



**Networkforyou**

Subscribe to our  
**You Tube Channel**



**Networkforyou**



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



**Networkforyou**

Email us:  
[networkforyou4@gmail.com](mailto:networkforyou4@gmail.com)

1 of 5

WhatsApp Us : +918143809578



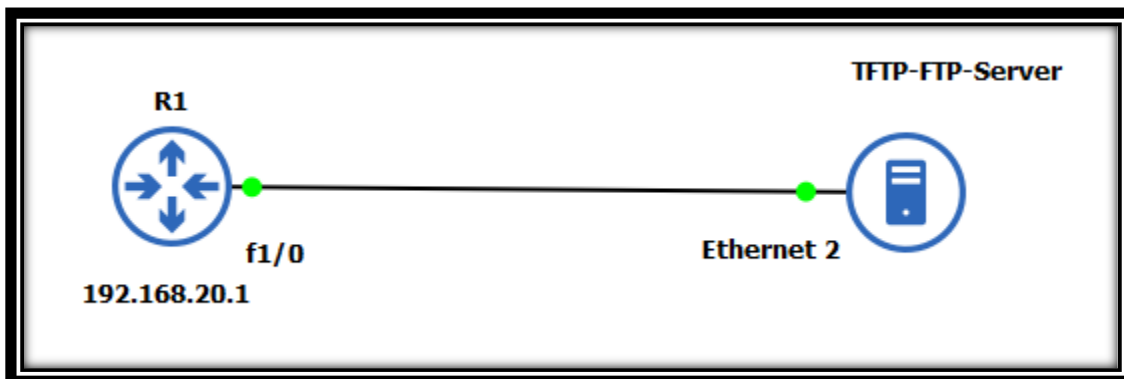
## TFTP (Trivial File Transfer Protocol):

- 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



Email us:  
[networkforyou4@gmail.com](mailto:networkforyou4@gmail.com)

2 of 5

WhatsApp Us : +918143809578



## 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)
```

**Email us:**  
[networkforyou4@gmail.com](mailto:networkforyou4@gmail.com)

3 of 5

**WhatsApp Us : +918143809578**



## Restoring Configuraiton back from FTP Server to R2:

```
R2#copy ftp running-config  
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.

### Troubleshooting TFTP:

- When copying to a TFTP Server, make sure the TFTP server has enough storage space.
- When copying from TFTP server, make sure storage location on Cisco device has enough.
- Use the show flash command to verify the amount of free space available and compare it.
- Ensure, check and verify that the TFTP server is reachable from the Cisco device routers.
- Check along path from source to destination for access lists that might be blocking TFTP.
- If using management interface for TFTP, interface will be used for sourcing TFTP traffic.
- Ensure, check & verify that you are using the copy command correctly & TFTP app is on.
- Keep in mind that, there is a 63-character limit on filenames in flash memory of Router.

### Troubleshooting FTP:

- When copying to a FTP Server, make sure the FTP server has enough storage space.
- When copying from FTP Server, make sure storage location on Cisco device has enough.
- Use the show flash command to verify the amount of free space available and compare it.
- Ensure, check and verify that the FTP Server is reachable from the Cisco device Routers.
- Check along path from source to destination for access lists that might be blocking FTP.
- If using management interface for FTP, interface will be used for sourcing FTP traffic.
- Ensure, check & verify that you are using the copy command correctly & FTP app is on.
- Keep in mind that, there is a 63-character limit on filenames in flash memory of Router.

**Email us:**  
[networkforyou4@gmail.com](mailto:networkforyou4@gmail.com)

4 of 5

**WhatsApp Us : +918143809578**



**NetworkforYou**

Subscribe to our  
**You Tube Channel**

- Ensure, check & verify that both side the username and password are same & correct.

NetworkforYou

**Email us:**  
**networkforYou4@gmail.com**

5 of 5

**WhatsApp Us : +918143809578**