



vmware®

# MacOS VM Setup Tutorial

# HELPFUL LINKS

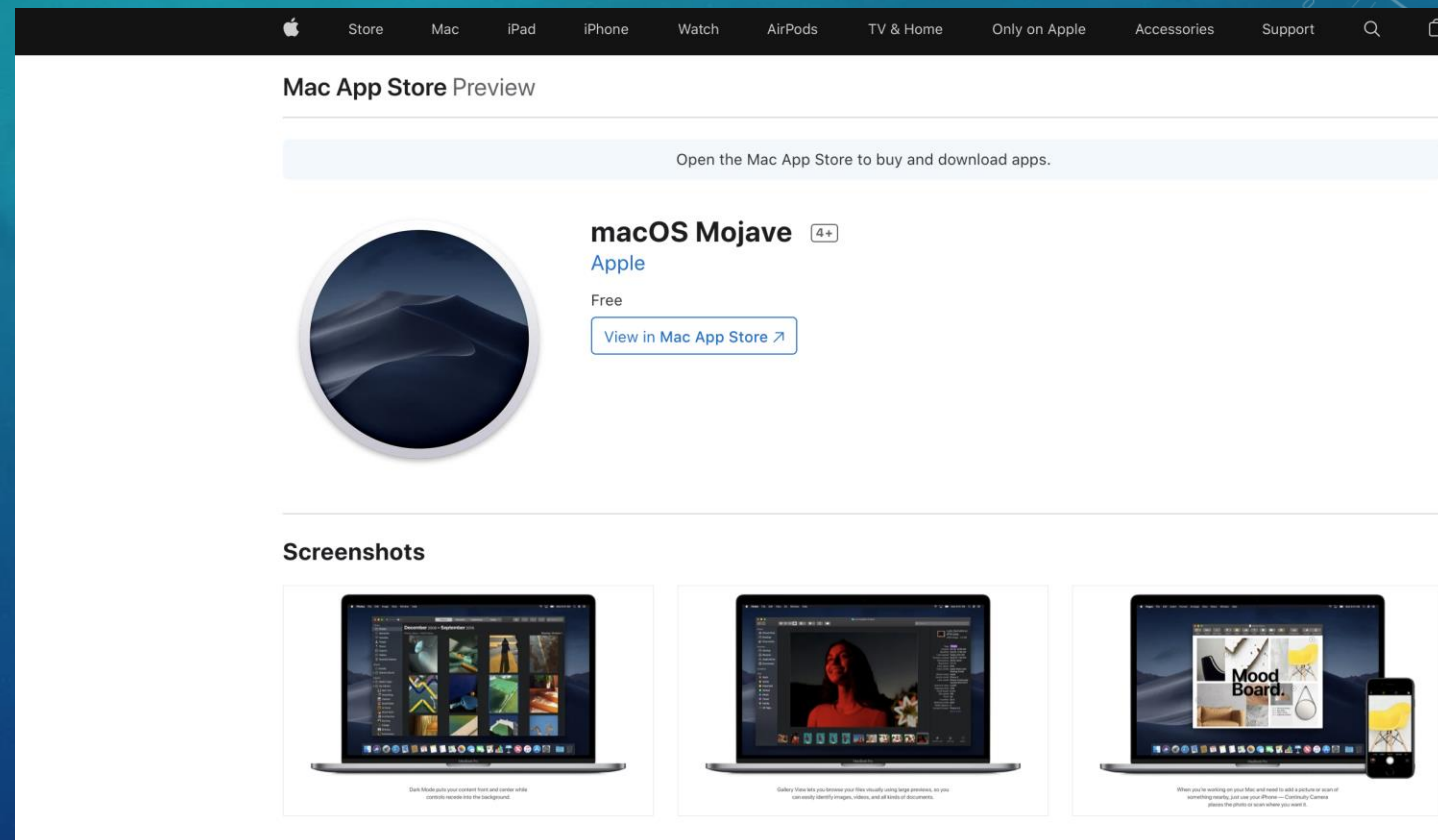
- [Website with text instructions for macOS ISO by geekrar](#)
- [Virtualbox Video Tutorial Recorded by Calvin](#)
- [Mac Support Page](#)

