NETW206 Week 5 Lab Report

Lab 5 of 7 (30 points)

3580-spv **Configuring VLANs and Deciphering STP Output**

336318 **CONFIGURING EXPANDED SWITCHED NETWORKS: RSTP and Troubleshooting**

Name: Kevin O'Neal
Date: 8-12-2012
Professor: Hopkins

3580-spv **Configuring VLANs and Deciphering STP Output** (10 points)

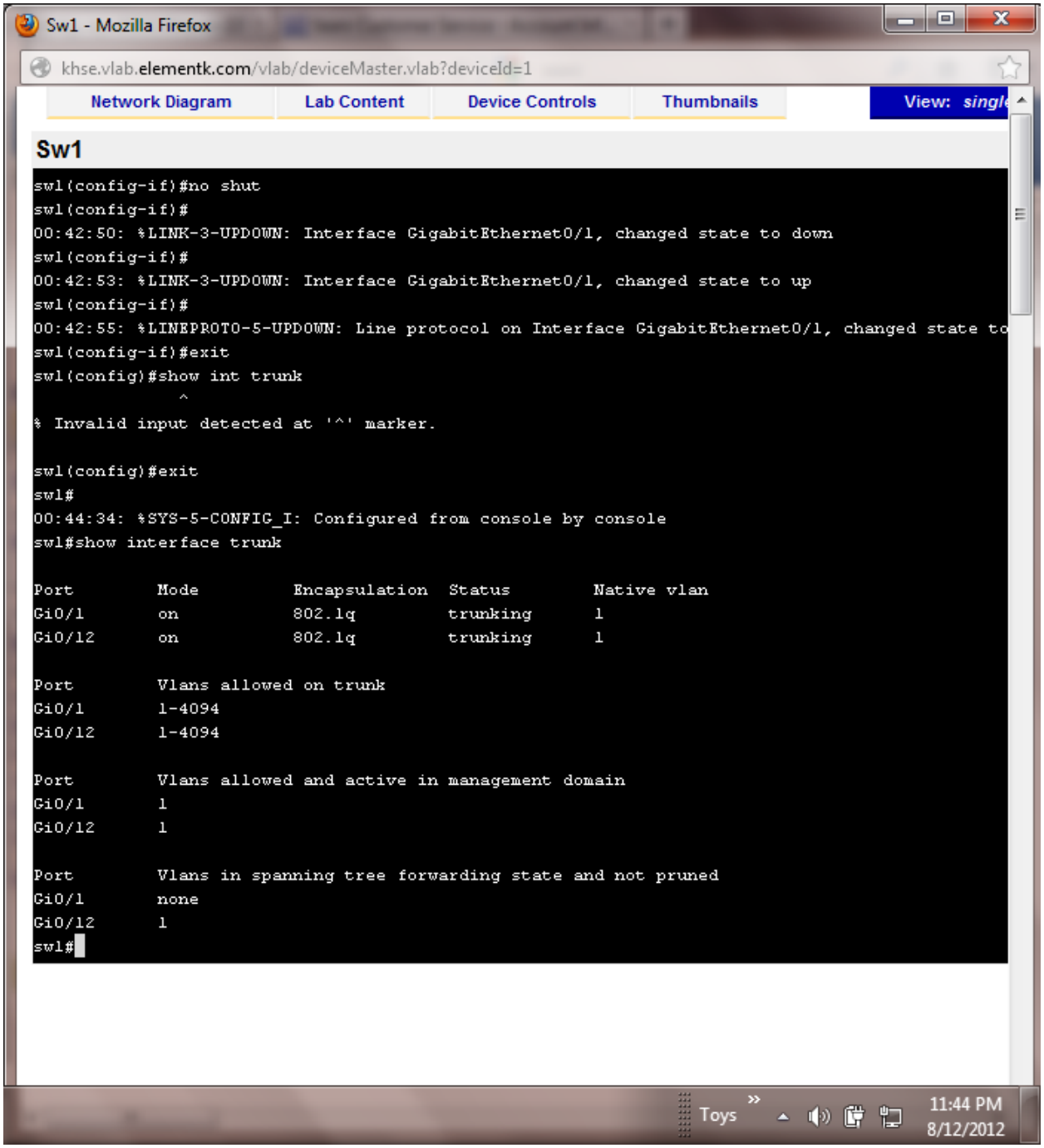
Write a paragraph (minimum five college-level sentences) below that summarizes what was accomplished in this lab, what you learned by performing it, how it relates to this week's TCO's and other course material; and just as important, how you feel it will benefit you in your academic and professional career

