

Table of Contents

Assignment 2..... 2

Part 1 ..... 2

    Description.....2

    Preparation .....2

    Screenshots .....2

    Discussion .....3

Part 2 ..... 3

    Description.....3

    Screenshots .....4

    Discussion .....4

Part 3 ..... 4

    Description.....4

    Screenshots .....4

    Discussion .....5

Part 4 ..... 5

    Description.....5

    Screenshots .....6

    Discussion .....9

# Assignment 2

## Part 1

### Description

This part will result in creating two VMs, promoting one of the servers to a Directory Controller and creating a domain.

### Preparation

Names of created VMs set to 8569394-A2DC and 8569394-A2MS. Network settings configured as follows:

- IP1:10.174.1.90/24, IP2:10.174.1.91/24
- GW:10.174.1.1
- DNS1:10.144.6.3, DNS2:10.174.1.90

On the DC server AD Domain Controller role was installed, server promoted to a Domain Controller. On the MS server File Server role was installed. Another hard disk was added to MS server.

### Screenshots

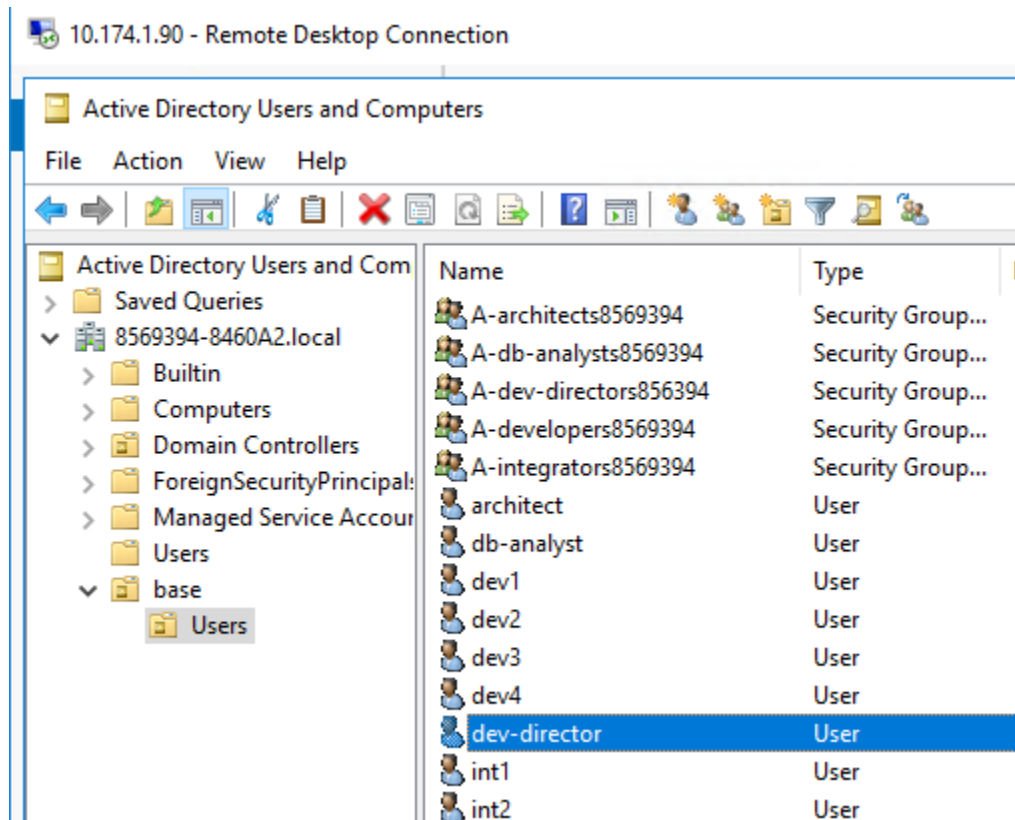


Figure 1. OUs, users and groups

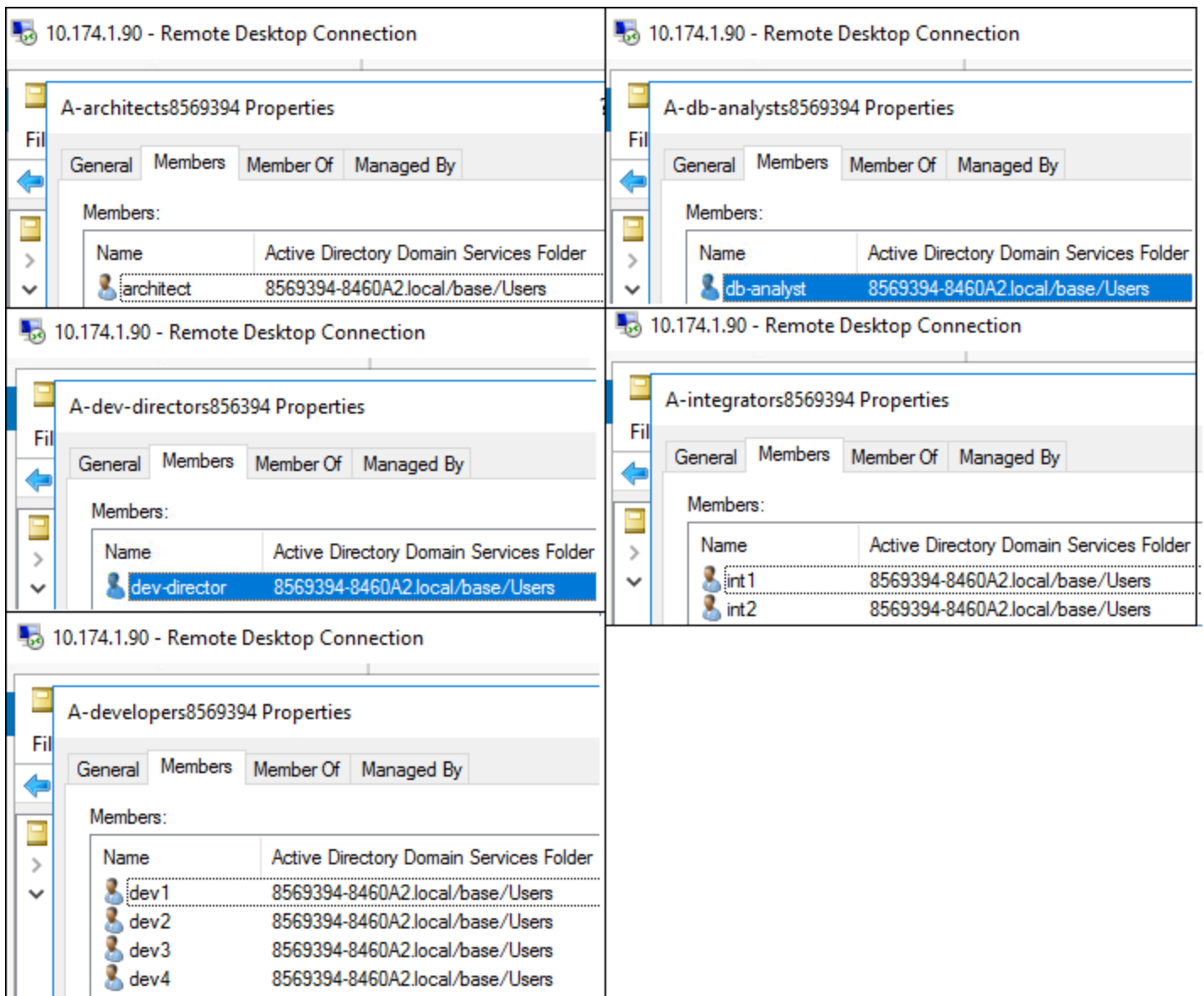


Figure 2. Group members

## Discussion

Base OU was created in the domain. Inside of it, another OU Users was created. New users and groups were added to the Users OU. Groups: A-developers8569394, A-integrators8569394, A-architects8569394, A-db-analysts8569394, A-dev-directos8569394; Users: dev1-4, int1-2, architect, db-analyst, dev-director.

Users can be united by their role in the domain. So, user accounts with one role are placed into one group.

## Part 2

### Description

This part will result in creating required OUs, security groups and users.

