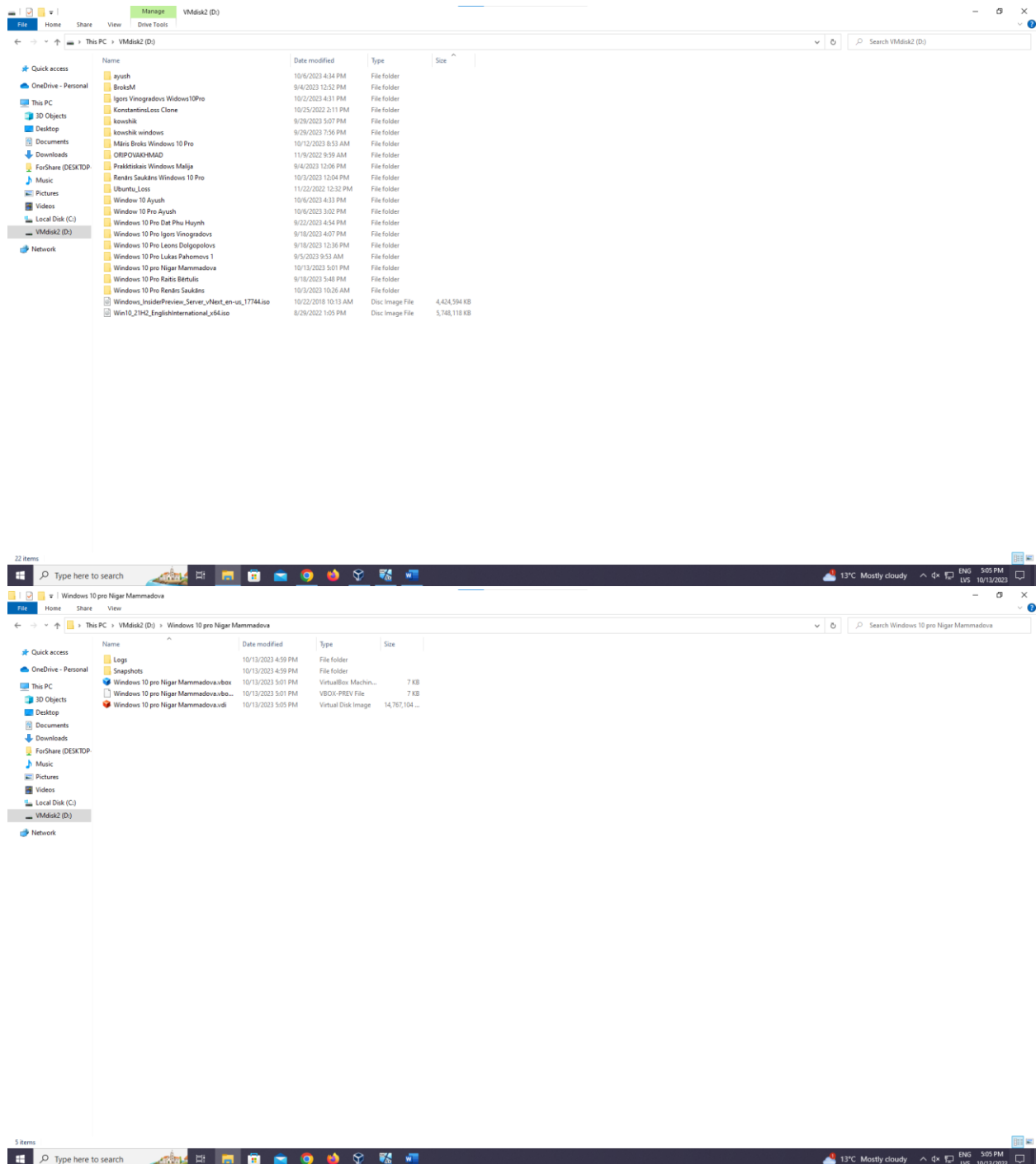
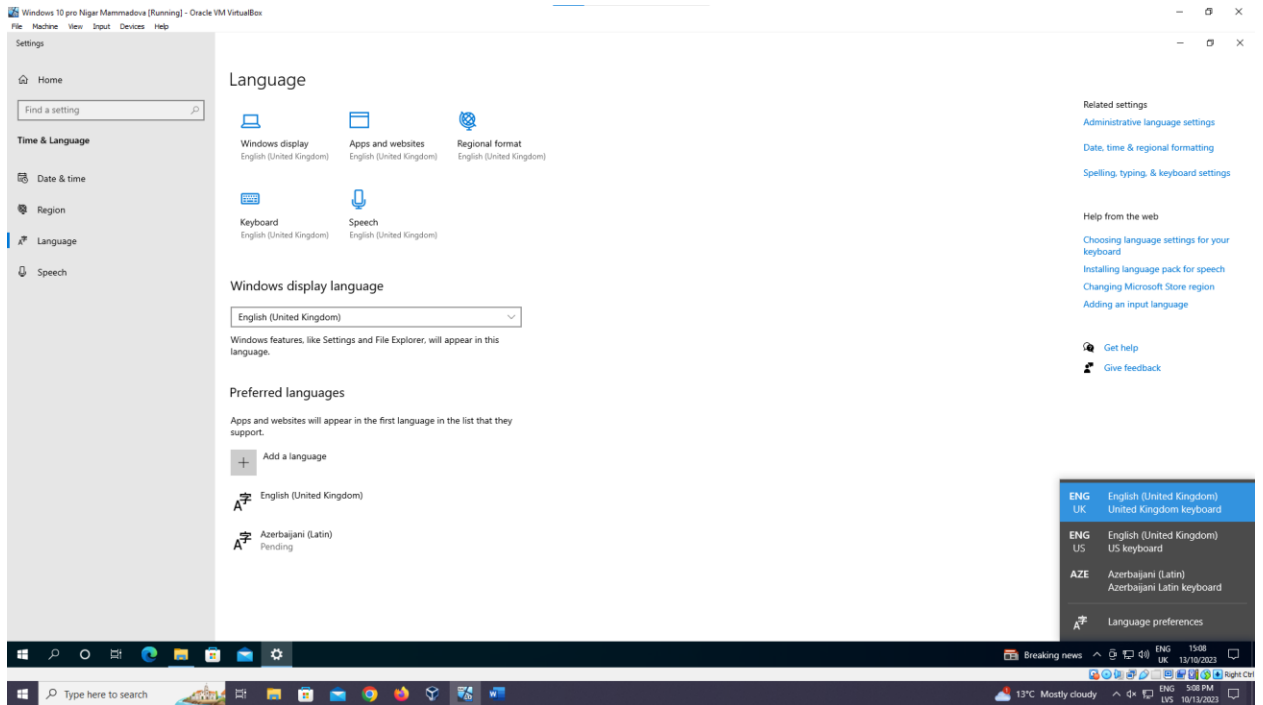


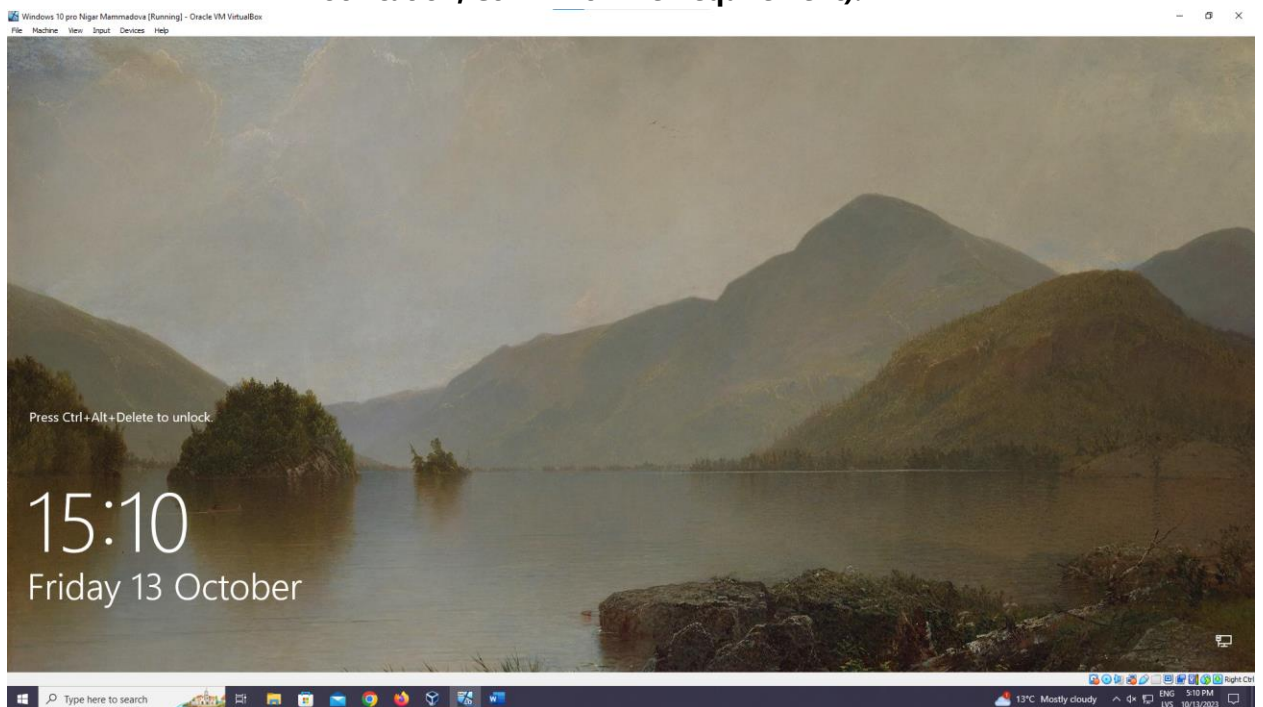
0) Download the installation .iso image from the Microsoft website or use provided by the instructor. Installation of Windows 10/11 Pro/ Edu on Virtual Machine Platform (at first you should create VM).

