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</u> department.
- Three standard users that cannot change their password:
 - MJ Bryant, who belongs to the <u>sales department</u>.
 - 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

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Administrator Command Prompt

C:\net user

User accounts for \DESKTOP-J3JNGH0

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| User accounts for \DESKTOP-J3JNGH0
```

User account properties

```
:\>net user Ryley_RB
 ser name
ull Name
                                        Ryley James
Ryley James , administration of sales department
 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
ome directory
                                       Never
ogon hours allowed
ocal Group Memberships
                                                                        *sales.department
                                         *sd.administration
Global Group memberships *None
The command completed successfully.
```

```
:\>net user Bryan_RB
ser name
ull Name
                                                                 Bryan_RB
Bryan MJ
Bryan MJ, Sales Department
Comment
User's comment
Country/region code
Account active
Account expires
                                                                 000 (System Default)
Yes
                                                                 Never
                                                                 30/03/2021 08:35:15
11/05/2021 08:35:15
30/03/2021 08:35:15
Password expires
Password changeable
Password required
User may change password
Workstations allowed
Logon script
User profile
Home directory
Last logon
                                                                 Never
 ogon hours allowed
                                                                                                                                                                                                                          > [
> [
> [
Local Group Memberships *sales.department
Global Group memberships *None
The command completed successfully.
    :\>net user Miriam_RB
                                                                  Miriam_RB
Miriam Cassel
Miriam Cassel, Training Department
   ser name
ull Name
  Juli Wame
Jomment
Jser's comment
Country/region code
Account active
Account expires
                                                                  000 (System Default)
                                                                  Yes
Never
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
Workstations allowed
Logon script
User profile
Home directory
Last logon
                                                                  Never
 Logon hours allowed
```

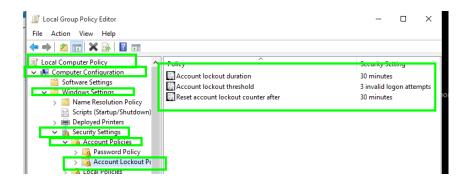
Tori Williamson, initially disabled

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

*training.department *Users

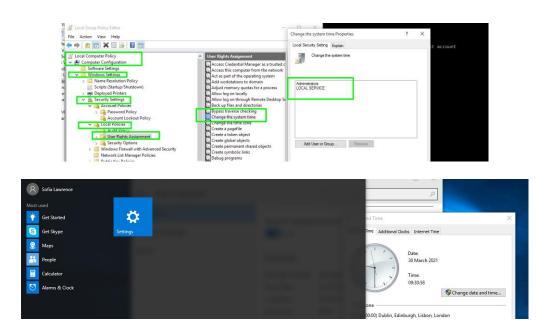
Account policies

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

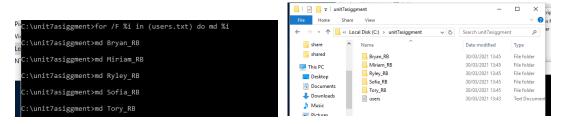
There is a hard drive in the volume C:\ where we want to create the following folders according to the criteria below:

- 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 folder for the sales department into the folder for the entire company, 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.

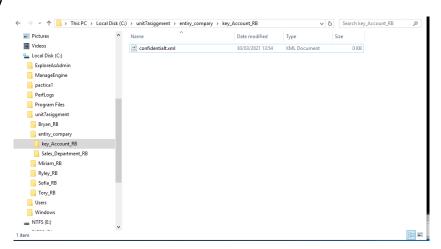
Finally, there is a file named "confidential.xlsx" in the folder "Key accounts" that the training department employees cannot access, while the permissions for the sales department will be the same as in the "Key accounts" folder. Complete this part with

Cmd

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



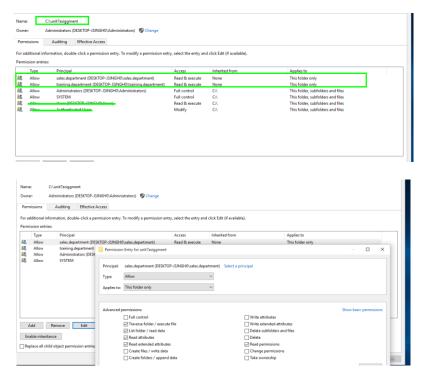
Tree directory



Permissions

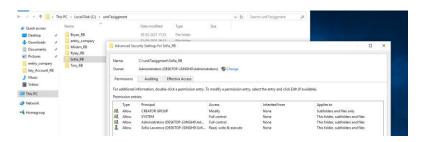
Root folder

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.

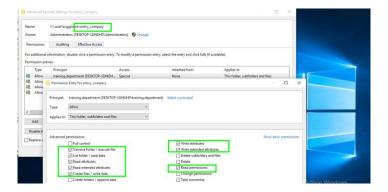


entery_company folder

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

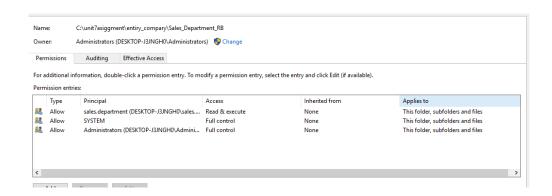
