

Modulo # 11 – Laboratorio # 11.10.1

Device	Interface	Address	Subnet Mask	Default Gateway
East	G0/0	10.1.1.97	255.255.255.240	N/A
	G0/1	10.1.1.65	255.255.255.224	N/A
	S0/0/0	10.1.1.121	255.255.255.252	N/A
West	G0/0	10.1.1.113	255.255.255.248	N/A
	G0/1	10.1.1.1	255.255.255.192	N/A
	S0/0/0	10.1.1.122	255.255.255.252	N/A
ES-1	VLAN 1	10.1.1.98	255.255.255.240	10.1.1.97
ES-2	VLAN 1	10.1.1.66	255.255.255.224	10.1.1.65
WS-1	VLAN 1	10.1.1.114	255.255.255.248	10.1.1.113
WS-2	VLAN 1	10.1.1.2	255.255.255.192	10.1.1.1
PC E1-22	NIC	10.1.1.110	255.255.255.240	10.1.1.97
PC E2-47	NIC	10.1.1.94	255.255.255.224	10.1.1.65
PC W1-201	NIC	10.1.1.118	255.255.255.248	10.1.1.113
PC W2-87	NIC	10.1.1.62	255.255.255.192	10.1.1.1

Subnet Description	Number of Hosts Needed	Network Address/ CIDR	First Usable Host Address	Last Usable Host Address	Broadcast Address
WS-2 LAN	47	10.1.1.0/26	10.1.1.1	10.1.1.62	10.1.1.63
ES-2 LAN	28	10.1.1.64/27	10.1.1.65	10.1.1.94	10.1.1.95
ES-1 LAN	11	10.1.48.96/28	10.1.1.97	10.1.1.110	10.1.1.111
WS-1 LAN	5	10.1.48.112/29	10.1.1.113	10.1.1.118	10.1.1.119
WAN Link	2	10.1.48.120/30	10.1.1.121	10.1.1.122	10.1.1.123

IOS Command Line Interface

```
2 Gigabit Ethernet interfaces
2 Low-speed serial(sync/async) network interface(s)
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)

Press RETURN to get started!

East>en
East#conf t
Enter configuration commands, one per line. End with CNTL/Z.
East(config)#int g0/0
East(config-if)#ip add 10.1.1.97 255.255.255.240
East(config-if)#no shut

East(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

East(config-if)#int g0/1
East(config-if)#ip add 10.1.1.65 255.255.255.224
East(config-if)#no shut

East(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

East(config-if)#int s0/0/0
East(config-if)#ip add 10.1.1.121 255.255.255.252
East(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
East(config-if)#
```

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IOS Command Line Interface

Press RETURN to get started:

```
West>en
West#conf t
Enter configuration commands, one per line. End with CNTL/Z.
West(config)#int g0/0
West(config-if)#ip add 10.1.1.113 255.255.255.240
West(config-if)#no shut

West(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

West(config-if)#int g0/1
West(config-if)#int g0/0
West(config-if)#ip add 10.1.1.113 255.255.255.248
West(config-if)#no shut
West(config-if)#int g0/1
West(config-if)#ip add 10.1.1.1 255.255.255.192
West(config-if)#no shut

West(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

West(config-if)#int s0/0/0
West(config-if)#ip add 10.1.1.122 255.255.255.252
West(config-if)#no shut

West(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

West(config-if)#
```

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CLI

IOS Command Line Interface

```
* 1 26 WS-C2960-24TT-L 15.0(2)SE4 C2960-LANBASEK9-M

Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
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Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

ES-1>en
ES-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
ES-1(config)#int vlan1
ES-1(config-if)#ip add 10.1.1.98 255.255.255.240
ES-1(config-if)#no shut

ES-1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

ES-1(config-if)#ip def 10.1.1.97
ES-1(config)#
```

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CLI

IOS Command Line Interface

```
(R1)
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%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

ES-2>en
ES-2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
ES-2(config)#int vlan1
ES-2(config-if)#ip add 10.1.1.66 255.255.255.224
ES-2(config-if)#no shut

ES-2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

ES-2(config-if)#ip def 10.1.1.65
ES-2(config)#end
ES-2#
%SYS-5-CONFIG_I: Configured from console by console

ES-2#
```

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CLI

IOS Command Line Interface

```
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%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

WS-1>en
WS-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
WS-1(config)#int vlan1
WS-1(config-if)#ip add 10.1.1.114 255.255.255.248
WS-1(config-if)#no shut

WS-1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

WS-1(config-if)#ip def 10.1.1.113
WS-1(config)#
```

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CLI

IOS Command Line Interface

```
* 1 26 WS-C2960-24TT-L 15.0(2)SE4 C2960-LANBASEK9-M

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%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

WS-2>en
WS-2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
WS-2(config)#int vlan1
WS-2(config-if)#ip add 10.1.1.2 255.255.255.192
WS-2(config-if)#no shut

WS-2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

WS-2(config-if)#ip def 10.1.1.1
WS-2(config)#
```

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Desktop

Programming

IP Configuration

X

Interface FastEthernet0

IP Configuration

☐

DHCP

☒

Static

IPv4 Address

10.1.1.110

Subnet Mask

255.255.255.240

Default Gateway

10.1.1.97

DNS Server

0.0.0.0

IPv6 Configuration

☐

Automatic

☒

Static

IPv6 Address

Link Local Address

FE80::2D0:58FF:FED2:1C2B

Default Gateway

DNS Server

802.1X

☐

Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

Desktop

Programming

IP Configuration

X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 10.1.1.94

Subnet Mask 255.255.255.224

Default Gateway 10.1.1.65

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::201:63FF:FE46:E7E2

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

Desktop

Programming

IP Configuration

X

Interface FastEthernet0

IP Configuration

☐

DHCP

☒

Static

IPv4 Address

10.1.1.118

Subnet Mask

255.255.255.248

Default Gateway

10.1.1.113

DNS Server

0.0.0.0

IPv6 Configuration

☐

Automatic

☒

Static

IPv6 Address

Link Local Address

FE80::204:9AFF:FED1:9656

Default Gateway

DNS Server

802.1X

☐

Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

Desktop

Programming

IP Configuration

X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 10.1.1.62

Subnet Mask 255.255.255.192

Default Gateway 10.1.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::260:70FF:FE47:AAC1

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

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