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**Welcome
To
Network for you
TFTP-FTP**



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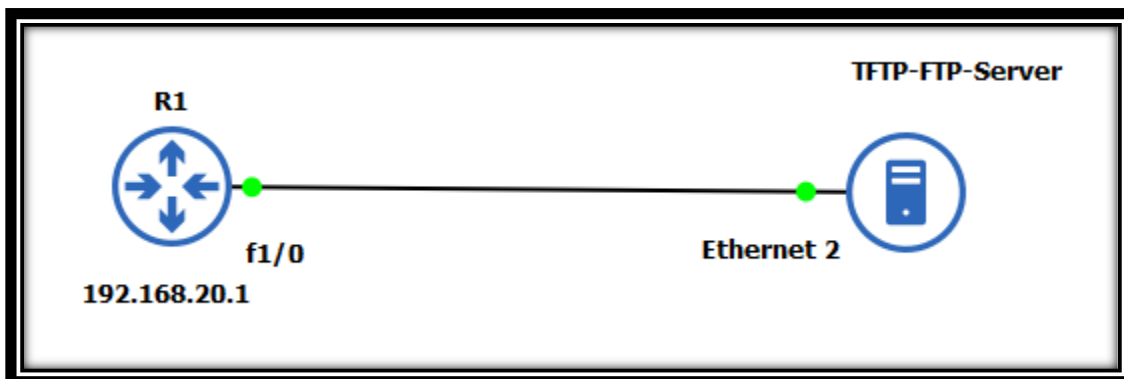
TFTP (Trivial File Transfer Protocol):

- TFTP stand for Trivial File Transfer Protocol.
- TFTP is used to backup and restore router or switch configuration.
- TFTP is also use to upgrade ISO image for Routers or switches.
- TFTP uses UDP (User Datagram Protocol) and Port 69.
- TFTP uses the connection less UDP for communication.
- TFTP requires very small amount of memory.
- TFTP is a simple file transfer protocol.
- TFTP does not support user authentication and all data is sent in clear text.
- TFTP uses less resource as compare to FTP.
- TFTP does not provide user authentication.

FTP (File Transfer Protocol):

- FTP stands for File Transfer Protocol.
- FTP provides user authentication
- FTP uses user and password or setup
- FTP is used to send and received file from the remote device.
- FTP uses TCP protocol for Communication.
- FTP is faster when compared to TFTP.
- FTP uses two TCP ports 20 for sending data and 21 for sending control commands.

Lab Time: TFTP



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Basic Router Configuration

```
en
config t
hostname R1

int f0/0
ip add 192.168.1.1 255.255.255.0

no sh
```

TFTP Configuration

Taking Configuration back from R1 to TFTP Server:

```
R1#copy running-config tftp:
Address or name of remote host []? 192.168.1.100
Destination filename [r1-config]? abc
```

Restoring Configuraiton back from TFTP Server to R2:

```
R2#copy tftp running-config
Address or name of remote host []? 192.168.1.100
Source filename []? abc
Destination filename [running-config]?
Accessing tftp://192.168.1.100/abc...
Loading abc from 192.168.1.100 (via FastEthernet1/0): !
```

FTP Configuration

Taking Configuration back from R1 to FTP Server:

```
R1(config)#ip ftp username admin
R1(config)#ip ftp password admin123
R1#copy running-config ftp
Address or name of remote host []? 192.168.1.100
```

```
Destination filename [r1-config]? xyz
Writing xyz !
918 bytes copied in 10.636 secs (86 bytes/sec)
```

Restoring Configuraiton back from FTP Server to R2:

```
R2#copy ftp running-config
```

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Address or name of remote host [192.168.1.100]?

Source filename [abc]? xyz

Destination filename [running-config]?

Accessing ftp://192.168.1.100/xyz...

Loading xyz !

[OK - 918/4096 bytes]

918 bytes copied in 5.056 secs (182 bytes/sec)

Note:

1. We will use our PC loopback with ip 192.168.1.100/24 and default gateway is Router IP 192.168.1.1
2. We will use 3CDaemon Software for our lab purpose.

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