

SW1 Commands

```
Switch(config)#hos
Switch(config)#hostname SW1
```

```
SW1(config)#vlan 81
SW1(config-vlan)#na
SW1(config-vlan)#name Staff
SW1(config-vlan)#exit
SW1(config)#vlan 82
SW1(config-vlan)#name Students
SW1(config-vlan)#exit
SW1(config)#vlan 85
SW1(config-vlan)#name MGT
SW1(config-vlan)#exit
SW1(config)#vlan 88
SW1(config-vlan)#name Guest
SW1(config-vlan)#exit
```

```
SW1(config)#int range f0/5-8
SW1(config-if-range)#sF0
SW1(config-if-range)#sw
SW1(config-if-range)#switchport mod
SW1(config-if-range)#switchport mode ac
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#sw
SW1(config-if-range)#switchport ac
SW1(config-if-range)#switchport access v
SW1(config-if-range)#switchport access vlan 81
SW1(config-if-range)#exit
SW1(config)#int range f0/9-12
SW1(config-if-range)#sw
SW1(config-if-range)#switchport mod
SW1(config-if-range)#switchport mode ac
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#sw
SW1(config-if-range)#switchport ac
SW1(config-if-range)#switchport access v
SW1(config-if-range)#switchport access vlan 82
SW1(config-if-range)#exit
SW1(config)#int range f0/13-16
SW1(config-if-range)#sw
SW1(config-if-range)#switchport mod
SW1(config-if-range)#switchport mode ac
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#sw
SW1(config-if-range)#switchport ac
SW1(config-if-range)#switchport access v
SW1(config-if-range)#switchport access vlan 85
SW1(config-if-range)#exit
SW1(config)#int rna
SW1(config)#int ra
SW1(config)#int range f0/17-20
SW1(config-if-range)#sw
SW1(config-if-range)#switchport mod
SW1(config-if-range)#switchport mode ac
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#sw
SW1(config-if-range)#switchport ac
SW1(config-if-range)#switchport access v
SW1(config-if-range)#switchport access vlan 88
SW1(config-if-range)#exit
```

```
SW1(config)#do show vlan br
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gi0/1, Gi0/2
8	VLAN0008	active	
81	Staff	active	Fa0/5, Fa0/6, Fa0/7, Fa0/8
82	Students	active	Fa0/9, Fa0/10, Fa0/11, Fa0/12
85	MGT	active	Fa0/13, Fa0/14, Fa0/15, Fa0/16
88	Guest	active	Fa0/17, Fa0/18, Fa0/19, Fa0/20
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

```
SW1(config)#int range f0/1-2
SW1(config-if-range)#shu
SW1(config-if-range)#shutdown
SW1(config-if-range)#
*Mar 1 01:26:47.077: %LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administratively down
*Mar 1 01:26:47.077: %LINK-5-CHANGED: Interface FastEthernet0/2, changed state to administratively down
*Mar 1 01:26:48.083: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
*Mar 1 01:26:48.083: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
SW1(config-if-range)#
SW1(config-if-range)#channel-gr
SW1(config-if-range)#channel-group 1 mode
SW1(config-if-range)#channel-group 1 mode des
SW1(config-if-range)#channel-group 1 mode desirable
Creating a port-channel interface Port-channel 1

SW1(config-if-range)#no sh
SW1(config-if-range)#no shutdown
SW1(config-if-range)#exit
SW1(config)#
*Mar 1 01:27:19.004: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
*Mar 1 01:27:19.012: %LINK-3-UPDOWN: Interface FastEthernet0/2, changed state to up
SW1(config)#
*Mar 1 01:27:28.416: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
*Mar 1 01:27:28.550: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
SW1(config)#int por
SW1(config)#int port-c
SW1(config)#int port-channel 1
SW1(config-if)#sw
SW1(config-if)#switchport mod
SW1(config-if)#switchport mode tr
SW1(config-if)#switchport mode trunk
SW1(config-if)#exit
SW1(config)#
```