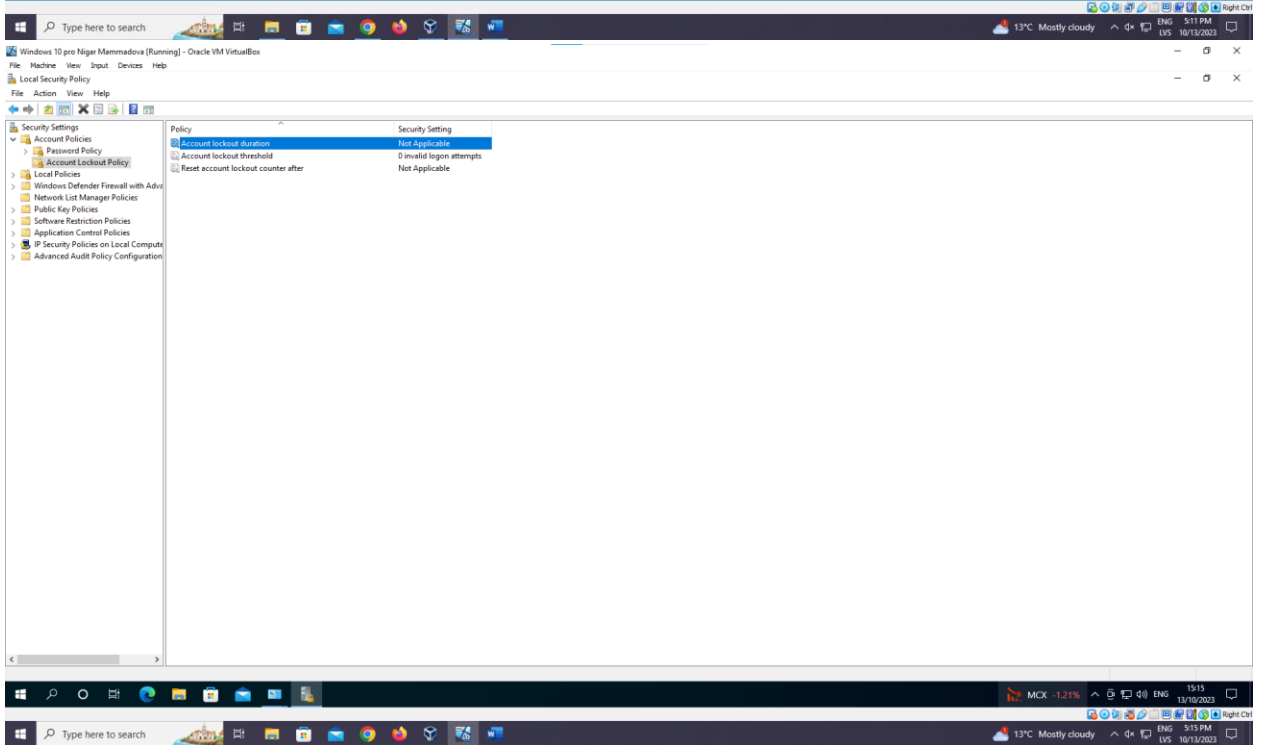
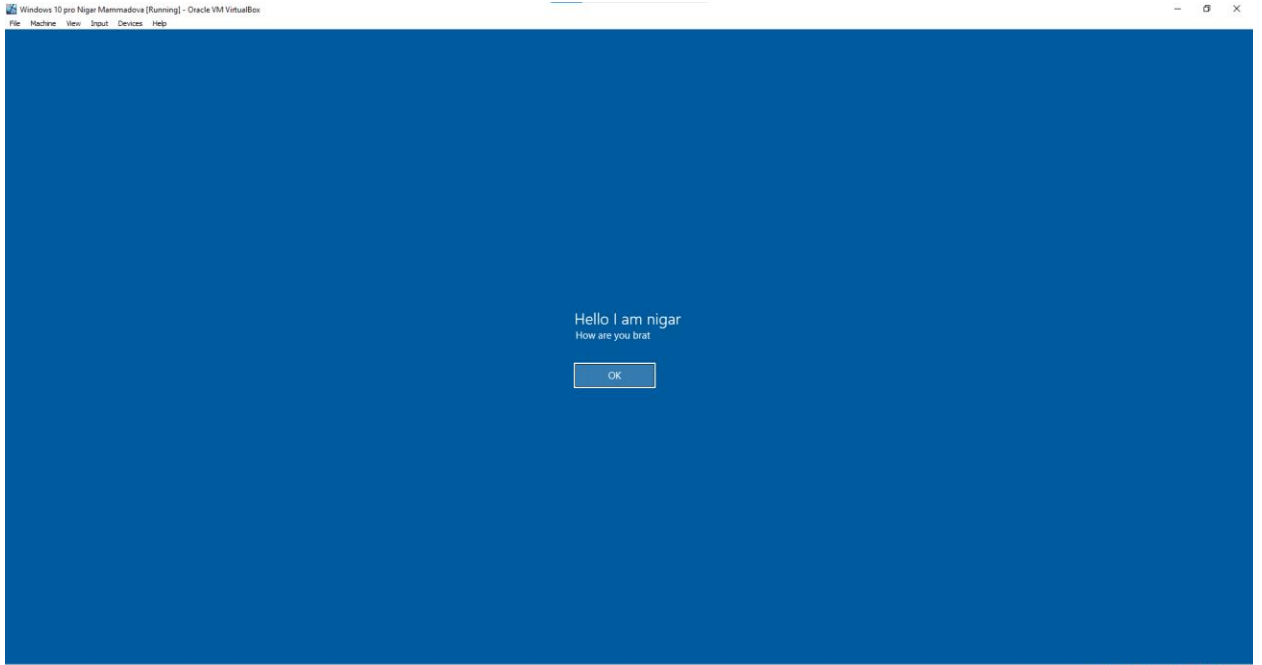


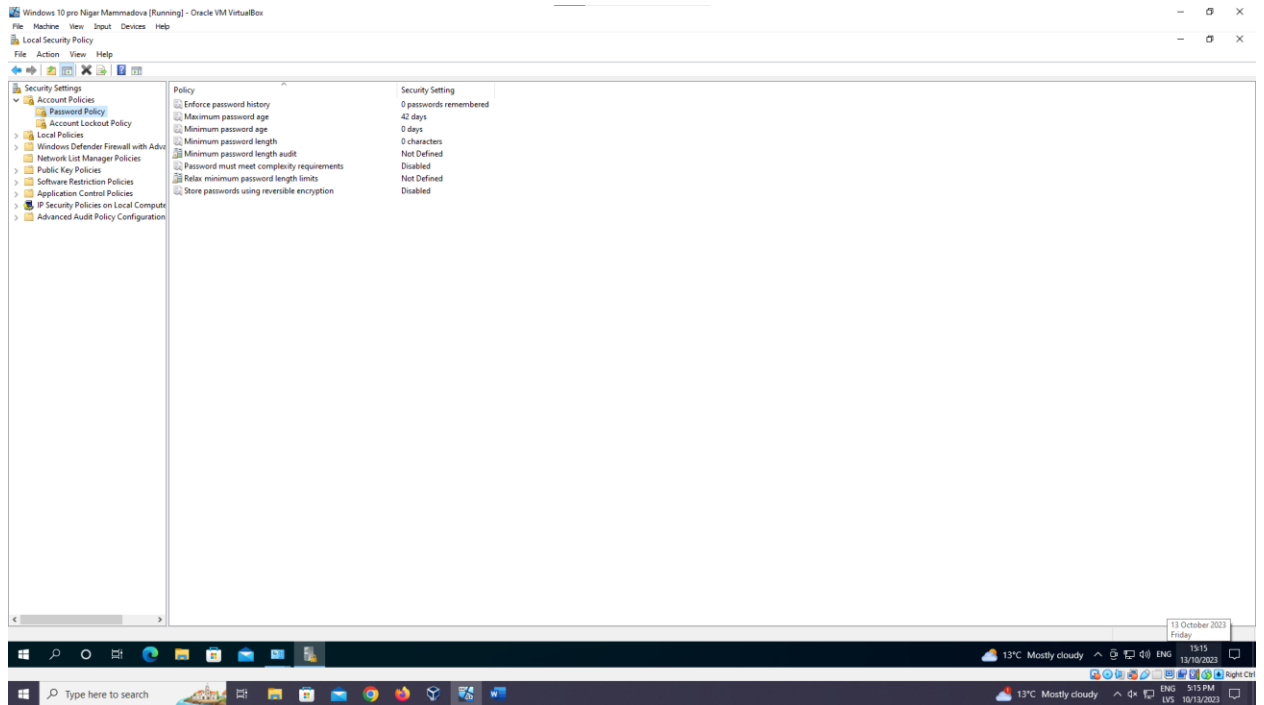
1) Language (Microsoft language pack with keyboard for English and Your language too, regional, network, antivirus, firewall, MS update, System Restore settings, other Settings options exploration



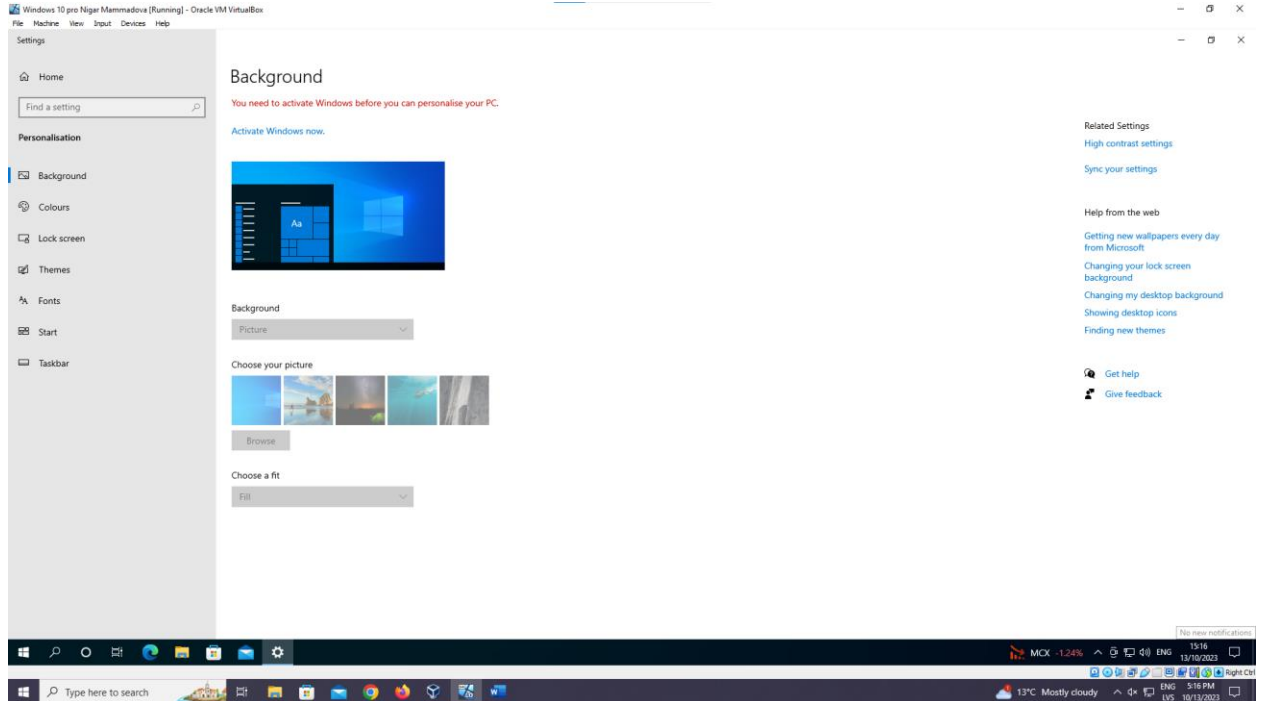
2) Local security policy / rules (password requirements, lockout account rules, system login notification, Ctrl + Alt + Del requirement).

