Switchs	Vlans	i i	Switchs	Vlans										
FLOOR-6	Vians Vian 10 - Sales		Switchs Switch4	Vians Vian 10 - Sales					לפי שאלה 1 שיניתי את השמות בהתאם שאלה 2 יצירת וילאנים לפי הפקודות יצרתי לפי הטבלה הזו					
1 LOOK-0			SWILLIA	Vlan 20 -					nn maon ear ana-mapan ear a ak ri ma- 2 m ke					
	Vlan 20 - Marketing			Marketing					לעשות PVST הגדרתי למטה את הפראיוריטי לפי שאלה 3					
	Vlan 30 - Trades			Vlan 30 - Trades		arp atta	eck ל DAI בנוסף הגדרתי switchport nonegotiate ל	הודעות BDPU ובנוס						
	Vian 30 - Trades  Vian 40 - Business-Development  Vian 40 - Business-Development						vI הפורט של הלפטופ נשאר פתוח							
	Vlan999-Manegme			Vlan999-Manegme			ף גם במחשב הגדרתי	fומהירות 100 בנוס	לפי שאלה 6 שמתי את כל הפורטים הזמינים על Il duplex					
	Vlan1000-Security	,		Vlan1000-Security	,				ehterchanels לפי שאלה 7 הגדרתי					
	Vlan99-Native			Vlan99-Native					לפי שאלה 8 הגדרתי למטה HSRP					
BASEMENT	Vlan 10 - Sales	5	Switch1	Vlan 10 - Sales					לפי שאלה 9 החלטתי להשתמש ב OSPF					
	Vlan 20 -			Vlan 20 - Marketing										
	Marketing								לפי שאלה 10 חיברתי עם רשתות את הסרברים					
	Vlan 30 - Trades			Vlan 30 - Trades										
	Vlan 40 - Business	s-Development		Vlan 40 - Busines										
	Vlan999-Manegme			Vlan999-Manegme	ent									
	Vlan1000-Security	,		Vlan1000-Security										
	Vlan99-Native			Vlan99-Native										
DC2	Vlan 10 - Sales	5	Switch6	Vlan 10 - Sales										
	Vlan 20 - Marketing			Vlan 20 -										
				Marketing										
	Vlan 30 - Trades			Vlan 30 - Trades										
	Vlan 40 - Business	s-Development		Vlan 40 - Busines	s-Development									
	Vlan999-Manegme			Vlan999-Manegmo										
	Vlan1000-Security	/		Vlan1000-Security										
	Vlan99-Native		0.110	Vlan99-Native										
DC	Vlan 10 - Sales	5	Switch2	Vlan 10 - Sales										
	Vlan 20 - Marketing			Vlan 20 - Marketing										
	Vlan 30 - Trades			Vlan 30 - Trades										
	Vlan 40 - Business	s-Develonment		Vlan 40 - Busines	-Development									
	Vlan999-Manegme	ent		Vlan999-Manegme	ent									
	Vlan1000-Security			Vlan1000-Security										
	Vlan1000-Security			Vlan99-Native										
Switch5	Vlan99-Native Vlan 10 - Sales			vidil99-Native										
Switch5	vian 10 - Sales													
	Vlan 20 - Marketing													
	Vlan 30 - Trades													
	Vlan 40 - Business	s-Develonment												
	Vlan999-Manegme	ent												
	Vlan1000-Security													
	Vian1000-Security	,												
	Vian99-Native													
	switchporta ג הגדרת	למטה תראה את												
Switchs								DC2						
FLOOR-6	int f0/5 f0/7 f0/11-sv			g-tree portfast	B	BASEMENT	int f0/6 switchport trunk native vlan 99	DC2	int f0/6 switchport mode trunk,switchport trunk native					
	switchport port-secu						switchport mode trunk		int f0/6 switchport trunk allowed vlan 10,20,30,40,999					
	switchport port-secu		s sticky				int range f0/4,f0/5,f0/3 switchport mode access		int f0/1 switchport mode trunk, switchport trunk native					
	switchport port-secu	urity maximum 1					switchport access vlan 10							
									int f0/1 switchport trunk allowed vlan 10,20,30,40,999					
	switchport access v						switchport port-security maximum 1		int <b>f0/2</b> switchport trunk allowed vian 10,20,30,40,999					
	switchport access vi													
	switchport access vi int range f0/9, f0/12,f0/6,f0/8, f0/4 switchport													
	switchport access vi int range f0/9, f0/12,f0/6,f0/8, f0/4 screens													
	switchport access vi int range f0/9, f0/12,f0/6,f0/8, f0/4 screens													
	switchport access vint range f0/9, f0/12,f0/6,f0/8, f0/4 switchport mode acceses, spanning-tree bpduguard enable.													