In this lab we configured the ip addresses on the routers and switches. We then configured the virtual trjunk protocol with the domain ICND and in the server mode. Next, we configured a trunk between s1 and s2. On Sw1, configure VLAN2 with the name: vlan_b. Then, on s2 we configured vlan2 on port 2. Finally, we configured spanning-tree protocol on s1. We checked our configurations with the show spanning-tree command command and show vlan command and also used the data to find the root bridge and BID. All these commands and configurations will help me in my future endeavors of networking administration at Devry and at my future place of employment.

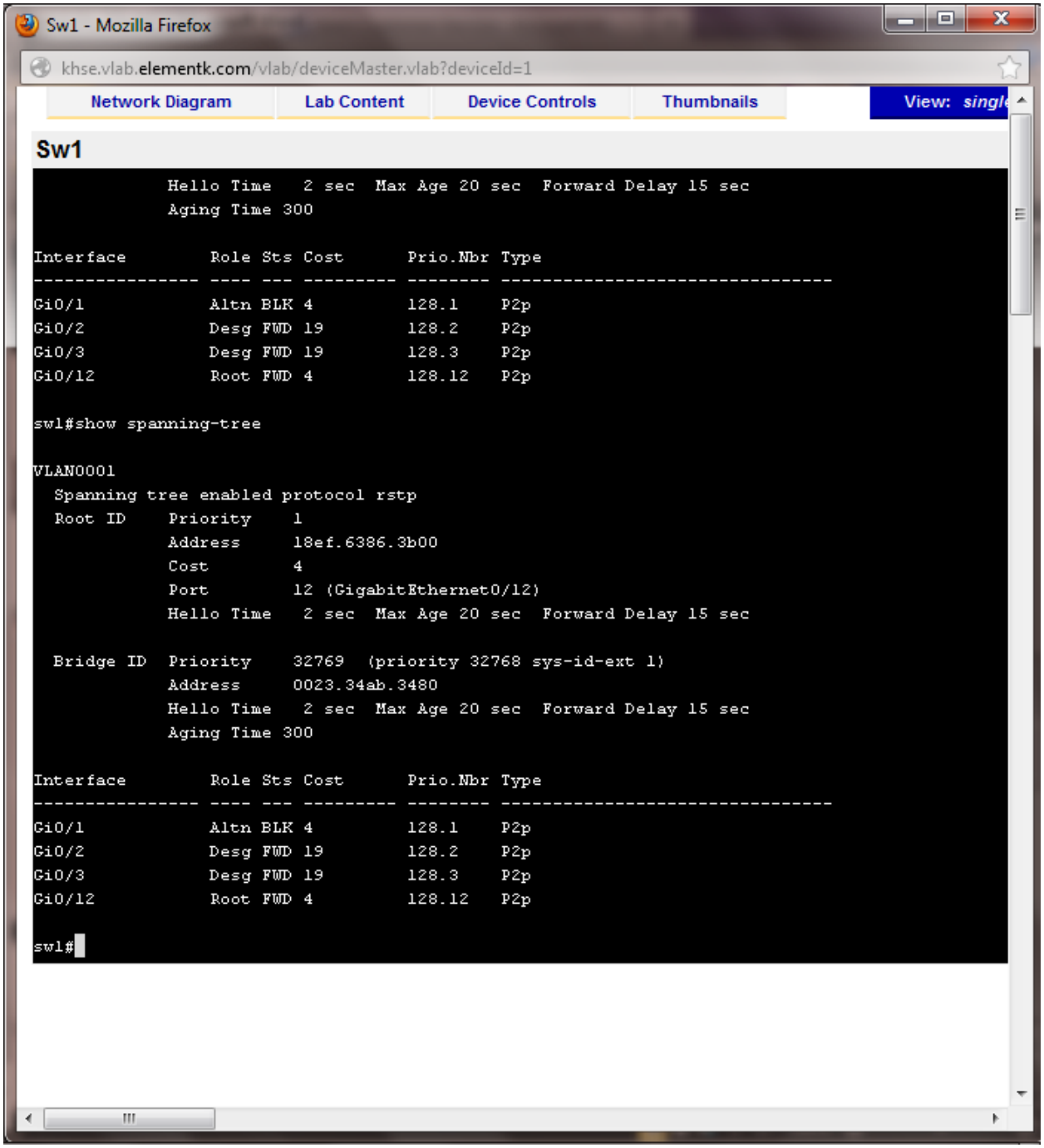
336318 **CONFIGURING EXPANDED SWITCHED NETWORKS: RSTP and troubleshooting**

