STATEMENT

OS Windows 10 x64

Configure a computer for a wine distributor company. The company needs to create the following users:

- An <u>administrator</u> called <u>Ryley James</u>, whose password never expires. He belongs to the <u>sales department</u>.
- Three standard users that cannot change their password:
 - o MJ Bryant, who belongs to the sales department.
 - o Sofia Lawrence and Miriam Cassel, who belong to the training department.
- A guest user from the training department named <u>Tori Williamson</u>, but initially disabled. She will have to change the password at next logon.
- All the users must have a name, full name and description. For example, for Ryley James we can assign the username "Ryley_SBF", the full name "Ryley James" and the description "Ryley James, administrator of sales department".

Users Accounts

```
Administrator Command Prompt

| Comparison |
```

User account properties

```
:\>net user Ryley_RB
 ull Name
                                    Ryley James
Ryley James , administration of sales department
 ser's comment
 ountry/region code
ccount active
ccount expires
                                    000 (System Default)
                                    Never
                                     30/03/2021 08:33:33
 assword expires
assword changeable
assword required
                                     30/03/2021 08:33:33
 ser may change password
                                    Yes
 orkstations allowed
 ogon script
ser profile
     directory
 ast logon
 ogon hours allowed
ocal Group Memberships
                                    *Administrators
*sd.administration
                                                                 *sales.department
Global Group memberships
 he command completed successfully.
```

```
:\>net user Bryan_RB
|ser name
|ull Name
                                                                Bryan_RB
Bryan MJ
Bryan MJ, Sales Department
 Full Name
Comment
User's comment
Country/region code
Account active
Account expires
                                                                 000 (System Default)
                                                                 Never
                                                                 30/03/2021 08:35:15
11/05/2021 08:35:15
30/03/2021 08:35:15
Yes
  Password last set
 Password expires
Password changeable
Password required
User may change password
 Workstations allowed
Logon script
User profile
Home directory
Last logon
                                                                                                                                                                                                                       Dep
                                                                                                                                                                                                                        Secu
                                                                                                                                                                                                                        >
   ogon hours allowed
                                                                                                                                                                                                                       i l
 Local Group Memberships *sales
Global Group memberships *None
The command completed successfully.
                                                                 *sales.department
                                                                                                                  *Users
     :\>net user Miriam_RB
                                                                  Miriam_RB
Miriam Cassel
Miriam Cassel, Training Department
    ser name
ull Name
   ull Name
Comment
Jser's comment
Country/region code
Account active
Account expires
                                                                   000 (System Default)
Password last set
Password expires
Password changeable
Password required
User may change password
                                                                  30/03/2021 08:37:39
11/05/2021 08:37:39
30/03/2021 08:37:39
Yes
No
```

D

Tori Williamson, initially disabled

Workstations allowed Logon script User profile Home directory Last logon

Logon hours allowed

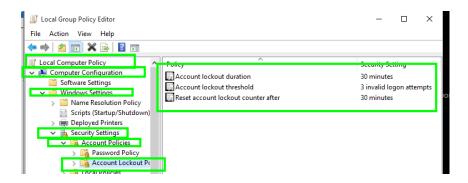
Local Group Memberships *train Global Group memberships *None The command completed successfully.

Never

*training.department *Users

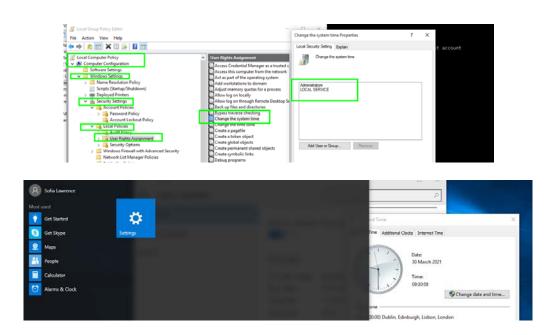
Account policies

Each user account will be locked after 3 failed attempts to login, although they will become unlocked after 30 minutes, unless Ryley unlocks them before.



Set time policy

As Ryley belongs to administrators group is the only one that is able to change the date and time.