## Screenshots

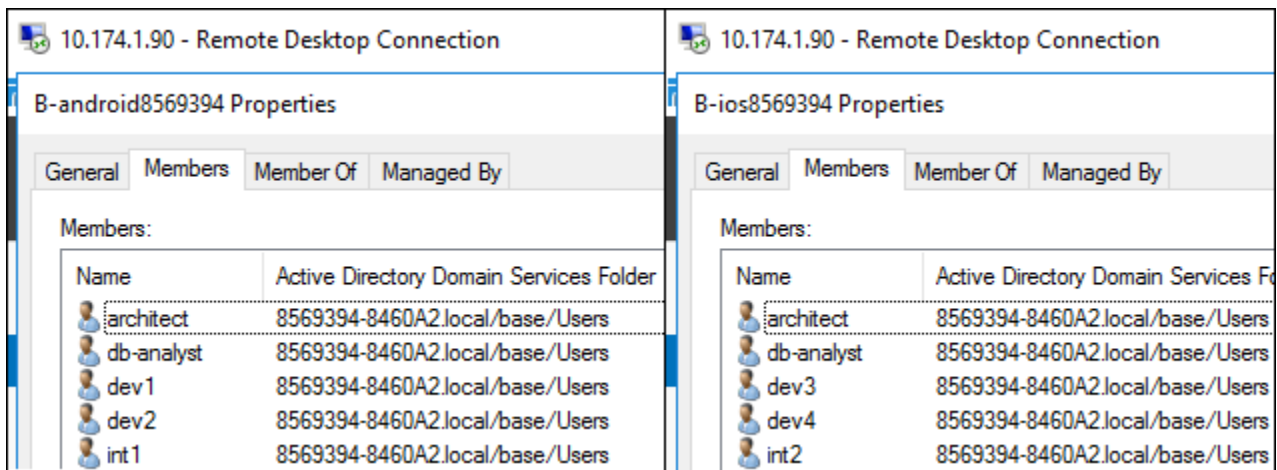


Figure 3. Project members

## Discussion

Two more groups were created, one for each project. Users participated in certain project were added to corresponding groups. Now it will be more convenient to manage permissions of project files.

## Part 3

### Description

This part will result in creating a share and its initial configuration.