Although users can create and copy files, they cannot delate (delete *sensu stricto* or renamed). They can copy files from their directories into entery_company (create) and copy and paste files inside entery_company. Users cannot rename or delete entery_company folder.

Ryley belong to administrators group.



Sales_department

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



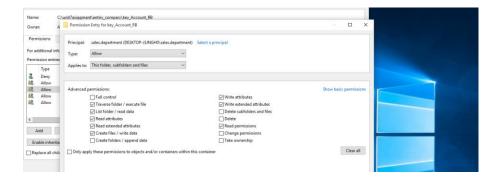
Key_accounts

• A <u>folder named "Key accounts" 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.

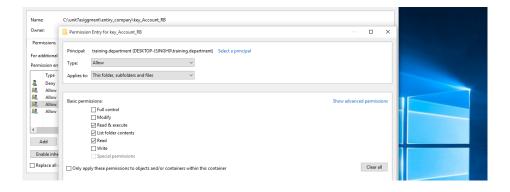
Disabling inheritance (ANEXE I)



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



Training.department users only can read



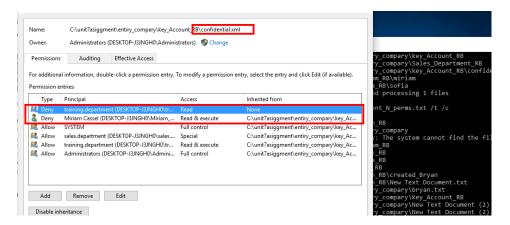
Miriam

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:

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

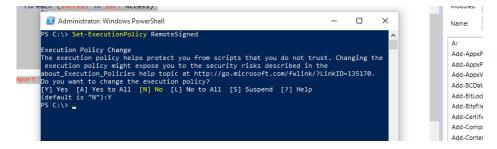
Restore ACLs from a file:

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

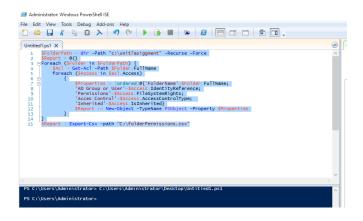
Print ACL to a file .csv

Allowing run scripts in power shell isa

Set-ExecutionPolicy RemoteSigned



Script to get the ACL of the directory tree



References

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

 $\frac{\text{https://social.technet.microsoft.com/Forums/ie/en-US/0e2347e4-15ba-449f-b119-dd1bb836f717/powershell-getacl-formatting?forum=winservergen-tttps://social.technet.microsoft.com/Forums/en-US/4375ba22-e758-42f9-a7ec-7f2abfaa2574/using-getacl-to-view-the-advanced-permissions-of-as-folder?forum=ITCG$

 $\underline{\text{https://tecadmin.net/powershell-running-scripts-is-disabled-system/}}$

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

ANEXE I

Key_account without inheritance				
FolderName	AD Group or User	AC	Permissions	Inherited
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\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

Computer systems

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

ANEXE II

Key_account with inheritance					
FolderName	AD Group or User	AC	Permissions	Inherited	
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	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\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\entiry_compary\key_Account_RB	DESKTOP-J3JNGH0\Miriam RB	Deny	ReadAndExecute	False
C.\unit\u00e4asiggment\entil\u00e4_compary\u00e4key_Account_\u00e4b	DESKTOP-	Delly	NeduAndExecute	1 alse
C:\unit7asiggment\entiry_compary\key_Account_RB	J3JNGH0\training.department	Deny	Write	False
	DESKTOP-		CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute,	
C:\unit7asiggment\entiry_compary\key_Account_RB	J3JNGH0\training.department	Allow	Synchronize	True
	DESKTOP-		CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute,	
C:\unit7asiggment\entiry_compary\key_Account_RB	J3JNGH0\sales.department	Allow	Synchronize	True
C:\unit7asiggment\entiry_compary\key_Account_RB	BUILTIN\Administrators	Allow	FullControl	True
C:\unit7asiggment\entiry_compary\key_Account_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	True
	DESKTOP-			
C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml	J3JNGH0\training.department	Deny	Read	False
C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml	DESKTOP-J3JNGH0\Miriam_RB	Deny	ReadAndExecute	True
	DESKTOP-			
C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml		Deny	Write	True
	DESKTOP-		CreateFiles, WriteExtendedAttributes, WriteAttributes, ReadAndExecute,	_
C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml	J3JNGH0\training.department	Allow	Synchronize	True
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C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml	J3JNGH0\sales.department	Allow	Synchronize	True
C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml	BUILTIN\Administrators	Allow	FullControl	True
C:\unit7asiggment\entiry_compary\key_Account_RB\confidential.xml	NT AUTHORITY\SYSTEM	Allow	FullControl	True
C:\unit7asiggment\entiry_compary\Sales_Department_RB	NT AUTHORITY\SYSTEM	Allow	FullControl	False
C:\unit7asiggment\entiry_compary\Sales_Department_RB	BUILTIN\Administrators	Allow	FullControl	False
	DESKTOP-			
C:\unit7asiggment\entiry_compary\Sales_Department_RB	J3JNGH0\sales.department	Allow	ReadAndExecute, Synchronize	False