

# **Kwantlen Polytechnic University**

**INFO 2416**

**Term Project**

**Part 4**

**Name – Jaskaran Singh**

**Student Id – 100[REDACTED]**

**Date of Submission – 4[REDACTED]2**

*“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.

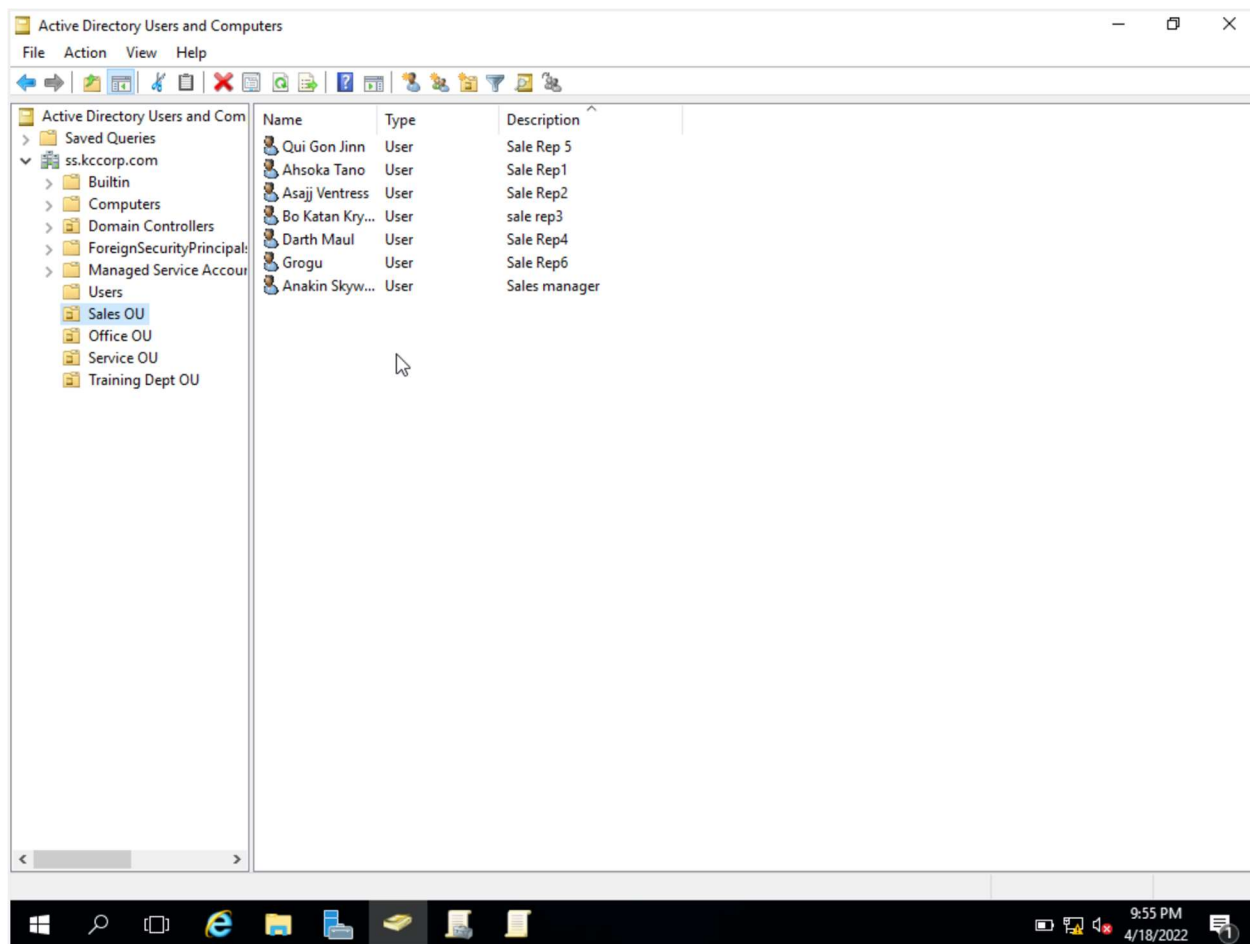
#### **Part 4: Implementation II & Write-Up**