```
SW1#show ethe sum
Flags:  D - down          P - bundled in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator

        M - not in use, minimum links not met
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

```
Number of channel-groups in use: 1
Number of aggregators:          1
```

Group	Port-channel	Protocol	Ports
1	Po1 (SU)	PAgP	Fa0/1 (P) Fa0/2 (P)

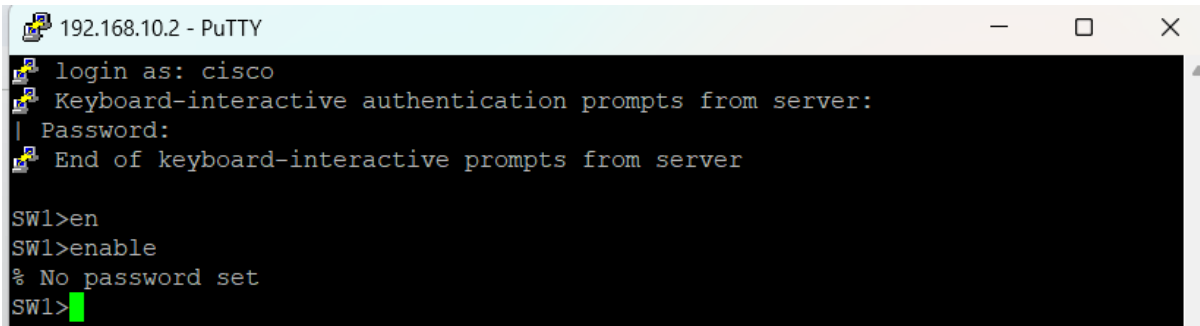
```
SW1(config)#int range f0/5-8
SW1(config-if-range)#switchport port-security maximum 2
SW1(config-if-range)#switchport port-security violation shutdown
SW1(config-if-range)#exit
SW1(config)#int range f0/9-12
SW1(config-if-range)#switchport port-security maximum 2
SW1(config-if-range)#switchport port-security violation shutdown
SW1(config-if-range)#exit
SW1(config)#int range f0/13-16
SW1(config-if-range)#switchport port-security maximum 2
SW1(config-if-range)#switchport port-security violation shutdown
SW1(config-if-range)#exit
SW1(config)#int f0/17-20
      ^
% Invalid input detected at '^' marker.
```

```
SW1(config)#int range f0/17-20
SW1(config-if-range)#switchport port-security maximum 2
SW1(config-if-range)#switchport port-security violation shutdown
SW1(config-if-range)#exit
SW1(config)#
```

```
SW1(config)#int range f0/5-20
SW1(config-if-range)#spanning-tree bpduguard enable
SW1(config-if-range)#spanning-tree portfast
```