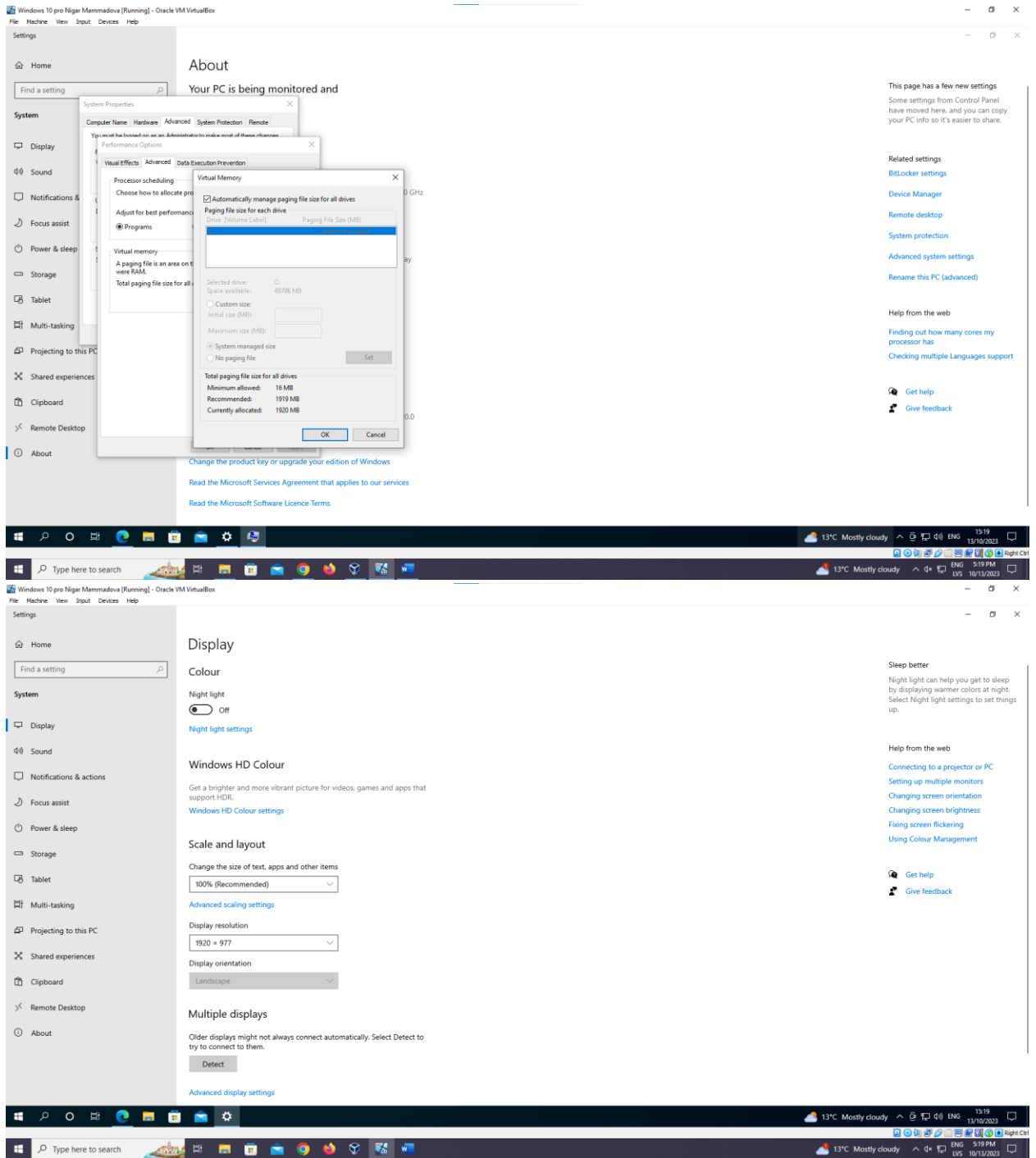


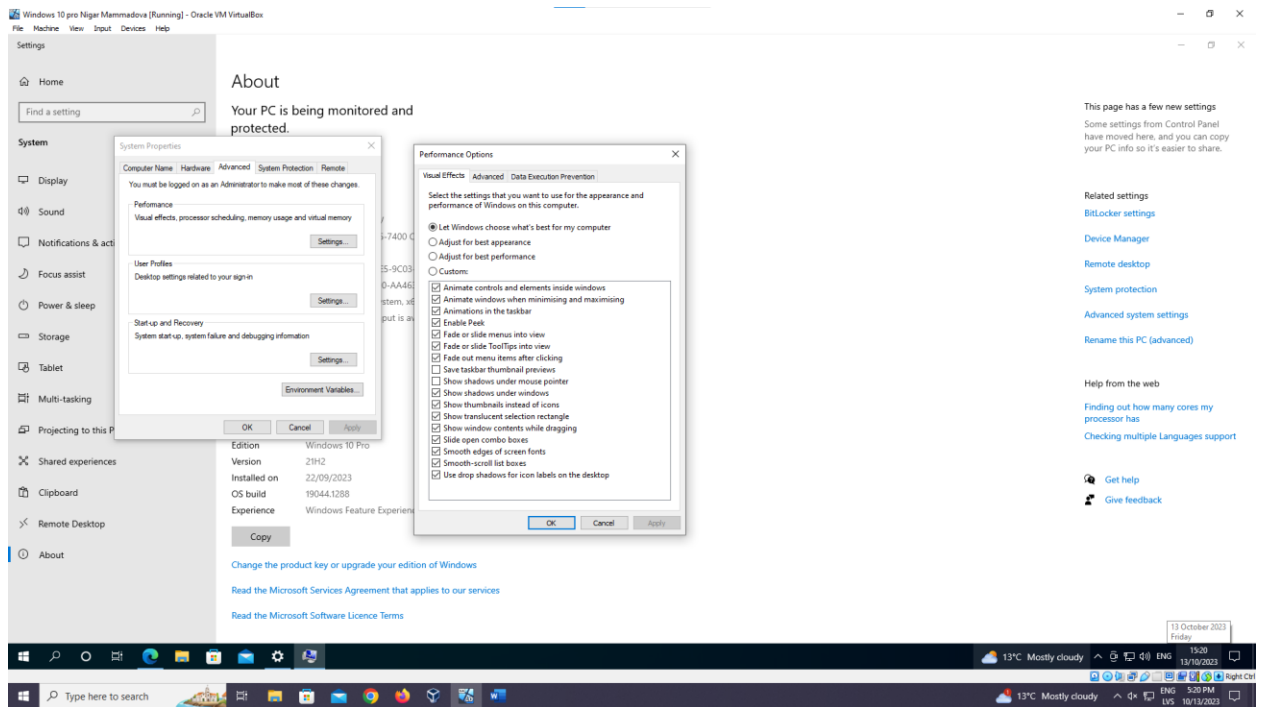




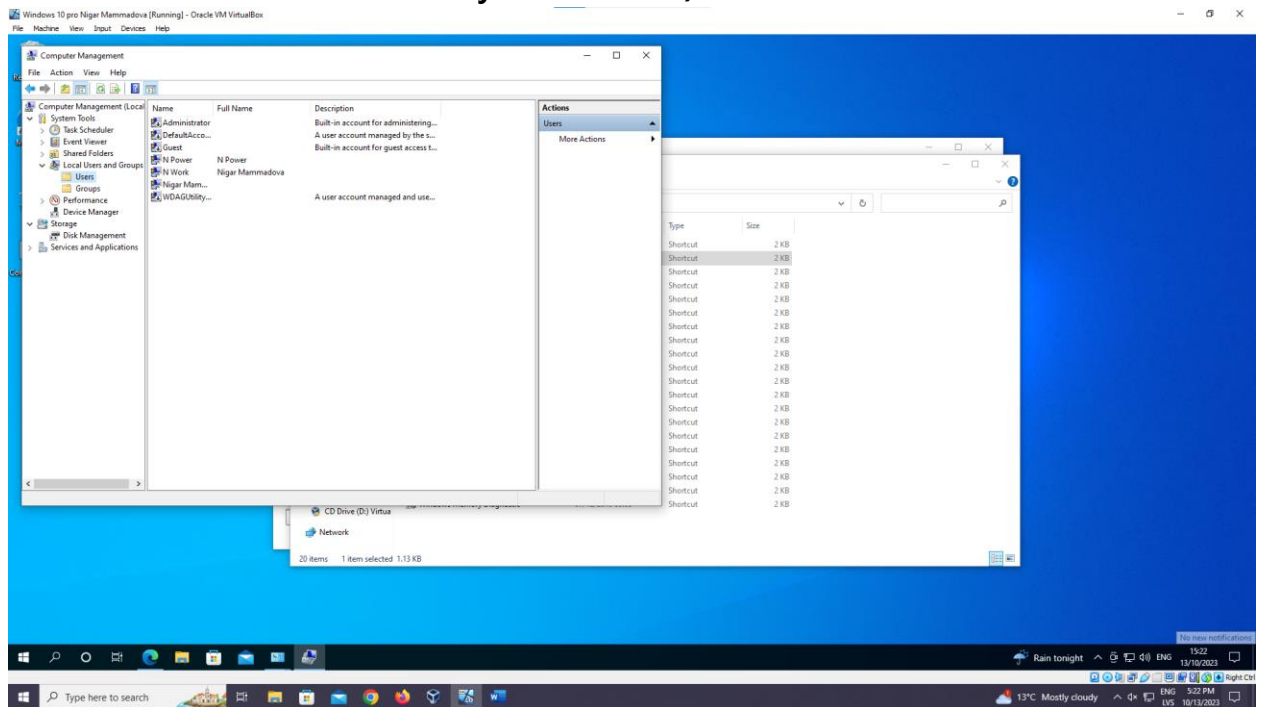
3) Graphical interface optimization / modification, virtual memory file settings, display settings, Exploration of the Modern UI (Metro) interface, display settings, eg color adjustment (Calibrate Your Display; System/ Performance).

