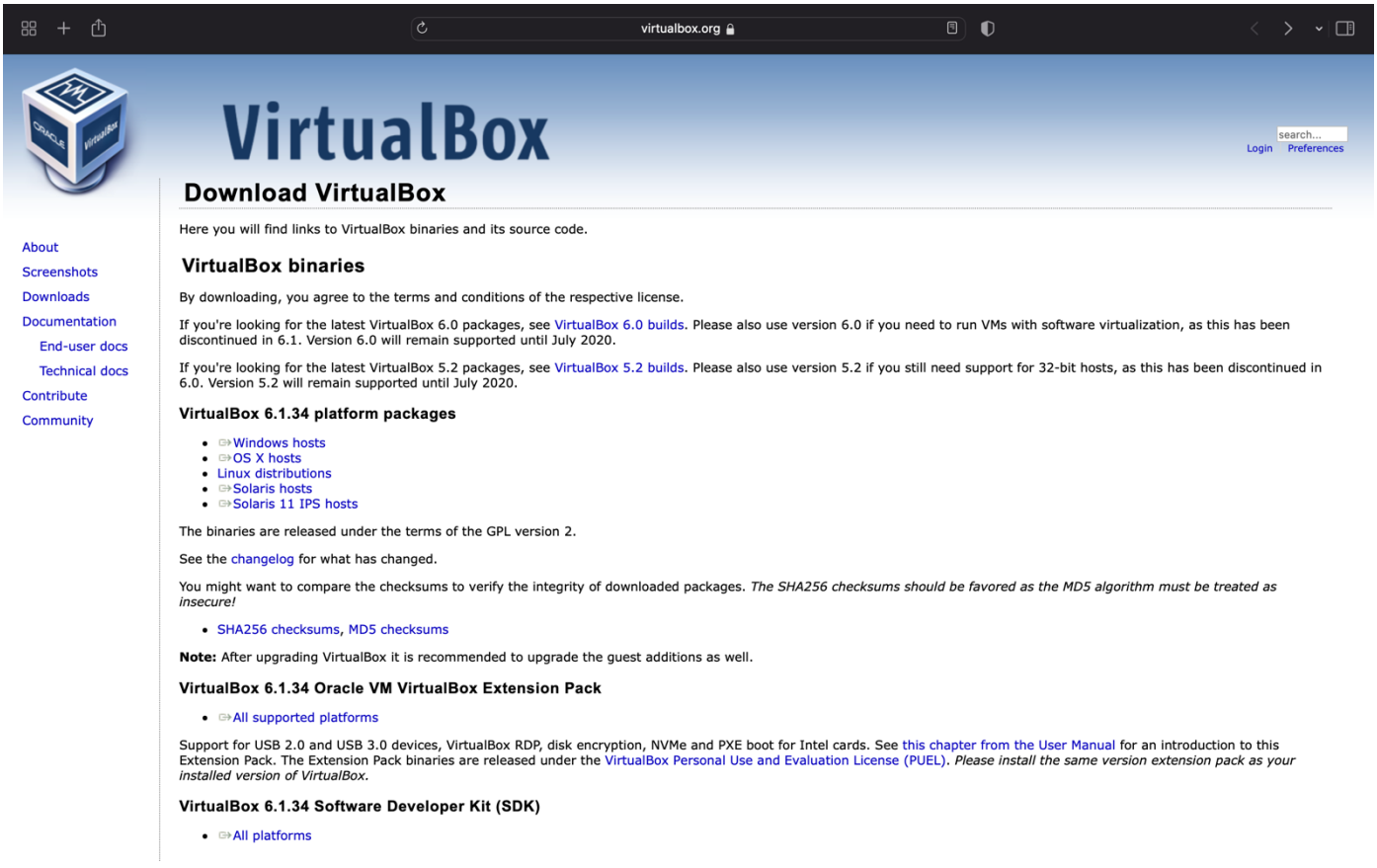
1-Download and install the virtual box



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VirtualBox

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Download VirtualBox

Here you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.0 packages, see VirtualBox 6.0 builds. Please also use version 6.0 if you need to run VMs with software virtualization, as this has been discontinued in 6.1. Version 6.0 will remain supported until July 2020.

If you're looking for the latest VirtualBox 5.2 packages, see VirtualBox 5.2 builds. Please also use version 5.2 if you still need support for 32-bit hosts, as this has been discontinued in 6.0. Version 5.2 will remain supported until July 2020.