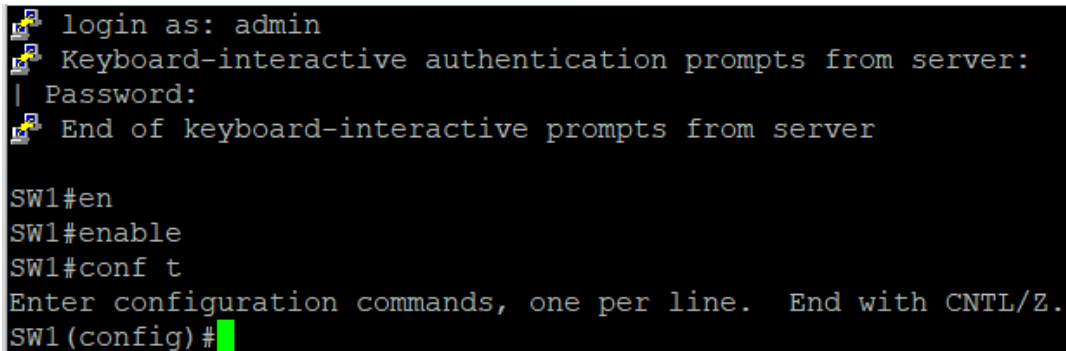
```
SW1(config)#ip ssh version 2
SW1(config)#line vty 0 15
SW1(config-line)#transport input ssh
SW1(config-line)#login local
SW1(config-line)#exit
SW1(config)#username cisco privilege 1 password class
SW1(config)#username admin privilege 15 password ciscoeigrp
SW1(config)#
```

```
SW1(config)#int vlan 1
SW1(config-if)#no shutdown
SW1(config-if)#
*Mar  1 00:49:59.866: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
*Mar  1 00:49:59.875: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
SW1(config-if)#ip address 192.168.10.2 255.255.255.0
SW1(config-if)#exit
SW1(config)#ip domain-name SW1.com
```



```
192.168.10.2 - PuTTY
login as: cisco
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

SW1>en
SW1>enable
% No password set
SW1>
```



```
login as: admin
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

SW1#en
SW1#enable
SW1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
SW1(config)#
```

SW2 Commands

```
Switch(config)#hos
Switch(config)#hostname SW2
SW2(config)#
```

```

SW2(config)#vlan 81
SW2(config-vlan)#name Staff
SW2(config-vlan)#exit
SW2(config)#vlan 82
SW2(config-vlan)#name Students
SW2(config-vlan)#exit
SW2(config)#vlan 85
SW2(config-vlan)#name MGT
SW2(config-vlan)#exit
SW2(config)#vlan 88
SW2(config-vlan)#name Guest
SW2(config-vlan)#exit
SW2(config)#int range f0/5-8
SW2(config-if-range)#sw
SW2(config-if-range)#sw
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 81
SW2(config-if-range)#exit
SW2(config)#int range f0/9-12
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 82
SW2(config-if-range)#exit
SW2(config)#int range f0/13-16
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 85
SW2(config-if-range)#exit
SW2(config)#int range f0/17-20
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 88
SW2(config-if-range)#exit
SW2(config)#

```

```

SW2(config)#do show vlan br

```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gi0/1, Gi0/2
81	Staff	active	Fa0/5, Fa0/6, Fa0/7, Fa0/8
82	Students	active	Fa0/9, Fa0/10, Fa0/11, Fa0/12
85	MGT	active	Fa0/13, Fa0/14, Fa0/15, Fa0/16
88	Guest	active	Fa0/17, Fa0/18, Fa0/19, Fa0/20
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

```

SW2(config)#int range f0/3-4
SW2(config-if-range)#shutdown
SW2(config-if-range)#channel-group 2 mode ac
SW2(config-if-range)#channel-group 2 mode active
Creating a port-channel interface Port-channel 2

SW2(config-if-range)#no shutdown
SW2(config-if-range)#
*Mar 1 01:46:02.272: %LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to up
*Mar 1 01:46:02.280: %LINK-3-UPDOWN: Interface FastEthernet0/4, changed state to up
*Mar 1 01:46:10.627: %SMI-5-CLIENT: Smart Install Client feature is enabled. It is recommended to disable t
e 'no vstack' in configuration mode
*Mar 1 01:46:10.795: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
*Mar 1 01:46:11.004: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
SW2(config-if-range)#
SW2(config-if-range)#exit
SW2(config)#int port
SW2(config)#int port-c
SW2(config)#int port-channel 2
SW2(config-if)#switchport mode trunk
SW2(config-if)#
*Mar 1 01:46:40.625: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
*Mar 1 01:46:40.625: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down
*Mar 1 01:46:51.446: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
*Mar 1 01:46:52.100: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
SW2(config-if)#

```

```

SW2(config)#do show eth sum
Flags:  D - down          P - bundled in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator

        M - not in use, minimum links not met
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

