



**Module Code & Module Title - CT5052NP (Network Operating System)**

**Level 5 – Network Operating system**

**Assessment Type**

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*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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## 1. Introduction

Linux is an unix-like open source OS. It provides robust environments for developers and users. Kali Linux is Debian based linux which is designed for testing, cybersecurity, penetration and ethical hacking. The CLI of Kali Linux interact directly with the OS.

Commands like whoami and who provides information about users of the system and finger provides more detailed information. Command like date display current date and other command like ls, cat, echo are used for list files and directories display file content and print and write file.

## 2. Objective

## 3. Tools and Software used

### i. Virtual Box

Virtual box is a free cross-platform virtualization tool which helps to run multiple operating systems on single device. It is mostly used by developers to efficiently test and deploy applications. (What is in Oracle VM VirtualBox Enterprise)

### ii. Kali linux

It is a debian based OS mainly used for the purpose of cyber security. Terminal directly interacts with OS which makes it powerful to be used for doing security tasks and management of files. (KALI)

## 4. Steps

### 4.1 Viewing User and System information in Script

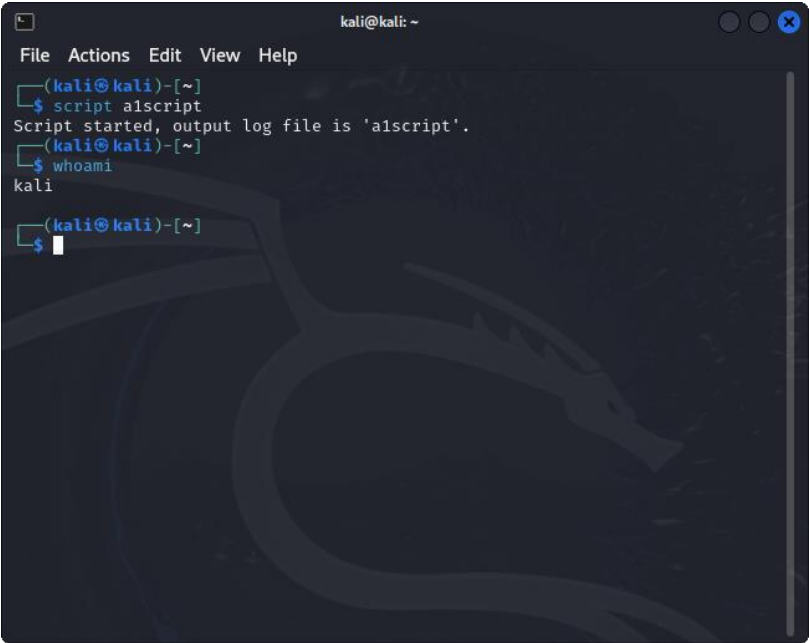


Figure 1: Starting Script Recording Session

Figure 2: Starting Script Recording Session

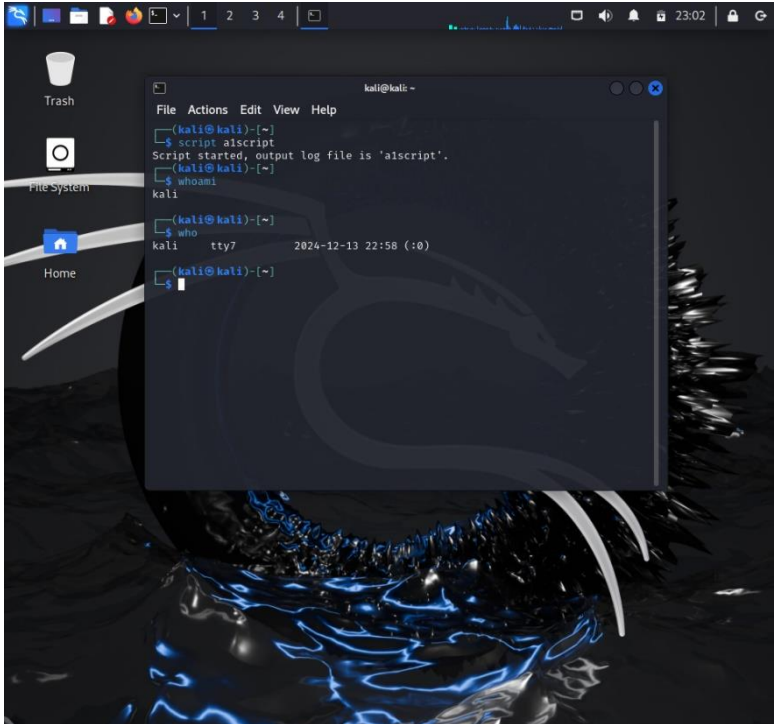


Figure 3: Viewing currently logged in user and listing all logged in user

Figure 4: Viewing currently logged in user and listing all logged in user

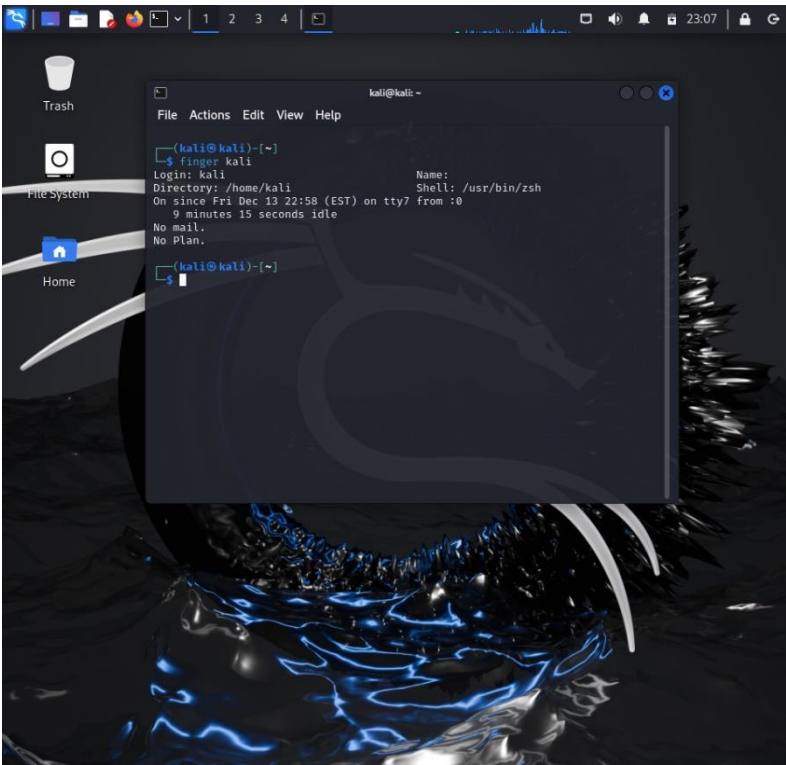


Figure 5: Viewing details of user account

Figure 6: Viewing details of user account