**Due: By April 22**

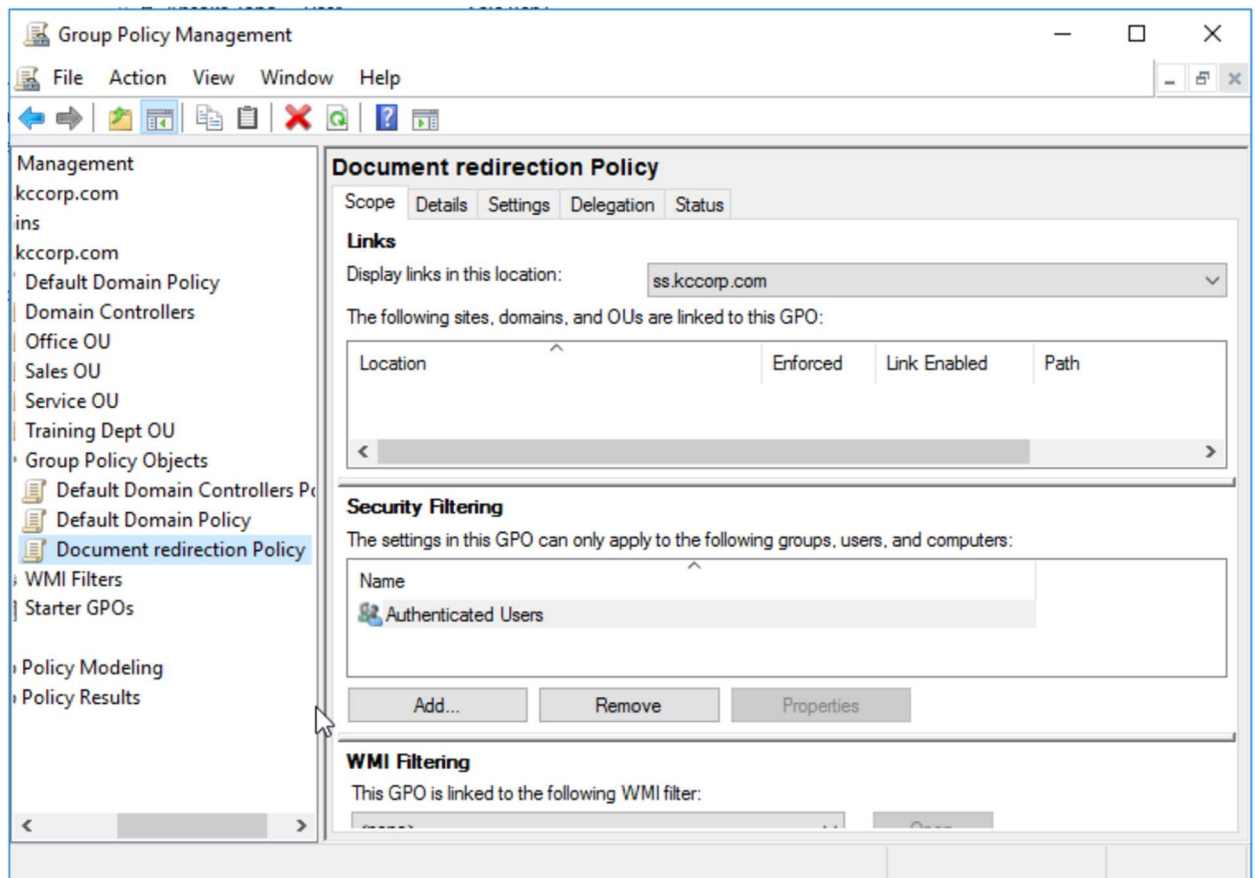
- Create all your Organizational Units (OUs) as described in Part 2.
- Link a GPO to the Sales OU.
- Use this GPO to redirect each sales rep's Documents folder to the shared Sales Docs folder.
- Add the IIS role, and set up a simple web page for the business (the page just needs to have some text on it with your name and the project title, but you can be fancier if you like). Take a screenshot showing the site's advanced settings (make sure the values are completely visible) using the IIS tool.
- Take screenshots to show the contents of each OU, to show that folder redirection works for a sales rep, and to show that you can open the web page on the server using a browser on the desktop.