VirtualBox 6.1.34 platform packages

- Windows hosts
- OS X hosts
- Linux distributions
- Solaris hosts
- Solaris 11 IPS hosts

The binaries are released under the terms of the GPL version 2.

See the changelog for what has changed.

You might want to compare the checksums to verify the integrity of downloaded packages. *The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!*

- SHA256 checksums, MD5 checksums

Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

VirtualBox 6.1.34 Oracle VM VirtualBox Extension Pack

- All supported platforms

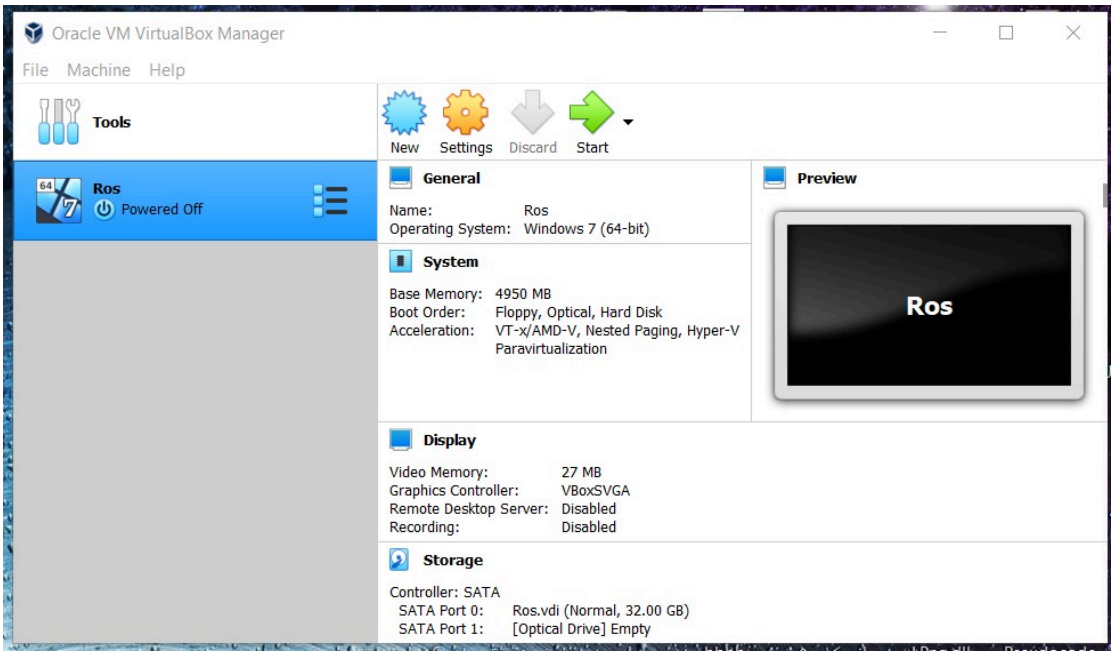
Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See this chapter from the User Manual for an introduction to this Extension Pack. The Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation License (PUEL). *Please install the same version extension pack as your installed version of VirtualBox.*

VirtualBox 6.1.34 Software Developer Kit (SDK)

- All platforms

2-Download Ubuntu

3-Open the virtual box and click on new to create a new virtual machine



4-Open the terminal and enter the commands to install the system from this site

https://s-m.com.sa/ros.txt

sudo apt-get install ros-noetic-catkin

mkdir -p ~/catkin_ws/src

cd ~/catkin_ws/

catkin_make

cd ~/catkin_ws/src

git clone https://github.com/smart-methods/arduino_robot_arm.git

cd ~/catkin_ws

rosdep install --from-paths src --ignore-src -r -y

sudo apt-get install ros-kinetic-moveit

sudo apt-get install ros-kinetic-joint-state-publisher ros-kinetic-joint-state-publisher-gui

sudo apt-get install ros-kinetic-gazebo-ros-control joint-state-publisher

sudo apt-get install ros-kinetic-ros-controllers ros-kinetic-ros-control

sudo nano ~/.bashrc

at the end of the (bashrc) file add the follwing line
(source /home/wesam/catkin_ws/devel/setup.bash)
then
ctrl + o

source ~/.bashrc

roslaunch robot_arm_pkg check_motors.launch

reference: https://youtu.be/fr6TXEd2rXI