KWANTLEN POLYTECHNIC UNIVERSITY

INFO 2416

PROJECT HANDOUT

Term Project

Name – Jaskaran Singh

"This project, all names, characters, and incidents portrayed herein are fictitious. No identification with actual persons or fictitious characters should be inferred. No animals were harmed in the making of this project."

OVERVIEW

This topic will involve analysis of a business case and the design of a network to support it. The precise details of the business case are below. For the project you will be required to:

   a. Create an organization chart for the business.
   b. Provide cost data for the system's hardware, software and licenses, including references for your prices.
   c. Design and document the organizational units, security groups, and shared folder configuration that you will need.
   d. Configure Windows Server 2016 for the business, including DNS, folder/file sharing and printer sharing. e. Implement the OU and security group plan.
   f. Add a folder redirection GPO.
   g. Create an IT Department web page for the business, and deploy it using IIS server.
   h. Submit a report including screenshots verifying every aspect of the implementation. You should also describe what work would be needed from this point to actually implement your system in real life.

BUSINESS CASE

Sheev Palpatine and Mace Windu have decided to step back from their operations with the Jedi Council and have chosen to open a new venture in Metro Vancouver, called "The Saber Shop". Saber Shop sells lightsaber supplies and accessories, services lightsabers, and runs training classes for customers. They have a single location in Vancouver, but they have plans to expand eventually to Richmond, Surrey, and Abbotsford.

Saber Shop has three main departments as described above: sales, service, and training. Each department has a manager as well as staff, and there is a general manager over the Vancouver location as well. There are six sales representatives, four trainers, four service technicians, and some support staff.

After hearing of the excellent reputation of Kwantlen's INFO students, Sheev and Mace have decided to hire you to build the custom information system for their business.

In your first meeting, Mace provided an overview of the business' processes and staff members. He identified the managers within the company: Master Yoda is general manager and oversees all operations, Anakin Skywalker is the sales manager, Obi-Wan Kenobi is the training manager, and Padme Amidala is the service manager. Jango Fett is the office manager, managing the company's business details. Jango's employees include Commander Cody, who

looks after human resources, Captain Rex, who looks after payroll, and Sergeant Hunter, who looks after employee benefits. Also working for Jango Fett is one IT administrator, named Tech Ninenine.

The sales department has six sales reps: Ahsoka Tano, Asajj Ventress, Bo-Katan Kryze, Darth Maul, Qui-Gon Jinn, and Grogu. The service department has four service technicians: General Grievous, Jar-Jar Binks, Artoo Detoo, and See Threepio. The trainers are Ki-Adi Mundi, Dooku Serenno, Plo Koon, and Kit Fisto. The trainers have a classroom that has ten networked computers for education and training. People coming in for training will be assigned one of ten student accounts.

Each of the named people in the above section should have their own workstation, and of course their own user account. The sales department has one printer. The service department has two pooled laser printers. One printer is

shared by everyone (trainers and students) in the training department. The company also has a workstation for the company's receptionist, who reports to Jango Fett (the receptionist uses a generic "Receptionist" account). Jango's administrative department has two pooled printers. Storage for the entire business should be provided using a NAS or SAN system, but for the purposes of the project all shared folders will be stored on the main server.

Note that while Sheev and Mace own the business and are considered part of the organization, they do not work in the business on a day-to-day basis, so they do not have user accounts or workstations in the system.

Internet access is via a broadband connection with a local Internet service provider. Guest WiFi is provided for customer convenience, but this does not need to be implemented in your project.

Part 2: Active Directory Plan

For Part 2 you will describe your Active Directory design, including:

- a description of the organizational units you plan to implement (make sure you have at least a Sales OU), and a list of each OU's members

Sale OUs

The OUs is a Sales Department which is having a five members those include Sales Manager and
6 Sales representatives whose are responsible for the sales of company.

- ➢ **Anakin Skywalker (Sales Manager)**
- ➢ Grogu (Sales Representative)
- ➢ Qui-Gon Jinn (Sales Representative)
- ➢ Darth Maul (Sales Representative)
- ➢ BO-Katan Kryze (Sale Representative)
- ➢ Asajj Ventress (Sale Representative)
- ➢ Ahsoka Tano (Sale Representative)

Service OUs

This department having 4-member team and a Service Manager who's responsible for the operations of the company and if any device need any repair they are the first call of the office.

- ➢ **Padme Amidala (Service Manager)**
- ➢ See Threepio (Service Technician)
- ➢ Artoo Detoo (Service Technician)
- ➢ Jar-Jar Binks (Service Technician)
- ➢ General Grievous (Service Technician)

Office OUs

Now this department includes 6 members, one them is Manager who is controlling the each task whereas other members responsible for different tasks like HR, Pay roll, IT admin and many other.