User's folders creation

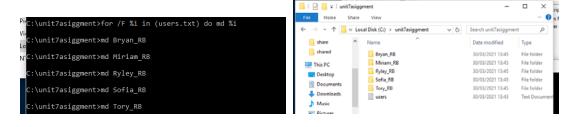
There is a hard drive in the volume C:\ where we want to create the following folders according to the criteria below:

- A <u>personal folder for each user</u>, where only the corresponding user can do everything except change permissions and take ownership. This folder will be different from the default Windows profile folder.
- A <u>folder for the entire company</u>, where everybody can copy or create files, but only Ryley can delete them.
- A <u>folder for the sales department into the folder for the entire company</u>, where the employees from this department only have read permissions, while the other employees cannot see the content. Complete this part disabling the inheritance.
- A <u>folder named "Key accounts" into the folder for the entire company</u>, where the employees from the sales department are able to copy files, while the other departments will only have read permission. Ryley will inherit the permissions from the parent folder. However, Miriam cannot access this folder because she is always in trouble. Explain how to complete this part with inheritance and disabling inheritance. Then, decide the most efficient.

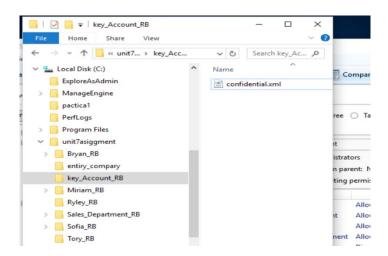
Finally, there is a file named "confidential.xlsx" in the folder "Key accounts" that the training department employees cannot access, while the permissions for the sales department will be the same as in the "Key accounts" folder. Complete this part with

Cmd

for /F %i in (users.txt) do md %i



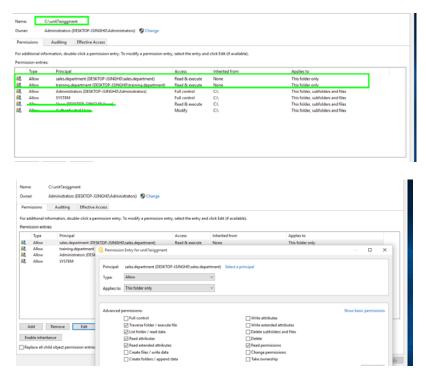
Tree directory



Permissions

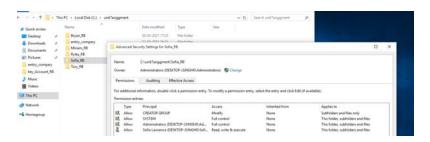
Root folder

Disabling inheritance to remove users and authenticated. Adding sales and training with only read permission to access to this folder. Users cannot rename or delete root folder.



Personal_folder for each user

 A <u>personal folder for each user</u>, where only the corresponding user can do everything except change permissions and take ownership. This folder will be different from the default Windows profile folder.

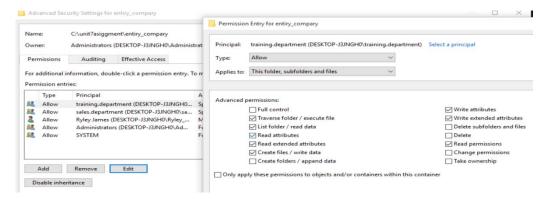


entery_company folder

• A <u>folder for the entire company</u>, where everybody can copy or create files, but only Ryley can delete them.

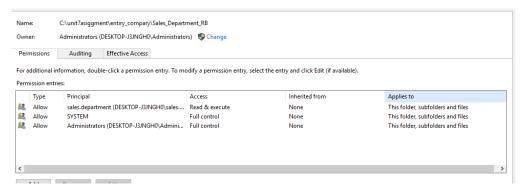
Although users can create and copy files, they cannot delete (delete *sensu stricto* or renamed). They can copy files from their directories into entery_company (create) and copy and paste files inside entery_company. Users cannot rename or delete entery_company folder.

Although Ryley belong to administrators group but it should be given modify permission .



