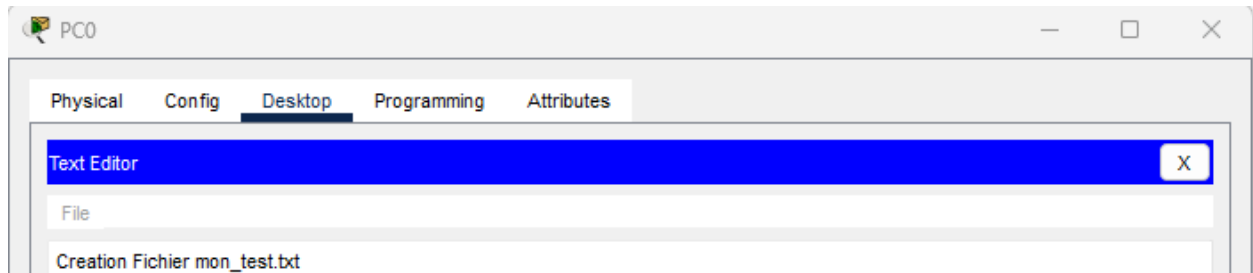
Add

Save

Remove









## JOB 4

Création d'un fichier nommé 'mon\_test.txt'



## JOB 5

Ping entre PC0 et PC1 pour vérifier le fonctionnement du serveur FTP

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	
	Successful	PC1	PC0	ICMP		0.000	N	1	(edit)	
	Successful	PC0	PC1	ICMP		0.000	N	2	(edit)	
	Successful	PC1	PC0	ICMP		0.000	N	3	(edit)	

## JOB 7

Installation de ProFTPD :

```
user@user-virtual-machine:~$ sudo apt install proftpd -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'proftpd-core' instead of 'proftpd'
The following additional packages will be installed:
  libhiredis0.14 libmemcached11 libmemcachedutil2 proftpd-doc
Suggested packages:
  openssh-sftp-server | inet-superserver proftpd-mod-ldap proftpd-mod-mysql
  proftpd-mod-odbc proftpd-mod-pgsql proftpd-mod-sqlite proftpd-mod-geoip
  proftpd-mod-snmp proftpd-mod-crypto proftpd-mod-wrap
The following NEW packages will be installed:
  libhiredis0.14 libmemcached11 libmemcachedutil2 proftpd-core proftpd-doc
0 upgraded, 5 newly installed, 0 to remove and 0 not upgraded.
Need to get 3 543 kB of archives.
After this operation, 9 301 kB of additional disk space will be used.
Get:1 http://fr.archive.ubuntu.com/ubuntu jammy/universe amd64 libhiredis0.14 amd64 0.14.1-2 [32,8 kB]
Get:2 http://fr.archive.ubuntu.com/ubuntu jammy/main amd64 libmemcached11 amd64 1.0.18-4.2ubuntu4 [88,2 kB]
Get:3 http://fr.archive.ubuntu.com/ubuntu jammy/main amd64 libmemcachedutil2 amd64 1.0.18-4.2ubuntu4 [10,0 kB]
Get:4 http://fr.archive.ubuntu.com/ubuntu jammy/universe amd64 proftpd-core amd64 1.3.7c+dfsg-1build1 [2 194 kB]
Get:5 http://fr.archive.ubuntu.com/ubuntu jammy/universe amd64 proftpd-doc all 1.3.7c+dfsg-1build1 [1 218 kB]
Fetched 3 543 kB in 1s (3 595 kB/s)
Selecting previously unselected package libhiredis0.14:amd64.
(Reading database ... 186602 files and directories currently installed.)
Preparing to unpack .../libhiredis0.14_0.14.1-2_amd64.deb ...
Unpacking libhiredis0.14:amd64 (0.14.1-2) ...
Selecting previously unselected package libmemcached11:amd64.
Preparing to unpack .../libmemcached11_1.0.18-4.2ubuntu4_amd64.deb ...
Unpacking libmemcached11:amd64 (1.0.18-4.2ubuntu4) ...
Selecting previously unselected package libmemcachedutil2:amd64.
Preparing to unpack .../libmemcachedutil2_1.0.18-4.2ubuntu4_amd64.deb ...
Unpacking libmemcachedutil2:amd64 (1.0.18-4.2ubuntu4) ...
Selecting previously unselected package proftpd-core:amd64.
Preparing to unpack .../proftpd-core_1.3.7c+dfsg-1build1_amd64.deb ...
Unpacking proftpd-core:amd64 (1.3.7c+dfsg-1build1) ...
Selecting previously unselected package proftpd-doc.
Preparing to unpack .../proftpd-doc_1.3.7c+dfsg-1build1_all.deb ...
Unpacking proftpd-doc (1.3.7c+dfsg-1build1) ...
Setting up libhiredis0.14:amd64 (0.14.1-2) ...
Setting up libmemcached11:amd64 (1.0.18-4.2ubuntu4) ...
Setting up libmemcachedutil2:amd64 (1.0.18-4.2ubuntu4) ...
Setting up proftpd-core:amd64 (1.3.7c+dfsg-1build1) ...
Setting up proftpd-doc (1.3.7c+dfsg-1build1) ...
```