GRAB YOUR MAC (OR A FRIENDS)



# DOWNLOAD THE MACOS INSTALLER

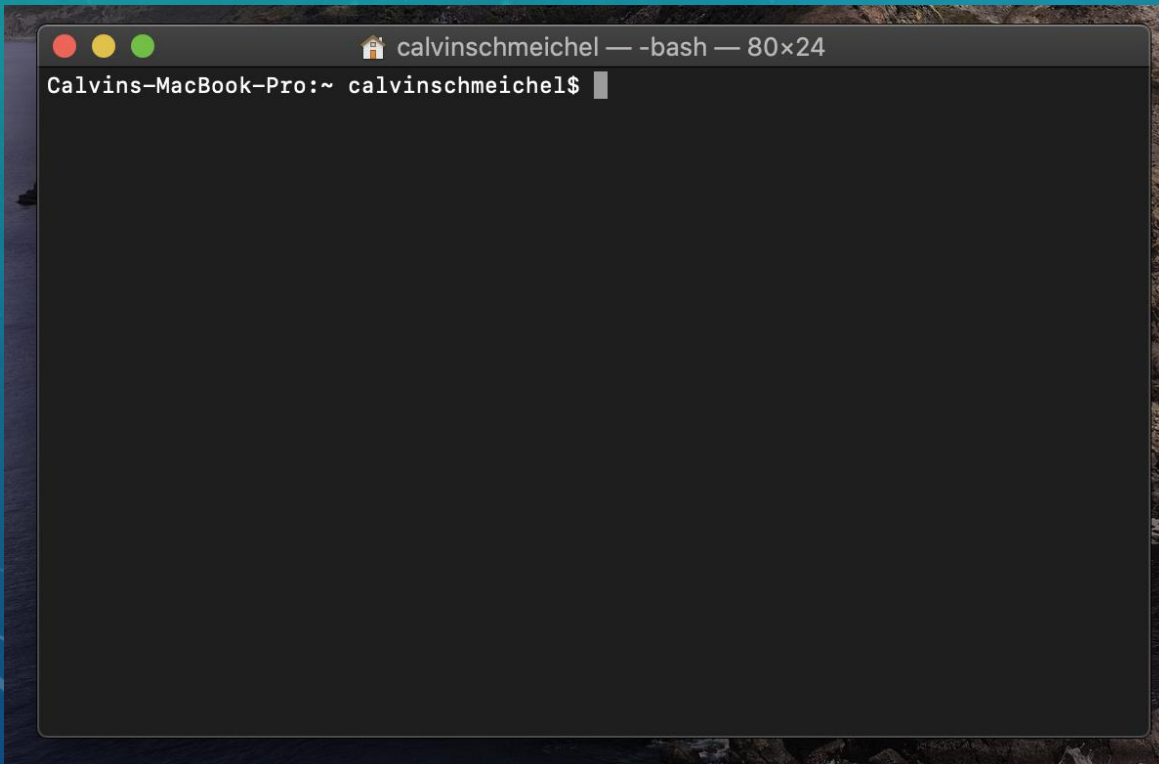
- [Mojave Installer](#)
- [Monterrey Installer](#)
- [Mac Support Page](#)





# COMMAND SETUP

Open Terminal and make sure your logged in



# 1. CREATE DMG DISK WITH TERMINAL

```
hdiutil create -o /tmp/mojave -size 7900m -volname mojave -layout SPUD -fs HFS+J
```

## 2. MOUNT DMG DISK TO YOUR MACOS

```
hdiutil attach /tmp/mojave.dmg -noverify -mountpoint /Volumes/mojave
```

### 3. CREATE MACOS MOJAVE INSTALLER

```
sudo /Applications/Install\ macOS\ Mojave.app/Contents/Resources/createinstallmedia --volume  
/Volumes/mojave --nointeraction
```