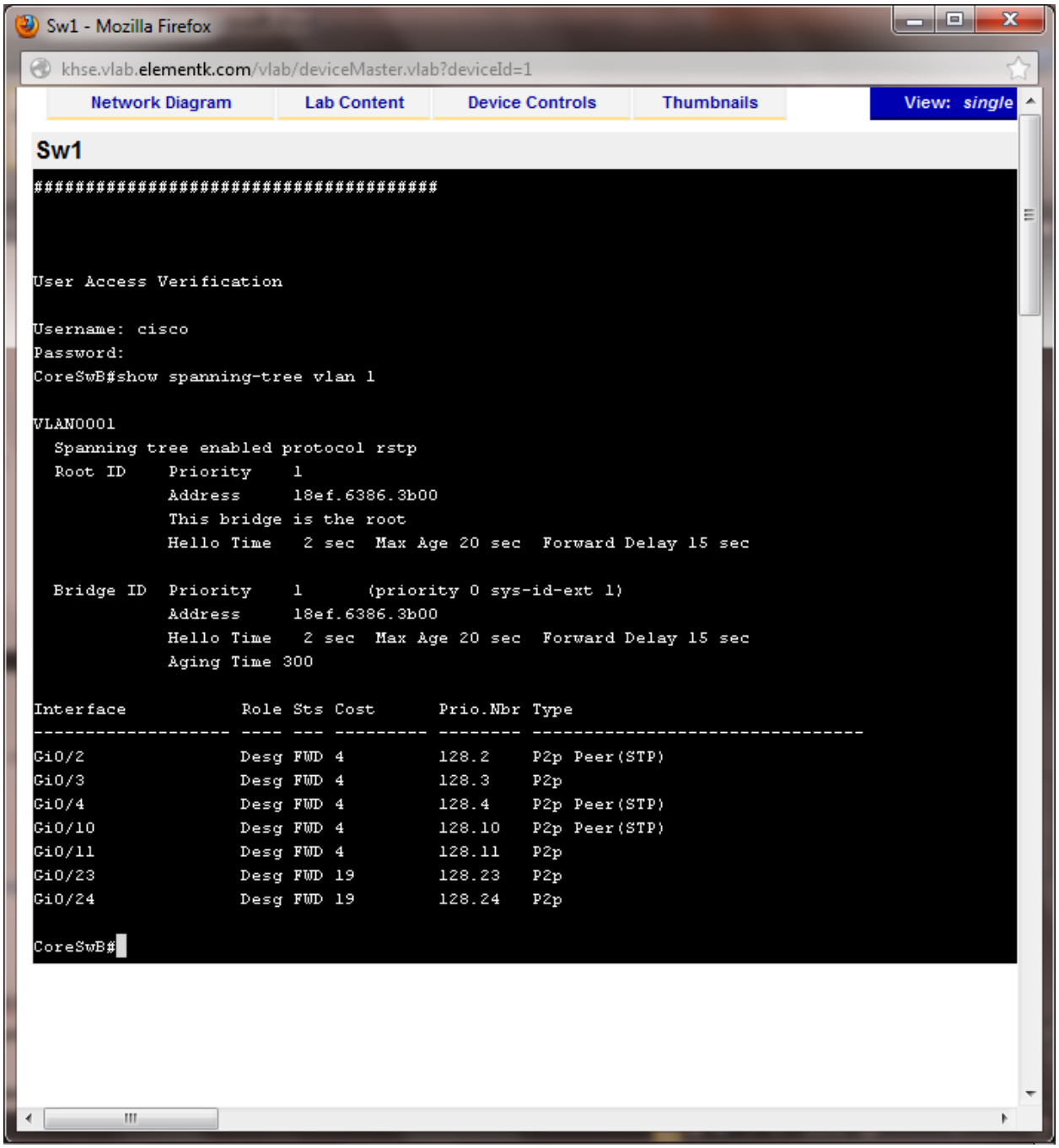
Also, after completing the lab, you must show your work by copying and pasting a screenshot of the following configurations/verification:

Task 1: Show interface trunk on Sw1 (3 points)

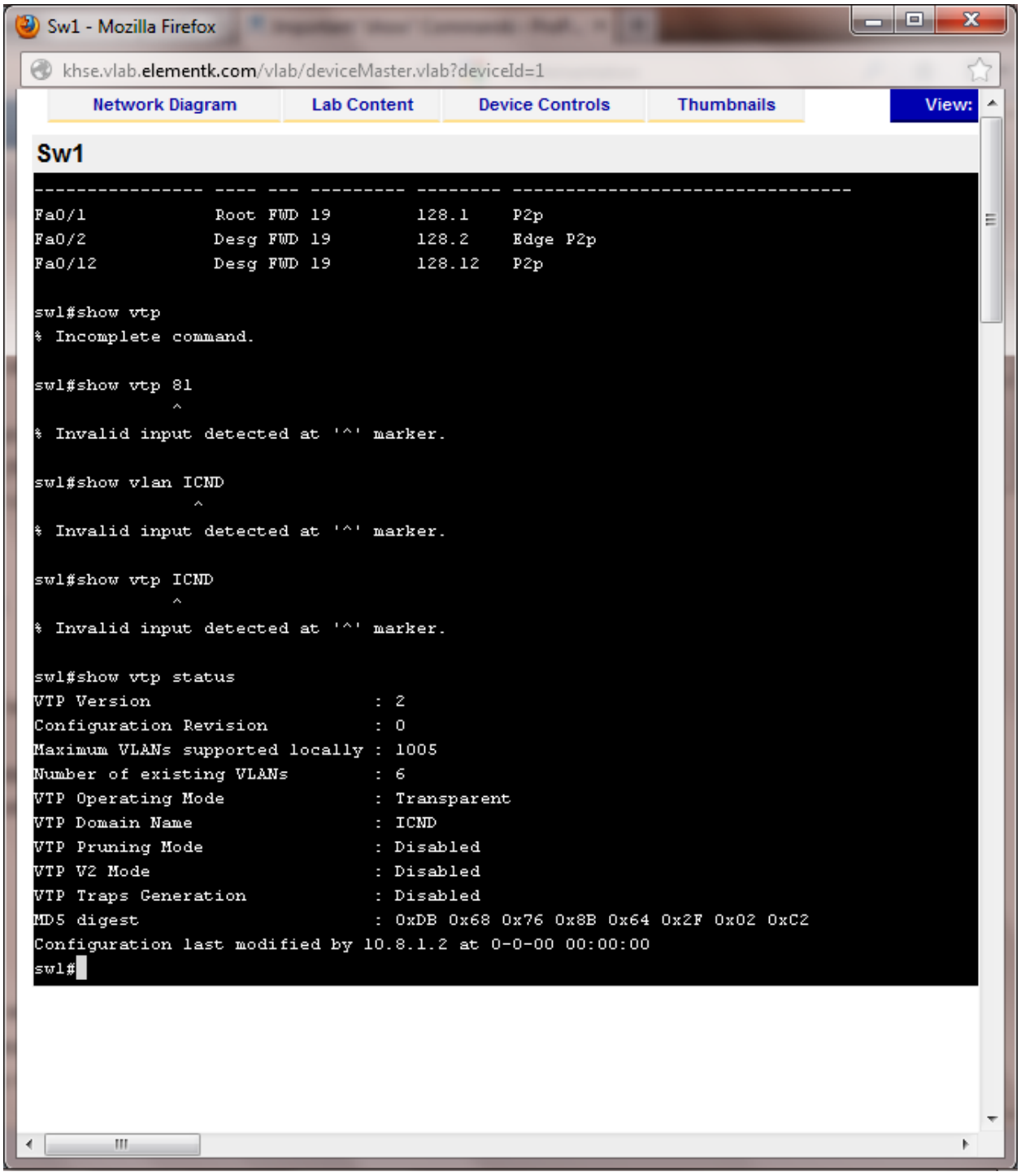


Task2: Show Spanning-tree on Sw1 & CoreSwB (3 points)