- **Jango Fett (Office Manager)**
- Commander Cody(HR)
- Captain Rex (Pay roll)
- Sergeant Hunter (Employee Benefits)
- Tech Ninenine (IT admin)
- Company's Receptionist

Training OUs

This department is made up of 4 trainers and one of them is there a manager while the most possible duty for them is to instruct the students.
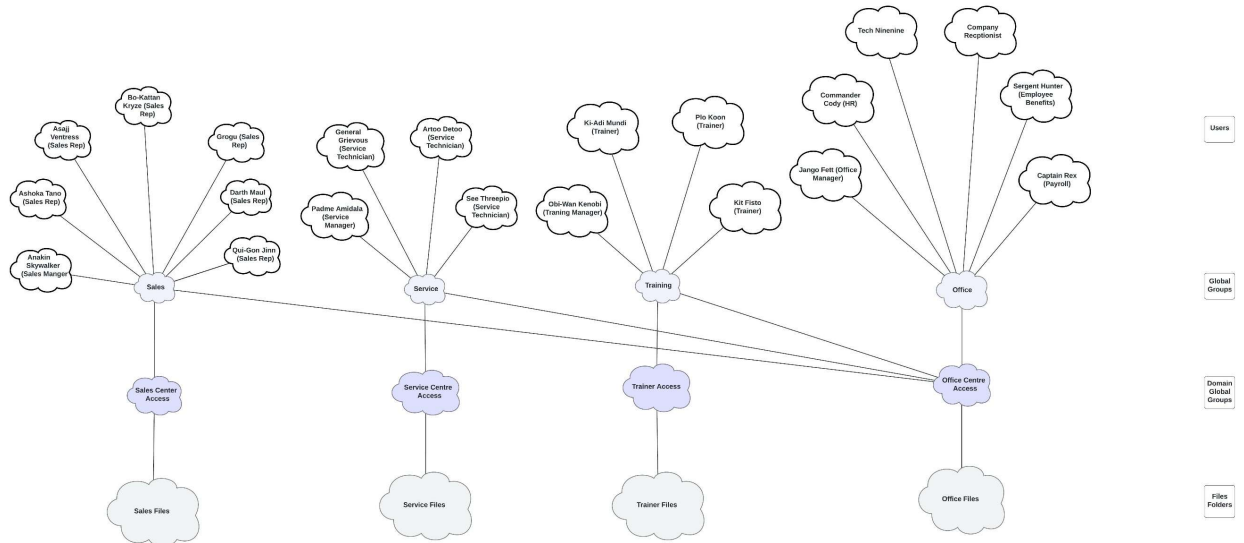
- Obi-Wan Kenobi (Training Manager)
- Kit FIsto (Trainer)
- Plo Koon (Trainer)
- Dooku Serinno (Trainer)
- Ki-Adi Mundi (Trainer)

- a list of the shared folders that will be part of the system, including at least Sales Docs, Service Docs, Training Docs, and Business Records

  - **A List of share folders are:**
    - **Sales Docs –** These documents contain new strategies and plan for improve the sales of company and Sales data of last month.

    - **Service Docs –** Files containing the ticket which are issued to service employees to repair the equipment's and other possible things that they can do.

    - **Training Docs –** These documents consist of the material of studies and syllabus issued for the students, instructions issued for the trainer or any updates regarding to the studies.

    - **Business Docs –** This department have a document which is issued for everyone who is working in the firm. For example – Payrolls issued for each employee by month and hiring documents as well as employee benefits for individual one.

- a description of an appropriate permission structure for the users; make sure you design permissions for each folder, but don't create an overly elaborate design – just deciding if folders should be accessible or not (permissions are read & write or none) and to which security principal is sufficient; be sure to explain your decisions regarding assigning permissions

Sales Docs – These documents contain information related to the sales of company. Therefore, there is not any information related to anu OUs.

Accessed OUs (Read and Write)	Unauthorized OUs (None)
➢ Sale OUs	➢ Training OUs ➢ Business OUs ➢ Service OUs

Training Docs – These documents having a study material and syllabus which belongs to the only trainer and their students.

Accessed OUs (Read and Write)	Unauthorized Access OUs (None)
➢ Training OUs	➢ Business OUs ➢ Service OUs ➢ Sale OUs

Service Docs – Document contains the history and task related to the service team which were performed by them, and ticket were generated for them to make repair or give permission to the individuals.

Accessed OUs (Read and Write)	Unauthorized OUs (None)
➢ Service OUs	➢ Training OUs ➢ Sale OUs ➢ Business OUs

Business Records – This department have a document which is issued for everyone who is working in the firm. For example – Payrolls issued for each employee by month and hiring documents as well as employee benefits for individual one.

Accessed OUs (Read and Write)	Unauthorized OUs (None)
➢ Training OUs ➢ Sale OUs ➢ Business OUs ➢ Service OUs	

- a diagram showing an AGDLP-compliant security group structure for access to the shared folders

- a list of the security groups you plan to implement, and a list of their members

1. Sales Group

➢ Anakin Skywalker (Sales Manager)
➢ Ashoka Tano (Sales Rep)
➢ Asajj Ventress (Sales Rep)
➢ Bo-Katan Kryze (Sales Rep)
➢ Darth Maul (Sales Rep)
➢ Qui-Gon Jinn (Sales Rep)
➢ Grogu (Sales Rep)

2. Training Group

➢ Obi-Wan Kenobi (Training Manager)
➢ Ki-Adi Mundi (Trainer)
➢ Dooku Serenno (Trainer)
➢ Plo Koon (Trainer)
➢ Kit Fisto (Trainer)

3. Service Group

➢ Padme Amidala (Service Manager)
➢ General Grievous (Service Technician)
➢ Artoo Detoo (Service Technician)
➢ See Threepio (Service Technician)

4. Office Group

➢ Jango Fett (Office Manager)
➢ Commander Cody (HR)
➢ Captain Rex (Payroll)
➢ Sergeant Hunter (Employee Benefits)
➢ Tech Ninenine (IT admin)
➢ Company's Receptionist

5. Sales Centre Access

➢ Sales Group

6. Service Centre Access

➢ Service Group

7. Trainer Access

➢ Training Group

8. Office Centre Access

➢ Office Group