Essay prompt:

Why before the connection is established the PACKET\_IN message is sent?

Your response:

*Packet in messages are sent from the switch to the controller. PacketIn message is a way for the switch to send a captured packet to the controller.*

Grader's comments:

You have received 0 out of 1 for this essay question.

Your grade for the Mininet with Floodlight Controller lesson has been changed to 40%.

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Przetłumacz wiadomość

Wyłącz dla następującego języka: angielski

Essay prompt:

What is the purpose of FLOW\_MOD OpenFlow message?

Your response:

*This is a major message, FLOW\_MOD enables the controller allow  to modify the state of an OpenFlow switch.*

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Grader's comments:

You have received 0 out of 1 for this essay question.

Your grade for the Mininet with Floodlight Controller lesson has been changed to 40%.

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Przetłumacz wiadomość

Wyłącz dla następującego języka: angielski

Essay prompt:

Remove two flows inserted before and make communication between h1 and h2 possible with **only one** flow entry.  
  
As answer to this question paste:  
  
1) commands to **delete** inserted flows  
2) command to insert **one flow** which makes communication possible

Your response:

*1) sudo ovs-ofctl del-flow s1 in\_port=1*

*2) sudo ovs-ofctl add-flow s1 in\_port=1*

Grader's comments:

You have received 0 out of 2 for this essay question.

Your grade for the Proactive flows lesson has been changed to 0%.

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Przetłumacz wiadomość

Wyłącz dla następującego języka: angielski

Essay prompt:

1. Run floodlight with Forwarding module disabled
2. Create topology.py file
3. Insert following topology implementation to this file:  
     
   from mininet.topo import Topo  
   class MyTopo( Topo ):  
      
      "Simple topology example."  
      def \_\_init\_\_( self ):  
         "Create custom topo."  
         # Initialize topology  
         Topo.\_\_init\_\_( self )  
         # Add hosts and switches  
         leftHost = self.addHost( 'h1' )  
         rightHost = self.addHost( 'h2' )  
         leftSwitch = self.addSwitch( 's1' )  
         upSwitch = self.addSwitch( 's2' )  
         rightSwitch = self.addSwitch( 's3' )  
         downSwitch = self.addSwitch( 's4' )  
         # Add links  
         self.addLink( leftHost, leftSwitch )  
         self.addLink( leftSwitch, rightSwitch, bw=1 )  
         self.addLink( rightSwitch, rightHost )  
         self.addLink( leftSwitch, upSwitch, bw=100 )  
         self.addLink( leftSwitch, downSwitch, bw=100 )  
         self.addLink( rightSwitch, upSwitch, bw=100 )  
         self.addLink( rightSwitch, downSwitch, bw=100 )  
     
     
   topos = { 'mytopo': ( lambda: MyTopo() ) }
4. Run mininet with topology.py and floodlight remote controller
5. Using StaticFlowEntryPusher implement routing as described in table below (hint: ovs-ofctl command can be used to query switches):

|  |  |  |  |
| --- | --- | --- | --- |
| Source | Destination | Protocol | Path |
| h1 | h2 | ICMP | s1 – s2 – s3 |
| h2 | h1 | ICMP | s3 – s4 - s1 |
| h1 | h2 | UDP | s1 – s3 |
| h2 | h1 | UDP | s3 – s1 |

As answer paste flow entries on s1 and s3 (ovs-ofctl dump-flows s1; ovs-ofctl dump-flows s3)

Your response: *student@3a302c89bc6f:/$ sudo ovs-ofctl dump-flows s1  
NXST\_FLOW reply (xid=0x4):  
 cookie=0x2000000b000000, duration=79.079s, table=0, n\_packets=77, n\_bytes=7546, idle\_timeout=5, idle\_age=0, priority=1,ip,in\_port=1,dl\_src=46:93:9b:b4:6c:c8,dl\_dst=12:07:22:5c:d1:0d,nw\_src=10.0.0.1,nw\_dst=10.0.0.2 actions=output:2  
 cookie=0x2000000c000000, duration=79.073s, table=0, n\_packets=77, n\_bytes=7546, idle\_timeout=5, idle\_age=0, priority=1,ip,in\_port=2,dl\_src=12:07:22:5c:d1:0d,dl\_dst=46:93:9b:b4:6c:c8,nw\_src=10.0.0.2,nw\_dst=10.0.0.1 actions=output:1  
 cookie=0x0, duration=92.627s, table=0, n\_packets=55, n\_bytes=4057, idle\_age=6, priority=0 actions=CONTROLLER:65535  
student@3a302c89bc6f:/$ sudo ovs-ofctl dump-flows s3  
NXST\_FLOW reply (xid=0x4):  
 cookie=0x2000000b000000, duration=92.826s, table=0, n\_packets=91, n\_bytes=8918, idle\_timeout=5, idle\_age=0, priority=1,ip,in\_port=1,dl\_src=46:93:9b:b4:6c:c8,dl\_dst=12:07:22:5c:d1:0d,nw\_src=10.0.0.1,nw\_dst=10.0.0.2 actions=output:2  
 cookie=0x2000000c000000, duration=92.821s, table=0, n\_packets=90, n\_bytes=8820, idle\_timeout=5, idle\_age=0, priority=1,ip,in\_port=2,dl\_src=12:07:22:5c:d1:0d,dl\_dst=46:93:9b:b4:6c:c8,nw\_src=10.0.0.2,nw\_dst=10.0.0.1 actions=output:1  
 cookie=0x20000015000000, duration=1.748s, table=0, n\_packets=0, n\_bytes=0, idle\_timeout=5, idle\_age=1, priority=1,arp,in\_port=2,dl\_src=12:07:22:5c:d1:0d,dl\_dst=46:93:9b:b4:6c:c8 actions=output:1  
 cookie=0x20000016000000, duration=1.746s, table=0, n\_packets=1, n\_bytes=42, idle\_timeout=5, idle\_age=1, priority=1,arp,in\_port=1,dl\_src=46:93:9b:b4:6c:c8,dl\_dst=12:07:22:5c:d1:0d actions=output:2  
 cookie=0x0, duration=106.354s, table=0, n\_packets=63, n\_bytes=4609, idle\_age=1, priority=0 actions=CONTROLLER:65535  
student@3a302c89bc6f:/$*

https://ssl.gstatic.com/ui/v1/icons/mail/images/cleardot.gif

Grader's comments:

You have received 0 out of 2 for this essay question.

Your grade for the Proactive flows lesson has been changed to 0%.

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Przetłumacz wiadomość

Wyłącz dla następującego języka: angielski

Essay prompt:

1. Stop Floodlight and mininet
2. Run Floodlight with Forwarding module disabled
3. Run Mininet with topology.py file
4. Insert flows accordingly to table below:

|  |  |  |  |
| --- | --- | --- | --- |
| Source | Destination | Idle Timeout [s] | Path |
| h1 | h2 | 10 | s1 – s4 – s2 – s3 |
| h2 | h1 | 20 | s3 – s4 – s1 |

As answer paste screenshot with flow table of switch s3.

Your response:

*a*

Grader's comments:

You have received 0 out of 1 for this essay question.

Your grade for the Floodlight WEB GUI lesson has been changed to 0%.