```

```

Number of channel-groups in use: 1
Number of aggregators:          1

```

Group	Port-channel	Protocol	Ports
2	Po2 (SU)	LACP	Fa0/3 (P) Fa0/4 (P)

```
SW2(config)#int range f0/5-8
SW2(config-if-range)#switchport port-security maximum 2
SW2(config-if-range)#switchport port-security violation shutdown
SW2(config-if-range)#exit
SW2(config)#int range f0/9-12
SW2(config-if-range)#switchport port-security maximum 2
SW2(config-if-range)#switchport port-security violation shutdown
SW2(config-if-range)#exit
SW2(config)#int range f0/13-16
SW2(config-if-range)#switchport port-security maximum 2
SW2(config-if-range)#switchport port-security violation shutdown
SW2(config-if-range)#exit
SW2(config)#int range f0/17-20
SW2(config-if-range)#switchport port-security maximum 2
SW2(config-if-range)#switchport port-security violation shutdown
SW2(config-if-range)#exit
```

```
SW2(config)#int range f0/5-20
SW2(config-if-range)#spanning-tree bpduguard enable
SW2(config-if-range)#spanning-tree portfast
```

```
SW2(config)#int vlan 1
SW2(config-if)#no shutdown
SW2(config-if)#
*Mar  1 00:54:05.334: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
*Mar  1 00:54:05.342: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
SW2(config-if)#ip address 192.168.10.3 255.255.255.0
SW2(config-if)#exit
SW2(config)#ip domain-name SW2.com
SW2(config)#crypto key generate rsa
The name for the keys will be: SW2.SW2.com
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 35 seconds)

SW2(config)#ip ssh version 2
SW2(config)#line vty 0 15
SW2(config-line)#transport input ssh
SW2(config-line)#login local
SW2(config-line)#exit
SW2(config)#username cisco privilege 1 password class
SW2(config)#username admin privilege 15 password ciscoeigrp
SW2(config)#
```

```
login as: cisco
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

SW2>en
SW2>enable
% No password set
SW2>
```

```
login as: admin
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

SW2#en
SW2#enable
SW2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
SW2(config)#
```

L3SW commands


```

L3SW(config)#int range f0/1-2
L3SW(config-if-range)#shutdown
L3SW(config-if-range)#
*Mar 1 00:06:59.111: %LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administratively down
*Mar 1 00:06:59.170: %LINK-5-CHANGED: Interface FastEthernet0/2, changed state to administratively down
*Mar 1 00:07:00.118: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
*Mar 1 00:07:00.176: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
L3SW(config-if-range)#channel-group 1 mode desirable
Creating a port-channel interface Port-channel 1

L3SW(config-if-range)#no shut
L3SW(config-if-range)#no shutdown
L3SW(config-if-range)#
*Mar 1 00:07:21.635: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
*Mar 1 00:07:21.651: %LINK-3-UPDOWN: Interface FastEthernet0/2, changed state to up
*Mar 1 00:07:28.127: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
*Mar 1 00:07:28.161: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
*Mar 1 00:07:29.100: %LINK-3-UPDOWN: Interface Port-channel1, changed state to up
*Mar 1 00:07:30.107: %LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to up
L3SW(config-if-range)#exit
L3SW(config)#int por
L3SW(config)#int port-
L3SW(config)#int port-channel 1
L3SW(config-if)#sw
L3SW(config-if)#switchport mod
L3SW(config-if)#switchport mode tr
L3SW(config-if)#switchport mode trunk
Command rejected: An interface whose trunk encapsulation is "Auto" can not be configured to "trunk" mode.
L3SW(config-if)#
L3SW#
*Mar 1 00:08:02.177: %SYS-5-CONFIG_I: Configured from console by console
L3SW#
L3SW#conf t
Enter configuration commands, one per line. End with CNTL/Z.
L3SW(config)#int por
L3SW(config)#int port-
L3SW(config)#int port-channel 1
L3SW(config-if)#sw
L3SW(config-if)#switchport tr
L3SW(config-if)#switchport trunk en
L3SW(config-if)#switchport trunk encapsulation do
L3SW(config-if)#switchport trunk encapsulation dot1q
L3SW(config-if)#sw
L3SW(config-if)#switchport mod
L3SW(config-if)#switchport mode tr
L3SW(config-if)#switchport mode trunk