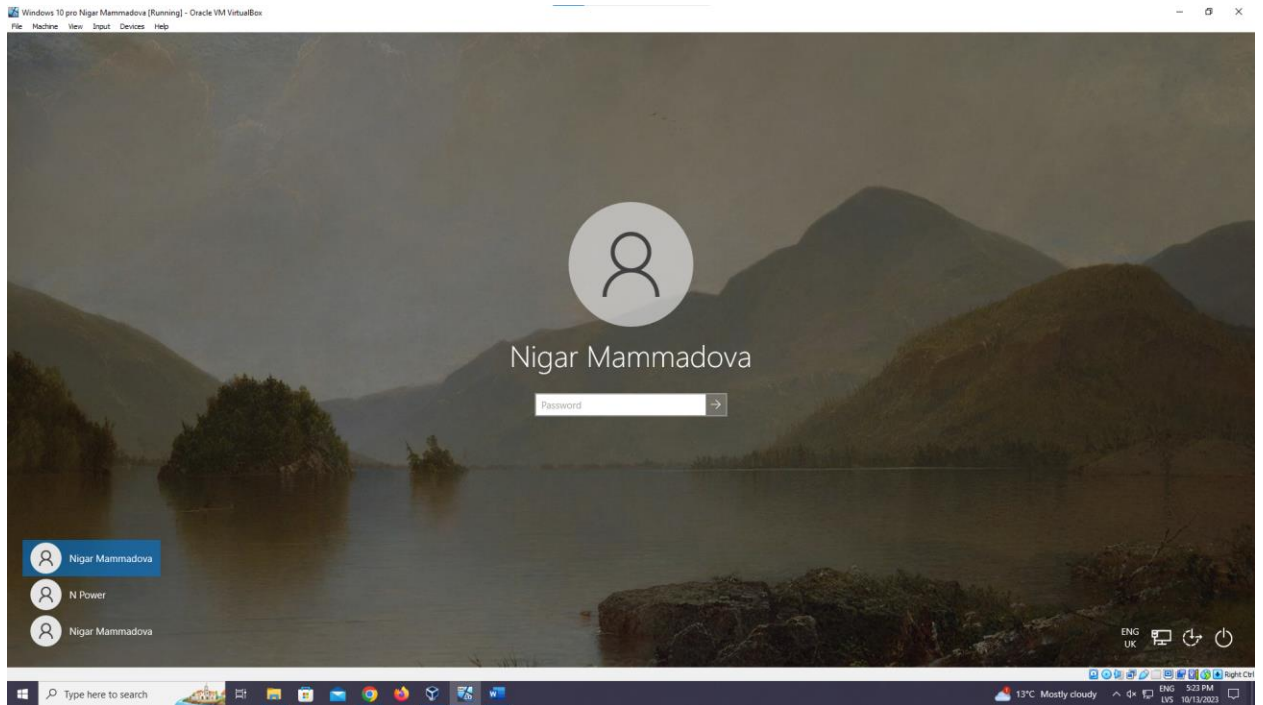




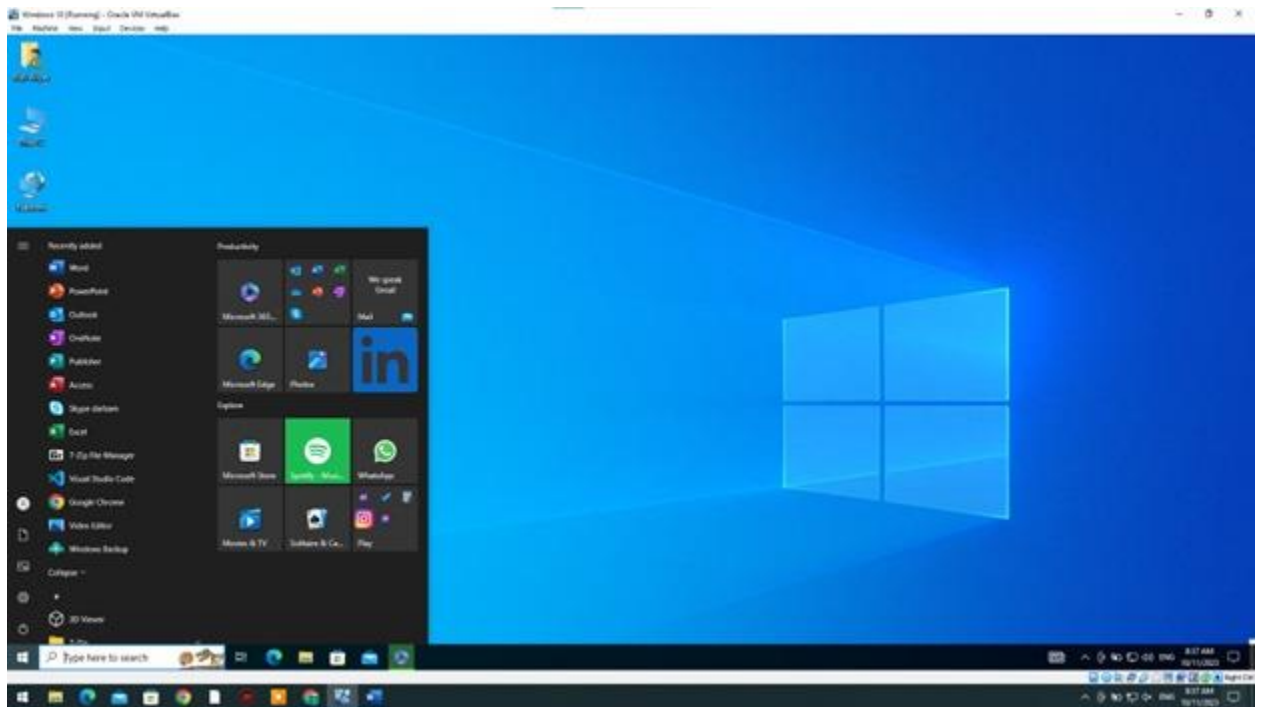


4) **Creating user accounts (second administrator or Power User and 2 standart users), users' home folders must be created so that other users can not access them (see NTFS security, a new user folder is automatically created when this user logs on to the system first time).**

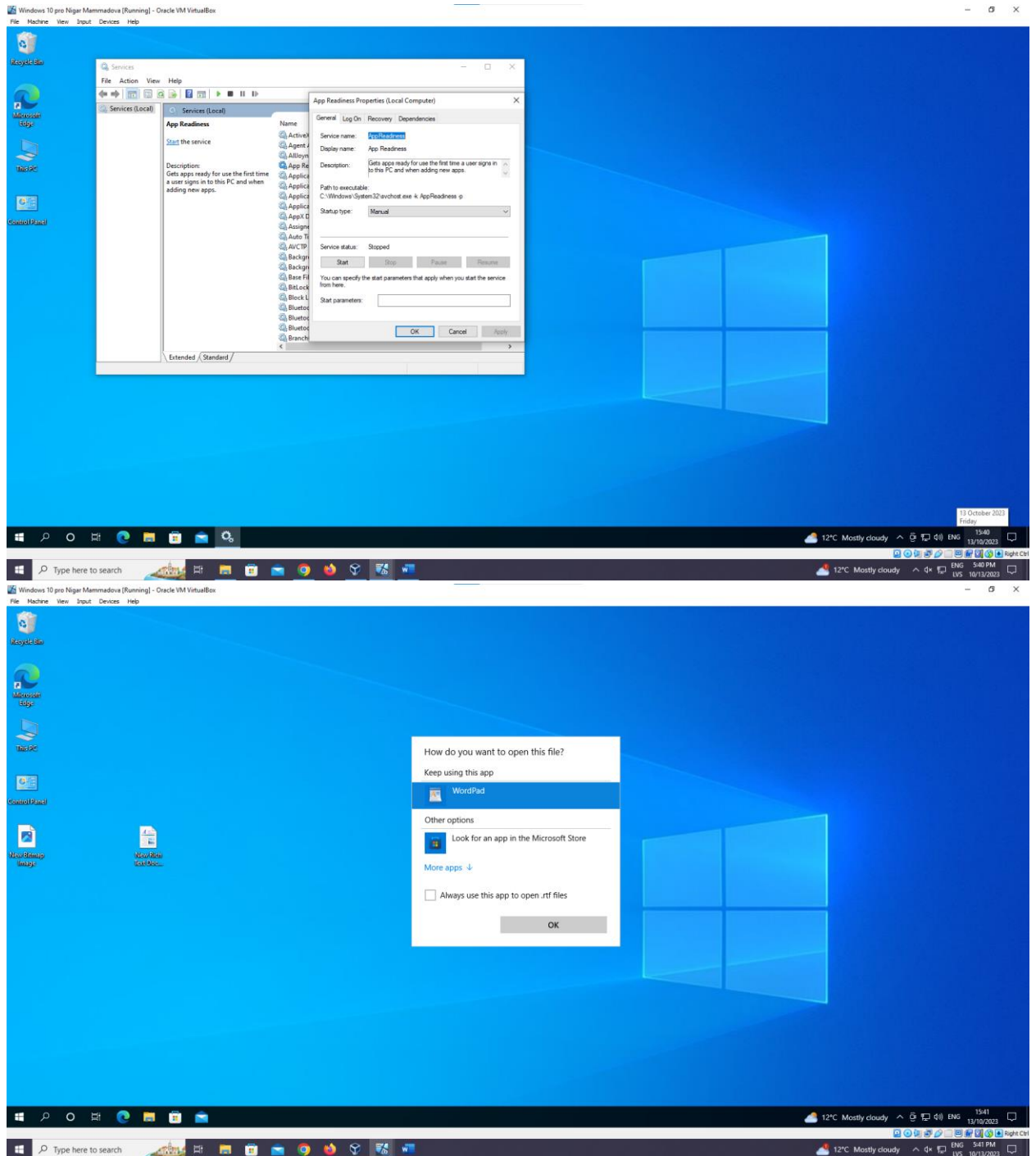




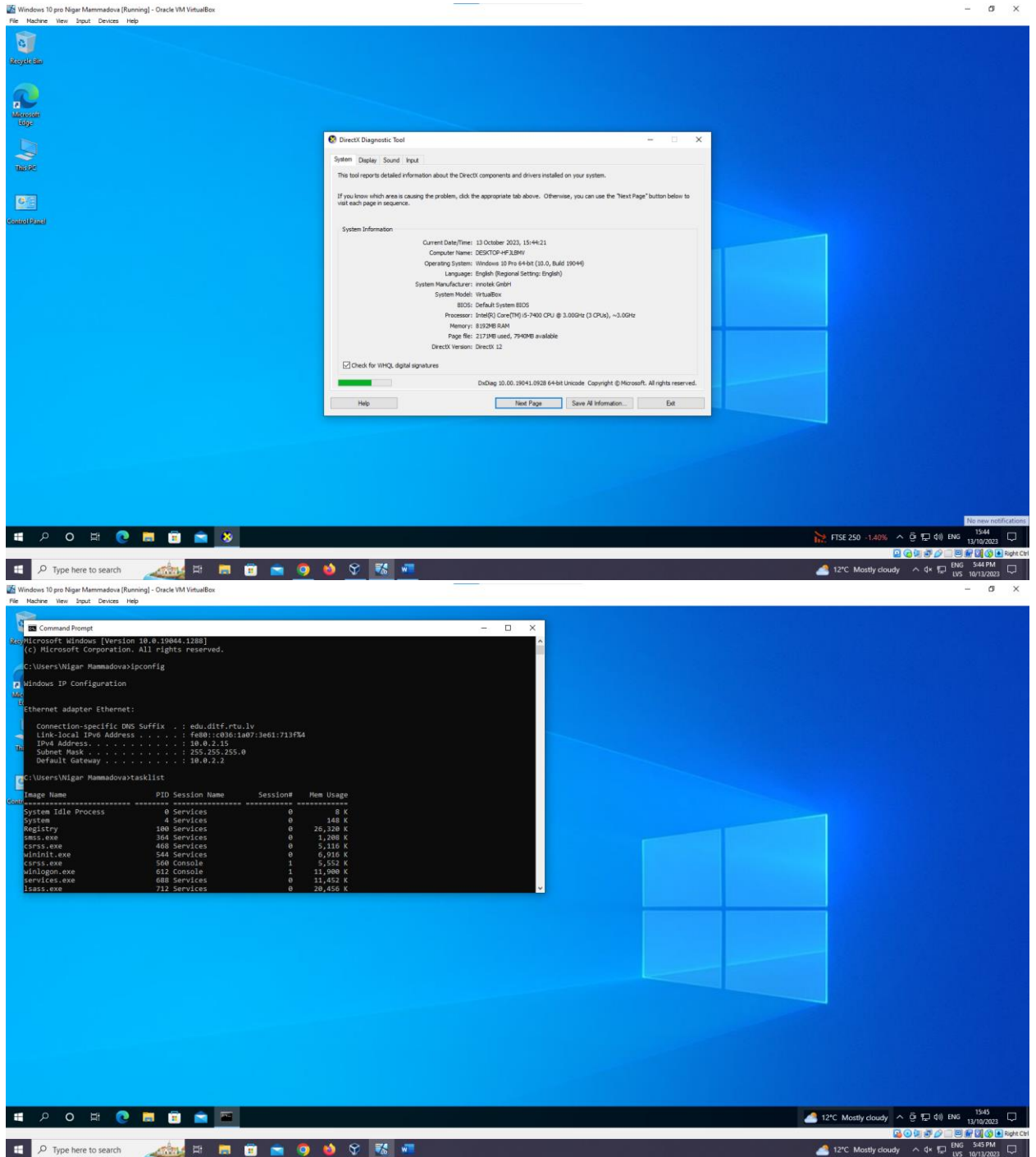
5) Office **software installation**: Office 365 or Office 2016+ trial (or OpenOffice.org), graphics and multimedia, etc. programs installation (Firefox, Chrome, Gimp, VLC, Foxit Reader, Programming Tools, 7zip) until your computer can be considered usable for programmer.