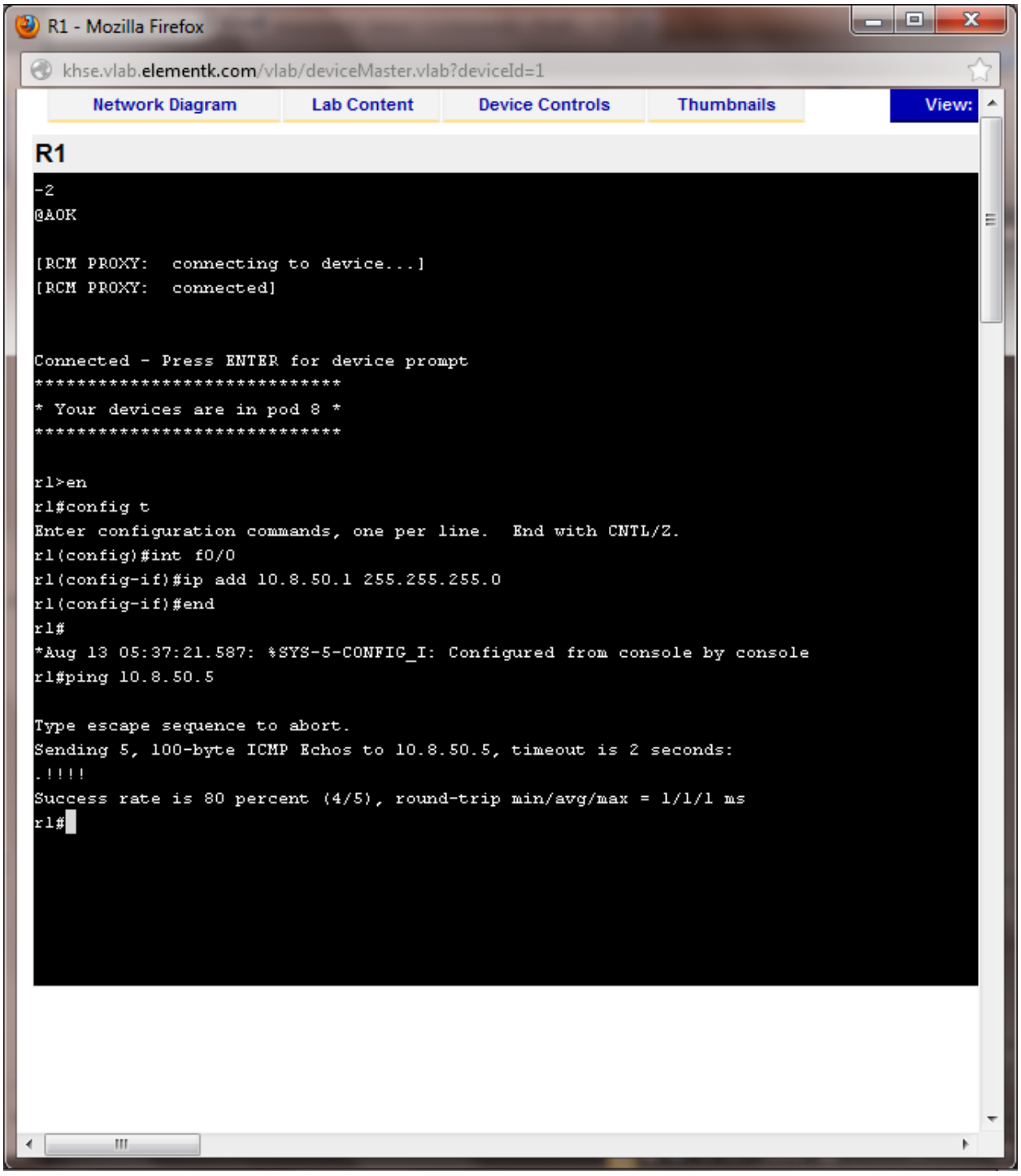

Sw1 - Mozilla Firefox
khse.vlab.elementk.com/vlab/deviceMaster.vlab?deviceId=1
Network Diagram
Lab Content
Device Controls
Thumbnails
View: single
Sw1
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300
Interface Role Sts Cost Prio.Nbr Type
Gi0/1 Altn BLK 4 128.1 P2p
Gi0/2 Desg FWD 19 128.2 P2p
Gi0/3 Desg FWD 19 128.3 P2p
Gi0/12 Root FWD 4 128.12 P2p
sw1#show spanning-tree
VLAN0001
Spanning tree enabled protocol rstp