### **Screenshots:**

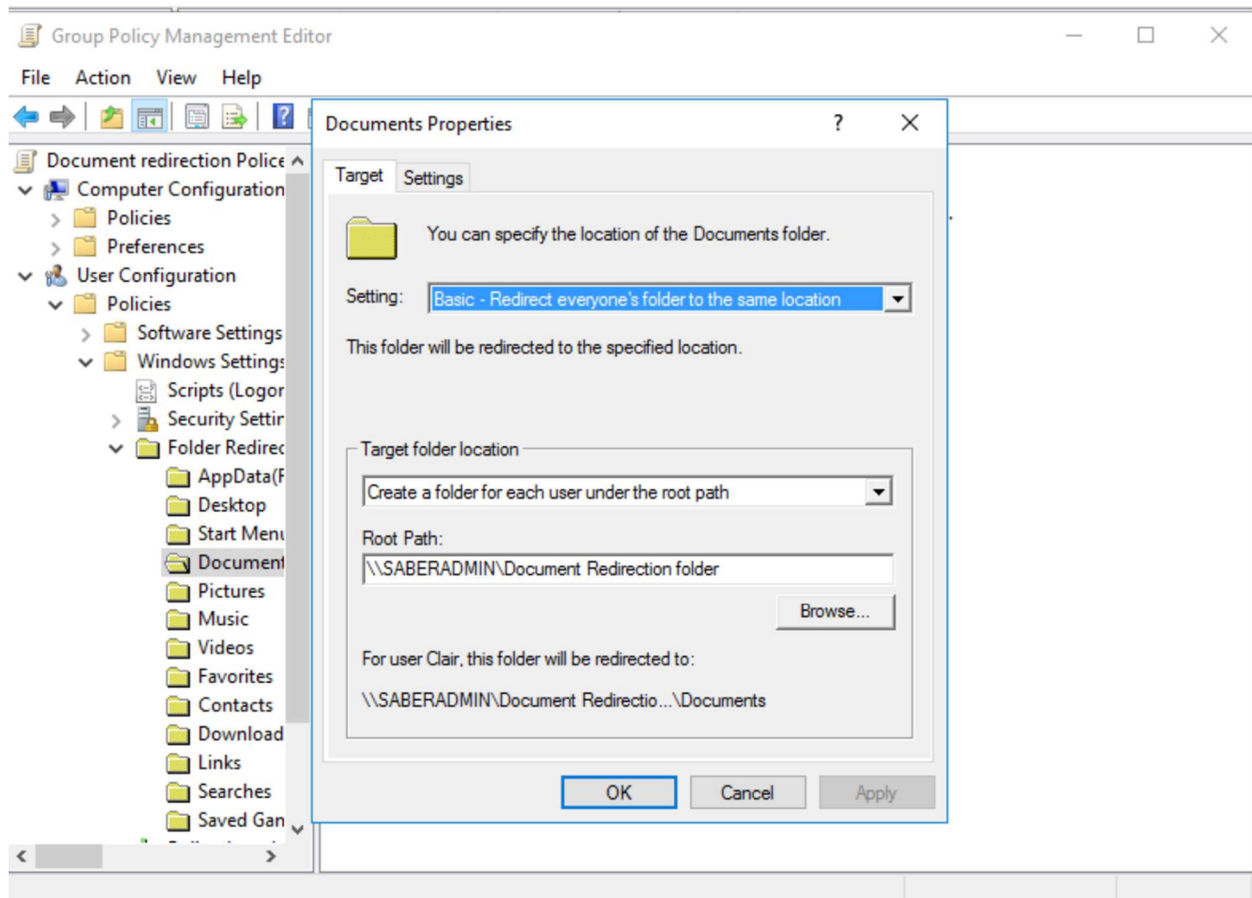
### **Sales OU:**



