

# Networking Question – VLAN's on SBS 2003 Premium SP1

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I've got an idea to (finally) extend out LAN so that the staff can get in wirelessly and guests can only get to the internet.

I've read and re-read Owen Williams doc, the MS doc and the MS Press book, "Deploying Secure 802.11 Wireless Networks with Microsoft Windows". I'll be using all 3 to architect this.

But, to begin with, I want to setup and test a very basic system. And I'd like some feedback on whether I'm correct in my thought process, or that I've strayed and should consider another idea.

Here's what I've got: 2-NIC box with ISA-2004 SP3, one of which (the internal) is VLAN-capable; a L2/L3 managed switch, a wireless router, and 10 wireless AP's.

Here's what I intend to do for the initial test:

- (1) setup 3 VLAN's on the switch – one for admin purposes (VLAN1), one for wireless staff use (VLAN2), and one for wireless guest use (VLAN3).
- (2) configure the VLAN-capable NIC for VLAN 2 and VLAN3 (I'll see them show up as virtual NIC's in Network Connections once I press OK).
- (3) create network sets in ISA 2004 for the IP ranges I'll use for VLAN2 and VLAN3.
- (4) add VLAN2 set to the Firewall Rules the rest of the wired domain uses
- (5) add VLAN3 to Internet Access rule in Firewall Rules
- (6) create scopes in DHCP for each IP range I'll use for VLAN2 and VLAN3
- (7) stop and start Firewall Service
- (8) re-run CEICW
- (9) set 2 AP's up, one for each VLAN, to test with – using WPA2 security (for now)

Testing:

- (1) ensure full access from within the wired LAN (to test that it is unaffected)
- (2) connect a WinXP Pro SP2 laptop to a VLAN2 AP (wirelessly) and see if I get an IP, that I have access to the domain and all shares I normally am, and have internet access
- (3) connect a WinXP Pro SP2 laptop to a VLAN3 AP (wirelessly) and see if I

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get an IP, and that ALL I get is access to the internet.

Will this accomplish my goal to see if the very basics work? And if not, what should I change?

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