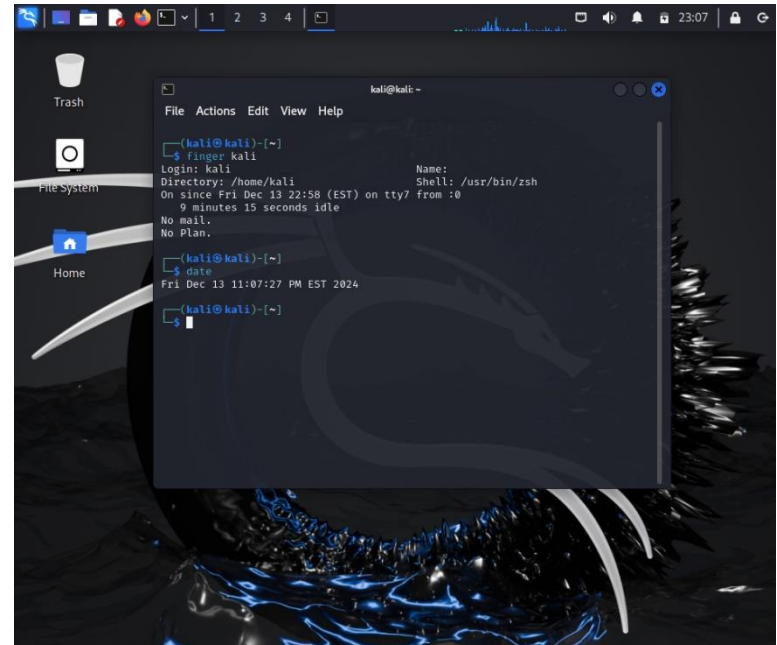


Figure 7: Displaying current date and time

Figure 8: Displaying current date and time

4.2 Viewing , creating and combining files.

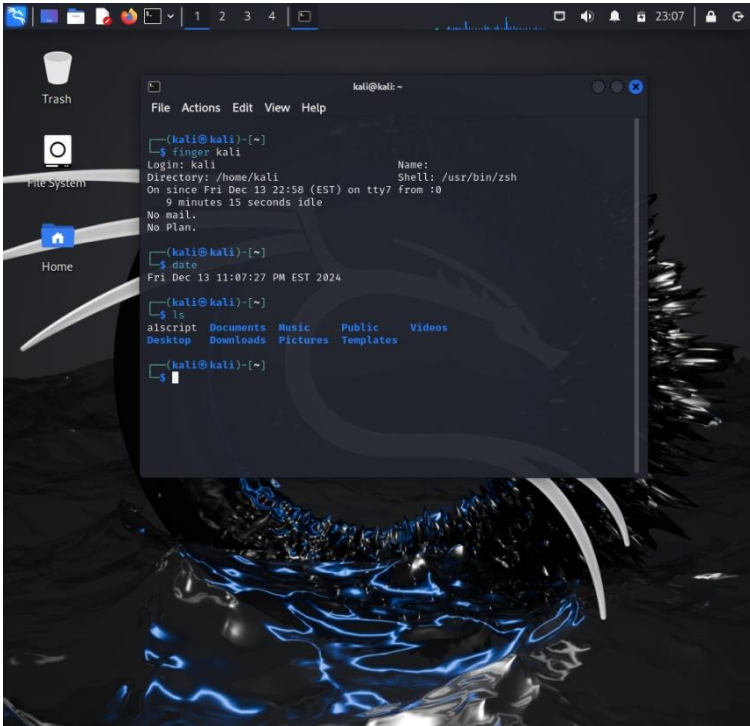


Figure 9: viewing files and directories

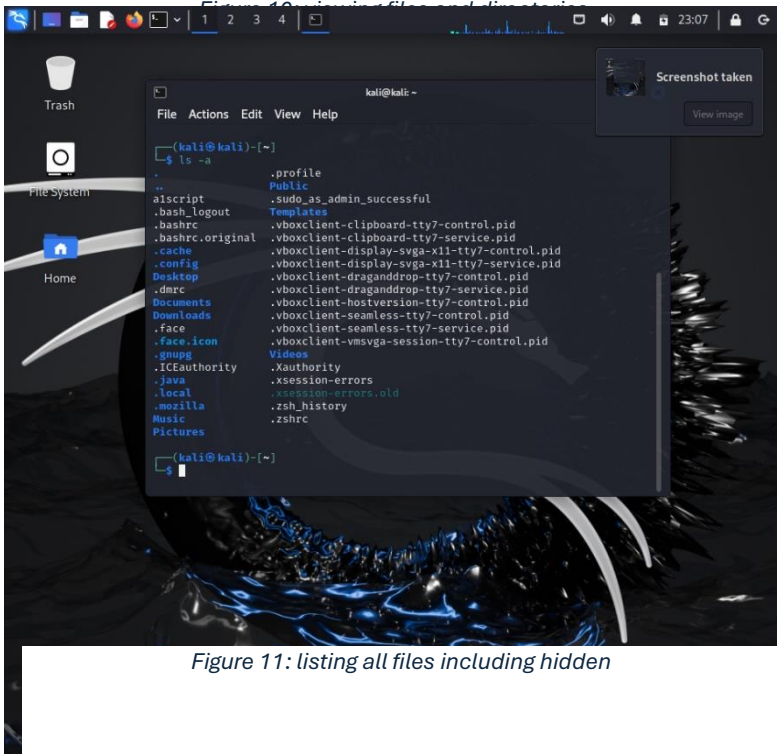


Figure 11: listing all files including hidden

Figure 12: listing all files including hidden



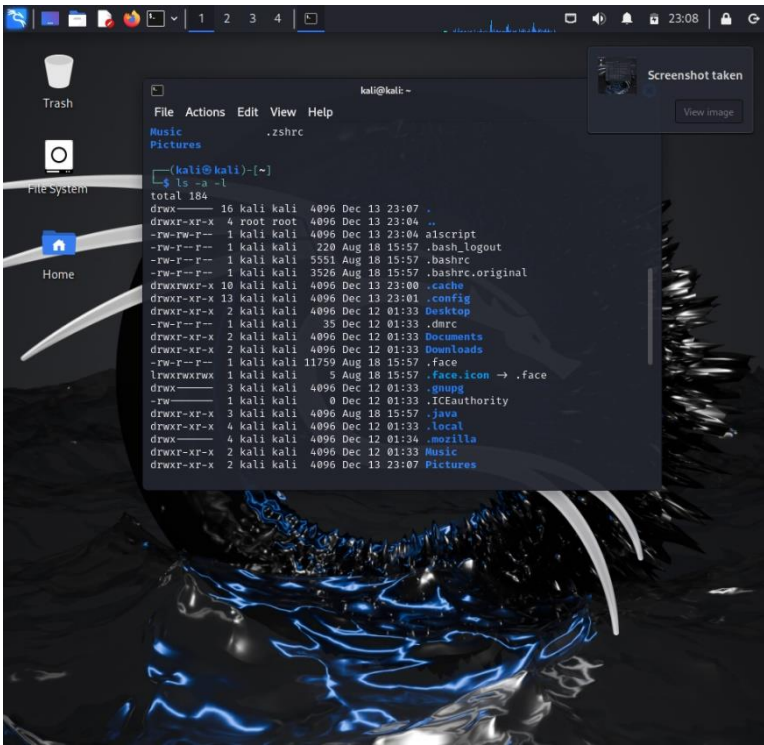


Figure 13: listing files with detailed information

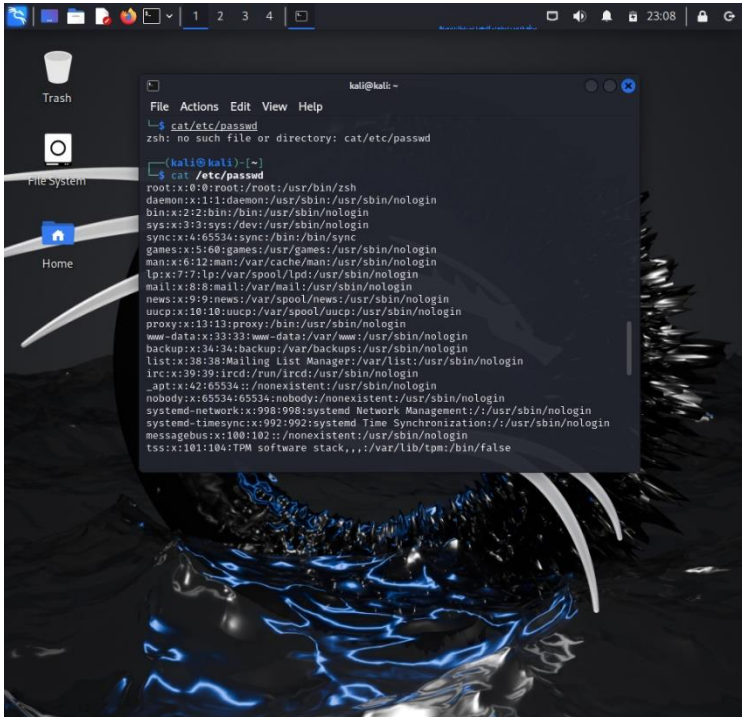


Figure 15: viewing contents of system file

Figure 16: viewing contents of system file

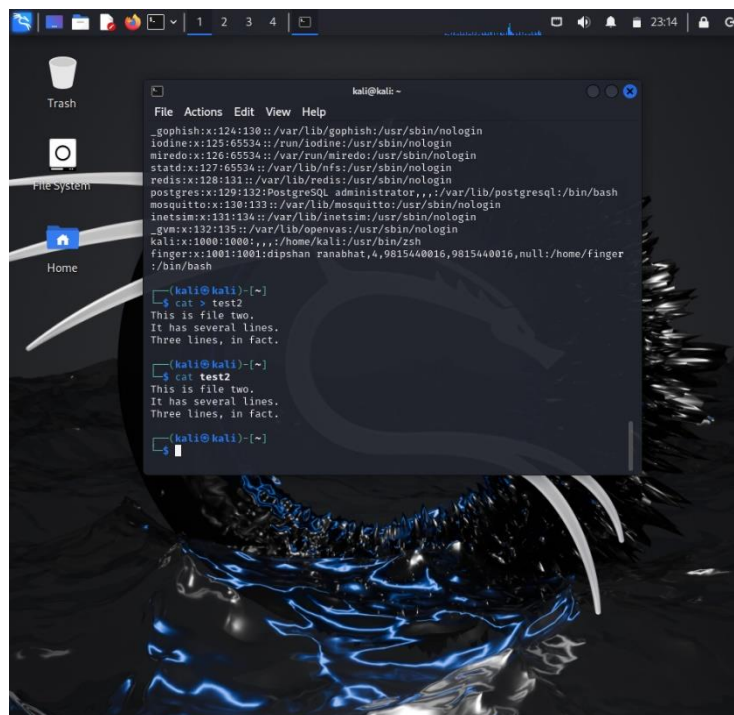


