

## Re: advice on setting up lab

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*Source:*

<http://www.tech-archive.net/Archive/Certification/microsoft.public.cert.exam.mcse/2005-06/msg00051.html>

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- *From:* "Steven L Umbach" <n9rou@xxxxxxxxxxxxxxxxxxxxxx>
  - *Date:* Wed, 1 Jun 2005 16:43:51 -0500
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A lab with at least three computers is great in my opinion. Others have also used Virtual PC though I personally prefer separate computers. Virtual PC however is great and would be a great lab on a laptop that you could take anywhere. My lab computers, except domain controller, are double/triple boot with removable drive trays so that I can any scenario possible in very little time. I have two monitors and use a KVM switch for a pair of computers.

Yes everybody can have internet access and still use the domain. make sure your domain controller is the DHCP server for everyone and have it forward internet name resolution requests to your ISP dns server. You don't have to have two nics in the rras server if you are behind a NAT/PAT device but you can if you want to have one nic connected directly to the internet at have one of the public IP addresses. Do NOT place two nics in your domain controller or use it as a rras server. This will cause issues with dns name resolution for the domain and for browsing via My Network Places.

It is fine having wireless on the network and you may even want to configure 802.1X authentication if the WAP and wireless adapters are capable however I would Strongly suggest that your domain controller and at least one other domain computer use CAT 5 connection for the network. Wireless is kind of unreliable for domain logon and you may see problems ensue as such that will just throw you off course.

Read the link below on Active Directory FAQ to get you started and become very familiar with the tools for netdiag, dcdiag, ipconfig, ping, tracert, nslookup, gpupdate, secdit, gpresult, gptool, replmon, etc and use the free Windows 2003 Server Deployment Kit [second link below] for chapters pertinent for your studies. --- Steve

<http://support.microsoft.com/default.aspx?scid=kb%3Ben-us%3B291382>  
<http://www.microsoft.com/windowsserver2003/techinfo/reskit/deploykit.msp>

"edsa" <edsa@xxxxxxx> wrote in message  
[news:d7kvst\\$4n6\\$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:d7kvst$4n6$1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)  
> Hello group  
>  
> As I get deeper into my MCSE studies (currently concentrating on 70-291),

Re: advice on setting up lab

- > I am planning to set up a more advanced lab, which will enable me to
- > practice all the technologies required to pass this exam and future exams
- > on the MCSE track.
- >
- > Im hoping that some of you experienced guys can give me advice on setting
- > up the lab?
- >
- > I passed my previous MCP exams by linking an xp client to a server via a
- > crossover cable, but I would like to configure RRAS and web server
- > technologies.
- >
- > The lab I am trying to setup is going to be all wireless, using a Netgear
- > DG834G wireless router and Belkin 802.11g PCI wireless cards installed in
- > servers and clients.
- >
- > A static WAN IP address comes as standard from my ISP and I usually have
- > this address configured on the router along with NAT to provide security
- > for my home PCs.
- >
- > I have purchased 2 public IP addresses from my ISP.
- >
- > I have 2 DNS server IP addresses, which are supplied by my ISP.
- >
- > There are 2 PCs available to use as a DC and member server.
- >
- > When the lab is setup I would like it to be running in an Active Directory
- > Domain Environment using DHCP, NAT, SUS services, RRAS configured to run
- > VPN services and also be able to (maybe) host web applications on the
- > internet. I was going to install a second NIC into one of the servers for
- > RRAS, but not sure!
- >
- > I would like to setup the server so that my client PCs will obtain their
- > IP addresses dynamically and still be able to gain internet access. Would
- > this be possible by using one of the public IP addresses?
- >
- > As I have said I am setting this lab up to use for my MCSE practice, but I
- > would still like the network to be accessible to members of the family.
- >
- > Hopefully I have provided enough information here, but if not give me a
- > shout.
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- > cheers
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Re: advice on setting up lab

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- **Follow-Ups:**

- ◆ **Re: advice on setting up lab**

- ◇ *From:* Mark [MS]

- **References:**

- ◆ **advice on setting up lab**

- ◇ *From:* edsa

- Prev by Date: **Re: Security+ and MCSE**
- Next by Date: **Re: 70-290. Cannot pass and need advice!**
- Previous by thread: **Re: advice on setting up lab**
- Next by thread: **Re: advice on setting up lab**
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  - ◆ **Date**
  - ◆ **Thread**