

Re: Hardware Recommendations

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.general/2006-01/msg00256.html>

- *From:* "Richard Perry" <RichardPerry@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 5 Jan 2006 10:48:08 -0800
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Since I seem to be asking the wrong questions to get the answers that I am looking for, I would like to provide the list of roles again with the rank of the 2 components in the order of importance.

1. AD Domain Controller (RAM, CPU)
2. Services-DNS, DHCP (RAM, CPU)
3. File & Print (RAM, CPU)
4. Exchange (RAM/CPU equally important)
5. SQL (CPU, RAM)
6. SMS (?)
7. Applications (RAM/CPU equally important)
8. IIS (RAM, CPU)
9. Apache (RAM, CPU)
10. Oracle (CPU, RAM)

Please provided feedback regarding these two components only, and whether I am correct in my assesment in the order of importance of these two components.

"Jason Meyer" wrote:

> Well you are right in SQL being CPU/RAM intensive, but also is very IO
> intensive, as is Exchange(both depending on how much and type of usage
> which you didn't explain). You may want to read up on deployment of
> those two to see what your needs are and what you can afford to use for
> your disk subsystems. IIS, load up on RAM and get some good CPUS, for
> disk, the faster the reading the better. Your Domain Controllers should
> have good cpus, and a good amount of RAM, disks...just make sure you
> mirror them.
>
> Jason
>
> Richard Perry wrote:
>> As I said in my original email, I already have about 27 servers, so new
>> server purchases are not in the equation.
>>
>> Second, I am not asking for specific input regarding my scenario or
>> hardware. I am asking in general what the most important components are for
>> say an IIS server. My understanding is that in IIS, RAM is the most important

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>> component. SQL is equally CPU and RAM intense. DNS and DHCP are RAM I believe.
>>
>> Can someone please confirm this? I need to know the hardware impact for each
>> server role.
>>
>> "Justin Rich" wrote:
>>
>>
>>>Get a Blade Server :)
>>>you can adjust CPU's, memory, and diskspace for each virtual server.. i have
>>>a buddy that works on a very large system with those and LOVES them... if
>>>not... a couple of entry level servers will do fine for most of that.. you
>>>didnt really tell us the usage... so its hard to say what to buy.. i can run
>>>SQL on my desktop machine and server up a handful or users no problem..
>>>
>>>really we need to know where you are with usage and where you plan to be in
>>>the next 3 years..
>>>
>>>"Richard Perry" <RichardPerry@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
>>>news:28F814EC-EDF6-41C5-A756-33F1C29333B9@xxxxxxxxxxxxxxxxxxxx
>>>
>>>>I am preparing a plan to perform a Novell Netware to Windows 2003 Active
>>>>Directory migration. We currently have about 27 servers of various
>>>>hardware
>>>>specifications.
>>>>
>>>>As I see it, the server roles in the future configuration will be as
>>>>follows:
>>>>1. AD Domain Controllers and Services (DNS, DHCP)
>>>>2. File & Print
>>>>3. Exchange
>>>>4. SQL (2005?)
>>>>5. SMS
>>>>6. Applications
>>>>7. IIS
>>>>8. Apache (Blackboard Learning System)
>>>>9. Oracle database and application
>>>>
>>>>I am looking for a general recommendation for each role about the most
>>>>important aspect of the server configuration. There is a SAN involved with
>>>>about 1TB of disk space, and will be dedicated to mostly F&P, SQL, and
>>>>IIS.
>>>>Most servers will have at least 2 hard drives.
>>>>
>>>>My main concern here is based on each role, what component is most
>>>>critical.
>>>>SQL is very CPU and RAM intense, IIS is more RAM intense, etc.
>>>>
>>>>Can anyone offer insight as to what component(s) are most critical to a
>>>>server involved in each role?
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- **Follow-Ups:**
 - ◆ **Re: Hardware Recommendations**
◇ From: Asher_N

 - **References:**
 - ◆ **Re: Hardware Recommendations**
◇ From: Justin Rich
 - ◆ **Re: Hardware Recommendations**
◇ From: Richard Perry
 - ◆ **Re: Hardware Recommendations**
◇ From: Jason Meyer

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