



Network Topology

Server0

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.1.1

Subnet Mask

255.255.255.0

Default Gateway

192.168.1.254

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::210:11FF:FEDE:B9DB

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

Server Static IP configuration

Server0

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SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DHCP

Interface

FastEthernet0

Service

On

Off

Pool Name

serverPool192

Default Gateway

192.168.1.254

DNS Server

0.0.0.0

Start IP Address :

192

168

1

0

Subnet Mask:

255

255

255

0

Maximum Number of Users :

255

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool192	192.168.1....	0.0.0.0	192.168.1.0	255.255.25...	255	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192.168.1.0	255.255.25...	255	0.0.0.0	0.0.0.0

☐ Top

DHCP Server Configuration

## DHCP Discover Packet

PDU Information at Device: Switch0

OSI Model

Inbound PDU Details

Outbound PDU Details

PDU Formats

IP

0 4 8 16 20 24 Bits

VER:4	IHL:5	DSCP:0x00	TL:66
ID:0x0037		FLAGS:0x0	FRAG OFFSET:0x000
TTL:128	PRO:0x11	CHKSUM	
SRC IP:192.168.1.1			
DST IP:255.255.255.255			
DATA (VARIABLE LENGTH)			

UDP

0 16 Bits

SOURCE PORT:67	DESTINATION PORT:68
LENGTH:0x002e	CHECKSUM:0
DATA (VARIABLE LENGTH)	

DHCP

0 8 16 24 Bytes

OP:0x0000000000000002	HW TYPE:1	HW LEN:6	HOPS:0
TRANSACTION ID			
SECS:0	FLAGS:0x000000000000000000000000000000000008000		
CLIENT ADDRESS:0.0.0.0			
YOUR CLIENT ADDRESS:192.168.1.2			
SERVER ADDRESS:192.168.1.1			
RELAY AGENT ADDRESS:0.0.0.0			
CLIENT HARDWARE ADDRESS:00D0.FF67.77B5			
SERVER HOSTNAME (64 BYTES)			
FILE (128 BYTES)			
OPTIONS (312 BYTES)			

DHCP Offer Packet



## DHCP Acknowledgement Packet