
Subject: looking for opinions for host server hardware setup

Posted by [zogthegreat](#) on Tue, 15 Sep 2009 01:33:23 GMT

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Hi everyone,

I am looking for opinions for host server hardware setup. Here are my system hardware specs:

motherboard: Tyan S2735 w/ 2x's P4 2.6

memory: 6 gig DDR 2100 ECC

HDD: 2 x 40 gig Seagate SATA hard drives

HDD: 4 x 500 gig Seagate IDE hard drives on a 3Ware 7500 RAID controller in a RAID 5 configuration

NIC's: (on-board)

eth0: Intel 82551QM 10/100

eth1: Intel 82546EB Gigabit

eth2: Intel 82546EB Gigabit

OS: CentOS 5.3 (PAE kernel to address greater than 3 gig of ram)

Planned use:

Host OS will be CentOS 5.3 installed on the 2 x 40 gig SATA's a RAID 1, (mirror), configuration. I have an on-board hardware raid controller on the motherboard, (yes, it is a real hardware RAID, not "fakeraid"). Eth0 will be assigned to it with an ip address of 192.168.x.x.

I want to have several guest machines on this. I intend to create a virtual Samba server and mount my 4 x's 500 gig array from my existing Samba server under that. I would like to assign eth1 to this machine with an ip address of 192.168.x.x.

I then want to create guest machines for web, email and ftp servers with a virtual reverse proxy server to manage the whole thing, (web side, not Samba). I would then like to assign eth2 to this "side" with an address range of 10.0.x.x.

Everything will be connected to a Smoothwall Express firewall configured in the following manner:

eth0, (red) ADSL modem

eth1, (green), local area network with ip range of 192.168.x.x

eth2, (orange), DMZ with ip range of 10.0.x.x

So, here are my questions:

1: Should I use the default installer formatting or would I be better off manually creating the partitions?

I was considering the following:

/boot 100 meg

/swap 8 gig (6 gig hardware memory, plus two gig extra)

/ 5 gig

/etc 2 gig

/opt 1 gig
/var 1 gig
/usr 5 gig
/usr/local 2 gig
/tmp 2 gig
/home 19 gig (approx)

2: Is the manner that I want to setup my NIC:s workable, (i.e. the different ip ranges). Can anyone point me in the direction of websites where I can get a better understanding of how to configure the guest machines NIC's, (yes, I am reading the wiki).

Any suggestions or pointers would be appreciated.

Thanks

zog
