



ALBUKHARY INTERNATIONAL UNIVERSITY

## SCHOOL OF COMPUTING & INFORMATICS

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Course Title	:	<b>OPERATING SYSTEMS</b>
Course Code	:	<b>CCC 2123</b>

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### LAB EXERCISE (WEEK 8)

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#### Instructions:

Using the Command Line Interface (CLI) for Linux that we have learned and used so far, please execute the following tasks:

#### **Task 1: Permission Setup**

- Create a new directory named "Permission\_Lab."
- Inside this directory, create a file named "secure\_file.txt."
- Set the permissions to allow the owner full access, the group read-only access, and others no access.

```
(root@kali)-[~]
# mkdir Permission_Lab

(root@kali)-[~]
# touch secure_file.txt

(root@kali)-[~]
# chmod 740 secure_file.txt

(root@kali)-[~]
#
```

## Task 2: Ownership Change

- Change the ownership of "secure\_file.txt" to another user on the system.
- Verify the ownership change.

```
(root@kali)-[~]
# sudo adduser jaaaaaaaaa

info: Adding user `jaaaaaaaaa' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `jaaaaaaaaa' (1003) ...
info: Adding new user `jaaaaaaaaa' (1003) with group `jaaaaaaaaa' (1003) ...
info: Creating home directory `/home/jaaaaaaaaa' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
No password has been supplied.
New password:
Retype new password:
```

```
(root@kali)-[~]
# sudo chown jaaaaaaaaa:jaaaaaaaaa secure_file.txt
```

## Task 3: Permission Testing

- Attempt to edit "secure\_file.txt" as the owner and a different user.
- Note the outcomes and any error messages received.

```
[ Path '.: Permission denied ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify
```