	switchport access vint range f0/9, f0/12,f0/6,f0/8, f0/4 switchport mode accsess, spanning-tree bpduguard enable, switchport													
	switchport access vi int range f0/9, f0/12,f0/6,f0/8, f0/4 switchport mode accsess, spanning-tree bpduguard enable, switchport nonegotiate, spanning-tree						switchport port-security maximum 1		int f0/2 switchport trunk allowed vian 10,20,30,40,996	9,1000,99				
	switchport access vint range f0/9, f0/12, f0/6, f0/8, f0/12, f0/6, f0/8, f0/4 switchport mode access, spanning-tree bpduguard enable, switchport nonegotiate, spanning-tree portfast	vlan 20					switchport port-security maximum 1  switchport port-security mac-address sticky		int 10/2 ewitchport trunk allowed vian 10,20,30,40,996	ode trunk				
	switchport access vi int range 60/9, fol/12,f0/6,f0/8, fol/4 switchport mode accesss, spanning-tree bpduguard enable, switchport nonegotiate, spanning-tree portfast switchport port-secu	vlan 20	utdown				switchport port-security maximum 1  switchport port-security mac-address sticky switchport port-security violation shutdown		int 16/2 switchport trunk allowed vian 10,20,30,40,996  Int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport trunk native vian 99, switchport min int 16/2 switchport min int	9, 1000,99  side trunk de trunk				
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	switchport access vi int range fl/9, 1012;016;6103, 1014 switchport mode access, spanning-tree bybuguard enable, switchport port-sec. switchport port-sec. switchport port-sec. switchport port-sec. switchport port-sec. switchport access v int range fl/10, 1073;01/2	vlan 20 curity violation shu curity mac-addres curity maximum 1	utdown is sticky				switchport port-security maximum 1  switchport port-security mac-address sticky switchport port-security violation shutdown int fb/6 switchport trunk allowed vian 10.20 30.40 int fb/1 switchport trunk allowed vian 9-switchport trunk fb/1 switchport trunk ratifs vian 9-switchport	mode trunk	int 10/2 switchport trunk allowed vian 10,20,30,40,991  int 10/2 switchport trunk native vian 99, switchport mil int 10/2 switchport trunk native vian 99, switchport mil int 10/7 switchport trunk native vian 19, switchport mil int 10/7 switchport trunk native vian 19, switchport mil int 10/1 switchport trunk allowed vian 10,20,30,40,991	p. (1000,99)  bde trunk de trunk 1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99				
	switchport access virtrange 1929, and the switchport mode accesses, spanning-tree bydruguard enable, switchport mode accesses, spanning-tree bydruguard enable, switchport portast switchport port-sec. mode accesses.	vlan 20 curity violation shu curity mac-addres curity maximum 1	utdown is sticky				switchport port-security maximum 1  switchport port-security mac-address sticky switchport port-security violation shutdown int fb/6 switchport trunk allowed vian 10.20 30.40 int fb/1 switchport trunk allowed vian 9-switchport trunk fb/1 switchport trunk ratifs vian 9-switchport	mode trunk	int 10/2 switchport trunk allowed vian 10,20,30,40,991  int 10/2 switchport trunk native vian 99, switchport mil int 10/2 switchport trunk native vian 99, switchport mil int 10/7 switchport trunk native vian 19, switchport mil int 10/7 switchport trunk native vian 19, switchport mil int 10/1 switchport trunk allowed vian 10,20,30,40,991	p. (1000,99)  bde trunk de trunk 1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99				
	switchport access v int range 10% g 10/12/10/6,10% g 10/12/10/6,10% g 10/12/10/6,10% g 10/12/10/6,10% g 10/14 switchport mode accesss, spanning-tree bpduguard enable, nonegotiate, spanning-tree portfast switchport port-sec. switchport port-sec. switchport port-sec. switchport port-sec. switchport port-sec. switchport access v int range 10/10, 10/15,10/2 switchport access v switchport access v int range 10/10, 10/15,10/2 switchport access v sw	vlan 20 curity violation shu curity mac-addres curity maximum 1	utdown is sticky				switchport port-security maximum 1  switchport port-security mac-address sticky switchport port-security violation shutdown int fb/6 switchport trunk allowed vian 10.20 30.40 int fb/1 switchport trunk allowed vian 9-switchport trunk fb/1 switchport trunk ratifs vian 9-switchport	mode trunk	int 10/2 switchport trunk allowed vian 10,20,30,40,991  int 10/2 switchport trunk native vian 99, switchport mil int 10/2 switchport trunk native vian 99, switchport mil int 10/7 switchport trunk native vian 19, switchport mil int 10/7 switchport trunk native vian 19, switchport mil int 10/1 switchport trunk allowed vian 10,20,30,40,991	p. (1000,99)  bde trunk de trunk 1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99  1,1000,99				