## 4. UNMOUNT DISK

```
hdiutil detach /volumes/Install\ macOS\ mojave
```

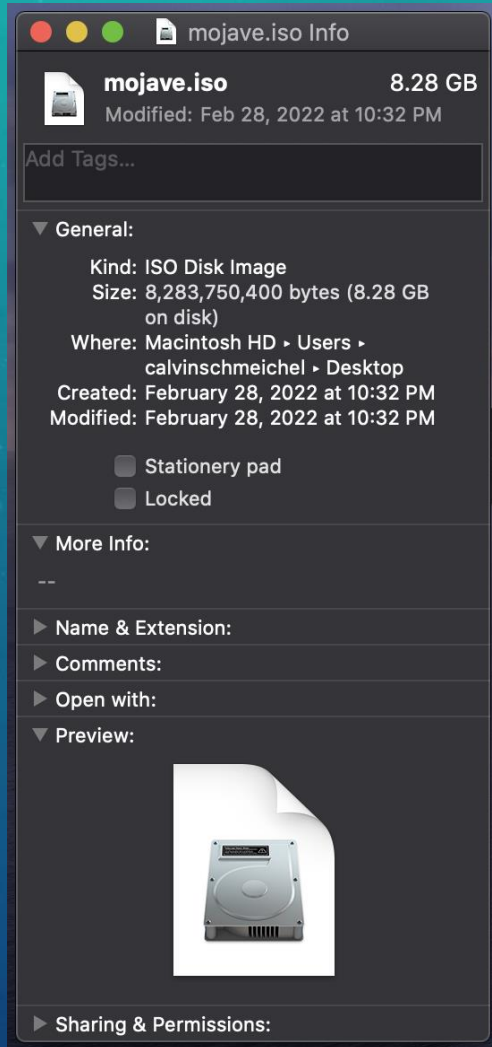
## 5. CONVERT DMG DISK TO ISO DISK

```
hdiutil convert /tmp/mojave.dmg -format UDTO -o ~/Desktop/mojave.cdr
```

# 6.RENAME AND MOVE IMAGE FILE TO MACOS DESKTOP

```
mv ~/Desktop/mojave.cdr ~/Desktop/mojave.iso
```

# NOW YOU SHOULD HAVE THE ISO ON YOUR DESKTOP





# DOWNLOAD VMWARE FROM ON THE HUB

- <https://stcloudstate.onthehub.com/>
- Login
- Search for "VMware Workstation 16.x Pro"
- Add to cart
- Checkout
- Save key
- Download VMware via the download provided by on the Hub
- Install from the download
- Input the key given previously wen prompted
- You have VMware for a year!

# VMWARE SETUP

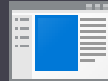
- [DrDonk/unlocker: VMware macOS utilities \(github.com\)](#)
- [github.com/DrDonk/unlocker](#)
- This is an unlocker for MacOS in VMWare. VMware cannot legally have an environment option available by default. After using tool, you simply need to select the mac environment from the list.

# CONFIGURING MACOS ON VMWARE

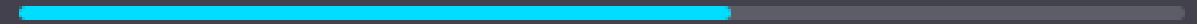
- New machine
- At least 8 Gibibytes of ram
- At least 2 cores
- Select Mac OS option

# VIRTUALBOX SETUP

- [VirtualBoxDownload](#)
- [VirtualBox Extension Pack](#)



