



Preparation

Start a PowerShell as an administrator.

Use the *cmd* command within the PS session to switch to a command prompt session. Pay attention to the prompt in the shell.

After completing all tasks, end the Command Prompt session with the *exit* command and return to PowerShell.

Task 1

Use the output of the *ver* command in the command prompt and cut the following pieces of text from the output. The cut out parts should be written on *stdout*. Write down your solutions or write them down in a file.

Note: For parts (d) to (f), you will need two for loops each.

- a. Microsoft
- b. Windows
- c. Microsoft Windows (with 2 tokens and with one token)
- d. String in square brackets
- e. full version number
- f. Microsoft Windows 10

Task 2

- a. Develop an expression that returns the number of files in a directory.
- b. Develop an expression that returns the memory requirements, i.e. the size of a directory.



Task 3 (Bonus)

Download the *domains.txt* file . In the same directory, create a *pings.bat* file to ping the domains one after the other. The results should be saved in a *results.txt* file.

Task 4 (Bonus)

Run the *ping -4* command www.cisco.com > *cisco.txt*.

Develop an expression that cuts (only) the domain's IPv4 address from *the cisco.txt* file.

Task 5 (Bonus)

Develop an expression that captures the username and local group memberships of all users and stores the results in a text file.