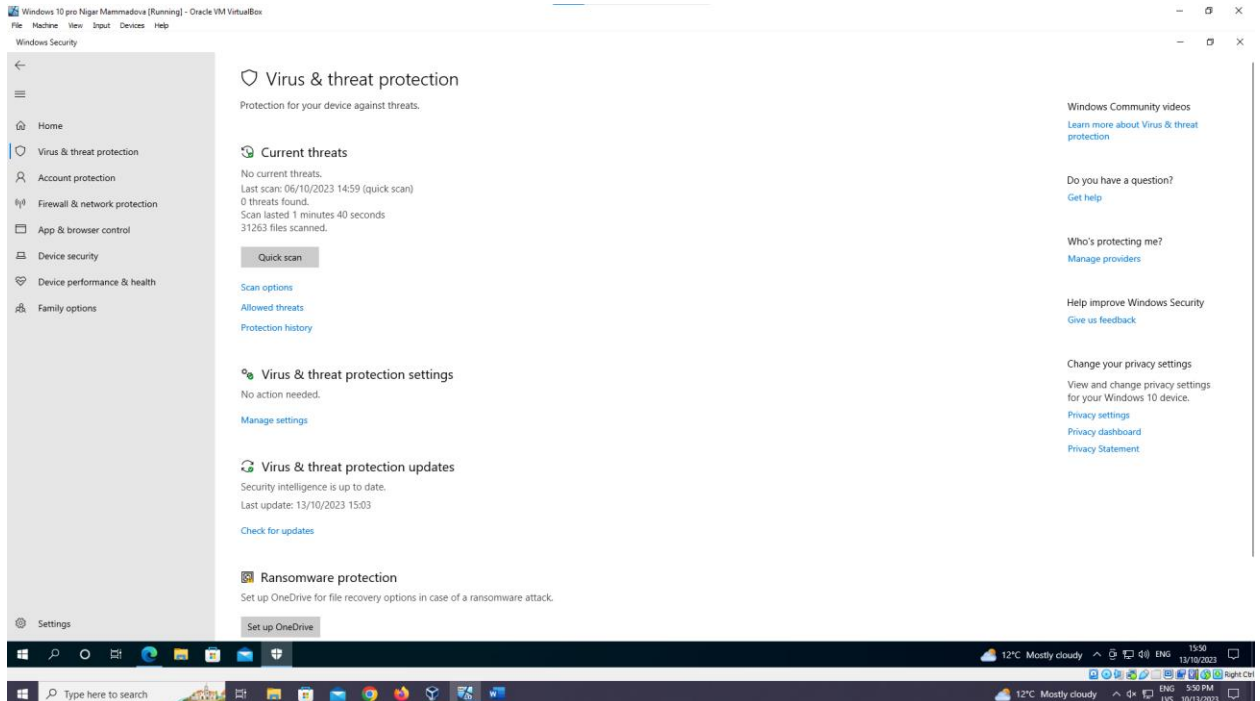
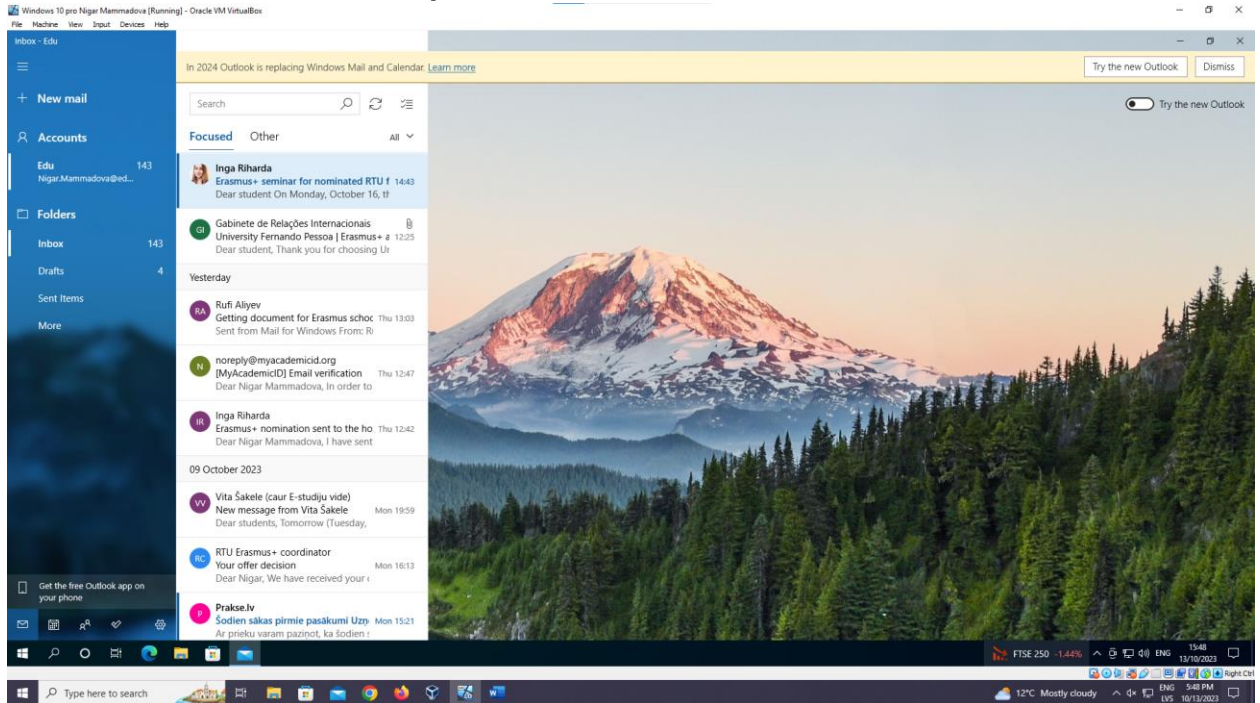
6 Exploring some typically unused service suspension options in Services (no longer very relevant), Task Manager. **Customize Windows** default programs, such as change default programs for opening pdf in Desktop window program, not Modern UI.



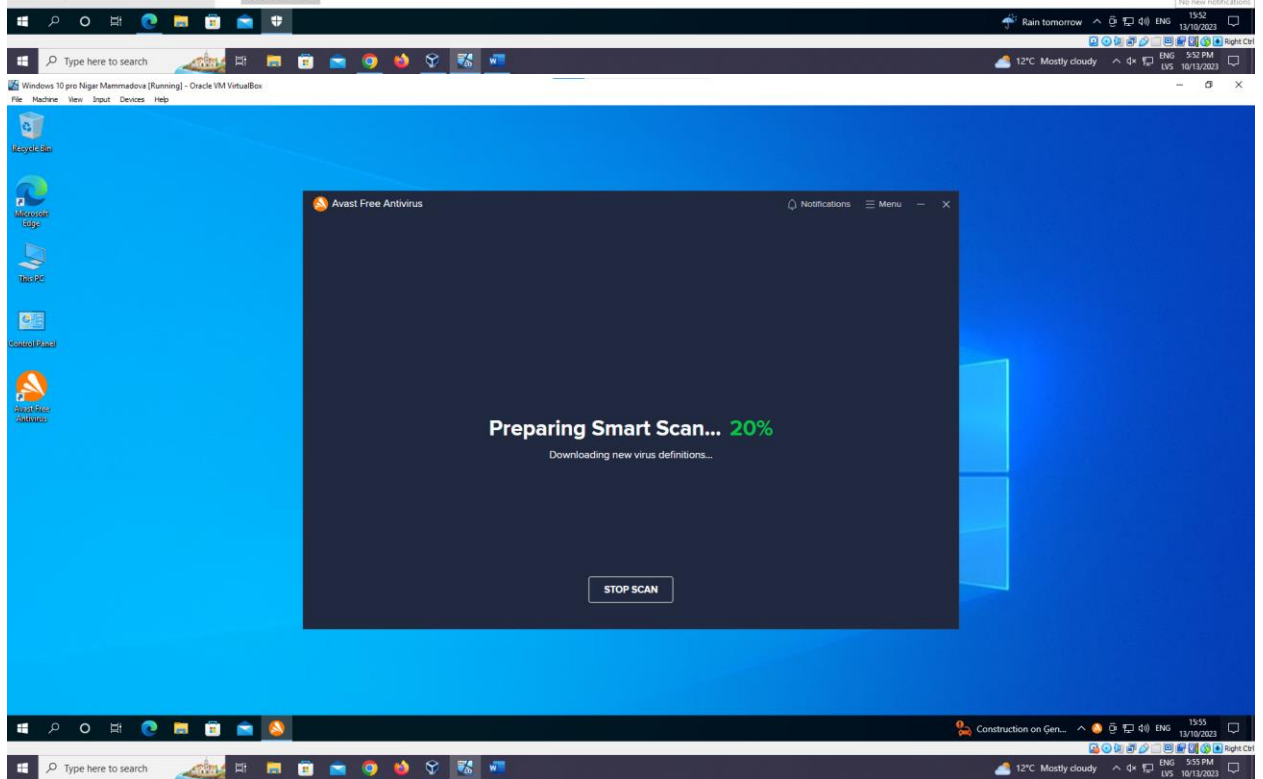
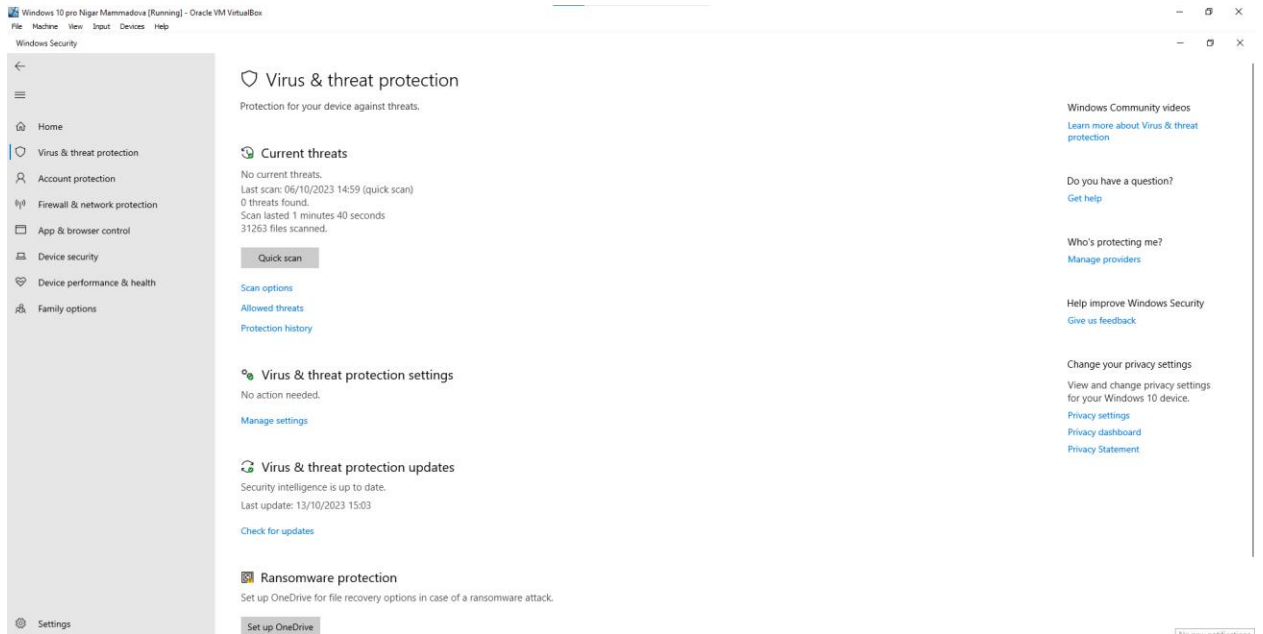
**7) Perform Direct X diagnostics and try to run multiple utilities from the command line.
Completely do command line exercises from file "Windows 10/8.1 commandline
interface CLI, commands, tools".**



