

Re: Branch Office Deployment

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- *From:* Ryan Hanisco <RyanHanisco@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 9 Oct 2007 19:22:00 -0700
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Hi Darryl,

There is a lot going on in your question and I'll get to those pieces as best as I can. The question you are really asking goes beyond AD and SQL making it an application architecture question.

If you are using AD or ADAM for your authentication and authorization source, you can certainly put a DC at each site and let the application running locally at each site authenticate locally. You would authenticate against the domain and allow the DNS to return the local provider. This would also provide some redundancy against a failed/ busy/ unavailable DC as it would hop across your T1s. As the application would be authenticating locally the failure of the T1 becomes moot.

With SQL replication you would be able to decentralize SQL to an extent and hit the databases locally -- especially if you are primarily relying on read access. If this is a highly transactional environment where you would need immediate access to data and transactions would need to be committed across the enterprise to be complete this may not be the solution for you. I would certainly talk with the application architects to look at the effects of distributed transactions and locking before going that route. Some apps do well in this scenario, however.

UI and access to other resources would have to be balanced and tested to ensure that they can work in a disassociated fashion. If they have to cross the wire for everything, the performance will suffer. If they never cross the wire, you could run into transaction conflicts. This should be carefully architected and tested.

Finally, for something like this, you may want to consider one of the standards-based architectures that will help you past a lot of these issues. I would suggest CSLA, but then I am a bit biased too. It is free, however and widely used.

Hope this helps.

—

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Re: Branch Office Deployment

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Remember: Marking helpful answers helps everyone find the info they need quickly.

"Darryl" wrote:

Thanks for the response. Interaction would be the logging on of network users and accessing the client/server app in addition to the files stored on the network. I would think local processing at each site would be better as a whole. As far as bandwidth...I don't know "exactly" but it is an application that has a small client that installs on the local machine. So I wouldn't think it is too nasty. We want the app to be available in the event the link goes away to the main office. Each site would operate independently and transfer the data when appropriate. That is one of the questions – What would be the best way to replicate that data back to corporate?

"Al Mulnick" wrote:

Some questions:

What is the interaction of the app and AD? That's not clear from your post.

What are the bandwidth requirements of the app?

If your wan link goes away, what is the value of the app? does it continue to function without a WAN link to the central and just queue everything up?

Or ?

Al

"Darryl" <Darryl@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:1C616B42-2A0D-4AFA-B2FE-2F6CA4546513@xxxxxxxxxxxxxxxxxxxx>

I asked a similar question in the Windows Server 2003 group but realized I probably should have posted here instead so here goes and I apologize for double posting.

I have a new custom app we are rolling out very soon and we currently have a total of 9 sites – one of which is corporate where the app is being developed. The app is written in .Net, VB and backed by SQL 2005. We will of course also use the reporting services included in SQL

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2k5. I think creating sites and having a server local at all remote offices not only makes the app more responsive but also provides a bit of a disaster plan in the event the T1 goes down. Extend AD to all the sites, create a DC at each site, all share one domain and Replicate.

My question is this: Is this the best practice for offering the application to all the branch offices? What about replication? SQL won't be a problem as far as replication goes? Does replication care whether it's SQL or plain files or ????

I'm a bit of a newbie when it comes to this so please forgive me.

Thanks in advance for any help. I really need it.

DL