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	switchport access vi int range fl/9, fl/912,016,50/8, fl/912,016,50/8, fl/912,016,50/8, fl/912,916,50/8, fl/	vlan 20 curity violation shu curity mac-addres curity maximum 1	utdown ss sticky				switchport port-security maximum 1  switchport port-security mac-address sticky switchport port-security viriation shutdown int f0% switchport port-security viriation shutdown int f0% switchport trunk allowed value 10.20.30.40 int f0/1 switchport trunk native vian 99 switchport int f0/1 switchport trunk allowed vian 10.20.30.40.	mode trunk ,999,1000,99	int 10/2 switchport trunk allowed vian 10,20,30,40,996  Int 10/2 switchport trunk native vian 99, switchport mint 10/2 switchport trunk native vian 99, switchport mint 10/7 switchport trunk native vian 99, switchport min 10/7 switchport access vian 10, switchport access vian 10, switchport nonegol int 10/3,10/15 switchport access vian 10, switchport nonegol int 10/3,10/15 switchport mode access, switchport none	ode trunk de trunk de trunk 1,000,99 de trunk 1,000,99 tiale, switchport mode access, spanning-free bpduguard enable, as gotiater, switchport access vian 20, spanning-free portfast, spanni	ng-tree bpduguard enable			
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	switchport access vi int range fl09, fl012,016,6108, fl014, fl016,1016, fl014, switchport mode accesses, fl014, switchport mode accesses, switchport port-sec. switchport port-sec. int fl013 switchport int fl01 switchport int fl01 switchport int fl01 switchport int fl01 switchport int fl015 sparning- tree bpuiguard recommendations of the switchport switchport trunk nat int fl01 switchport int fl015 sparning- tree bpuiguard switchport switchport int fl015 sparning- tree bpuiguard switchport switchport int fl015 sparning- tree bpuiguard	vian 20  uurity violation shituurity mac-addres uurity mac-addres uurity maximum 1 vian 30  vian 40  uurity maximum 3  uurity maximum 3  uurity maximum 3	ss sticky ss sticky utdown an 10,20,30,40,1	ode trunk	in in	nt f0/3 switchpo nt f0/4 switchpo nt f0/4 switchpo	switchport port-security maximum 1  switchport port-security mac-address sticky switchport port-security viriations shutdown int 104 switchport port-security viriations shutdown int 104 switchport trunk allowed value 10.20 3.04.0 int 1041 switchport trunk allowed vian 10.20 3.04.0 int 1041 switchport trunk allowed vian 10.20 3.04.0 int 1042 switchport trunk allowed vian 10.20 3.04.0 int 104.2 switchport trunk allowed vian 10.20 3.04.0 int 104.2 switchport trunk native vian 99.switchport mode access, switchport switchport switchport access vian 10, spanning-tree enable, spanning-tree enable, spanning-tree profrast in 0.9 switchport mode domain-lookup.	mode trunk 999,1000,99	int 10/2 switchport trunk allowed vian 10,20,30,40,996  Int 10/2 switchport trunk native vian 99, switchport mint 10/10 switchport trunk native vian 99, switchport min 10/10 switchport north vian 10/10 switchport north vian 10/10 switchport nores vian 10,5 switchp	ode trunk de trunk 1,000,99  access spanning-tree bpduguard enable system of the syste	ng-tree bpduguard enable			

	int f0/14-24,g0/1-2	2 shutdown ,swit	chport access vla	n 1000							int f0/4 switchpor										
					DO	i-1 40/4 (***		- 00it-1			int f0/4 switchpor										
					DC		chport access vlar			ιρυπ nonegotiate ,	spanning-tree bpo	uyuara enable,sp	panning-tree portf	BSL							
						int tur/ switchpo	ort trunk native vlar ort trunk allowed vl	= 40.00.00.40.00	oue trunk												
							ort trunk allowed vl ort trunk native vlar														