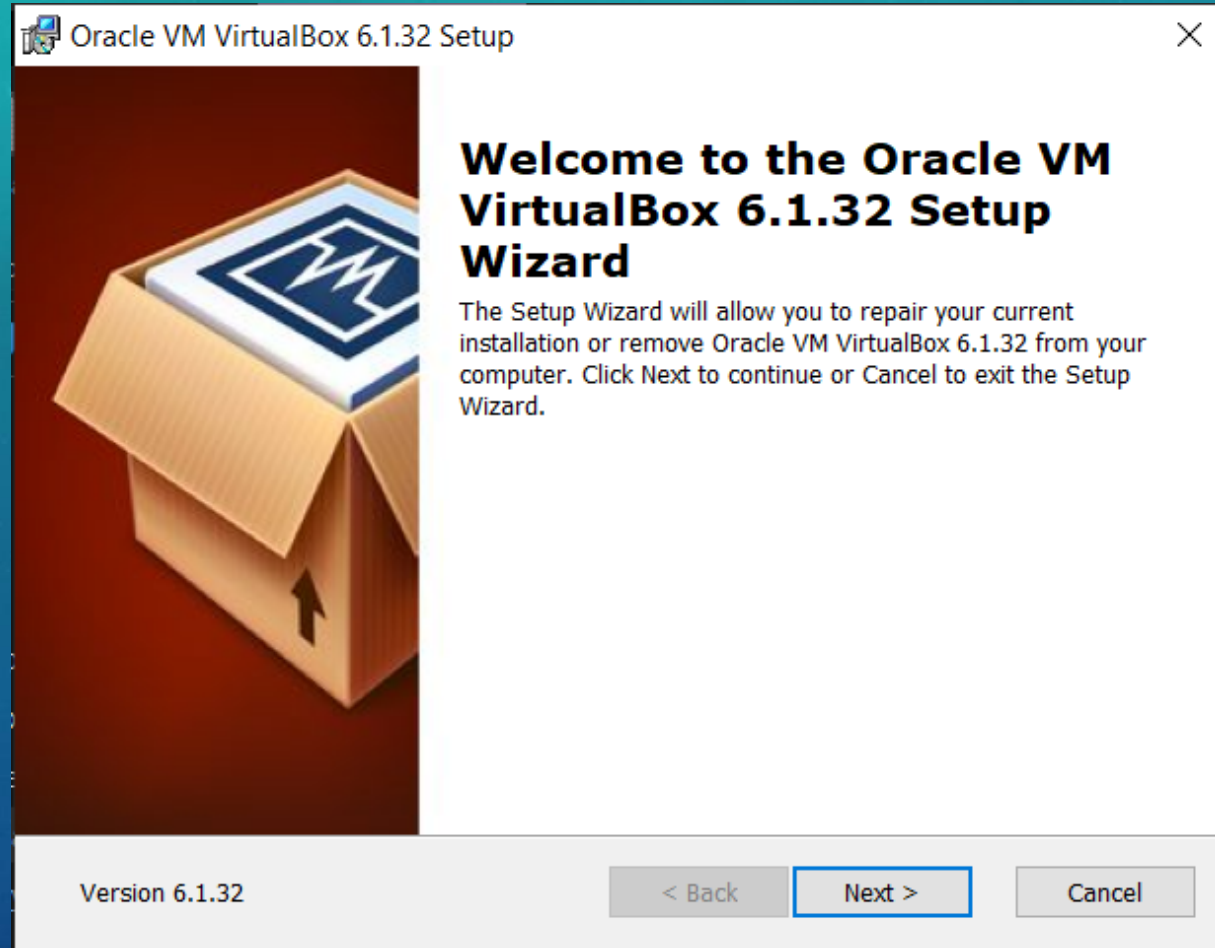
VirtualBox-6.1.32-149290-Win(1).exe



4s left — 63.6 of 103 MB (11.2 MB/sec)