Figure 17: creating multi line file and viewing the content

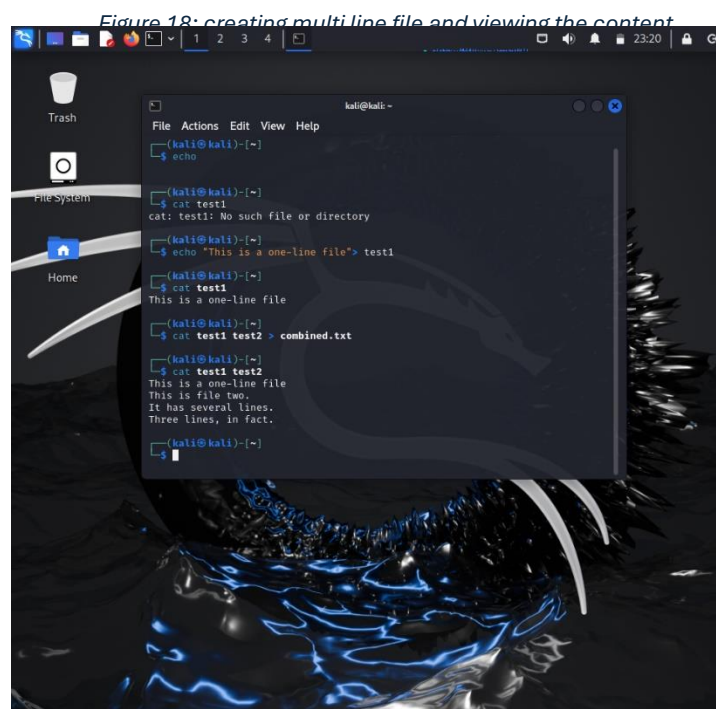


Figure 18: creating multi line file and viewing the content

Figure 19: creating one line file and combining it with multi line file

Figure 20: creating one line file and combining it with multi line file



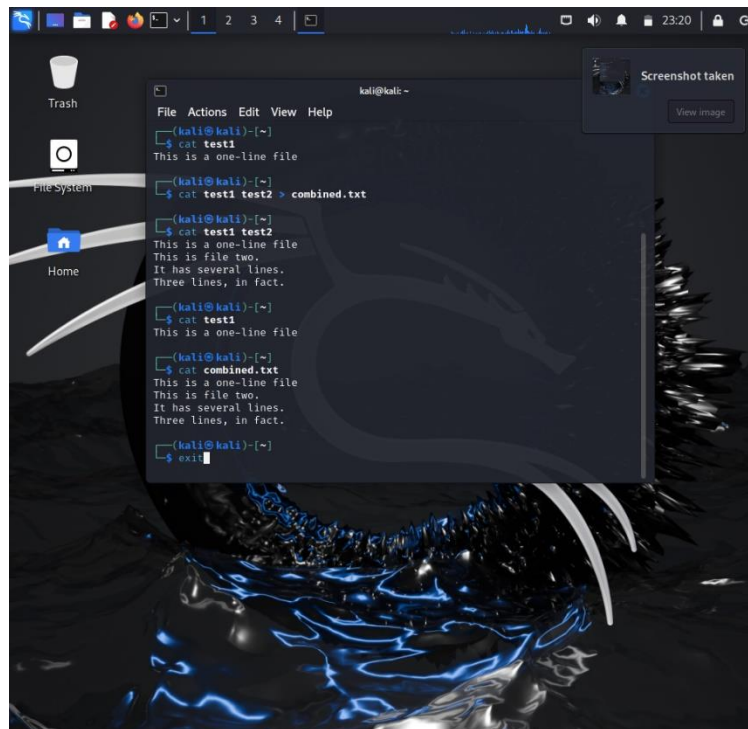


Figure 21: Exiting the Script

## 5. Conclusion

Finally , we have learned some basic and fundamental linux commands for system navigation, viewing the user information and management of files.

## 6. References

(KALI)

(What is in Oracle VM VirtualBox Enterprise)