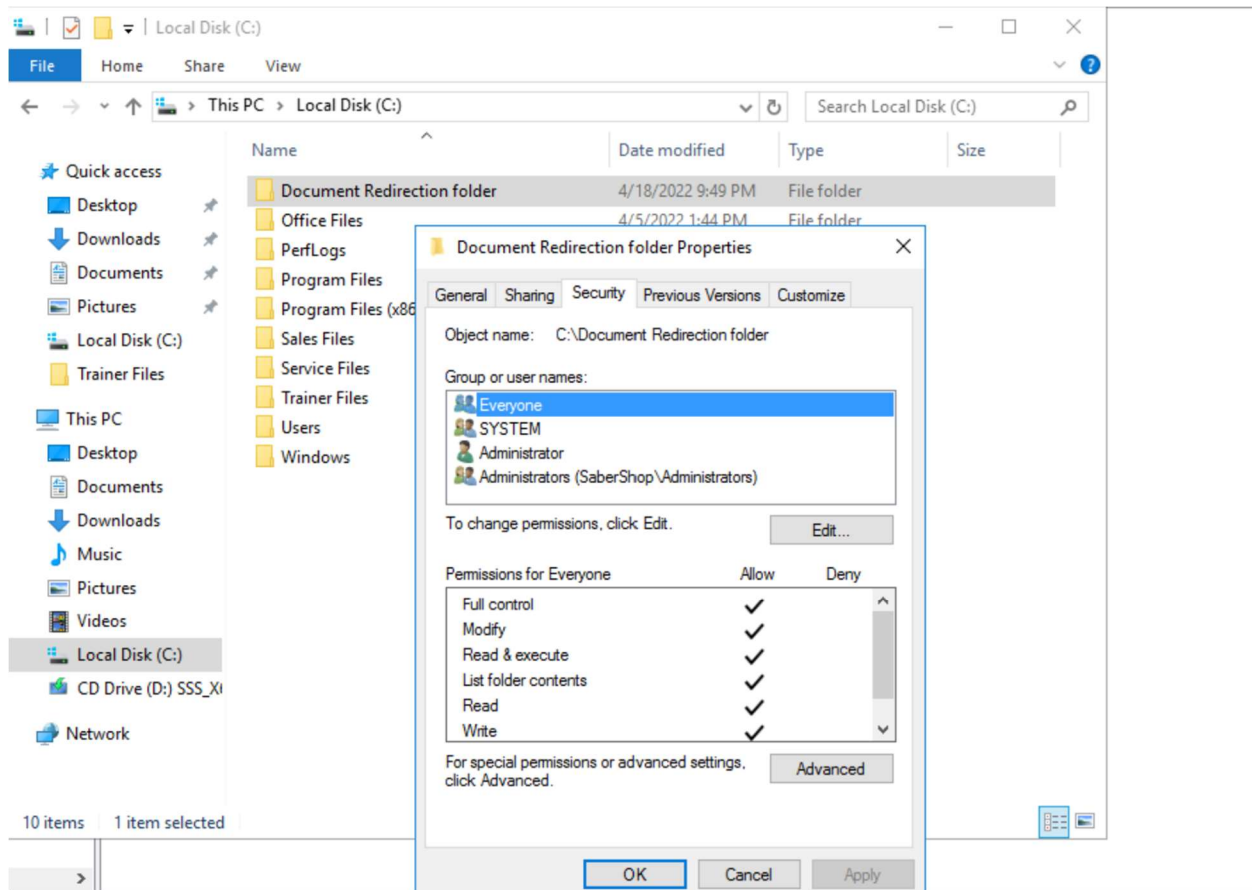
## Document redirection Policy:



