

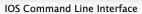
### aicha1

#### IOS Command Line Interface

```
Fa0/2
          1-20
Fa0/3
          1-20
Port
          Vlans allowed and active in management domain
Fa0/1
          1,10,20
Fa0/2
          1,10,20
Fa0/3
          1,10,20
Port
          Vlans in spanning tree forwarding state and not pruned
Fa0/1
Fa0/2
          1,10,20
Fa0/3
          none
Switch(config)#interface fa0/3
Switch (config-if) #switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 1-20
Switch (config-if) #exit
Switch(config) #do sh interface trunk
Port
          Mode
                 Encapsulation Status
                                                 Native vlan
Fa0/1
          on
                      802.1q trunking
                                                1
Fa0/2
          on
                      802.1q
                                   trunking
Fa0/3
          on
                   802.1q
                                   trunking
          Vlans allowed on trunk
Port
Fa0/1
          1-20
Fa0/2
          1-20
Fa0/3
          1-20
Port
          Vlans allowed and active in management domain
Fa0/1
          1,10,20
Fa0/2
          1,10,20
Fa0/3
          1,10,20
Port
          Vlans in spanning tree forwarding state and not pruned
Fa0/1
          1,10,20
Fa0/2
          1,10,20
Fa0/3
          10,20
Switch (config) #do sh interface trunk
Port
          Mode
                      Encapsulation Status
                                                Native vlan
Fa0/1
                                   trunking
          on
                      802.1q
                                                1
Fa0/2
                      802.1q
                                    trunking
          on
Fa0/3
                      802.1q
                                   trunking
          Vlans allowed on trunk
Port
Fa0/1
          1-20
Fa0/2
          1-20
Fa0/3
          1-20
Port
          Vlans allowed and active in management domain
Fa0/1
          1,10,20
Fa0/2
          1,10,20
Fa0/3
          1,10,20
Port
          Vlans in spanning tree forwarding state and not pruned
Fa0/1
          1,10,20
Fa0/2
          1,10,20
Fa0/3
          1,10,20
Switch(config)#do sh vlan brief
VLAN Name
                                 Status Ports
1 default
                                 active Fa0/4, 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, Gig0/1, Gig0/2
10 etudiant
                                 active
20 admin
                                  active
1002 fddi-default
                                 active
1003 token-ring-default
                                  active
1004 fddinet-default
                                  active
1005 trnet-default
                                  active
Switch (config) #
```



Fa0/1 1,10,20 Switch(config)#interface fa0/2 Switch (config-if) #switchport mode trunk %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up Switch (config-if) #swi %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (20), with Switch FastEthernet0/1 (1) % Ambiguous command: "s" Switch(config-if) #switchport trunk allowed vlan 1-20 Switch (config-if) #exit Switch(config)#do sh interface trunk Native vlan Port Mode Encapsulation Status Fa0/1 on 802.1q trunking Fa0/2 802.1q trunking on Port Vlans allowed on trunk Fa0/1 1-20 Fa0/2 1-20 Vlans allowed and active in management domain Port Fa0/1 1,10,20 1,10,20 Fa0/2 Port Vlans in spanning tree forwarding state and not pruned Fa0/1 1,10,20 Fa0/2 10,20 Switch (config) # %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (20), with Switch FastEthernet0/1 (1). %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (20), with Switch FastEthernet0/1 (1). %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (20), with Switch FastEthernet0/1 (1). %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (20), with Switch FastEthernet0/1 (1). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (20), with Switch FastEthernet0/1 (1). Switch(config)#interface fa0/3 Switch (config-if) #switchport mode trunk Switch (config-if) # %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up Switch(config-if) #switchport trunk allowed vlan 1-20 Switch (config-if) #exit Switch (config) #do sh interface trunk Port Mode Encapsulation Status Native vlan Fa0/1 on 802.1q trunking 802.1q Fa0/2 trunking on Fa0/3 on 802.1q trunking Vlans allowed on trunk Port Fa0/1 1-20 Fa0/2 1-20 Fa0/3 1-20 Port Vlans allowed and active in management domain Fa0/1 1,10,20 Fa0/2 1,10,20 Fa0/3 1,10,20 Vlans in spanning tree forwarding state and not pruned Port Fa0/1 1,10,20 Fa0/2 1,10,20 Fa0/3 10.20 Switch (config) # %LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to down