## Screenshots

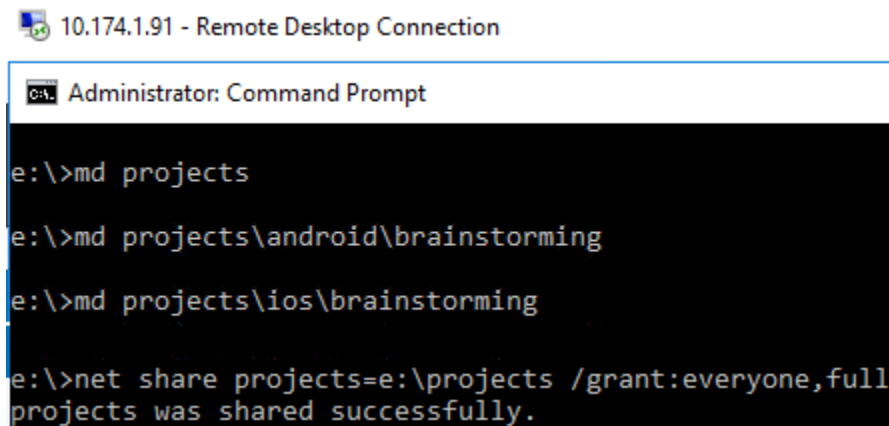


Figure 4. Creating and sharing folders

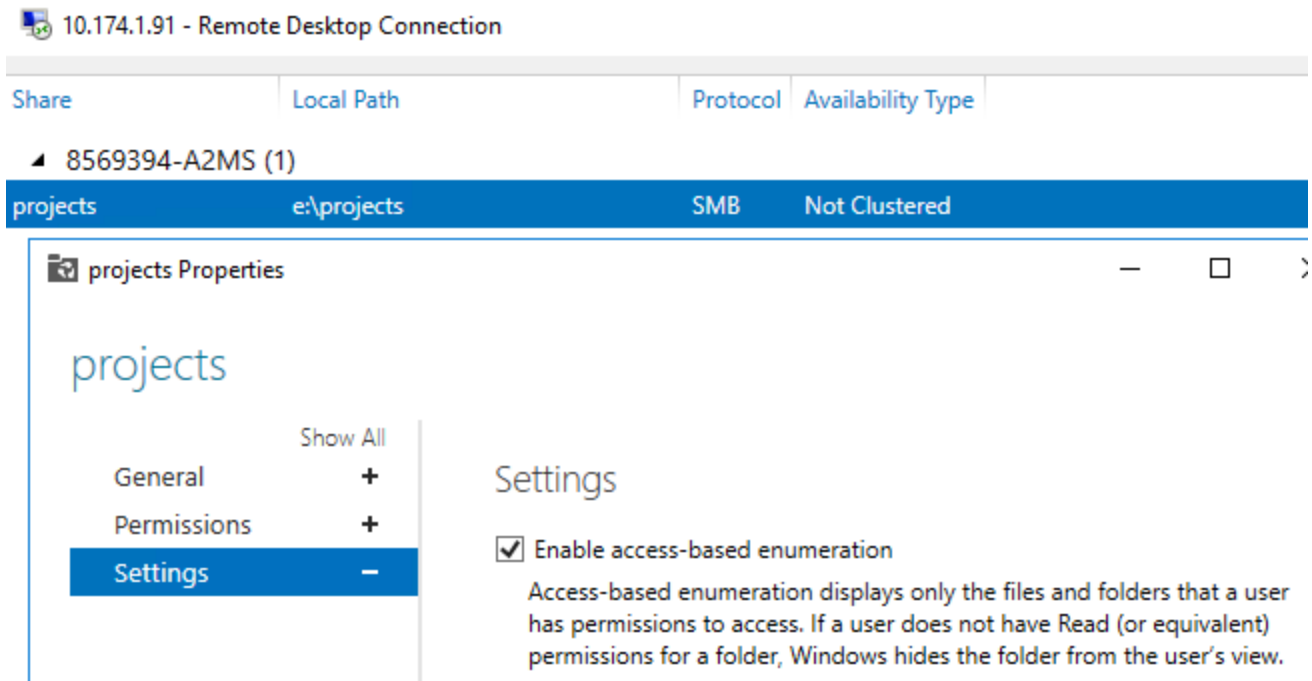


Figure 5. Users without permissions cannot see corresponding folders

## Discussion

On the E: drive Projects folders was created. Inside of it, were created two more folders dedicated to current projects: ios and android. Folders for brainstorming were added to each project folder.

Projects folder was shared, and permissions set to Full Control. Now, effective permissions will be derived from NTFS permissions.

## Part 4

### Description

In this part we will add several folders to the share and configure their permissions.

