

Practical exercise 1b: Introduction to Powershell (2)

1- Documentation

- a) <https://computingforgeeks.com/adding-local-user-account-to-windows-server-2019/>
- b) [Basic PowerShell commands](#)
- c) [Introduction to PowerShell scripting](#)
- d) [EsborraRemove files and folder](#)
- e) [Compress and Expand](#)
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2- Adding a new local user account to Windows Server 2019

HELP → Documentation (a)

2.1- Add a new user:

- Windows menú → Server Manager (Dashboard) → Tools → Computer Management → Local Users and Groups → Users → New User. Alternatively, you can use the the **Run window** and enter the command: **compmgmt.msc**
- User name: **xyyyz** where (where **xx**=two first letters of your name, **yy**=two first letters of your first surname and **zz**=two first letters of your second surname).
- Password: **Clotje22**
- User can not change the password. Password never expires.

2.2- Add user to **Administrators group:**

- Click on the "Users" folder still in "Computer Management" to expose all of the users.
- Right-click the name of the specific user and select "properties".
- Click on "member of" tab then "Add"
- Type in "Administrators" and hit "Check Names".
- Click OK and OK again

3- Running basic PowerShell Commands

HELP → Documentation (b)

3.1- Gain access to the system as **xyyyz. Do not become **Administrator** never more.**

3.2- Run Powershell. Check your current directory and clear the display using a "Command alias". Run:

```
PS C:\Users\xyyyz>pwd
```

```
PS C:\Users\xyyyz>cls
```

3.3- Run Powershell. Check your current directory and clear the display using a "Cmdlet name". Run:

```
PS C:\Users\xyyyz>Get-Location
```

```
PS C:\Users\xyyyz>Clear-Host
```

3.3- Create a new folder called **folder00 using a "Cmdlet name" and another folder called folder01 using a "Command alias". Run: **mkdir folder00****

```
PS C:\Users\xyyyz>mkdir folder00
```

```
PS C:\Users\xyyyz>md folder01
```

3.4- Check that the new folder has been created. Run:

- PS C:\Users\xxyyzz>ls
- PS C:\Users\xxyyzz>Get-ChildItem

3.5- Create a new file called **file00.txt** with the help of **nano**. Write:

```
Date: 20220314
Author: xxyyzz
```

Check the contents of the new file. Run:

- PS C:\Users\xxyyzz>cat file00.txt
- PS C:\Users\xxyyzz>Get-Content file00.txt

3.6- Copy **file00.txt** to **folder00**. Run:

```
PS C:\Users\xxyyzz>Copy-Item file00.txt folder00
```

3.7- Check the contents of **folder00**. Run:

```
PS C:\Users\xxyyzz>Get-ChildItem folder00
```

3.8- Remove **file00.txt** from your current location. Check that **file00.txt** has been remove. Run:

```
PS C:\Users\xxyyzz>Remove-Item file00.txt
```

```
PS C:\Users\xxyyzz>Get-ChildItem
```

3.9- Change to folder **folder00**. Check the contents of **folder00**. Run:

```
PS C:\Users\xxyyzz>Set-Location folder00
```

```
PS C:\Users\xxyyzz\folder00>Get-ChildItem
```

3.10- Move **file00.txt** to **folder01**. Change to folder **folder01**. Check the contents of **folder01** and **folder00**.

```
PS C:\Users\xxyyzz\folder00>Move-Item file00.txt C:\Users\xxyyzz\folder01 # Absolute Path
```

```
PS C:\Users\xxyyzz\folder00>Set-Location ../folder01 # Relative Path
```

```
PS C:\Users\xxyyzz\folder01>Get-ChildItem
```

```
PS C:\Users\xxyyzz\folder01>Get-ChildItem ../folder00
```

3.11- Change to your personal folder. Remove **folder01** (Documentation d). Check the contents of your personal folder.

```
PS C:\Users\xxyyzz>Set-Location ~
```

```
PS C:\Users\xxyyzz>Remove-Item -Recurse folder01
```

```
PS C:\Users\xxyyzz>Get-ChildItem
```

3.12- Rename **folder00** to **dir00**. Check the contents of your personal folder. Run:

```
PS C:\Users\xxyyzz>Rename-Item folder00 dir00
```

```
PS C:\Users\xxyyzz>Get-ChildItem
```

3.13- Find the "Command alias" alternative for:

- Rename-Item
- Set-Location
- Remove-Item
- Move-Item
- Copy-Item

3.14- Show a list of files in **C:\Windows** ending with ***.exe**. Run:

```
PS C:\Users\xxyyzz>Get-ChildItem C:\Windows\*.exe
```

3.15- Copy all files in **C:\Windows** ending with ***.exe** to **dir00**. Show contents of **dir00**. Run:

```
PS C:\Users\xxyyzz>Copy-Item C:\Windows\*.exe dir00
```

```
PS C:\Users\xxyyzz>Get-ChildItem dir00
```

3.16- Change to **dir00**. Compress (Documentation e) all files in **dir00** ending with ***.exe** in a new file called **dir00exe.zip**. Remove all files in **dir00** ending with ***.exe**. Check the contents of **dir00**.

```
PS C:\Users\xxyyzz> Set-Location dir00
```

```
PS C:\Users\xxyyzz\dir00>Compress-Archive -Path *.exe -DestinationPath dir00exe.zip
```

```
PS C:\Users\xxyyzz\dir00>Remove-Item *.exe
```

```
PS C:\Users\xxyyzz\dir00>Get-ChildItem
```

3.16- Move **dir00exe.zip** to your personal folder. Change to your personal folder. Expand (Documentation e) **dir00exe.zip**. Remove **dir00exe.zip**. Remove **dir00**. Check the contents of your personal folder. Run:

```
PS C:\Users\xxyyzz\dir00>Move-Item dir00exe.zip ~
```

```
PS C:\Users\xxyyzz\dir00> Set-Location ~
```

```
PS C:\Users\xxyyzz>Expand-Archive -LiteralPath dir00exe.zip -DestinationPath .
```

```
PS C:\Users\xxyyzz>Remove-Item -Recurse dir00
```

```
PS C:\Users\xxyyzz>Remove-Item -Recurse dir00exe.zip
```

```
PS C:\Users\xxyyzz>Get-ChildItem
```

3.17- Download <http://www.collados.org/asix1/m01/tu1/average.tar.gz> with **Invoke-WebRequest** (Documentation f). Check the contents of your personal folder. Run:

```
PS C:\Users\xxyyzz>Invoke-WebRequest http://www.collados.org/asix1/m01/tu1/average.tar.gz  
-Outfile average.tar.gz
```

```
PS C:\Users\xxyyzz>Get-ChildItem
```

3.18- Find the "Command alias" alternative for **Invoke-Webrequest**.