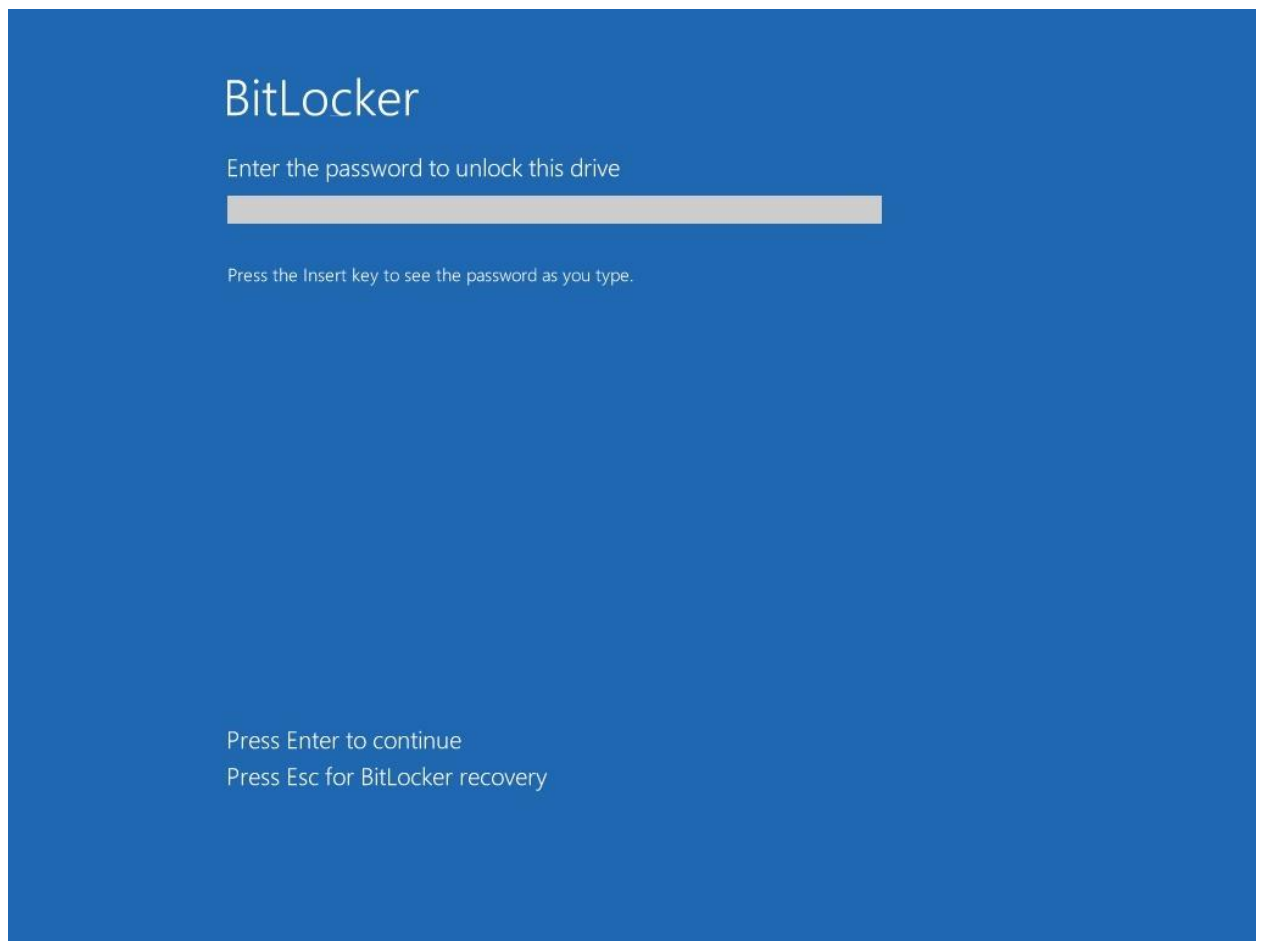
8) Configuring the e-mail client program Mail to work with RTU or other e-mail (make sure that copies of mails remain on the server).



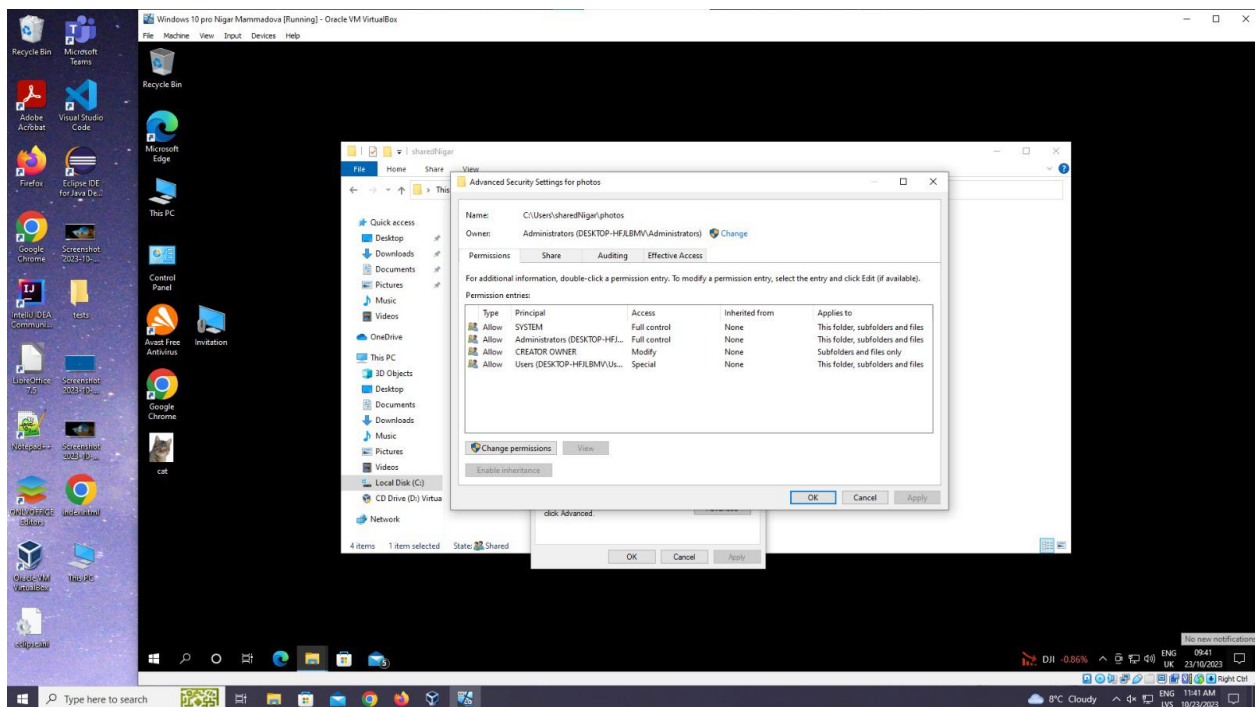
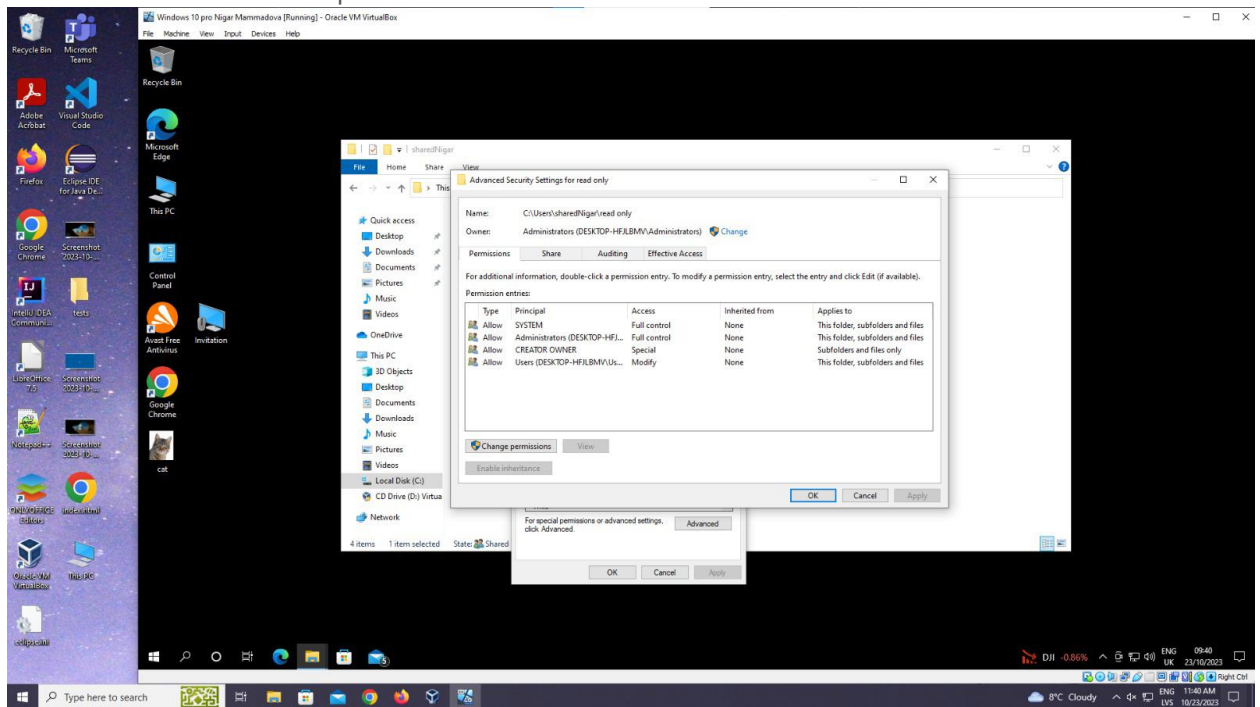
9) Configure free antivirus (can be non-real-time Clam AV from <http://www.clamwin.com/>) and Windows built-in antivirus and firewall.

