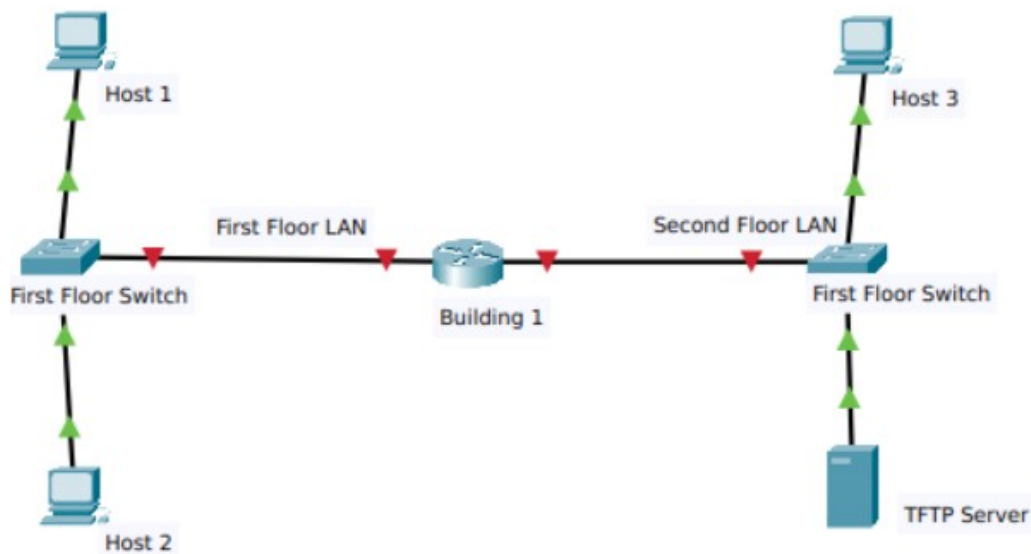


Topoogy-1



## Answers of the Following:

### Host 1:

IPv4 Address: 192.168.1.97

IPv4 Subnet mask: 255.255.255.224

IPv4 Default gateway: 192.168.1.126

IPv6 Address: 2001:DB8:ACAD:A::FF/64

IPv6 Default gateway: FE80::1

### Host 2:

IPv4 Address: 192.168.1.98

IPv4 Subnet mask: 255.255.255.224

IPv4 Default gateway: 192.168.1.126

Pv6 Address: 2001:DB8:ACAD:A::15/64

IPv6 Default gateway: FE80::1

### **Host 3:**

IPv4 Address: 192.168.1.145  
IPv4 Subnet mask: 255.255.255.240  
IPv4 Default gateway: 192.168.1.158

IPv6 Address: 2001:DB8:ACAD:B::FF/64  
IPv6 Default gateway: FE80::1

### **TFTP Server**

IPv4 Address: 192.168.1.146  
IPv4 Subnet mask: 255.255.255.240  
IPv4 Default gateway: 192.168.1.158

IPv6 Address: 2001:DB8:ACAD:B::15/64  
IPv6 Default gateway: FE80::1

### **Building 1 router**

**Use line console to connect Host 1 and Building 1 router. On Host 1, go to "Desktop Tab" --> choice "Terminal"**

```
en
conf terminal
hostname Building-1
enable secret class12345
service password-encryption
banner motd $This is Router$
security passwords min-length 10
login block-for 120 attempts 2 within 30
no ip domain-lookup
ip domain-name ITExamAnswers.net
crypto key generate rsa
1024

line console 0
password cisco12345
login
```

```
logging synchronous
exec-timeout 60
exit
```

```
line vty 0 4
password cisco12345
transport input ssh
login local
logging synchronous
exec-timeout 60
exit
```

```
line aux 0
password cisco12345
login
logging synchronous
exec-timeout 60
exit
```

```
ip ssh version 2
ip ssh time-out 120
username netadmin privilege 15 secret Cisco_CCNA7
```

```
interface g0/0
ip address 192.168.1.126 255.255.255.224
description First Floor LAN
ipv6 address 2001:DB8:ACAD:A::1/64
ipv6 address fe80::1 link-local
no shutdown
exit
```

```
interface g0/1

ip address 192.168.1.158 255.255.255.240
description Second Floor LAN
ipv6 address 2001:DB8:ACAD:B::1/64
ipv6 address fe80::1 link-local
no shutdown
exit
ipv6 unicast-routing
exit
write
```

## Second Floor Switch

Use **line console** to connect **Host 3** and **Second Floor Switch**.  
On **Host 3** , go to "**Desktop Tab**" --> choice "**Terminal**"

```
enable
```

```
conf terminal
enable secret class12345
service password-encryption
banner motd $Second Floor Switch$
no ip domain-lookup
```

```
line console 0
password cisco12345
login
logging synchronous
exec-timeout 60
exit
```

```
line vty 0 15
```

```
password cisco12345
login
logging synchronous
exec-timeout 60
exit
```

```
interface vlan 1
ip address 192.168.1.157 255.255.255.240
no shutdown
exit
```

```
ip default-gateway 192.168.1.158
exit
write
```

## Topology -2