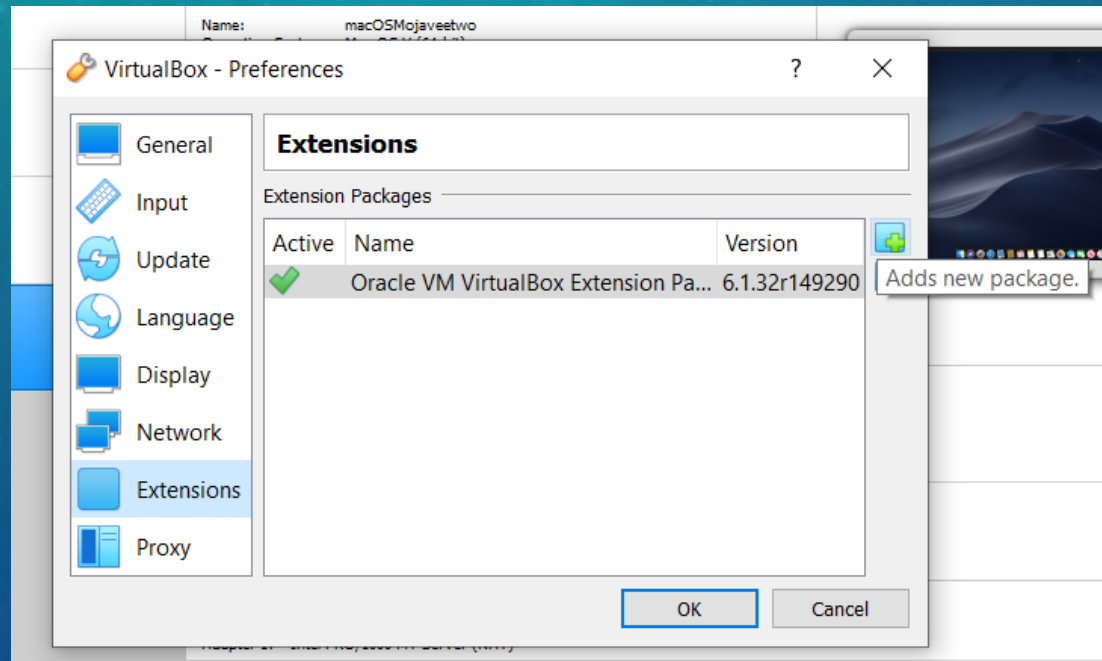


# INSTALL VIRTUAL BOX



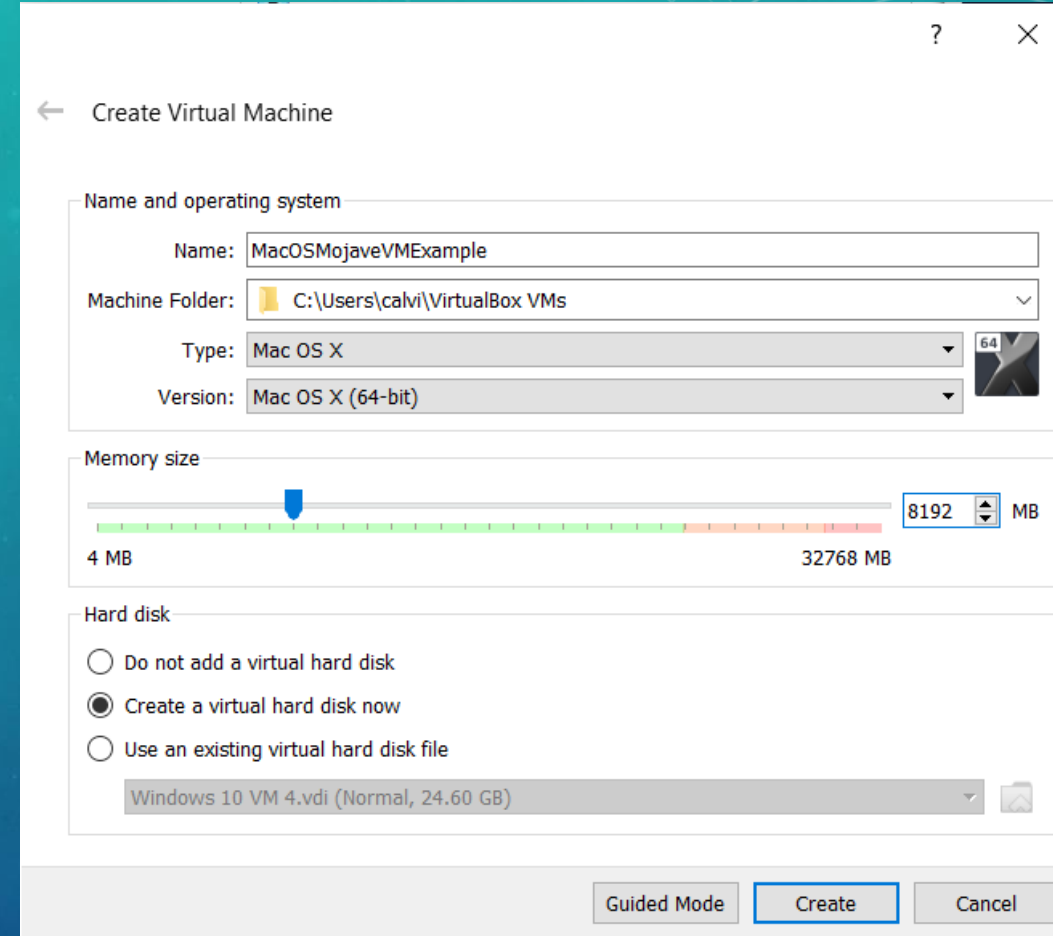
# FIRST ADD THE EXTENSION PACK

- File < Preferences < Extensions < "Green Plus Button" and select the extension pack you just downloaded



# CREATING THE VM

- Click the "New" button
- Name your VM (Make sure to note the exact name it will be used later)
- Type: MacOS X
- Version: MacOS X (64-bit)
- Memory size: About half of your hosts memory
- Hard disk: Select "Create a virtual hard disk now"
- Press Create
- Leaving everything default but change the storage to about 30GB and press create again



The screenshot shows the 'Create Virtual Machine' window in Oracle VM VirtualBox. The window has a title bar with a question mark and a close button. The main content is organized into sections:

- Name and operating system:** Contains fields for 'Name' (MacOSMojaveVMExample), 'Machine Folder' (C:\Users\calvi\VirtualBox VMs), 'Type' (Mac OS X), and 'Version' (Mac OS X (64-bit)).
- Memory size:** Features a slider bar ranging from 4 MB to 32768 MB, with a value of 8192 MB set in the input field.
- Hard disk:** Includes three radio button options: 'Do not add a virtual hard disk', 'Create a virtual hard disk now' (which is selected), and 'Use an existing virtual hard disk file'. Below these is a text field showing 'Windows 10 VM 4.vdi (Normal, 24.60 GB)'.