Root ID Priority 1
Address 18ef.6386.3b00
Cost 4
Port 12 (GigabitEthernet0/12)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 0023.34ab.3480
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300
Interface Role Sts Cost Prio.Nbr Type
Gi0/1 Altn BLK 4 128.1 P2p
Gi0/2 Desg FWD 19 128.2 P2p
Gi0/3 Desg FWD 19 128.3 P2p
Gi0/12 Root FWD 4 128.12 P2p
sw1#



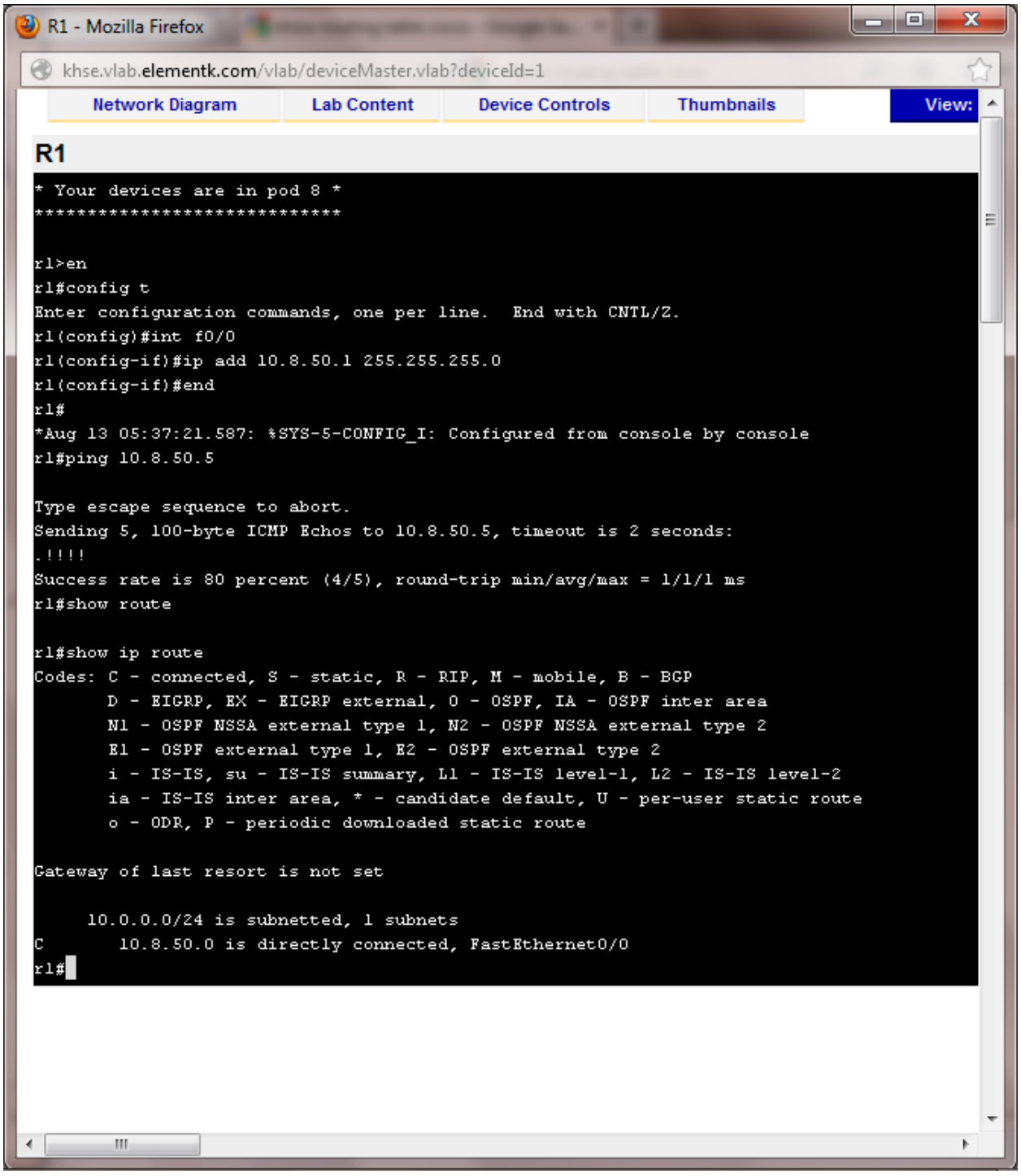
Task 3: Show VTP on Sw1 (3 points)