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						no ip domain-loi		munport decess 1	ion io ,omicipoi	t nonegouate, spar	ming aree opening	ara criabic,opariir	ing acc portion								
										Switch5	int f0/3 switchpor	t trunk native vlar	n 99 switchnort m	nde trunk							
			זה שאלה 3							Ownerio	int f0/3 switchpor	t trunk allowed vis	an 10 20 30 40 9	9 1000 99							
											int f0/4 switchpor										
Switch4	spanning-tree vlar	in 10,20,30,40,99	,999,1000	Switch1	spanning-tree vl	lan 10,20,30,40,9	9,999,1000				int f0/4 switchpor	t trunk allowed via	an 10,20,30,40,99	9,1000,99							
	spanning-tree mo				spanning-tree m																
	int f0/6 switchport																				
	int f0/6 switchport																				
	int f0/5 switchport	t mode trunk,swit	chport trunk nativ	e vlan 99																	
	int f0/5 switchport	t trunk allowed vl	an 10,20,30,40,99	99,1000,99																	
	ETHERCH הגדרתי-			(PAGP)																	
switchport trunk a	allowed vlan 10,20	,30,40,999,1000	וך הצאנלים 99,	זה מה שהגדרתי בת	1																
switchport trunk r	native vlan 99 ecurity של VLAN 10	000 b																			
se	VLAN 10 של VLAN	ועברתי אותם ל טטע	וים הלא משומשים ור	כיביתי את כל הפורט	•																
		doub. C	Ud 400																		
		aupiex tu	II ו speed 100 ייתי	על כל הסוויטצים עש	שאלה 6	,															
שאלה 9																					
	ip dhcp pool 1			ip dh pool 2			in dhen eveludes	d-address 192.168	10.1												
100(1)	network 192.168.	10 0 255 255 25	5.0	network 102 469	3.20.0 255.255.25	55.0	in dhen eveluded	3-address 192.168 3-address 192.168	120.1												
	default-router 192	2.168.10.254	3.0	default-router 19	92.168.20 254		ip dhop excluded	d-address 192.168	30.1												
								d-address 192.168													
	ip dh pool 3			ip dh pool 4				d-address 192.168		.10.254											
	network 192.168.3	30.0 255.255.25	5.0	default-router 19	92.168.40.254		ip dhcp excluder	d-address 192.168	.20.100 192.168	.20.254											
	default-router 192	2.168.30.254		network 192.168	3.40.0 255.255.25	55.0	ip dhcp excluded	d-address 192.168	.30.100 192.168.	.30.254											
								d-address 192.168													
			שאלה 8	HSRP										9 שאלה OSPF							
											R3	router ospf 1				router ospf 1					
												router-id 9.9.9.9				router-id 8.8.8.8					
R3(1) to switch	g2/0.10		g2/0.20		g2/0.30		g2/0.40					log-adjacency-ch				log-adjacency-ch	anges				
												network 10.10.1.				network 10.10.1.					
	standby 1 ip 192.1		standby 2 ip 192		standby 3 ip 192		standby 4 ip 192		גם עשיתי ל G2/0	١		network 10.10.1.	.0 0.0.0.3 area 0			network 192.168					
	standby 1 priority standby preempt		standby 1 priority		standby 1 priorit		standby 1 priority					network 192.168	1.10.0 0.0.0.255 a 1.20.0 0.0.0.255 a	rea 0		network 192.168 network 192.168	.20.0 0.0.0.255 ar	ea 0			
			standby preempt		standby preemp								1.20.0 0.0.0.255 a 1.30.0 0.0.0.255 a			network 192.168 network 192.168					
	encapsulation dot	t1Q 10	encapsulation do	STIQ 20	encapsulation de	0t1Q 3U	encapsulation do	DETQ 40					1.40.0 0.0.0.255 a			network 192.168	.40.0 0.0.0.255 at	ea u			
											Do.	router ospf 1	I.40.0 0.0.0.255 a	ea u	R3(3)	router ospf 1					
R3 לסוויטץ	a0/0.10		g0/0.20		g0/0.30		g0/0.40				R2	router-id 7.7.7.7			R3(3)	router-id 6.6.6.6					
101107103	guro. 10		g0/0.20		guro.su		90/0.40					log-adjacency-ch				log-adjacency-ch					
	standby 1 ip 192.1	168.10.253	standby 2 ip 192	.168.20.253	standby 3 ip 192	2.168.30.253	standby 4 ip 192	.168.40.253	גם עשיתי ל G0/0	1		network 10.10.1.	4 0.0.0.3 area 0			network 10.10.1.	8 0.0.0.3 area 0				
	standby 1 priority	110	standby 1 priority		standby 1 priorit		standby 1 priority		22.0 09 02			network 10.10.1	.8 0.0.0.3 area 0			network 10.10.1.	12 0.0.0.3 area 0				
	standby preempt		standby preempt		standby preemp		standby preemp									network 10.10.1.	16 0.0.0.3 area 0				
	encapsulation dot		encapsulation do		encapsulation d		encapsulation do									network 10.10.1.					

	no ip arp inspect	ion vlan 10,20,30,	40,99,999,1000										
	no ip dhcp snoop	oing											
	no ip dhop snoop	ing vlan 10,20,30	,40,99,999,1000										