```

```

L3SW(config-if)#int range f0/3-4
L3SW(config-if-range)#shutdown
L3SW(config-if-range)#
*Mar 1 00:11:33.251: %LINK-5-CHANGED: Interface FastEthernet0/3, changed state to administratively down
*Mar 1 00:11:33.310: %LINK-5-CHANGED: Interface FastEthernet0/4, changed state to administratively down
*Mar 1 00:11:34.257: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
*Mar 1 00:11:34.316: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down
L3SW(config-if-range)#channel-group 2 mode active
Creating a port-channel interface Port-channel 2

L3SW(config-if-range)#no shutdown
L3SW(config-if-range)#
*Mar 1 00:12:08.919: %LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to up
*Mar 1 00:12:08.936: %LINK-3-UPDOWN: Interface FastEthernet0/4, changed state to up
*Mar 1 00:12:18.163: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
*Mar 1 00:12:18.264: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
*Mar 1 00:12:19.145: %LINK-3-UPDOWN: Interface Port-channel2, changed state to up
*Mar 1 00:12:20.152: %LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel2, changed state to up
L3SW(config-if-range)#exit
L3SW(config)#int port-ch
L3SW(config)#int port-channel 2
L3SW(config-if)#sw
L3SW(config-if)#switchport tr
L3SW(config-if)#switchport trunk en
L3SW(config-if)#switchport trunk encapsulation do
L3SW(config-if)#switchport trunk encapsulation dot1q ?
<cr>

L3SW(config-if)#switchport trunk encapsulation dot1q
L3SW(config-if)#sw
L3SW(config-if)#switchport mod
L3SW(config-if)#switchport mode tr
L3SW(config-if)#switchport mode trunk
L3SW(config-if)#

```

```
L3SW(config)#do show ethe sum
Flags:  D - down          P - bundled in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator

        M - not in use, minimum links not met
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

```
Number of channel-groups in use: 2
Number of aggregators:          2
```

Group	Port-channel	Protocol	Ports
1	Po1(SU)	PAgP	Fa0/1(P) Fa0/2(P)
2	Po2(SU)	LACP	Fa0/3(P) Fa0/4(P)

```
L3SW(config)#vlan 81
L3SW(config-vlan)#name Staff
L3SW(config-vlan)#exit
L3SW(config)#vlan 82
L3SW(config-vlan)#name Students
L3SW(config-vlan)#exit
L3SW(config)#vlan 85
L3SW(config-vlan)#name MGT
L3SW(config-vlan)#exit
L3SW(config)#vlan
L3SW(config)#vlan 88
L3SW(config-vlan)#name Guest
L3SW(config-vlan)#exit
```

```
L3SW(config)#int vlan 81
L3SW(config-if)#ip address 10.95.81.1 255.255.255.0
L3SW(config-if)#exit
L3SW(config)#int vlan 82
L3SW(config-if)#ip address 10.95.82.2 255.255.255.0
L3SW(config-if)#exit
L3SW(config)#int vlan 85
L3SW(config-if)#ip address 10.95.85.5 255.255.255.0
L3SW(config-if)#exit
L3SW(config)#int vlan 88
L3SW(config-if)#ip address 10.95.88.8 255.255.255.0
L3SW(config-if)#exit
```

*Mar 1 00:55:06.722: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan85, changed state to up

*Mar 1 00:55:41.266: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan88, changed state to up