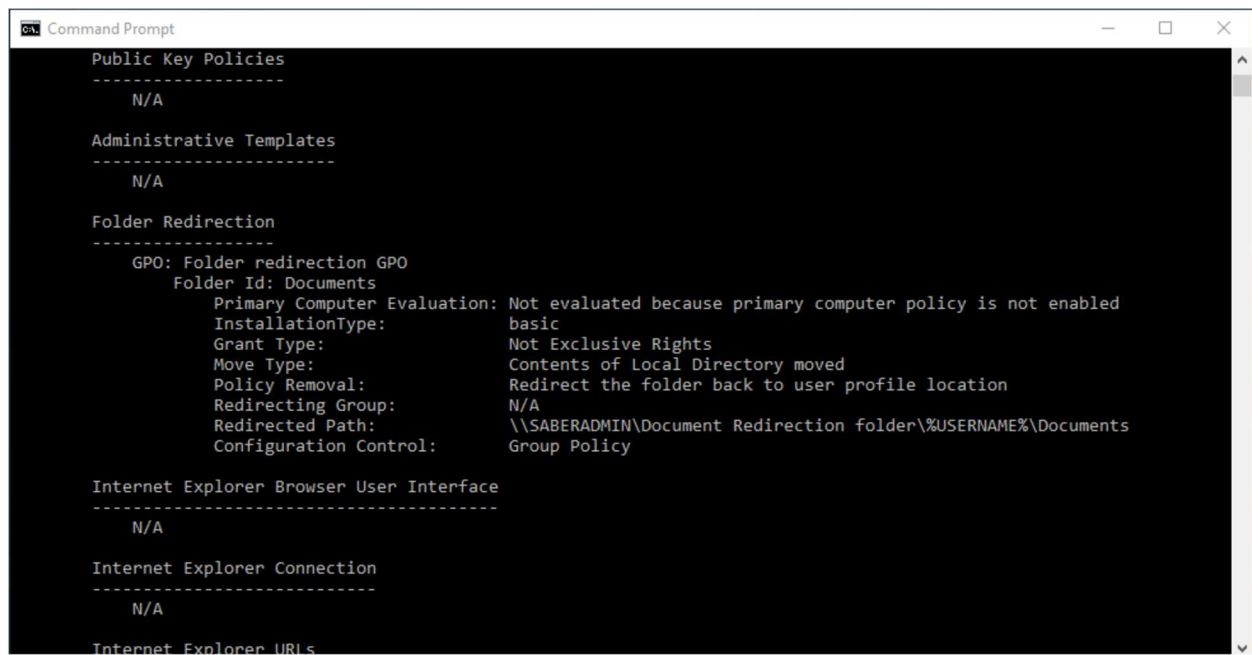
## Document redirection GPO Properties:



## Document redirection folder Properties:



## Document redirection GPO successfully applied to Sale Rep user Grogu:



```
Command Prompt

Public Key Policies
-----
N/A

Administrative Templates
-----
N/A

Folder Redirection
-----
GPO: Folder redirection GPO
Folder Id: Documents
Primary Computer Evaluation: Not evaluated because primary computer policy is not enabled
InstallationType:          basic
Grant Type:                 Not Exclusive Rights
Move Type:                  Contents of Local Directory moved
Policy Removal:             Redirect the folder back to user profile location
Redirecting Group:          N/A
Redirected Path:            \\SABERADMIN\Document Redirection folder\%USERNAME%\Documents
Configuration Control:      Group Policy

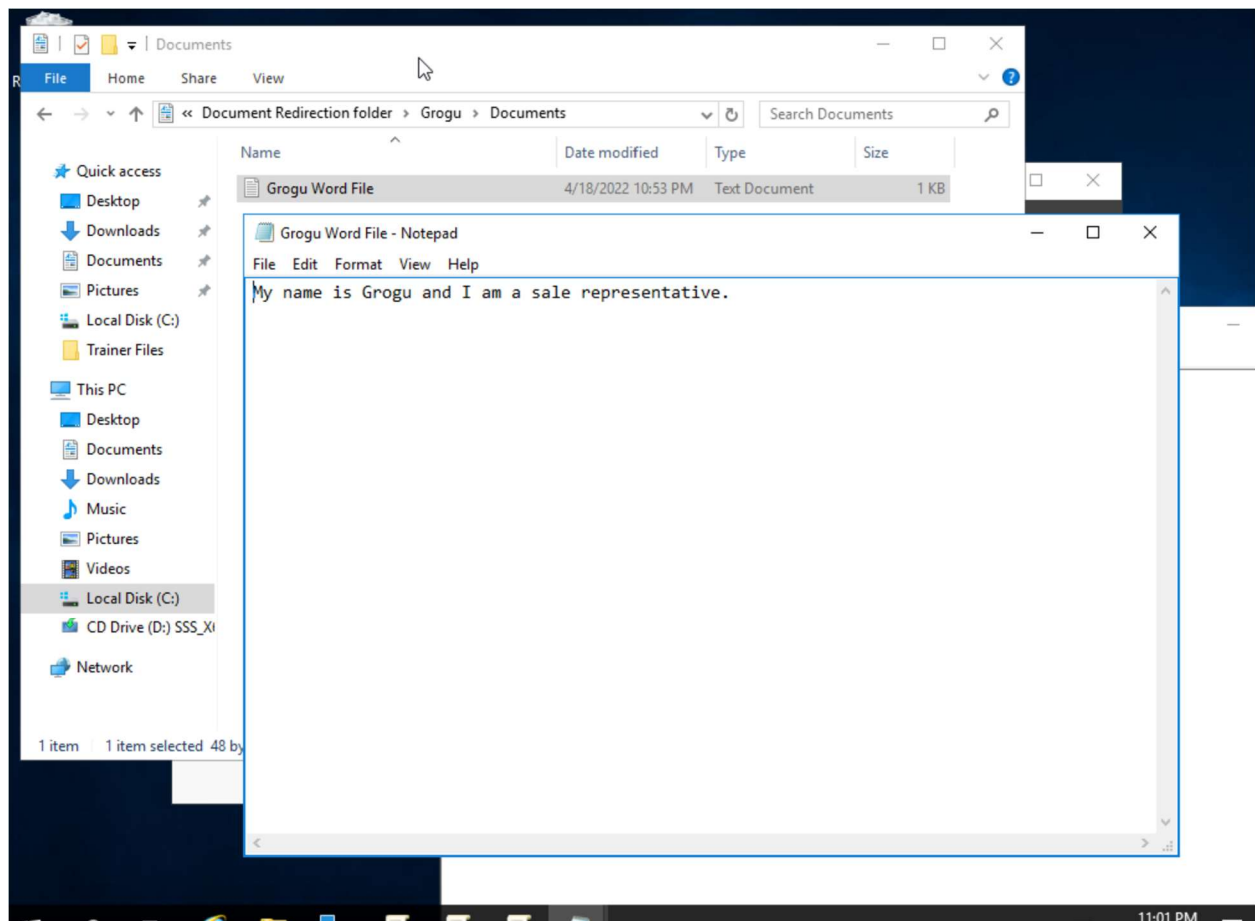
Internet Explorer Browser User Interface
-----
N/A

Internet Explorer Connection
-----
N/A

Internet Explorer URLs
-----
N/A
```

