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- Virtual servers seek to encapsulate the server software away from the hardware
- This includes the OS, the applications, and the storage for that server.
- Servers end up as mere files stored on a physical box, or in enterprise storage.
- A virtual server can be serviced by one or more hosts
- One host may house more than one virtual server





- Virtual servers can still be referred to by their function i.e. email server, database server, etc.
- If the environment is built correctly, virtual servers will not be affected by the loss of a host.
- Hosts may be removed and introduced almost at will to accommodate maintenance.





- Virtual servers can be scaled out easily.
- If the administrators find that the resources supporting a virtual server are being taxed too much, they can adjust the amount of resources allocated to that virtual server
- Server templates can be created in a virtual environment to be used to create multiple, identical virtual servers.
- Virtual servers themselves can be migrated from host to host





- Pros
 - Resource pooling
 - Highly available
 - Rapidly deploy new servers
 - Easy to deploy
 - Reconfigurable while services are running
 - Optimizes physical resources by doing more with less

- Cons
 - Slightly harder to conceptualize
 - Slightly more costly (must buy hardware, OS, Apps, and now the abstraction layer)





References

- Cloud Computing, Sandeep Bhowmik
- Inforit:

https://www.informit.com/articles/article.aspx?p=209340 7&seqNum=2