At the bottom right, there are three buttons: 'Guided Mode', 'Create' (highlighted with a blue border), and 'Cancel'.

# VM SETTINGS

- System < Processor < Processor(s) (Give half of your hosts cores)
- Display < Screen < Video Memory (Max it out to the left)
- Audio < Select "Enable Audio Input"
- USB < Select "USB 3.0 (xHCI) Controller"
- Storage < Select "empty" < Select the Blue DVD button < Select "Choose a disk file" and select the ISO you created earlier.
- Press "Ok" to save your changes and fully close Virtual Box



# SETTING UP THE VM STORAGE

- Since VirtualBox doesn't have the tools built in to boot into MacOS by default we have to run a few commands in the command prompt to get everything up and running.
- Paste the commands below in command prompt as administrator one by one
- `cd "C:\Program Files\Oracle\VirtualBox\"`
- `VBoxManage.exe modifyvm "VM_NAME" --cpu-profile "Intel Core i7-6700K"`
- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/efi/0/Config/DmiSystemProduct "iMac19,1"`
- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/efi/0/Config/DmiSystemVersion "1.0"`
- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/efi/0/Config/DmiBoardProduct "Mac-AA95B1DDAB278B95"`
- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/smc/0/Config/DeviceKey "ourhardworkbythesewordsguardedpleasedontsteal(c)AppleComputerInc"`
- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/smc/0/Config/GetKeyFromRealSMC 1`

