**INSTALLATION AND CONFIGURATION OF UBUNTU ON VIRTUALBOX**

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**STEPS:**

1. Go to Ubuntu → Get Ubuntu Desktop version <https://www.ubuntu.com/download/desktop> . Check the requirements for the latest and updated version. Hit download.
2. Install Virtualbox → virtualbox.org and go to downloads.

* Get OS X Host for Mac .
* Download [VirtualBox](https://www.virtualbox.org/wiki/VirtualBox) 6.0.14 Oracle VM VirtualBox Extension Pack

1. Now you should have three files in your downloads folder on your system

* Extension pack
* .iso file
* .dmg file

1. Next , go to virtualbox.dmg and click on it to install. You will see virtualbox.pkg icon , double click on it and install.
2. Open VirtualBox. Double-click (or click once on a Mac) the VirtualBox app icon.
3. Go to the preferences , then extensions and click on the add icon to include the extension pack.
4. Click New to create a new virtual machine and set the parameters such as name , select type as Linux and select version as Ubuntu (64 bit). Hit Continue.
5. Next , select the amount of memory (RAM) size 5000Mb and hit continue.
6. Select virtual hard disk option , create it and choose VDI for virtual disk image.
7. Double-click your virtual machine's name and upload Ubuntu ISO file.
8. Click Start to run Ubuntu on VirtualBox.
9. Select appropriate preferences for language , time-zone and other stuff.
10. Enable the on-screen keyboard.
11. Create user profile with following details:

* Name
* Computer Name for your virtual machine
* Username to login
* Password
* Make sure to select require my password to login

1. Now you should be able to see the ubuntu version with a start screen , hit restart.
2. Once your Ubuntu virtual machine is back on, select your name, then enter your password and click **Sign In.**

**HARDENING OF OS:**

1. Do not install the unnecessary packages while installing OS.
2. Enable the firewall → sudo ufw enable
3. To check the firewall status → sudo ufw status
4. Configure iptables- add the rules for allowed inbound traffic for the services you require
5. Install **Clam Antivirus software for Ubuntu**