Assignment

Brief

Different companies have different applications and have different architectural needs. As a group, choose among the choices and discuss what kind of servers / server configuration / virtualization will be needed.

- 1. A deposit / withdrawal system for a rural bank located in the province
- 2. A record keeping system for a chain of hospitals
- 3. An inventory management system for a chain of supermarkets
- 4. A learning management system for a university
- 5. A ticketing system for an international IT helpdesk

Submission

 Submit the URL of the GitHub Repository that contains your work to NTU black board.

3. An inventory management system for a chain of supermarket

item	Operating Features of Supermarket business
1	When supermarket is established & start receiving a number of customers, we need to keep our transaction data, inventory data secured somewhere. There are two ways we can do it either get a cloud server or go with a large database and high storage server at our premises. We choose hybrid solution here with inventory data put into cloud and other transactions data kept on-premises (please refer diagram for details) as cloud servers have the risk of getting hacked resulting in sensitive data leaks that can harm our supermarket system.
2	Every single client which is connected to the server can be operated and controlled through the server. And all the other client storage devices used in supermarkets can also share the resources and services of the main server. It is

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	known as a server-client system. A server, therefore, is
	essential for connectivity & storage purposes in a
	supermarket
	Major functions of a computer server in a supermarket
	system
1	Inventory management: Supermarkets store a large variety
	of goods and products in large quantities. It is important
	for the supermarkets to keep a record of all the items which
	they have by way of database server
2	Keep transactions records, Connectivity and Monitoring:
	The file server system in the supermarkets help to store the
	data of all the transactions taking place in the supermarket;
	sharing of data between interconnected devices and
	monitoring large crowd of people visiting supermarket for
	security reason.
3	As seen from the above, supermarkets conduct a very large
	amount of financial as well as other operations, a large
	database with file server system is essential for quick data
	transfer and retrieval from one place to another
	Determining if Server Virtualization is necessary for our
	business
1	If we need to use more operating systems and
	applications without necessarily breaking the budget for
	electricity, space, and hardware, then virtualization may
	be the best option for us.
	if we wish to reduce the work hours for our IT staff so that
2	we do not have to spend a lot of time on patching,
	installation, administration, and supporting application
	servers,
3	If we wish or need to simplify backup and reduce the
	downtimes of applications, by adding storage space,
	then virtualization is the best option for us
4	if we feel that we need to master cloud challenges,
	Virtualization may also be the best option for us. With
	experience in handling cloud challenges, we will be
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	better placed when our business will be migrating to
	virtualization.
	Four important steps that can be considered part of the
	virtualization process:
1	Evaluation of the network's and system's current
	capacity and performance and the requirements it may
	need in the future
2	Calculation of the expected payoff if the system or
	network is virtualized
3	Creation of a strong infrastructure
4	Map our timeline for virtualization

1. An inventory management system for a chain of supermarkets

