Practical exercise 2b: Scripting (Part 2)

A- Documentation

1- Read-Host
2- Types and typecasting
3- switch statement
4- Users and groups
5- while statement
6- do..while and do..until statements
7- Some examples

B- practical exercises

1- Write a script called **lgrp.ps1** that:

- Firstly, it it shows a menu with the following options:
  a) Create a new local group
  b) Remove a local group
  c) Rename a local group
  d) Add a local user to a local group
  e) Remove a local user from a local group
- Secondly:
  - If the user select the **a** option, a new local group will be created. Your script has to ask for a **group name**.
  - If the user select the **b** option, a local group will be removed. Your script has to ask for a **group name**.
  - If the user select the **c** option, a local group will be renamed. Your script has to ask for an **old group name** and a **new group name**.
  - If the user select the **d** option, a local user will be added to a local group. Your script has to ask for a **username** and a **group name**.
  - If the user select the **e** option a local user will be removed from a local group. Your script has to ask for a **username** and a **group name**.
  - If the user select any other option, the following message will be displayed: "Wrong option. Please, select option a, b, c, d or e"
- Finally, it shows a message asking the user if he/she wants to continue (option **y**) or not (option **n**). If the user select **y**, the terminal will be cleared and the menu will be shown again. Default option is **n**.
- Your script must terminate returning an exit code equal to **0**.

2- With the help of information you can read here, write a script called **openssh.ps1** that:

- Firstly, it it shows a menu with the following options:
  stat) Check if OpenSSH Server is present on your system or not
  inst) Install openSSH Server on your system
  uninst) Uninstall openSSH and restart (reboot) the system
- Secondly:
  - If the user select the **stat** option, your script will check if openSSH Server (**only the server!!!!**) is present on your system or not.
  - If the user select the **inst** option, openSSH Server will be installed on your system.
  - If the user select the **uninst** option, openSSH Server will be removed and the system restarted.
  - If the user select any other option, the following message will be displayed: "Wrong option".
- Finally, it shows a message asking the user if he/she wants to continue (option **y**) or not (option **n**). If the user select **y**, the terminal will be cleared and the menu will be shown again. Default option is **y**.
- Your script must terminate returning an exit code equal to **0**.

3- With the help of information you can read in the following liks:

- Get-Service
- Start-Service
- Stop-Service
- Set-Service (automatic, manual, disable using option -StartupType)

Write a script called **ssh.ps1** that:

- Firstly, it it shows a menu with the following options:
  status) Check the current status of OpenSSH Server
  start) Start openSSH Server
  stop) Stop openSSH Server
  auto) openSSH Server is started by the operating system at system start-up
  man) openSSH Server is started only manually
  dis) The service is disabled and cannot be started.
- Secondly:
  - If the user select the **status** option, your script will show the openSSH Server state.
  - If the user select the **start** option, openSSH Server will be started.
  - If the user select the **stop** option, openSSH Server will be stopped.
  - If the user select the **auto** option, openSSH Server will be started at system start-up.
  - If the user select the **man** option, openSSH Server will be started only manually.
  - If the user select the **dis** option, openSSH Server will be disabled.
  - If the user select any other option, the following message will be displayed: "Wrong option".
- Finally, it shows a message asking the user if he/she wants to continue (option **y**) or not (option **n**). If the user select **y**, the terminal will be cleared and the menu will be shown again. Default option is **y**.
- Your script must terminate returning an exit code equal to **0**.

1- Deadline: **20-5-2022** - From **20:30** to **20:50**
2- Create and add your scripts to a **zip** file called **pr2b.zip**.
3- Send **pr2b.zip** attached to an e-mail with the following specifications:

- E-mail address: **cf(at)collados.org**
- Subject:
  - ASIX1: **asix1_surname_name_m01tu03pr2b**
  - DAW1: **daw1_surname_name_m01tu03pr2b**