

Network Planning

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From: Steve (*scsashland_at_hotmail.com*)

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I'm hoping for some advice on setting up our SBS 2003 Premium network. We operate a non profit alcohol and drug free housing program. On our property is a large transitional house 16 beds for clients and two apartment buildings for 8 families. We also have a building that houses our offices, a technology center, and a public meeting room.

The Goals: In the office building there are 3 offices and a reception area with workstations for staff. A couple of staff members also use wireless laptops at work and home. We have a locking closet for our server. In the technology center room there are 4 workstations with Office 2003 and Internet access intended for use by clients and tenants. I planned on and have purchased device type CAL's for those 4 workstations. There could be 50 or more users but never more than 4 at a time in the tech center. I'd like to monitor their usage and be able to block some sites. I'm hoping to accomplish this with ISA2000. The public meeting room is for our private board meetings and other public meetings. I'd like to provide wireless internet access in this room to anyone without them having to be a user on our network. I'd also like for staff and board members to be able to connect to the network in this room during our staff and board meetings.

Summary:

Offices and Reception Area: Staff are logged into SBS network on their workstations and wireless laptops with internet and intranet access.

Visitors would be able to have internet access on wireless clients and possibly access to a printer.

Technology Center: Clients and tenants logged into the SBS network with internet access, their own SharePoint intranet site and access to a network printer located in the same room. They should not have access to important business information.

Meeting room: This room provides public internet access with no access to business information or intranet sites. It also would allow staff and board members to log onto the SBS network and resources.

Staff Member Homes: Staff needs to be able to log onto the network from their home computers and laptops. Board members need to be able to access a

password protected SharePoint site from their homes and maybe email.

Public Web Site: It is a very, very low traffic site. I'd like to host it ourselves on the SBS server and have many people contribute to it from their homes, our offices, and the technology center.

Currently I have a NetGear MR814 v1.0 wireless router and broadband cable internet access. The router seems to provide the wireless coverage we desire. The entire building is wired with CAT 5. I have accomplished some of this already with my current Windows 2000 network. I need to know how to best setup the router(s) and SBS 2003 to provide both security and usability for this network. I have an additional NetGear MR814 v2.0 wireless router, a Linksys BEFSR41 V.2 cable router, a few 5 to 9 port switches I could use for the network. Any advice would be greatly appreciated. I need some directions from the cable modem back.

My initial thoughts are to use the Linksys router or a switch between the cable modem and the servers external network card. Then I could probably plug a NetGear wireless router into the Linksys or the switch to provide the public wireless internet access. Then I guess I would have to connect the servers internal network card to a switch and plug a wireless router into it for Staff. Does this make sense? I don't want to loose any SBS/ISA functionality by using routers or multiple routers? Simple would be good also. Any ideas?

TIA
Steve