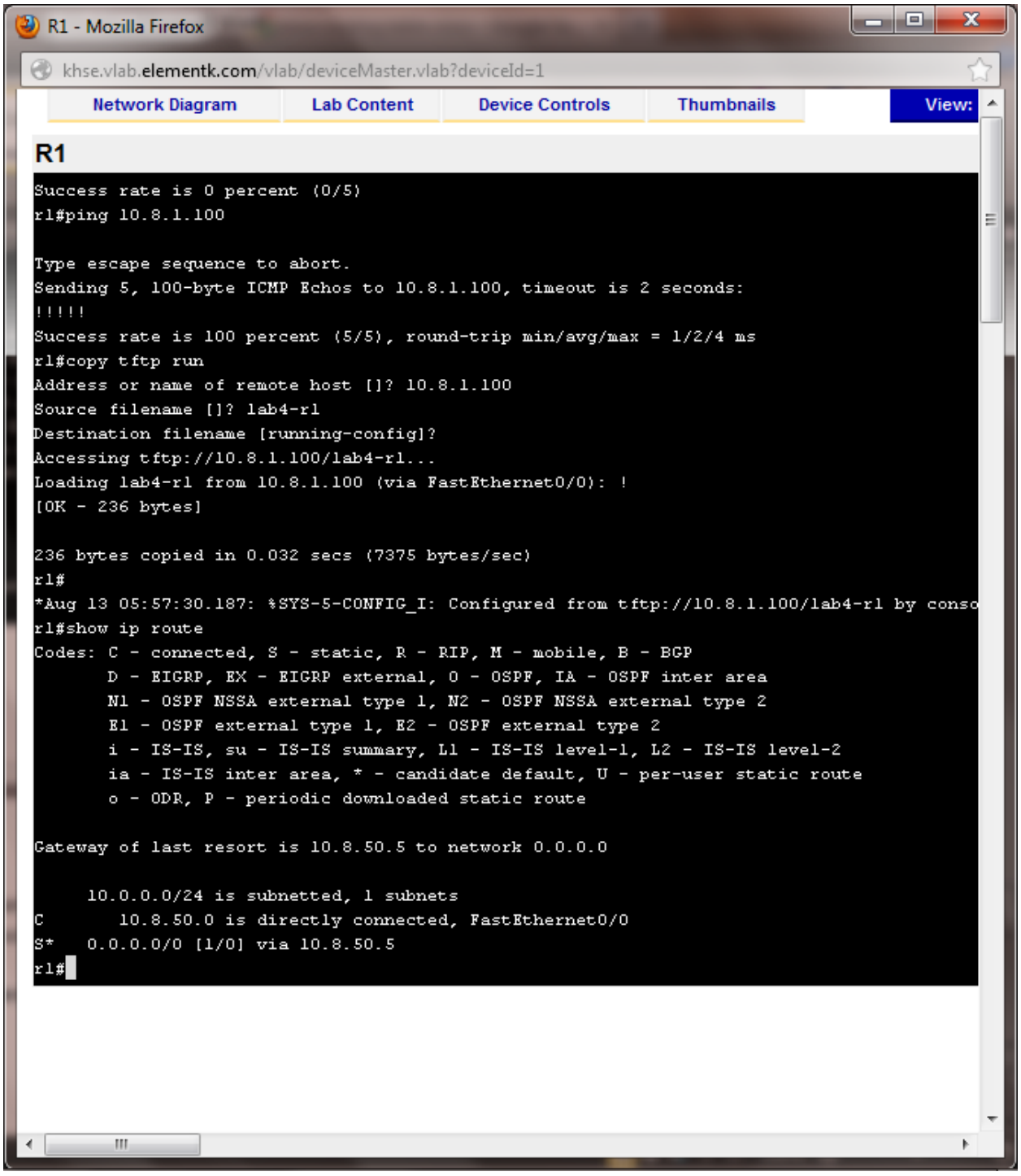


Task 4: From R1, Ping 10.1.50.5 (3 points)