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%LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to down					
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down					
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up					
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up					
Switch (conf	ig)#do sh int	terface trunk			
Port	Mode	Encapsulation	Status	Native vlan	
Fa0/1	on	802.1q	trunking	1	
Fa0/2	on on	802.1q	trunking	1	
Fa0/3	on	802.1q	trunking	1	
Port	Vlans allowe	ed on trunk			
Fa0/1	1-20				
Fa0/2	1-20				
Fa0/3	1-20				
Port	Vlans allowed and active in management domain				
Fa0/1	1,10,20				
Fa0/2 Fa0/3	1,10,20 1,10,20				
Port Vlans in spanning tree forwarding state and not pruned					
Fa0/1	1,10,20				
Fa0/2	1,10,20				
Fa0/3	none				
Switch(config)#interface fa0/3					
Switch(config-if)#switchport mode trunk					
Switch(config-if)#switchport trunk allowed vlan 1-20					
	ig-if)#exit				
	Fig)#do sh int			W.TT. Y	
Port Fa0/1	Mode on	Encapsulation	trunking	Native vlan	
Fa0/2	on		trunking	1	
Fa0/3	on		trunking	1	
Port	Vlans allowed on trunk				
Fa0/1	1-20	ou on crank			
Fa0/2	1-20				
Fa0/3	1-20				
Port	Vlans allowed and active in management domain				
Fa0/1	1,10,20				
Fa0/2	1,10,20				
Fa0/3	1,10,20				
Port	Vlans in spanning tree forwarding state and not pruned				
Fa0/1 Fa0/2	1,10,20				
Fa0/3	1,10,20 10,20				
Switch(config)#do sh interface trunk					
	Mode	Encapsulation	Status	Native vlan	
Fa0/1	on	802.1q	trunking	1	
Fa0/2	on	802.1q	trunking	1	
Fa0/3	on	802.1q	trunking	1	
Port	Vlans allowed on trunk				
Fa0/1	1-20				
Fa0/2 Fa0/3	1-20 1-20				
Port	Vlans allowed and active in management domain				
Fa0/1	1,10,20				
Fa0/2	1,10,20				
Fa0/3	1,10,20				
Port	Vlans in spanning tree forwarding state and not pruned				
Fa0/1	1,10,20				
Fa0/2 Fa0/3	1,10,20 1,10,20				
1000 4000 - 000000	Cuitab (applie)				
Switch(config)#					

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up Switch>en Switch#conf t Enter configuration commands, one per line. End with CNTL/Z. Switch (config) #vlan 10 Switch (config-vlan) #name etudiant Switch (config-vlan) #exit Switch (config) #vlan 20 Switch(config-vlan)#name admin Switch (config-vlan) #exit Switch(config)#interface fa0/2 Switch (config-if) #switchport mode access Switch(config-if) #switchport access vlan 10 Switch (config-if) #exit Switch (config) #do sh vlan brief Status Ports 1 default active Fa0/3, Fa0/4, 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, Gig0/1, Gig0/2 10 etudiant active Fa0/2 20 admin active 1002 fddi-default active 1003 token-ring-default active 1004 fddinet-default 1005 trnet-default active Switch(config)#interface fa0/3 Switch(config-if) #switchport mode access Switch(config-if) #switchport access vlan 20 Switch (config-if) #exit Switch (config) #interface fa0/1 Switch (config-if) #switchport mode trunk Switch(config-if) #switchport trunk allowed vlan 1-20 Switch (config-if) #exit Switch (config) #do sh vlan brief VLAN Name Status Ports active Fa0/4, Fa0/5, Fa0/6, Fa0/7 1 default 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, Gig0/1, Gig0/2 10 etudiant active Fa0/2 20 admin active Fa0/3 1002 fddi-default active 1003 token-ring-default active 1004 fddinet-default active 1005 trnet-default Switch(config)#do sh interface trunk Port Mode Encapsulation Status Native vlan Fa0/1 on 802.1q trunking Port Vlans allowed on trunk Fa0/1 1-20 Vlans allowed and active in management domain Port Fa0/1 Port Vlans in spanning tree forwarding state and not pruned Fa0/1 1,10,20 Switch (config) #