```

L3SW(config)#ip dhcp pool VLAN-81
L3SW(dhcp-config)#network 10.95.81.0 255.255.255.0
L3SW(dhcp-config)#default-router 10.95.81.1
L3SW(dhcp-config)#exit
L3SW(config)#ip dhcp pool VLAN-82
L3SW(dhcp-config)#network 10.95.82.0 255.255.255.0
L3SW(dhcp-config)#default-router 10.95.82.2
L3SW(dhcp-config)#exit
L3SW(config)#ip dhcp pool VLAN-85
L3SW(dhcp-config)#network 10.95.85.0 255.255.255.0
L3SW(dhcp-config)#default-router 10.95.85.5
L3SW(dhcp-config)#exit
L3SW(config)#ip dhcp pool VLAN-88
L3SW(dhcp-config)#network 10.95.88.0 255.255.255.0
L3SW(dhcp-config)#default-router 10.95.88.8
L3SW(dhcp-config)#exit
L3SW(config)#

```

```

L3SW(config)#do show vlan

```

VLAN	Name	Status	Ports
1	default	active	Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gi0/1, Gi0/2
81	Staff	active	
82	Students	active	
85	MGT	active	
88	Guest	active	
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

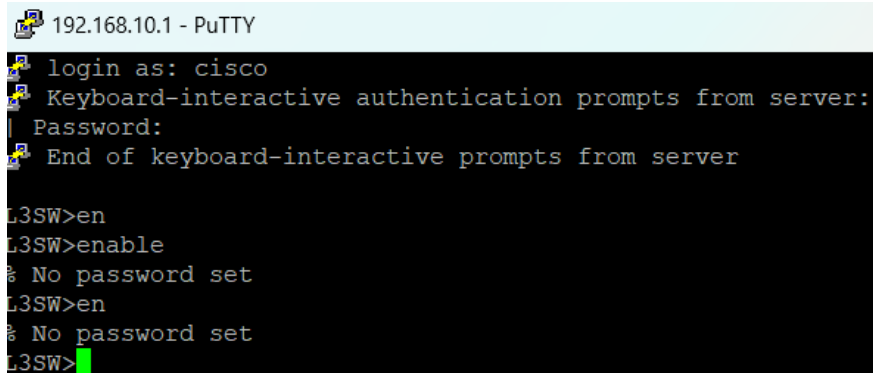
```
L3SW(config)#ip domain-name L3SW.com
L3SW(config)#crypto key generate rsa
The name for the keys will be: L3SW.L3SW.com
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.
```

```
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 30 seconds)
```

```
L3SW(config)#
L3SW(config)#ip ssh version 2
L3SW(config)#line vty 0 15
L3SW(config-line)#transport input ssh
L3SW(config-line)#login local
L3SW(config-line)#exit
L3SW(config)#username cisco privilege 1 password class
L3SW(config)#username admin privilege 15 password ciscoeigrp
```

```
L3SW(config)#do show ip ssh
SSH Enabled - version 2.0
Authentication timeout: 120 secs; Authentication retries: 3
Minimum expected Diffie Hellman key size : 1024 bits
IOS Keys in SECSH format(ssh-rsa, base64 encoded):
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDi5Jw7C/IxD7LLpnQpOUT2W8z5YINbG2s2TCa/O3k0
qe7CWDe7AGvW8EZRFnJ9tWP/4oiK4qm0vj8cuxqVE+vWXTItmULugJ5Jjh9CpYOqtP+xY5e8X04+ofFk
BIDFYxCR+el5iVcAJBDUO7H0AknR09RlZZLUCmASRcQgKSz5lw==
```

```
L3SW(config)#int vlan 1
L3SW(config-if)#no shut
L3SW(config-if)#ip add 192.168.10.1 255.255.255.0
L3SW(config-if)#exit
L3SW(config)#ip default-gateway 10.95.79.1
```



```
192.168.10.1 - PuTTY
login as: cisco
Keyboard-interactive authentication prompts from server:
Password:
End of keyboard-interactive prompts from server