## JOB 8

Lancement du serveur FTP.

```
user@user-virtual-machine:~$
sudo proftpd --version

ProFTPD Version 1.3.7c
user@user-virtual-machine:~$
sudo systemctl start proftpd

user@user-virtual-machine:~$
sudo systemctl enable proftpd

Synchronizing state of proftpd.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable proftpd
```

Vérification de l'état de proftpd

```
user@user-virtual-machine:~$
sudo systemctl status proftpd

● proftpd.service - ProFTPD FTP Server
   Loaded: loaded (/lib/systemd/system/proftpd.service; enabled; vendor prese>
   Active: active (running) since Mon 2023-10-23 10:23:25 CEST; 1min 42s ago
     Main PID: 5526 (proftpd)
        Tasks: 1 (limit: 2218)
       Memory: 5.0M
          CPU: 159ms
       CGroup: /system.slice/proftpd.service
               └─5526 "proftpd: (accepting connections)" "" "" "" "" "" "" "" "" >

oct. 23 10:23:24 user-virtual-machine systemd[1]: Starting ProFTPD FTP Server...
oct. 23 10:23:24 user-virtual-machine proftpd[5523]: Checking syntax of configu>
oct. 23 10:23:25 user-virtual-machine systemd[1]: proftpd.service: Can't open P>
oct. 23 10:23:25 user-virtual-machine systemd[1]: Started ProFTPD FTP Server.
...skipping...

● proftpd.service - ProFTPD FTP Server
   Loaded: loaded (/lib/systemd/system/proftpd.service; enabled; vendor prese>
   Active: active (running) since Mon 2023-10-23 10:23:25 CEST; 1min 42s ago
     Main PID: 5526 (proftpd)
        Tasks: 1 (limit: 2218)
       Memory: 5.0M
          CPU: 159ms
       CGroup: /system.slice/proftpd.service
               └─5526 "proftpd: (accepting connections)" "" "" "" "" "" "" "" "" >

oct. 23 10:23:24 user-virtual-machine systemd[1]: Starting ProFTPD FTP Server...
oct. 23 10:23:24 user-virtual-machine proftpd[5523]: Checking syntax of configu>
oct. 23 10:23:25 user-virtual-machine systemd[1]: proftpd.service: Can't open P>
oct. 23 10:23:25 user-virtual-machine systemd[1]: Started ProFTPD FTP Server.
```

## JOB 9

création des deux utilisateurs "Merry" et "Pippin" avec les mots de passe "kalimac" et "secondbreakfast".

Commande line : `sudo useradd -m username` et `sudo passwd username`

```
user@user-virtual-machine:~$ sudo passwd Merry
New password:
Retype new password:
passwd: password updated successfully
user@user-virtual-machine:~$ sudo useradd -m Pappin
user@user-virtual-machine:~$ sudo passwd Pappin
New password:
Retype new password:
passwd: password updated successfully
user@user-virtual-machine:~$
```

## JOB 10

Pour transférer le fichier de l'hôte vers la VM Debian (Ubuntu pour mon cas)

D'abord en doit récupérer l'adresse ip de la VM :

```
user@user-virtual-machine:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:db:a5:52 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.187.131/24 brd 192.168.187.255 scope global dynamic noprefixroute ens33
        valid_lft 1680sec preferred_lft 1680sec
    inet6 fe80::5275:244e:d4f0:40e6/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Adresse IP : 192.168.187.131

```
C:\Administrator: Command Prompt - ftp 192.168.187.131
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>ftp 192.168.187.131
Connected to 192.168.187.131.
220 ProFTPD Server (Debian) [::ffff:192.168.187.131]
200 UTF8 set to on
User (192.168.187.131:(none)):
```

Connecté le système hôte avec le ftp de la vm de la manière suivante

```
C:\Windows\System32>ftp 192.168.187.131
Connected to 192.168.187.131.
220 ProFTPD Server (Debian) [::ffff:192.168.187.131]
200 UTF8 set to on
User (192.168.187.131:(none)): Merry
331 Password required for Merry
Password:
230 User Merry logged in
ftp>
```

Maintenant on peut faire un transfert de notre fichier on peut choisir aussi la distension pour envoyer le fichier vers un lieux spécifique pour notre cas c'est c'est dans Downloads qu'on va l'envoyer

```
C:\Windows\System32>ftp 192.168.187.131
Connected to 192.168.187.131.
220 ProFTPD Server (Debian) [::ffff:192.168.187.131]
200 UTF8 set to on
User (192.168.187.131:(none)): Merry
331 Password required for Merry
Password:
230 User Merry logged in
ftp> put C:\Users\houss\Desktop\mon_fichier.txt
200 PORT command successful
150 Opening ASCII mode data connection for mon_fichier.txt
226 Transfer complete
ftp: 79 bytes sent in 0.00Seconds 39.50Kbytes/sec.
```