# COMMAND 1: GOES TO THE RIGHT FOLDER LOCATION

- `cd "C:\Program Files\Oracle\VirtualBox\"`

# COMMAND 2

- `VBoxManage.exe modifyvm "VM_NAME" --cpu-profile "Intel Core i7-6700K"`

# COMMAND 3

- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/efi/0/Config/DmiSystemProduct"`  
`"iMac19,1"`



# COMMAND 4

- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/efi/0/Config/DmiSystemVersion" "1.0"`

# COMMAND 5

- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/efi/0/Config/DmiBoardProduct" "Mac-AA95B1DDAB278B95"`

# COMMAND 6

- `VBoxManage setextradata "VM_NAME" VBoxInternal/Devices/smc/0/Config/DeviceKey"`  
`"ourhardworkbythesewordsguardedpleasedontsteal(c)AppleComputerInc"`

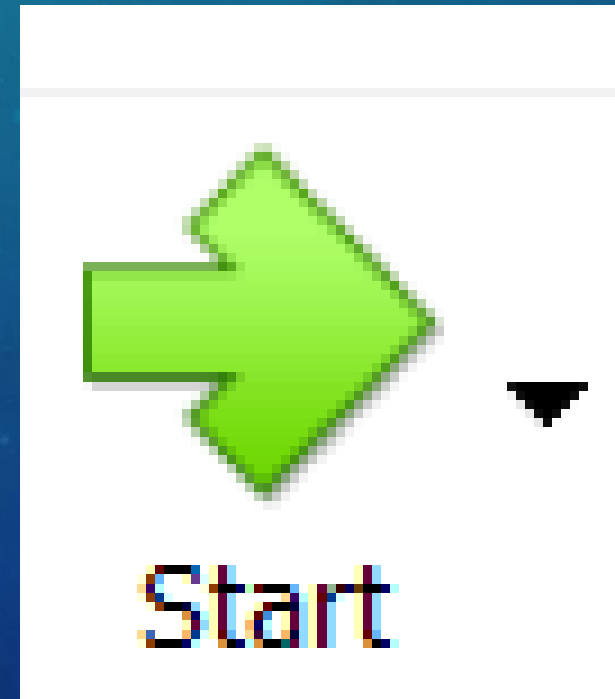
# COMMAND 7

- `VBoxManage setextradata "VM_NAME"VBoxInternal/Devices/smc/0/Config/GetKeyFromRealSMC" 1`



# OPEN VIRTUAL BOX AGAIN

- And press the Green arrow start button
- Initial setup can take a few minutes depending on the Hosts hardware.



# MACOS INSTALL

- Select your language
- From the macOS Utilities menu select "Disk Utility" and continue
- Select the "VBOX HARDDISK Media" drive and press erase
- Name the new drive whatever you like and press erase
- Close out of Disk Utility and select "Install macOS"
- Accept the terms and select the drive you just formatted and install
- The installing of macOS can take a bit (~20min) depending on your hosts hardware.



# MACOS SETUP

- Select your region and keyboard
- Press continue twice
- You can sign into a iCloud account if you wish or you can skip and set up later
- Agree to the terms
- Create a computer account with name and password
- Press continue twice
- Follow the keyboard assistant instructions if it pops up

# MACOS RESOLUTION CHANGE

- Congrats! You're in macOS!
- You might notice that macOS is stuck at 1024x768. To change that to your display's native resolution fully shut down the VM and VirtualBox.
- To check your display's native resolution in Windows, go to Settings < System < Display < "Display resolution" to see the current resolution.
- Some examples: 1920x1080, 2560x1440, 3840x2160



# MACOS RESOLUTION CHANGE

- Paste the command below into command prompt as an administrator. Make sure your still in the correct folder with the first "CD" command too. And change the resolution values to your display's native resolution.,
- `cd "C:\Program Files\Oracle\VirtualBox\"`
- `VBoxManage setextradata "YOURVMNAME" VBoxInternal2/EfiGraphicsResolution 2560x1440`

# OPEN VIRTUAL BOX AGAIN

- And press the Green arrow start button
- Wait for macOS to boot and sign in
- And you're done!