L3SW>en
L3SW>enable
% No password set
L3SW>en
% No password set
L3SW>
```

```
login as: admin
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

L3SW#en
L3SW#enable
L3SW#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
```

R1 commands

```
Router(config)#hostname R1
R1(config)#
```

```
Router(config)#int f0/1
Router(config-if)#no sh
Router(config-if)#no shutdown
Router(config-if)#
Jan  2 15:21:13.951: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
Jan  2 15:21:14.951: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router(config-if)#ip ad
Router(config-if)#ip add
Router(config-if)#ip address 10.95.0.83 255.255.254.0
Router(config-if)#exit
Router(config)#int f0/0
Router(config-if)#no sh
Router(config-if)#no shutdown
Router(config-if)#
Jan  2 15:22:44.139: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
Jan  2 15:22:45.139: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#ip add
Router(config-if)#ip address 10.95.89.1 255.255.252.0
Router(config-if)#exit
Router(config)#
```

```
R1(config)#ip access-list extended SERVICES
R1(config-ext-nacl)#deny icmp 10.95.85.0 0.0.0.255 any echo
R1(config-ext-nacl)#deny tcp 10.95.82.0 0.0.0.255 any eq 443
R1(config-ext-nacl)#deny tcp 10.95.81.0 0.0.0.255 any eq 22
R1(config-ext-nacl)#deny tcp 10.95.88.0 0.0.0.255 any eq 80
```

```
R1(config-ext-nacl)#permit ip any any
```

```
R1(config)#int f0/0
R1(config-if)#ip access-group SERVICES in
```

Results

```
C:\Users\user>ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet 3:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::d23c:4272:31f0:9c8%20  
IPv4 Address. . . . . : 192.168.56.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . :
```

Wireless LAN adapter Local Area Connection* 1:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Wireless LAN adapter Local Area Connection* 2:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::f13b:8fce:7a6b:d7d2%2  
IPv4 Address. . . . . : 10.95.81.2  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 10.95.81.1
```

```
C:\Users\user>ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet 3:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::d23c:4272:31f0:9c8%20  
IPv4 Address. . . . . : 192.168.56.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . :
```

Wireless LAN adapter Local Area Connection* 1:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Wireless LAN adapter Local Area Connection* 2:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::f13b:8fce:7a6b:d7d2%2  
IPv4 Address. . . . . : 10.95.82.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 10.95.82.2
```

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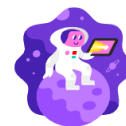
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Connect to the internet

You're offline. Check your connection.

Retry

```
C:\Users\user>ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet 3:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::d23c:4272:31f0:9c8%20  
IPv4 Address. . . . . : 192.168.56.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . :
```

Wireless LAN adapter Local Area Connection* 1:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Wireless LAN adapter Local Area Connection* 2:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::f13b:8fce:7a6b:d7d2%2  
IPv4 Address. . . . . : 10.95.85.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 10.95.85.5
```

```
C:\Users\user>ping 1.1.1.1
```

Pinging 1.1.1.1 with 32 bytes of data:

```
Reply from 10.95.79.1: Destination net unreachable.  
Reply from 10.95.79.1: Destination net unreachable.  
Reply from 10.95.79.1: Destination net unreachable.  
Reply from 10.95.79.1: Destination net unreachable.
```

Ping statistics for 1.1.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

```
C:\Users\user>|
```



```
C:\Users\user>ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet 3:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::d23c:4272:31f0:9c8%20  
IPv4 Address. . . . . : 192.168.56.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . :
```

Wireless LAN adapter Local Area Connection* 1:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Wireless LAN adapter Local Area Connection* 2:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::f13b:8fce:7a6b:d7d2%2  
IPv4 Address. . . . . : 10.95.88.1  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 10.95.88.8
```

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ERR_CONNECTION_TIMED_OUT

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