## Screenshots

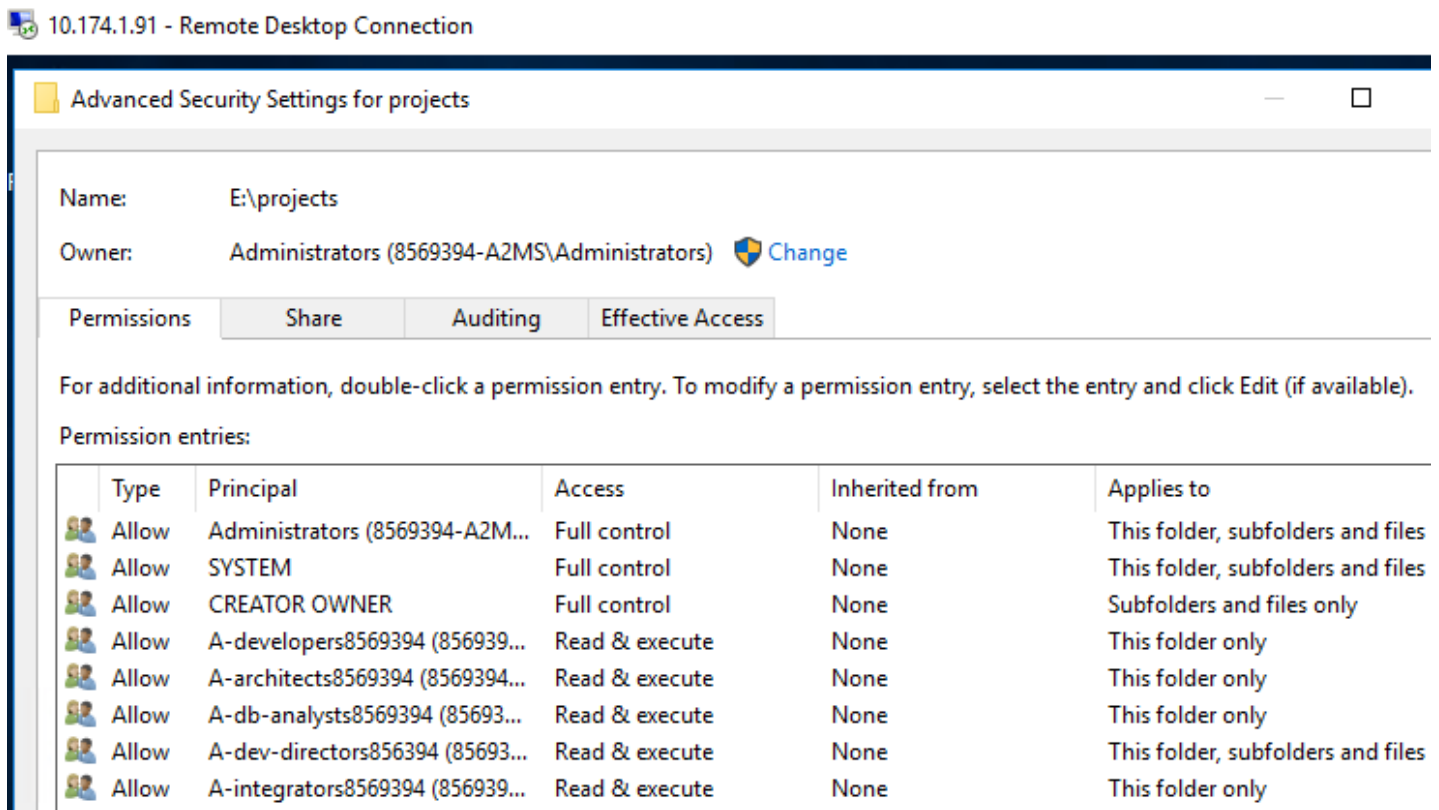


Figure 6. Projects folder permissions

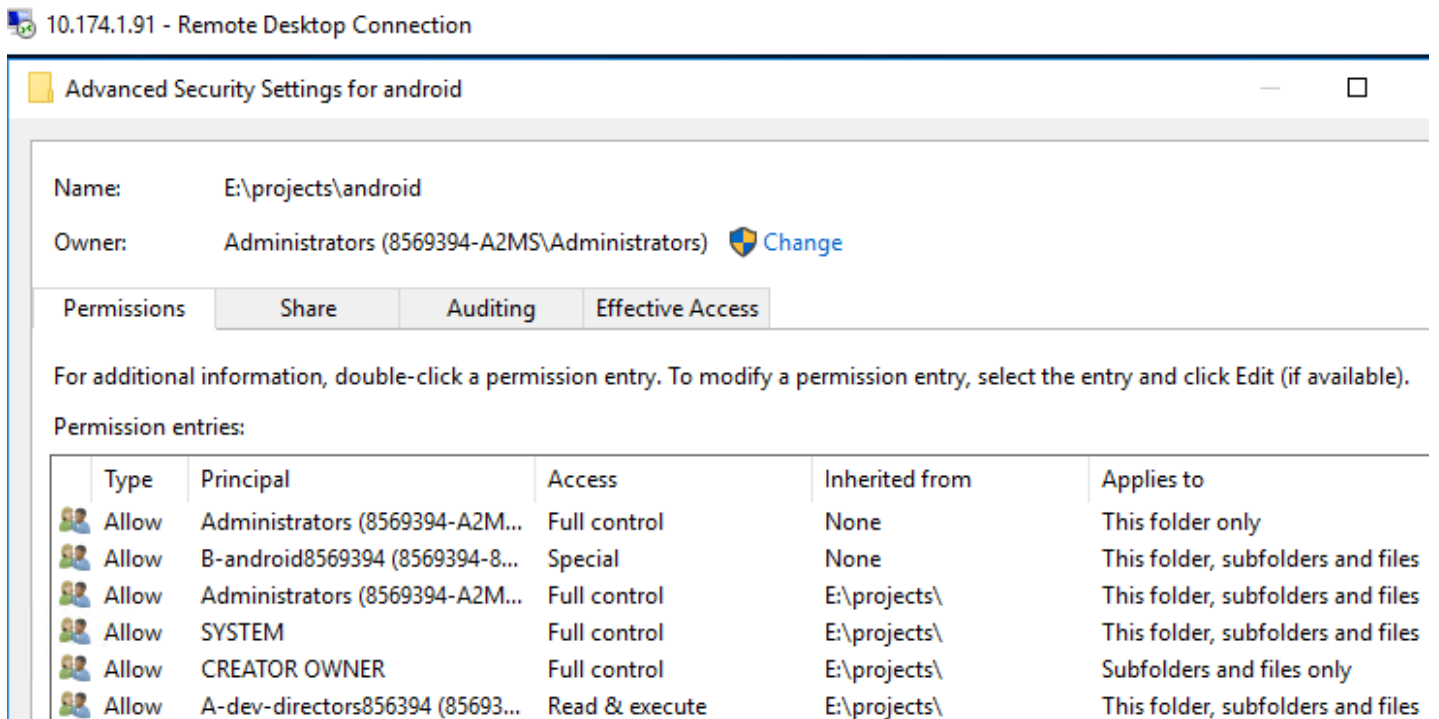


Figure 7. Android folder permissions

Advanced Security Settings for ios

Name: E:\projects\ios

Owner: Administrators (8569394-A2MS\Administrators) [Change](#)

Permissions Share Auditing Effective Access

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

Type	Principal	Access	Inherited from	Applies to
Allow	Administrators (8569394-A2M...	Full control	None	This folder only
Allow	B-ios8569394 (8569394-8460A...	Special	None	This folder, subfolders and files
Allow	Administrators (8569394-A2M...	Full control	E:\projects\	This folder, subfolders and files
Allow	SYSTEM	Full control	E:\projects\	This folder, subfolders and files
Allow	CREATOR OWNER	Full control	E:\projects\	Subfolders and files only
Allow	A-dev-directors856394 (85693...	Read & execute	E:\projects\	This folder, subfolders and files

Figure 8.IOS folder permissions

Advanced Security Settings for brainstorming

Name: E:\projects\android\brainstorming

Owner: Administrators (8569394-A2MS\Administrators) [Change](#)

Permissions Share Auditing Effective Access

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

Type	Principal	Access	Inherited from	Applies to
Allow	Administrators (8569394-A2M...	Full control	None	This folder only
Allow	B-android8569394 (8569394-8...	Read, write & execute	None	This folder, subfolders and files
Allow	B-android8569394 (8569394-8...	Special	E:\projects\android\	This folder, subfolders and files
Allow	Administrators (8569394-A2M...	Full control	E:\projects\	This folder, subfolders and files
Allow	SYSTEM	Full control	E:\projects\	This folder, subfolders and files
Allow	CREATOR OWNER	Full control	E:\projects\	Subfolders and files only
Allow	A-dev-directors856394 (85693...	Read & execute	E:\projects\	This folder, subfolders and files

Figure 9.Android-brainstorming folder permissions

Name: E:\projects\ios\brainstorming

Owner: Administrators (8569394-A2MS\Administrators) [Change](#)

Permissions Share Auditing Effective Access