Task 5: From R1, show routing table (3 points)


R1 - Mozilla Firefox
khse.vlab.elementk.com/vlab/deviceMaster.vlab?deviceId=1
Network Diagram
Lab Content
Device Controls
Thumbnails
View:
R1
* Your devices are in pod 8 *
****
r1>en
r1#config t
Enter configuration commands, one per line. End with CNTL/Z.
r1(config)#int f0/0
r1(config-if)#ip add 10.8.50.1 255.255.255.0
r1(config-if)#end
r1#
*Aug 13 05:37:21.587: %SYS-5-CONFIG_I: Configured from console by console
r1#ping 10.8.50.5
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.8.50.5, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 1/1/1 ms
r1#show route
r1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route
Gateway of last resort is not set
10.0.0.0/24 is subnetted, 1 subnets
C 10.8.50.0 is directly connected, FastEthernet0/0
r1#



Paste a screenshot of your completed ElementK lab transcript found at Home/Account/Information/Transcript. Your name must appear on your transcript (5 points)

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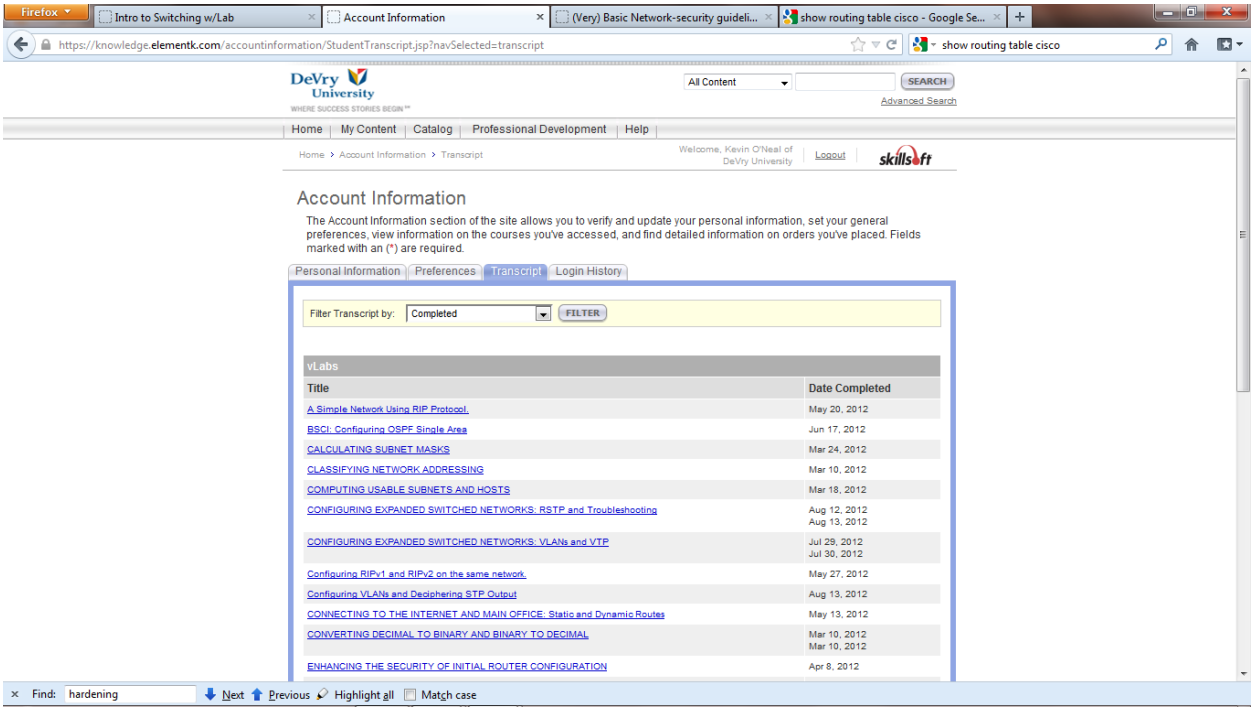

Please post all screenshots and summary on the same document.