Switch (config) # Switch(config)#do sh interface trunk Switch(config) #do sh vlan brief Status Ports and the same of th 1 default active Fa0/1, Fa0/4, 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, Gig0/1, Gig0/2 10 etudiant active Fa0/2 20 admin active Fa0/3 active 1002 fddi-default 1003 token-ring-default active 1004 fddinet-default active 1005 trnet-default active Switch(config)#interface fa0/1 Switch (config-if) #switchport mode trunk Switch (config-if) # %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up Switch(config-if) #switchport trunk allowed vlan 10,20 Switch (config-if) #exit Switch(config) #do sh interface trunk Port Mode Encapsulation Status Native vlan 802.1q Fa0/1 on trunking Port Vlans allowed on trunk Fa0/1 10,20 Port Vlans allowed and active in management domain 10,20 Fa0/1 Vlans in spanning tree forwarding state and not pruned Port Fa0/1 Switch(config)#interface fa0/1 Switch (config-if) #switchport mode trunk Switch(config-if) #switchport trunk allowed vlan 1-20 Switch (config-if) #exit Switch (config) #do sh interface trunk Port Mode Encapsulation Status Native vlan Fa0/1 on 802.1q trunking Vlans allowed on trunk Port Fa0/1 Vlans allowed and active in management domain Port Fa0/1 Vlans in spanning tree forwarding state and not pruned Port Fa0/1 Switch (config) #exit %SYS-5-CONFIG I: Configured from console by console Switch#

Switch con0 is now available

%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). Switch>en Switch#conf t Enter configuration commands, one per line. End with CNTL/Z. Switch (config) #do sh interface trunk Port Mode Encapsulation Status Native vlan Fa0/1 802.1q trunking 1 Port Vlans allowed on trunk Fa0/1 1-20 Vlans allowed and active in management domain Port Fa0/1 Port Vlans in spanning tree forwarding state and not pruned Fa0/1 1,10,20 Switch (config) # %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). %CDP-4-NATIVE\_VLAN\_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (1), with Switch FastEthernet0/2 (10). Switch con0 is now available Press RETURN to get started.

Switch>

```
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%SPANTREE-2-RECV PVID ERR: Received 802.10 BPDU on non trunk FastEthernet0/1 VLAN1.
%SPANTREE-2-BLOCK PVID LOCAL: Blocking FastEthernet0/1 on VLAN0001. Inconsistent port type.
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #vlan 10
Switch (config-vlan) #name etudiant
Switch (config-vlan) #exit
Switch (config) #vlan 20
Switch (config-vlan) #name admin
Switch (config-vlan) #exit
Switch (config) #interface fa0/2
Switch (config-if) #switchport mode access
Switch (config-if) #switchport access vlan 10
Switch (config-if) #exit
Switch(config)#interface fa0/3
Switch (config-if) #switchport mode access
Switch (config-if) #switchport access vlan 20
Switch (config-if) #exit
Switch(config) #do sh vlan brief
VI.AN Name
                                    Status Ports
                                    active Fa0/1, Fa0/4, Fa0/5, Fa0/6
1 default
                                              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, Gig0/1, Gig0/2
10 etudiant
                                   active
                                              Fa0/2
20 admin
                                   active
                                              Fa0/3
1002 fddi-default
                                 active
1003 token-ring-default
                                   active
1004 fddinet-default
                                    active
1005 trnet-default
Switch (config) #interface fa0/1
Switch (config-if) #switchport mode trunk
Switch (config-if) #
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Switch(config-if) #switchport trunk allowed vlan 1-20
Switch (config-if) #exit
Switch(config) #do sh interface trunk
           Mode Encapsulation Status
Port
                                                    Native vlan
Fa0/1
                       802.1q trunking
           Vlans allowed on trunk
Port
Fa0/1
           1-20
           Vlans allowed and active in management domain
Port
Fa0/1
Port
           Vlans in spanning tree forwarding state and not pruned
Fa0/1
Switch (config) #
```

Physical

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## Command Prompt

```
X
```

```
Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:
Reply from 192.168.10.2: bytes=32 time=1ms TTL=128
Reply from 192.168.10.2: bytes=32 time<1ms TTL=128
Reply from 192.168.10.2: bytes=32 time=1ms TTL=128
Reply from 192.168.10.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```



Physical Config

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# **Command Prompt**



```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.20.2
Pinging 192.168.20.2 with 32 bytes of data:
Reply from 192.168.20.2: bytes=32 time=1ms TTL=128
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Reply from 192.168.20.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.20.2:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```

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## Command Prompt

```
X
```

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.3
Pinging 192.168.10.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.10.3:
   Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.10.3
Pinging 192.168.10.3 with 32 bytes of data:
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time=11ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.3:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 11ms, Average = 2ms
C:\>ping 192.168.10.1
Pinging 192.168.10.1 with 32 bytes of data:
Reply from 192.168.10.1: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```