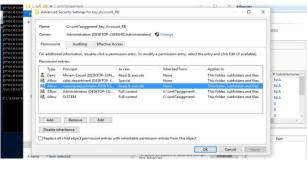
Sales_department

• A <u>folder for the sales department into the folder for the entire company</u>, where the employees from this department only have read permissions, while the other employees cannot see the content. Complete this part disabling the inheritance.



Key_accounts

• A <u>folder named "Key accounts"</u> into the folder for the entire company, where the employees from the sales department are able to copy files, while the other departments will only have read permission. Ryley will inherit the permissions from the parent folder. However, Miriam cannot access this folder because she is always in trouble. Explain how to complete this part with inheritance and disabling inheritance. Then, decide the most efficient.





Sales.department users can create files and copy files, although they cannot rename files,



Training.department users only can read



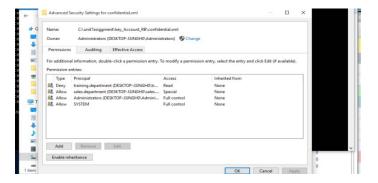
Miriam

Denying Miriam reading this folder, subfolders and files (maybe it is enough only applying this permission to this folder).



confidential.xlsx

In the folder "Key accounts"_that the training department employees cannot access, while the permissions for the sales department will be the same as in the "Key accounts" folder. Complete this part with the inheritance options you consider more efficient.



Saving and Formatting ACLS

Save ACLs to a file:

icacls c:\unit7asiggment /save unit7assignament_N_perms.txt /t /c

Restore ACLs from a file:

icacls c: /restore unit7assignament_N_perms.txt /t /c

Print ACL to a file .csv

Allowing run scripts in power shell isa

Set-ExecutionPolicy RemoteSigned

```
Administrator. Windows PowerShell

Sex-cuttion Policy Change

Execution Policy Change

Execution Policy Change

The execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps protect you from scripts that you do not trust. Changing the execution policy helps you want to change the execution policy helps you have the country have the
```

Script to get the ACL of the directory tree

```
#show message for each param path and file name
$ruta = Read-Host -Prompt 'ruta acl'
$nombre = Read-Host -Prompt 'nombre fichero a guardar'
$Date = Get-Date
#show whole message
Write-Host "Entrar '$ruta' y '$nombre' on '$Date'"
$FolderPath = dir -Path "$ruta" -Recurse -Force
$Report = @()
Foreach ($Folder in $FolderPath) {
    $Acl = Get-Acl -Path $Folder.FullName
    foreach ($Access in $acl.Access)
    $Properties = [ordered]@{'FolderName'=$Folder.FullName;
    'AD Group or User'=$Access.IdentityReference;
'Permissions'=$Access.FileSystemRights;
'Acces Control'=$Access.AccessControlType;
    'Inherited'=$Access.IsInherited}
    $Report += New-Object -TypeName PSObject -Property $Properties
#append date to file name
#save fale nate to the given path
$Report | Export-Csv -path "C:\$fichero .csv"
```

References

https://petri.com/list all users and groups in domain

 $\frac{\text{https://social.technet.microsoft.com/Forums/ie/en-US/0e2347e4-15ba-449f-b119-4d1bb836f717/powershell-getacl-formatting?forum=winservergen-https://social.technet.microsoft.com/Forums/en-US/4375ba22-e758-42f9-a7ec-7f2abfaa2574/using-getacl-to-view-the-advanced-permissions-of-as-folder?forum=ITCG$