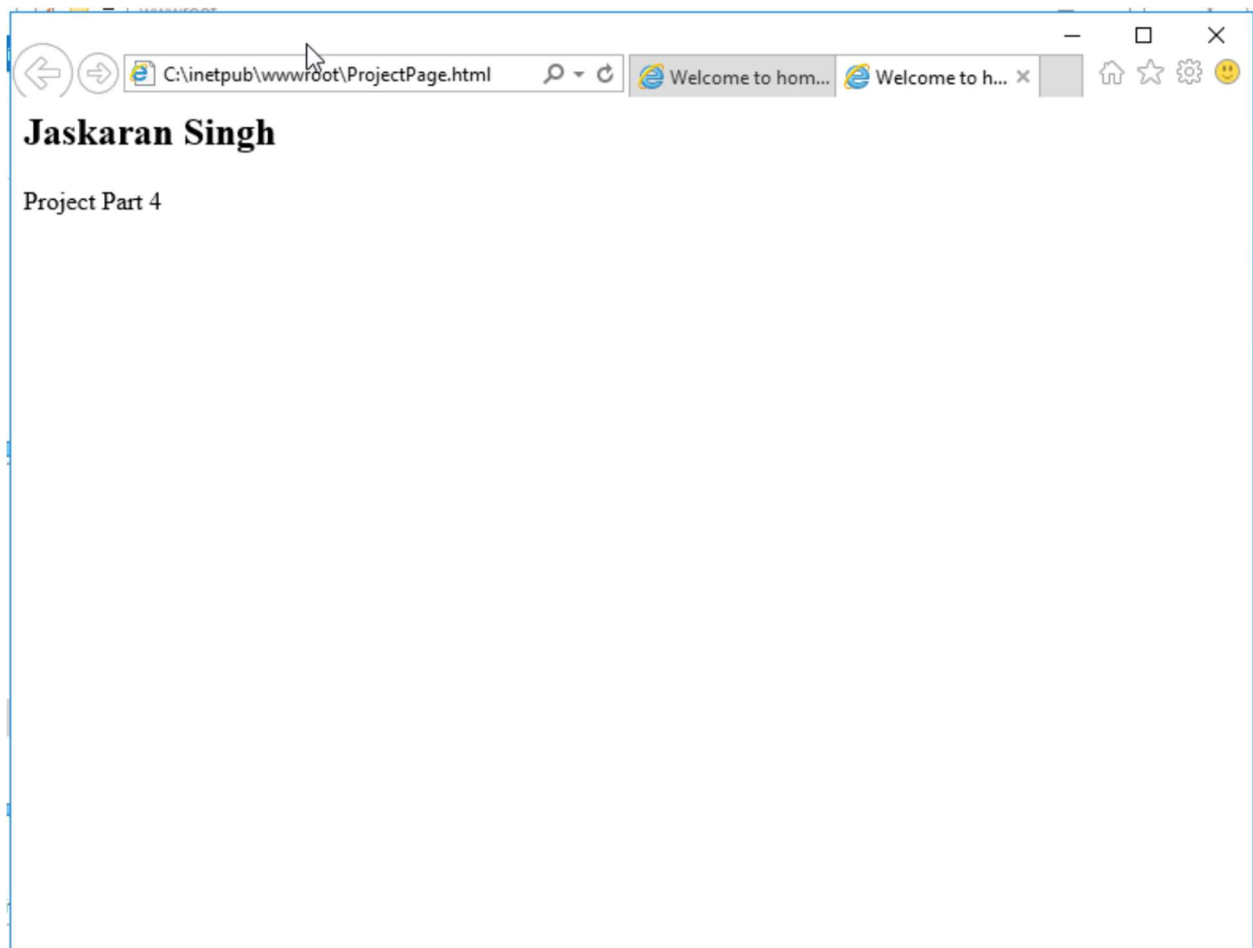
## Grogu file successfully saved in Document folder:



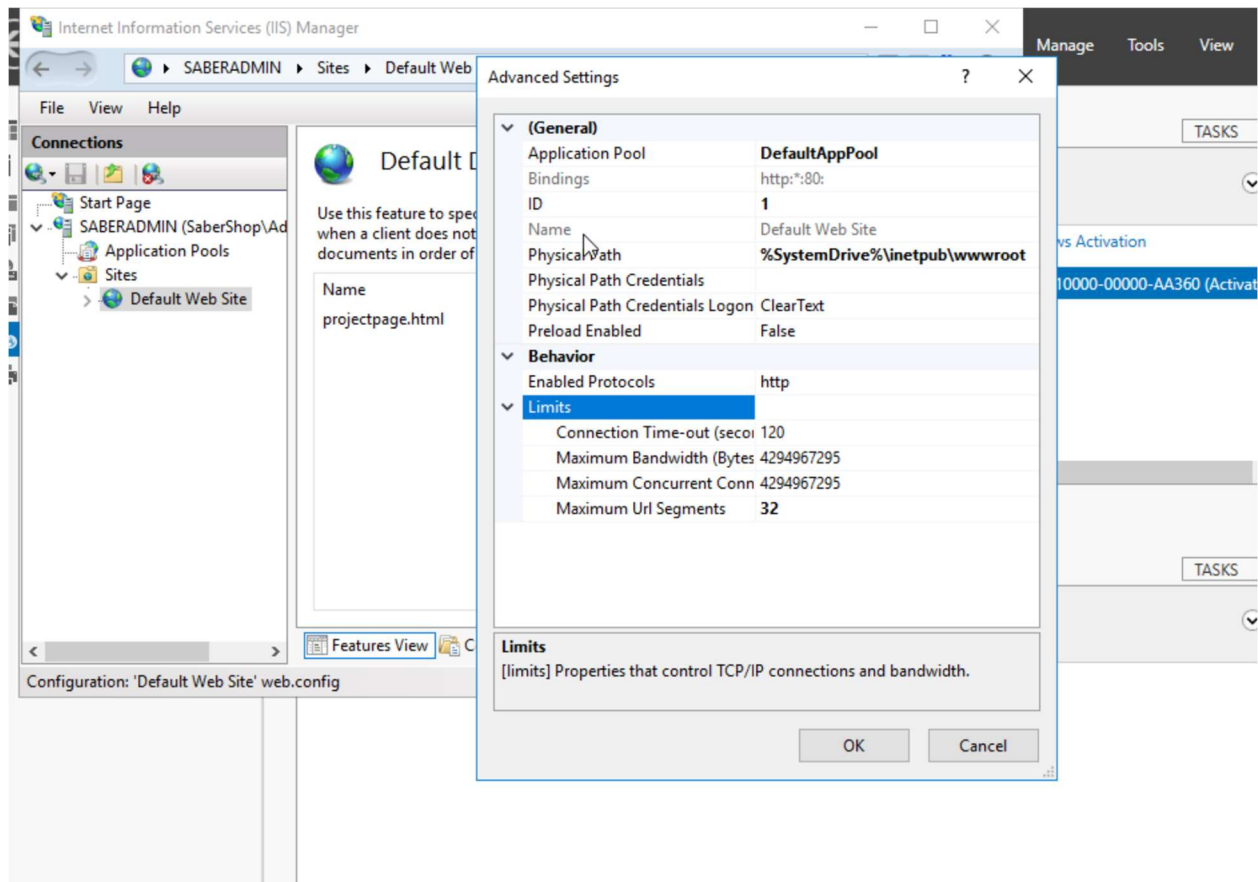


Web server is IIS installed:

## Homepage:



## Advance settings:



Write a brief paragraph indicating what work would need to get done from this point to actually install and deploy the entire system in a real-life setting.

I must first identify how many devices will be connected to the network and how they will be connected. Then we'll know what kind of network to use and how to set it up. Then we'll need to figure out how much money we have and where to acquire items like routers and hubs. The most common servers in business are Document, Database, Domain, Mail, and Print Servers. Our network will be updated as soon as the things are accessible. We'll set up the internet, network, and server gear as well as Set up local admin accounts on each PC to connect to the server. Configure your server as a domain regulator so that any PCs in your organization may join the new integrated system.

- Write a brief paragraph describing your work on the project: what was challenging, what took longer or shorter than expected, and what you learned doing the project.

I went through the whole syllabus while working on this assignment, which is one of the main advantages. For example, I forgot how to set up a locally hosted domain and the client connection details while working on the project. It took the most time to complete the final portion, in which we had to apply all we had learned so far in the course. We had a great lecturer who made it easier to study by focusing on practical rather than theoretical information, and this was the first subject I really grasped during the program.