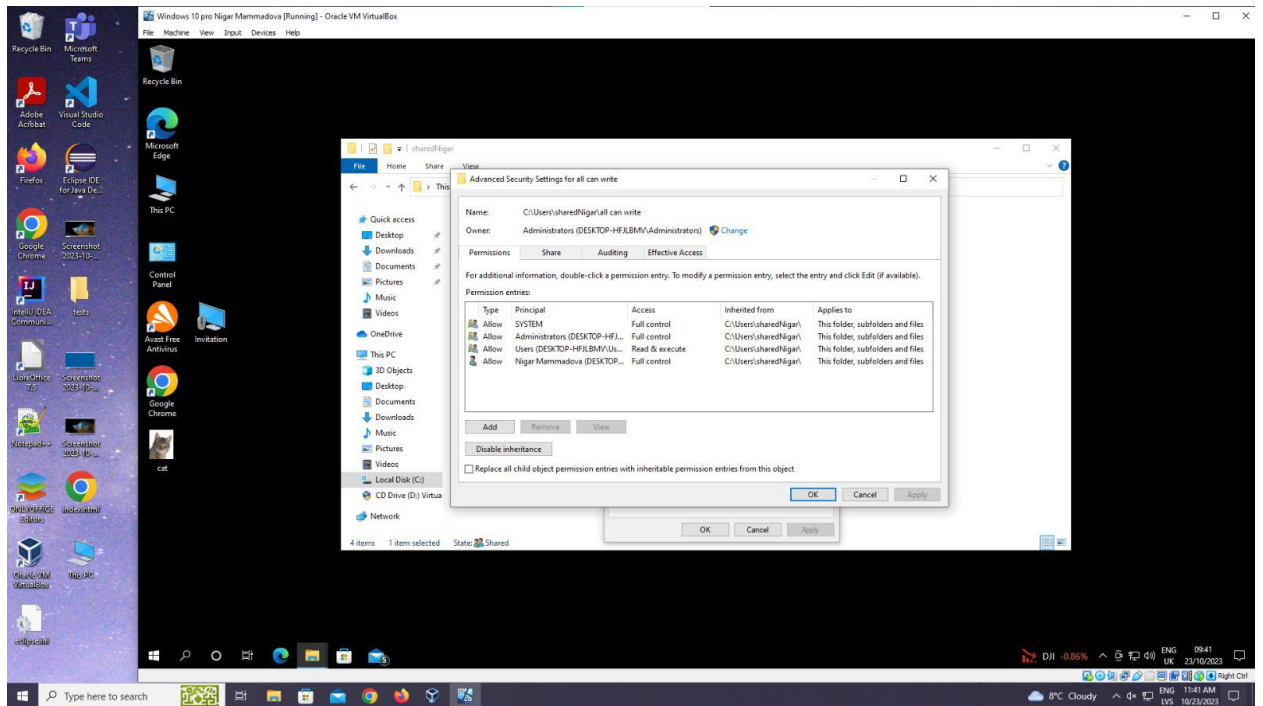
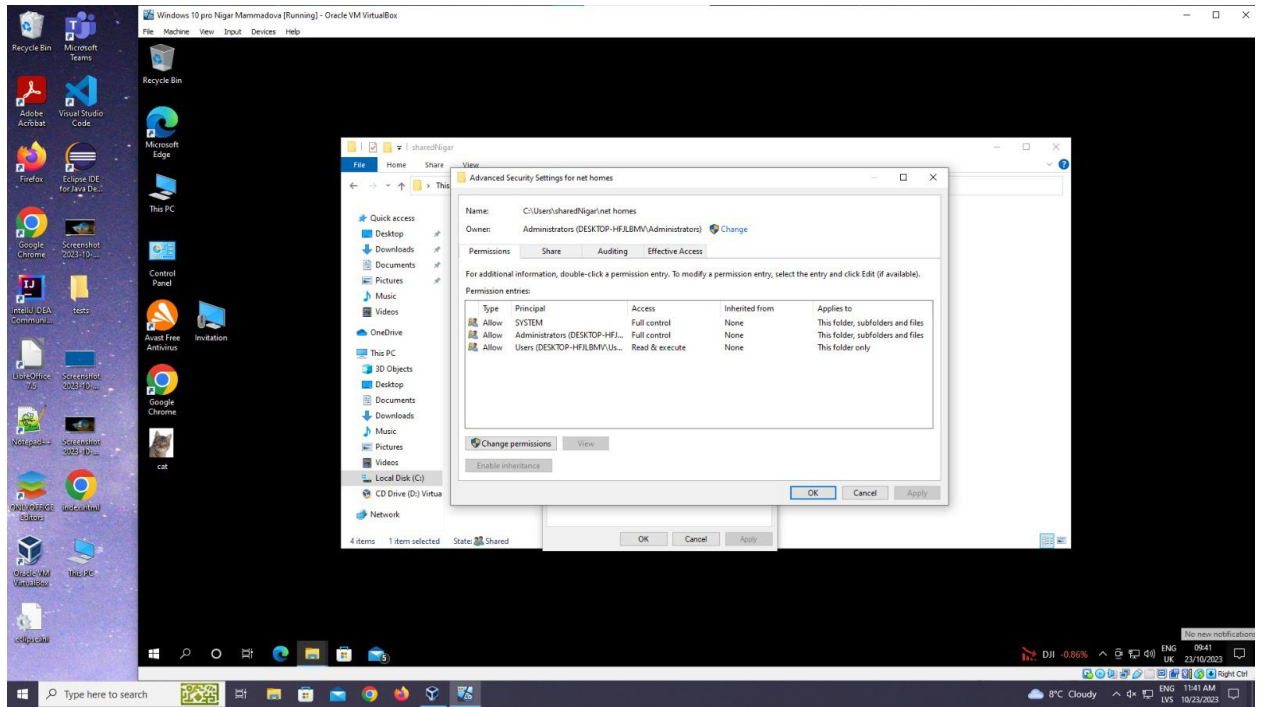


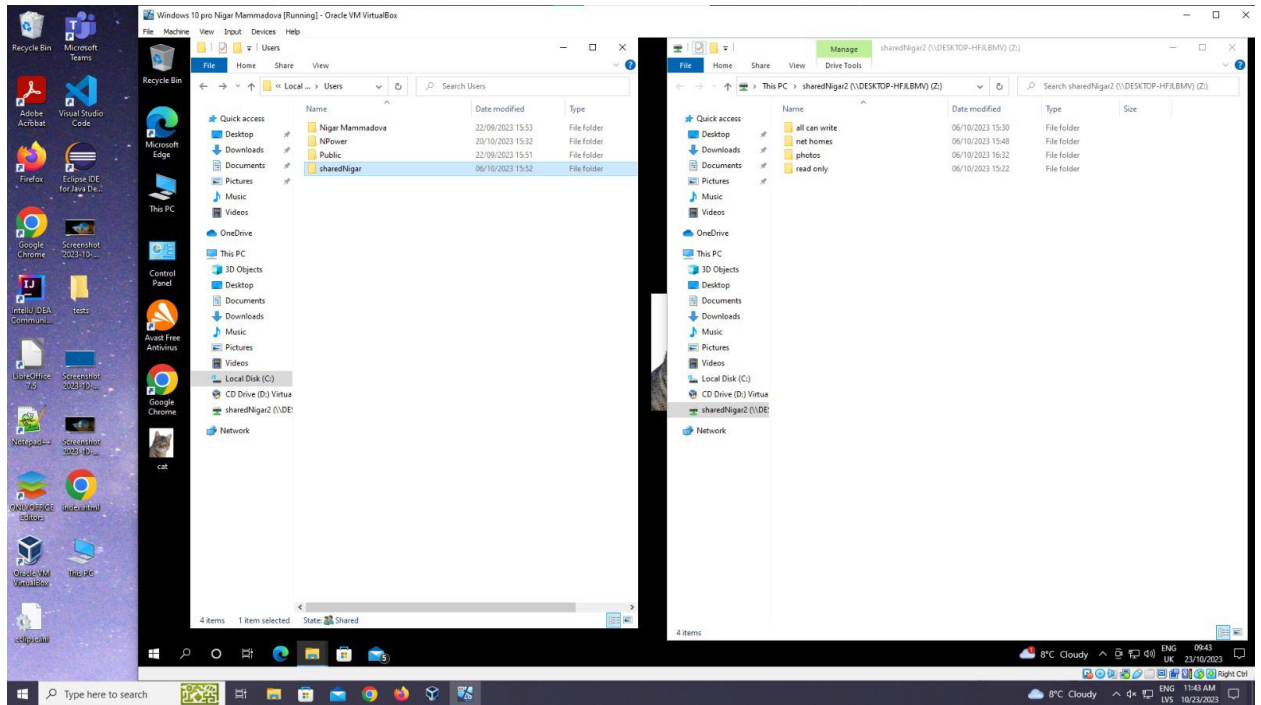
- 10) Windows **backup**, encryption of the whole disk or some folders or flash memory with **Bitlocker**.



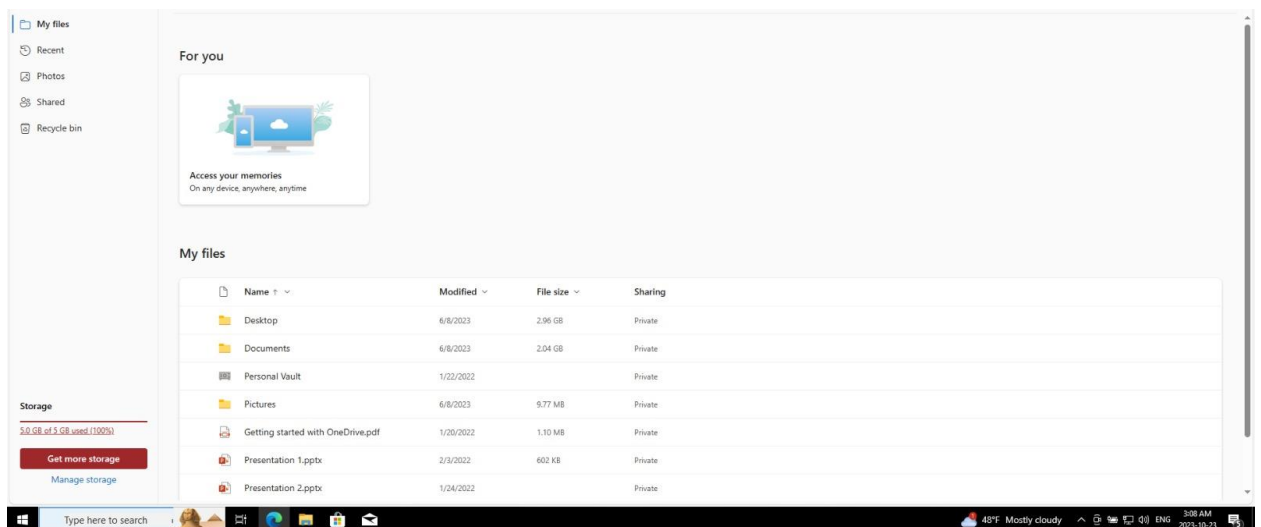
11) Creation of a **Shared Resource** (focus on the correct rights for both "Share" and NTFS), picture with folders structure see below:

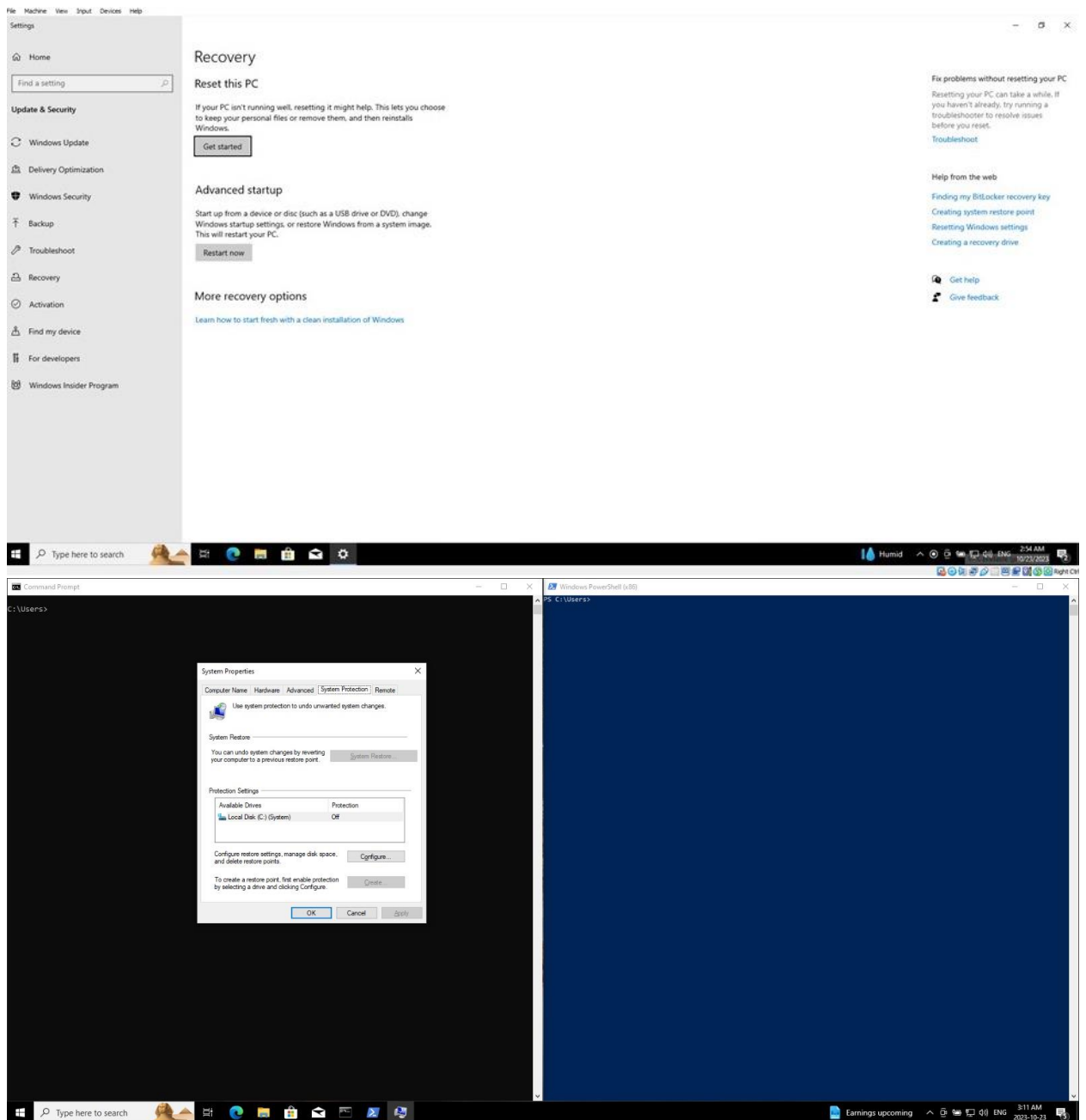




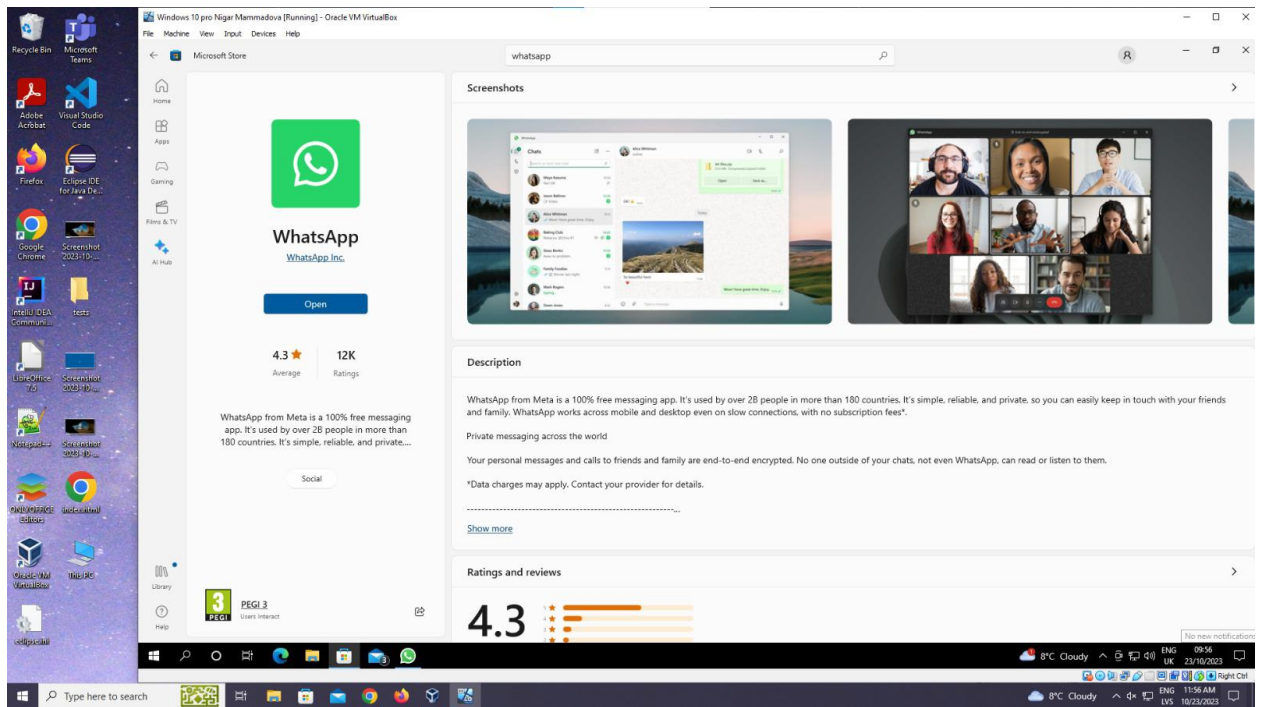


12) Get to know the **new features** of Windows 10/11: new hotkeys, OneDrive (formerly SkyDrive), social networking integration, Restore and Reset your PC, Restore point creation, find, Semantic Zoom, APPLocker, etc. what interesting, such as Windows To Go, MSDaRT - Microsoft Diagnostics and Recovery Toolset, which contains Crash Analyzer and ERD Commander, find any useful PowerShell or CMD commands or some new in Windows 11.

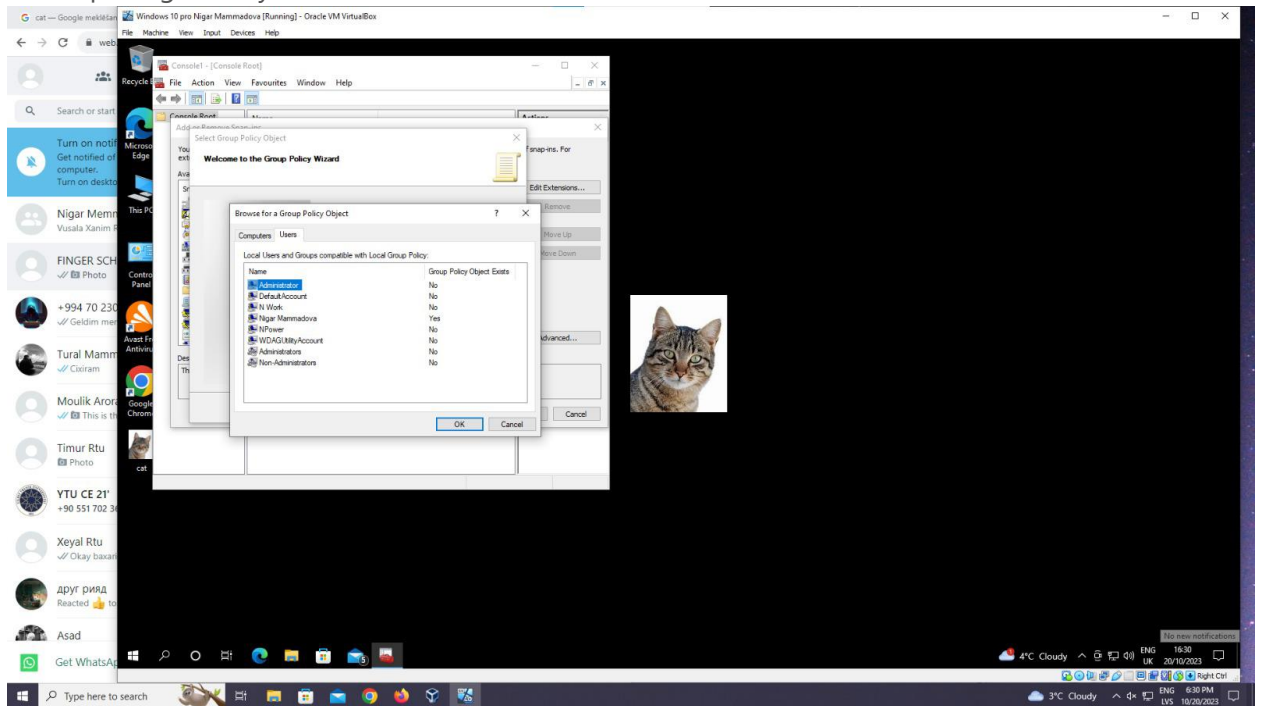




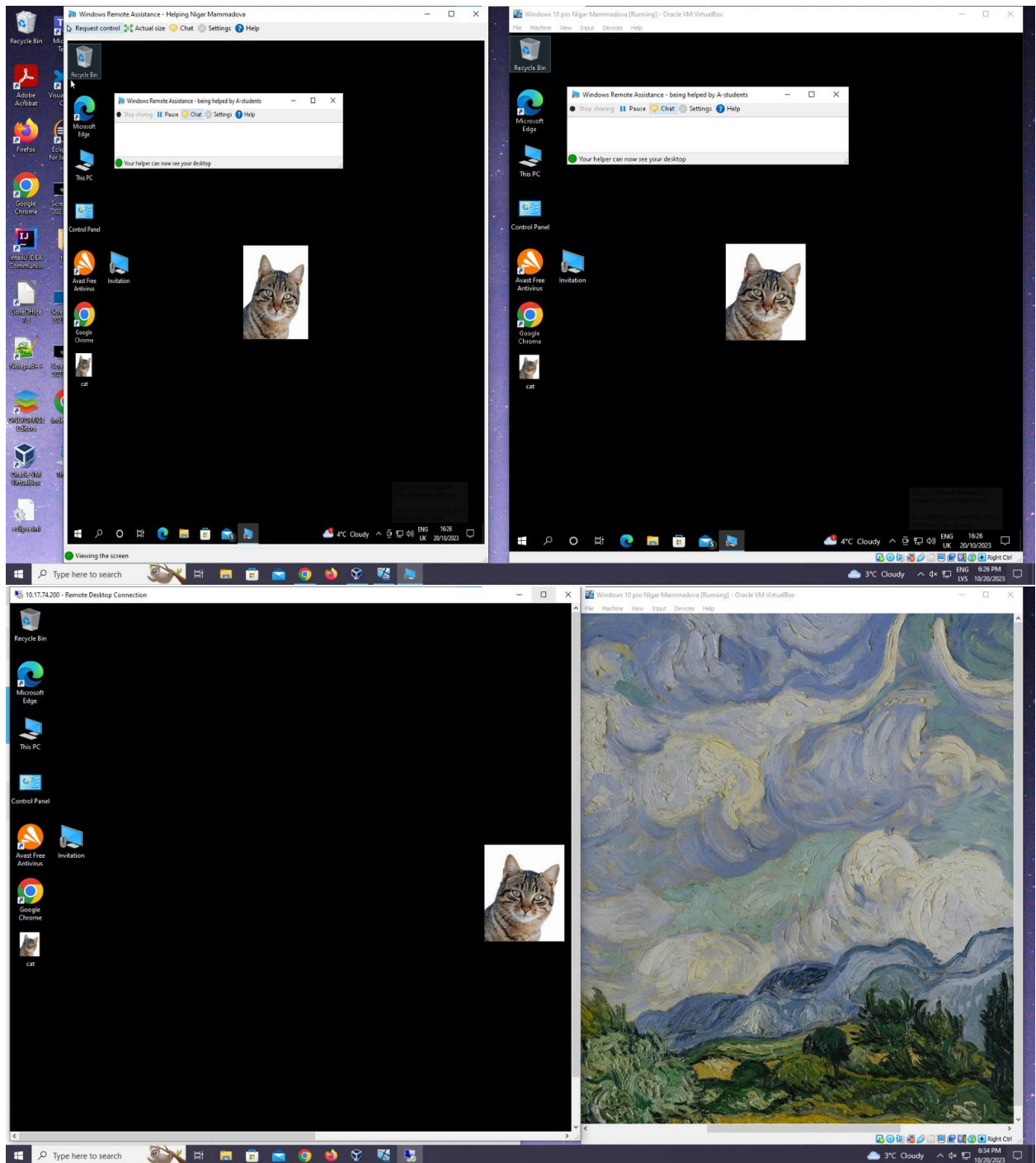
13) "Buy" a **free app** in the Microsoft Store.



14) Open the **mmc** console and edit the policy of one user so that he cannot change the desktop image set by the administrator, test the result.



15) Remote Desktop, Remote Assistance.



Conclusion:

I configured and optimised my Windows operating system, beginning with a virtual machine installation and progressing through regional settings, network, firewalls, and antivirus. Password requirements and Ctrl + Alt + Del login were added to local security policies. I improved the user experience by optimising the graphical interface, changing the display settings, and managing users, as well as using NTFS permissions to safeguard personal files.

Productivity tools and software for numerous activities, including programming, were installed. Service suspension and modified default programmes were used to optimise the system. Email settings, antivirus, and firewall configuration all improved security. Data was protected using Windows backup and BitLocker encryption. I developed shared resources with varied access levels and investigated the most recent Windows features. In addition, for pleasure, I downloaded a free programme from the Microsoft Store. User control was strengthened further by prohibiting users from altering the desktop picture. Finally, I enabled Remote Desktop and Remote Assistance for remote access and support, guaranteeing a full Windows experience.