SIC-IOT702 / task 02 : linux commands

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**Part 1: Create the Project Structure**

1. Create Directories:

1. In your home directory (~), create a main project directory called my\_app.

2. Navigate inside the my\_app directory.

3. Create two subdirectories: src (for source code) and assets (for other

files).

A screenshot of a computer program

AI-generated content may be incorrect.

2. Create and Populate Files:

1. Inside the src directory, create an empty file named main.py.

2. Inside the assets directory, create an empty file named config.txt.

3. Use the echo command to add the following line to

assets/config.txt: echo "Default Port: 8080" >

assets/config.txt



**Part 2: Linking and Searching**

1. Create a Symbolic Link:

1. While you are still inside the my\_app directory, create a symbolic link (soft

link) to the assets/config.txt file. Name the link active\_config.

2. Use the ls -l command to verify that the link was created and points to

the correct original file.

A screen shot of a computer screen

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2. Find System Files:

1. Use the find command to search for a file named services within the

/etc/ directory.

2. Once found, use the cp command to copy the /etc/services file into

your my\_app/assets directory.

A screen shot of a computer program

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3. Search File Content:

1. Use the grep command to search for the term "http" inside the

assets/services file you just copied.

2. Run the grep command again, but this time, display the line numbers for

each match.

A computer screen shot of a program code

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**Part 3: Verification and Cleanup**

1. Verify Directory Structure:

1. Use the tree command to display the final structure of your my\_app

directory. (If tree is not installed, you can use ls -R ).



2. Clean Up:

1. Remove the symbolic link active\_config.

2. Remove the entire my\_app directory and all of its contents with a single

command. A screenshot of a computer program

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