

```
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
 $LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
 %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>enable
 Enter configuration commands, one per line. End with CNTL/Z.
 Switch(config) #interface FastEthernet0/2
Switch (config) #interface FastEthernet0/2
Switch (config-if) #exit
Switch (config-if-range) #channel-group 1 mode ?
Switch (config-if-range) #channel-group 1 mode ?
active Enable LACP unconditionally
auto Enable FAgF only if a FAgF device is detected
desirable Enable FAgF unconditionally
on Enable Etherchannel only
passive Enable LACP only if a LACP device is detected
Switch (config-if-range) #channel-group 1 mode on
Switch (config-if-range) #channel-group 1 mode on
 Switch(config-if-range)#
Creating a port-channel interface Port-channel 1
 %LINK-5-CHANGED: Interface Port-channell, changed state to up
 %LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channell, changed state to up
 Switch(config-if-range) #end
 Switch#
%SYS-5-CONFIG_I: Configured from console by console
 Switchfur memory
 Building configuration...
[OK]
Switch#
```

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%LINK-5-CRANGED: Interface FastEthernet0/3, changed state to up
%LINK-3-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to down
%LINEFROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
%LINEFROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINEFROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%witch>enable
%witch$
Switch$configure terminal
Enter configuration commands, one per line. End with CNTL/2.
%witch (config)$interface FastEthernet0/2
%witch (config-if-range)$configured fastEthernet0/2
%witch (config-if-range)$configured form console by console
%witch$witch$
%%YS-5-CONFIG_I: Configured from console by console
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Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<lms TTL=128

Reply from 192.168.0.1: bytes=32 time<lms TTL=128

Reply from 192.168.0.1: bytes=32 time=7ms TTL=128

Reply from 192.168.0.1: bytes=32 time=7ms TTL=128

Ping statistics for 192.168.0.1:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 7ms, Average = 3ms

C:\>
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```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time=5ms TTL=128
Reply from 192.168.0.2: bytes=32 time=7ms TTL=128
Reply from 192.168.0.2: bytes=32 time=6ms TTL=128
Reply from 192.168.0.2: bytes=32 time=6ms TTL=128

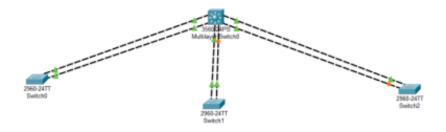
Ping statistics for 192.168.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 7ms, Average = 4ms

C:\>
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Вывод команды ping показывает, что между вашим компьютером и устройством с IPадресом 192.168.0.1; 192.168.0.2 есть активное сетевое соединение. Это означает, что связь стабильна и достаточно быстрая. Что происходит при отключении кабеля между коммутаторами: Отключение кабеля между двумя коммутаторами приведет к немедленному разрыву сетевого соединения между устройствами, подключенными к этим коммутаторам (если только нет альтернативного пути).



```
Switch(config-if-range)#channel-group 1 mode active
Switch(config-if-range)#
Creating a port-channel interface Port-channel 1
 %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
%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 un
Switch(config-if-range) #exit
Switch(config) #interface range fastEthernet 0/1-2
Switch(config-if-range) #channel-protocol lacp
Switch(config-if-range) #channel-group 2 mode active
 Switch(config-if-range) #
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
 LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/1, changed state to up
%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-range) #exit
Switch(config) #interface range fastEthernet 0/1-2
Switch(config-if-range) #channel-protocol lacp
Switch(config-if-range) #cannel-group 3 mode active
% Invalid input detected at '^' marker.
Switch(config-if-range)#channel-group 3 mode active
Switch(config-if-range) # % INEPROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/1, changed state to down
 *LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
 LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to do
 %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
                                                                                                     Came David
   1 26 WS-C2960-24TT-L 15.0(2)SE4
                                                                    CIS60-LANBASEK9-M
Cisco IOS Software, C2960 Software (C2960-LAMBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWJ Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
 ALINK-5-CHANGED: Interface FastEthernetO/1, changed state to up
 %LINEPROTO-5-UFDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
 %LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LIMEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
 Switch#conf :
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #interface rangeEthernet 0/1-2
 Marker.
 Switch (confic) finterface rance fastEthernet 0/1-2
 owich (config #interface = range tasternernet v/1-2
Switch (config-if-range) #channel-protocol lamp
Switch (config-if-range) #channel-group 1 mode passive
Switch (config-if-range) #
Creating a port-channel interface Fort-channel 1
 ALIMEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
 %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/1, changed state to up
 ALIMEPROTO-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
 PINELKATA-D-ALFANNA: Tile biologof of Turelisce issificational of Cusuded state to Ab
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
&LIMEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Switch>en
Switch#conf t
Switch(config) #interface range fastEthernet 0/1-2
Switch(config) #interface range fastEthernet 0/1-2
Switch(config-if-range) #channel-protol lasp
• Invalid input detected at '^* marker.
 witch(config-if-range)@channel-protocol 0/1-2
% Invalid input detected at '^' marker.
Switch (config-if-range) #channel-protocol lacp
Switch (config-if-range) #channel-group 2 mode passive
Switch (config-if-range) #
Creating a port-channel interface Port-channel 2
ALINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/1, changed state to down
ALINEFROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/1, changed state to up
ALINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/2, changed state to down
WLINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernetO/2, changed state to up
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```
#LIMEPROTO-5-UPDOWN: line protocol on Interface FastEthernet0/2, changed state to up

Switch@conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(configuration commands, one per line. End with CNTL/Z.
Switch(configuration) schemel-protocol lasp
Switch(configuration) schemel-protocol lacp
Switch(configuration) schemel-group 3 made passive
Switch(configuration) schemel-group 3 made passive
Switch(configuration) schemel-group 3 mode passi
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Cisco Facket Tracer PC Command Line 1.0

C:\>ping 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<ims TTL=128

Reply from 192.168.0.1: bytes=32 time=fms TTL=128

Reply from 192.168.0.1: bytes=32 time=fms TTL=128

Reply from 192.168.0.1: bytes=32 time=fms TTL=128

Reply from 192.168.0.1: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.0.1:

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

Approximate round trip times in milli-seconds:

Minimum = Gms, Maximum = 5ms, Average = 3ms

C:\>
```

```
Cisco Packet Tracer PC Command Line 1.0
Citoping 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time=5ms TTL=128
Reply from 192.168.0.2: bytes=32 time=7ms TTL=128
Reply from 192.168.0.2: bytes=32 time=6ms TTL=128
Reply from 192.168.0.2: bytes=32 time=6ms TTL=128
Reply from 192.168.0.2: bytes=32 time=6ms TTL=128
Ping statistics for 192.168.0.2:
Packets: Sent = 4. Received = 4. Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Kinimum = ims, Maximum = 7ms, Average = 4ms
```

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time=Sms TTL=128
Reply from 192.168.0.3: bytes=32 time=Ems TTL=128
Reply from 192.168.0.3: bytes=32 time=Ems TTL=128
Reply from 192.168.0.3: bytes=32 time=7ms TTL=128
Ping statistics for 192.168.0.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trup times in milli-seconds:
Minimum = Cms, Maximum = Sms, Average = Sms
C:\>
```