https://tecadmin.net/powershell-running-scripts-is-disabled-system/

http://woshub.com/how-to-backup-and-restore-ntfs-permissions-using-icacls/

ANEXE I

FolderName	AD Group or User	AC	Permissions	Inh
C:\unit7asiggment\Bryan_RB	CREATOR GROUP	Allow	Modify, Synchronize	False
C:\unit7asiggment\Bryan_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False
C:\unit7asiggment\Bryan_RB	BUILTIN\Administrators	Allow	FullControl	False
C:\unit7asiggment\Bryan_RB	DESKTOP-J3JNGH0\Bryan_RB	Allow	Write, ReadAndExecute, Synchronize	False
C:\unit7asiggment\Miriam_RB	CREATOR GROUP	Allow	Modify, Synchronize	False
C:\unit7asiggment\Miriam_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False
C:\unit7asiggment\Miriam_RB	BUILTIN\Administrators	Allow	FullControl	False
C:\unit7asiggment\Miriam_RB	DESKTOP-J3JNGH0\Miriam_RB	Allow	Write, ReadAndExecute, Synchronize	False
C:\unit7asiggment\Ryley_RB	CREATOR GROUP	Allow	Modify, Synchronize	False
C:\unit7asiggment\Ryley_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False
C:\unit7asiggment\Ryley_RB	BUILTIN\Administrators	Allow	FullControl	False
C:\unit7asiggment\Ryley_RB	DESKTOP-J3JNGH0\Ryley_RB	Allow	Write, ReadAndExecute, Synchronize	False
C:\unit7asiggment\Sofia_RB	CREATOR GROUP	Allow	Modify, Synchronize	False
C:\unit7asiggment\Sofia_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False
C:\unit7asiggment\Sofia_RB	BUILTIN\Administrators	Allow	FullControl	False
C:\unit7asiggment\Sofia_RB	DESKTOP-J3JNGH0\Sofia_RB	Allow	Write, ReadAndExecute, Synchronize	False
C:\unit7asiggment\Tory_RB	CREATOR GROUP	Allow	Modify, Synchronize	False
C:\unit7asiggment\Tory_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False
C:\unit7asiggment\Tory_RB	BUILTIN\Administrators	Allow	FullControl	False
C:\unit7asiggment\Tory_RB	DESKTOP-J3JNGH0\Tory_RB	Allow	Write, ReadAndExecute, Synchronize	False
C:\unit7asiggment\entiry_compary	DESKTOP-J3JNGH0\Ryley_RB	Allow	Modify, Synchronize	False
C:\unit7asiggment\entiry_compary	DESKTOP-J3JNGH0\sales.department	Allow	CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute, Synchronize	False
C:\unit7asiggment\entiry_compary	DESKTOP-J3JNGH0\training.department	Allow	CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute, Synchronize	False
C:\unit7asiggment\entiry_compary	BUILTIN\Administrators	Allow	FullControl	True
C:\unit7asiggment\entiry_compary	NT AUTHORITY\SYSTEM	Allow	FullControl	True
C:\unit7asiggment\Sales_Department_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False

Computer systems

C:\unit7asiggment\Sales_Department_RB	BUILTIN\Administrators	Allow	FullControl	False
C:\unit7asiggment\Sales_Department_RB	DESKTOP-J3JNGH0\sales.department	Allow	ReadAndExecute, Synchronize	False
C:\unit7asiggment\key_Account_RB	DESKTOP-J3JNGH0\Miriam_RB	Deny	ReadAndExecute	False
C:\unit7asiggment\key_Account_RB	DESKTOP-J3JNGH0\sales.department	Allow	CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute, Synchronize	False
C:\unit7asiggment\key_Account_RB	DESKTOP-J3JNGH0\training.department	Allow	ReadAndExecute, Synchronize	False
C:\unit7asiggment\key_Account_RB	BUILTIN\Administrators	Allow	FullControl	True
C:\unit7asiggment\key_Account_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	True
C:\unit7asiggment\key_Account_RB\confidential.xml	DESKTOP-J3JNGH0\training.department	Deny	Read	False
C:\unit7asiggment\key_Account_RB\confidential.xml	DESKTOP-J3JNGH0\Miriam_RB	Deny	ReadAndExecute	True
C:\unit7asiggment\key_Account_RB\confidential.xml	DESKTOP-J3JNGH0\sales.department	Allow	CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute, Synchronize	True
C:\unit7asiggment\key_Account_RB\confidential.xml	DESKTOP-J3JNGH0\training.department	Allow	ReadAndExecute, Synchronize	True
C:\unit7asiggment\key_Account_RB\confidential.xml	BUILTIN\Administrators	Allow	FullControl	True
C:\unit7asiggment\key_Account_RB\confidential.xml	NT AUTHORITY\SYSTEM	Allow	FullControl	True