

To do list:

- Gather notes from lecture
- Understand the requirements for our network diagram
- Get an idea of best practices, and how everything will work together
- Get a draft going
- Send it to the vong

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- **Gather notes on the network diagram from lecture:**

Network diagram:

- High level design for the physical aspect of your system.
- Are we going to have a web server (if yes how many?)
- How does a web server communicate with a data store?

Example:

Figure shows the flow of traffic

A lot of this is the hardware.

Ports

Type of connection: TCP or UDP

Type of protocol: HTTP or HTTPS

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How well your team done the research on the technologies

- **Understand the requirements for our network diagram**

steps, paraphrasing from:

<https://www.lucidchart.com/pages/network-diagram/how-to-draw-a-network-diagram>

- 1) Draw on paper
- 2) Look for a network diagram template.  
<https://www.lucidchart.com/blog/network-diagram-templates>

- 3) Then begin customizing the document. what are peripherals?  
The back end components? Lines that symbolize connections.
- 4) Might just use visio to play around with

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## **Understanding the connections to the database SQL server 2019.**

<https://docs.microsoft.com/en-us/sql/ssms/quickstarts/connect-query-sql-server?view=sql-server-ver15>

This is a good read!

<https://docs.microsoft.com/en-us/sql/sql-server/editions-and-components-of-sql-server-version-15?view=sql-server-ver15>

<https://www.sqlshack.com/overview-of-microsoft-sql-server-management-studio-ssms/>

<https://docs.microsoft.com/en-us/sql/relational-databases/sql-server-configuration-manager?view=sql-server-ver15>

<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-client-protocols?view=sql-server-ver15>

<https://www.sqlshack.com/overview-of-microsoft-sql-server-management-studio-ssms/>

Connectivity architecture

<https://docs.microsoft.com/en-us/azure/azure-sql/database/connectivity-architecture>

Configuration network for SQL server

<https://www.sqlshack.com/sql-server-network-configuration/>

<https://docs.sdl.com/801917/570899/sdl-knowledge-center-13/micro-soft-sql-server-ports>

**Quickstart: Connect to and query a SQL Server instance by using SQL Server Management Studio (SSMS):**

<https://docs.microsoft.com/en-us/sql/ssms/quickstarts/connect-query-sql-server?view=sql-server-ver15>

<https://blog.citrix24.com/configure-sql-express-to-accept-remote-connections/>

<https://www.sqlshack.com/overview-of-sql-server-ports/>

**Installing SQL Server 2019:**

<https://sqlsunday.com/installing-sql-server-2019/>

All these links are for my reference since I want an idea of the configuration detail the SSMS offers (ports, links, security), I also need to see The BRD for our security requirements.

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**BETTER REFERENCES JUST FOUND:**

**REGARDING PORTS:**

<https://docs.microsoft.com/en-us/sql/sql-server/install/configure-the-windows-firewall-to-allow-sql-server-access?view=sql-server-ver15>

**REGARDING PROTOCOLS:**

<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-client-protocols?view=sql-server-ver15>

<https://docs.microsoft.com/en-us/sql/relational-databases/security/surface-area-configuration?view=sql-server-ver15>

SSMS SYSTEM REQUIRMENTS: (THIS IS GOOD FOR THE PHYSICAL ASPECT OF THE NETWORK DIAGRAM):

<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15>

NEED TO KNOW FOR AZURE:

<https://docs.microsoft.com/en-us/sql/azure-data-studio/what-is?view=sql-server-ver15>

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Connectivity to the web server:

References used:

<https://www.lucidchart.com/pages/network-diagram/how-to-draw-a-network-diagram>