

Requirement

After the expansion, there are two offices: A and B. They have the following structures:

· Office A (new):

o Floor 1: 12 computers + 2 file servers o Floor 2: 28 computers

· Office B (old):

o Floor 1: 20 computers + 1 server

Office A will be getting completely new computers with Gigabit NICs. Office B will continue to use its existing hardware, which contain only 100 Mbit NICs.

Office A router	Requirement	Cost	Port	Speed	Manageable	Total Weighted Score
	Description	<\$1500	>42	>1000Mbps	yes/no	
	Weight	5	5	2	0	
	Score - Aruba	6	4	4	0	58
	Score - Edimax	4	2	4	0	38
	Score - Tp-Link	4	0	4	0	28
	Model	No.Ports	Speed(Mbps)	cost(\$)	Managed?	
	Aruba JL683A	24 x 2=48	1000	759x2=1518	No	
	Edimax ES-5208P	8 x 6=48	1000	183x3=1098	No	
	TP-Link ER605	4 x 11=44	1000	113*11=1243	No	

Office B router	Requirement	Cost1	Port	Speed	Manageable	Total Weighted Score
	Description	<\$500	>20	>100Mbps	yes/no	
	Weight	3	5	2	0	
	Score - Tp-Link	4	4	4	0	40
	Score - Leike	6	4	4	0	46
	Score - HUAWEI	4	2	4	0	30
	Model	No.Ports	Speed(Mbps)	cost(\$)	Managed?	
	Tp-Link TL-WAR1200L	9 x 2+5x1=23	1000	216x2+159x1=591	No	
	Leike 9	9 x 3=27	1000	99x3=297	No	
	HUAWEI B311B-853	4 x 6=26	1000	89*6=534	No	

Office A switch	Requirement	Cost1	Port	Speed	Manageable	Total Weighted Score
	Description	<\$1000	>42	>1000Mbps	yes/no	
	Weight	5	3	5	0	
	Score - D-Link	6	4	6	0	72
	Score - Cisco	2	4	6	0	52
	Score - Trendnet	6	4	6	0	72
	Model	No.Ports	Speed(Mbps)	cost(\$)	Managed?	
	D-Link DGS-1210-20	20 x 2=40	1000	335x2=670	No	
	Cisco SG350-20	20 x 2=40	1000	560x2=1120	No	
	TRENDNET 20	20 x 2=40	1000	300*2=600	No	

Office B switch	Requirement	Cost1	Port	Speed	Manageable	Total Weighted Score
	Description	<\$200	>30	>100Mbps	yes/no	
	Weight	5	3	5	0	
	Score - NETGEAR	6	4	6	0	72
	Score - Tp-Link	4	4	6	0	62
	Score - Linksys	2	2	6	0	46
	Model	No.Ports	Speed(Mbps)	cost(\$)	Managed?	
	Linksys LGS105	5 x 5=25	100	39x5=195	No	
	Tp-Link SG108E	8 x 3=24	100	55x3=165	No	
	Netgear GS380	8 x 3=24	100	48x3=144	No	

Total cost: 1518+297+670+195=\$2680

