Server-PT
Server0

Fa0/1
Fa0/2
Fa0/3
Fa0/40-24
Switch0

PC-PT
PC0

PC-PT
PC1

Fa0/0
Fa0/1
1841
Router0

Fa0/3
Fa0/1
Fa0/2
2950-24
Switch1

PC-PT
PC2

PC-PT
PC3

X   Server0   X

Server0

Physical | Config | Desktop | Software/Services

GLOBAL
- Settings
- Algorithm Settings

SERVICES
- HTTP
- DHCP
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

INTERFACE
- FastEthernet

DHCP

Service   ● On   ○ Off

Pool Name	serverPool
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Start IP Address :		192	168	10	0
Subnet Mask:		255	255	255	0

Maximum number of Users :	256
TFTP Server:	0.0.0.0

Add | Save | Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max Number	TFTP Sever
serverPool1	192.168.10.1	192.168.10.3	192.168.10.1	255.255.255.0	255	0.0.0.0
serverPool2	192.168.20.1	192.168.10.3	192.168.20.1	255.255.255.0	255	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192.168.10.0	255.255.255.0	256	0.0.0.0

Q Search   ENG IN   13:58 08-02-2024

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int
% Incomplete command.
Router(config)#int
Router(config)#interface f0/0
Router(config-if)#ip add
Router(config-if)#ip address
% Incomplete command.
Router(config-if)#ip add
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#ip helper-address 192.168.10.2
Router(config-if)#sh
Router(config-if)#no sh
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up

Router(config-if)#do write
Building configuration...
[OK]
Router(config-if)#exit
Router(config)#interface f0/1
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#ip helper-address 192.168.10.2
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state t
o up

Router(config-if)#do write
Building configuration...
[OK]
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy   Paste

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PDU Information at Device: Switch1

OSI Model | Inbound PDU Details | Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: FFFF.FFFF.FFFF	SRC MAC: 00D0.BC7A.8267
TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0   4   8   16   19   31 Bits

4	IHL	DSCP: 0x0	TL: 62
ID: 0x3		0x0	0x0
TTL: 128	PRO: 0x11	CHKSUM	
SRC IP: 192.168.20.4			
DST IP: 255.255.255.255			
OPT: 0x0			0x0
DATA (VARIABLE LENGTH)			

UDP

0   16   31 Bits

SRC PORT: 68	DEST PORT: 67
LENGTH: 0x2a	CHECKSUM: 0x0
DATA (VARIABLE)	

PDU Information at Device: Router0

OSI Model | **Inbound PDU Details** | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: 000C.8525.34AD	SRC MAC: 00D0.FFEC.D201

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0		TL: 62	
ID: 0x3			0x0	0x0	
TTL: 128		PRO: 0x11		CHKSUM	
SRC IP: 192.168.20.1					
DST IP: 192.168.10.2					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

UDP

0	16	31 Bits

SRC PORT: 68	DEST PORT: 67
LENGTH: 0x2a	CHECKSUM: 0x0
DATA (VARIABLE)	

PDU Information at Device: Switch0

OSI Model | **Inbound PDU Details** | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: 000C.8525.34AD	SRC MAC: 00D0.FFEC.D201

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 62		
ID: 0x3		0x0	0x0		
TTL: 128	PRO: 0x11	CHKSUM			
SRC IP: 192.168.20.1					
DST IP: 192.168.10.2					
OPT: 0x0		0x0			
DATA (VARIABLE LENGTH)					

UDP

0	16	31 Bits

SRC PORT: 68	DEST PORT: 67

PDU Information at Device: Server0

OSI Model | **Inbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: 000C.8525.34AD	SRC MAC: 00D0.FFEC.D201
TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 62		
ID: 0x3			0x0	0x0	
TTL: 128		PRO: 0x11	CHKSUM		
SRC IP: 192.168.20.1					
DST IP: 192.168.10.2					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

UDP

0	16	31 Bits

SRC PORT: 68	DEST PORT: 67
LENGTH: 0x2a	CHECKSUM: 0x0
DATA (VARIABLE)	

PDU Information at Device: Switch0

OSI Model | Inbound PDU Details | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: 00D0.FFEC.D201	SRC MAC: 000C.8525.34AD
TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 62		
ID: 0x34			0x0	0x0	
TTL: 128		PRO: 0x11	CHKSUM		
SRC IP: 192.168.10.2					
DST IP: 192.168.20.1					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

UDP

0	16	31 Bits

SRC PORT: 67	DEST PORT: 68

PDU Information at Device: Router0

OSI Model | **Inbound PDU Details** | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: FFFF.FFFF.FFFF	SRC MAC: 00D0.FFEC.D202

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 62		
ID: 0x34			0x0	0x0	
TTL: 128		PRO: 0x11	CHKSUM		
SRC IP: 192.168.20.1					
DST IP: 255.255.255.255					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

UDP

0	16	31 Bits

SRC PORT: 67	DEST PORT: 68
LENGTH: 0x2a	CHECKSUM: 0x0

DATA (VARIABLE)

PDU Information at Device: Switch1

OSI Model | Inbound PDU Details | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19	Byte

PREAMBLE: 101010...1011	DEST MAC: FFFF.FFFF.FFFF	SRC MAC: 00D0.FFEC.D202

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 62		
ID: 0x34			0x0	0x0	
TTL: 128		PRO: 0x11	CHKSUM		
SRC IP: 192.168.20.1					
DST IP: 255.255.255.255					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

UDP

0	16	31 Bits

SRC PORT: 67	DEST PORT: 68
LENGTH: 0x2a	CHECKSUM: 0x0

DATA (VARIABLE)

PDU Information at Device: PC3

OSI Model | **Inbound PDU Details** | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19 Byte

PREAMBLE: 101010...1011	DEST MAC: FFFF.FFFF.FFFF	SRC MAC: 00D0.BC7A.8267

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 62

ID: 0x5	0x0	0x0

TTL: 128	PRO: 0x11	CHKSUM

SRC IP: 0.0.0.0

DST IP: 255.255.255.255

OPT: 0x0	0x0

DATA (VARIABLE LENGTH)

UDP

0	16	31 Bits

SRC PORT: 68	DEST PORT: 67

LENGTH: 0x2a	CHECKSUM: 0x0

DATA (VARIABLE)