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

	Type	Principal	Access
	Allow	Administrators (8569394-A2MS\Administrators)	Full control
	Allow	B-ios8569394 (8569394-8460A2\B-ios8569394)	Modify
	Allow	B-ios8569394 (8569394-8460A2\B-ios8569394)	Special
	Allow	Administrators (8569394-A2MS\Administrators)	Full control
	Allow	SYSTEM	Full control
	Allow	CREATOR OWNER	Full control
	Allow	A-dev-directors856394 (8569394-8460A2\A-dev-directors856394)	Read & execute

Figure 10. IOS-brainstorming folder permissions

Name: E:\projects\android		Name: E:\projects\android\brainstorming	
Owner: Administrators (8569394-A2MS\Administrators)		Owner: Administrators (8569394-A2MS\Administrator)	
Permissions	Share	Auditing	Effective A
Effective access	Permission	Effective access	Permission
	Full control		Full control
	Traverse folder / execute file		Traverse folder / execute file
	List folder / read data		List folder / read data
	Read attributes		Read attributes
	Read extended attributes		Read extended attributes
	Create files / write data		Create files / write data
	Create folders / append data		Create folders / append data
	Write attributes		Write attributes
	Write extended attributes		Write extended attributes
	Delete subfolders and files		Delete subfolders and files
	Delete		Delete
	Read permissions		Read permissions
	Change permissions		Change permissions
	Take ownership		Take ownership

Figure 11. Example of effective permissions



## Discussion

First of all, we disabled inheritance in the Projects folder and deleted all plain users permissions. Read permissions were granted to developers, architects, database analysts and system integrators on the Projects folder. Also, Read permissions were granted to developer directors on Projects folder and its content.

Members of B-android and B-ios groups have permissions in the corresponding folders as shown in (Figure 11). Users, participated in corresponding projects, can view and create anything in their folders, however, they can modify only owned files. Files in the brainstorming subfolders can be modified by anyone.