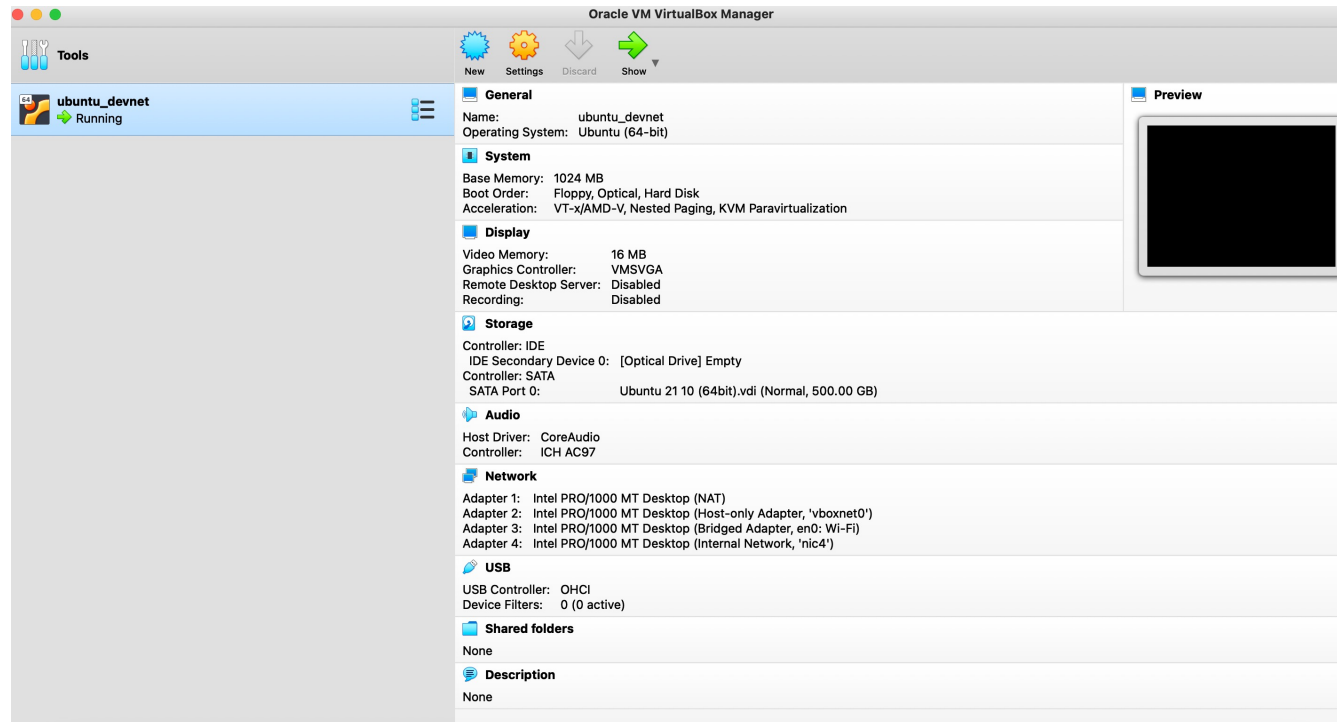




SETUP YOUR OWN COMPUTER AS A DEVELOPMENT ENVIRONMENT

Installing VirtualBox

<https://www.virtualbox.org/wiki/Downloads>



Installing VirtualBox

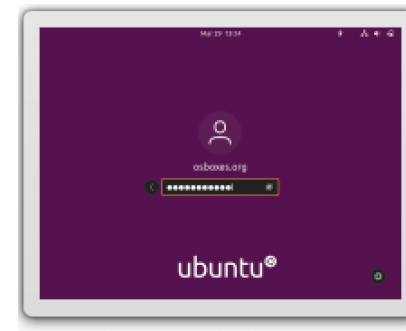
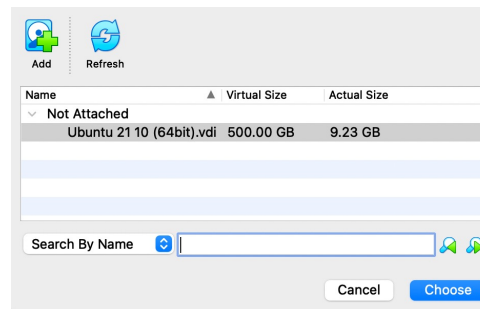
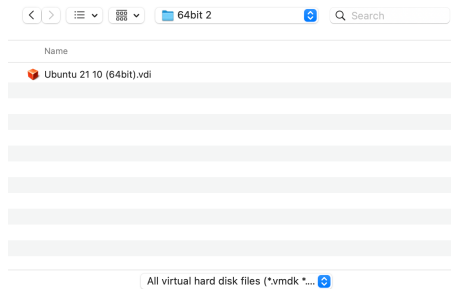
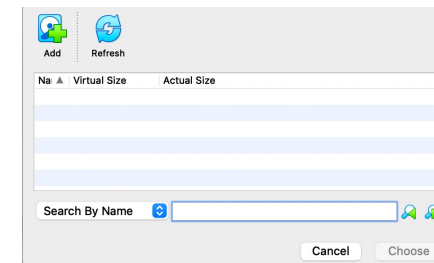
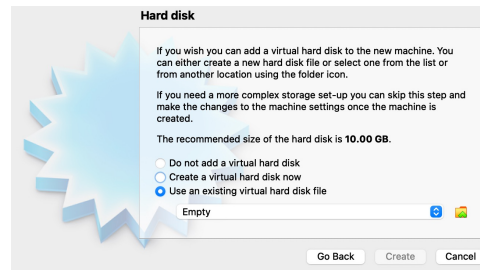
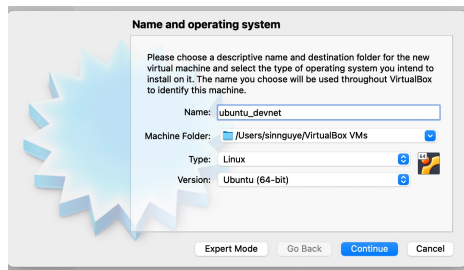
- Note: Enabling virtualization technology in bios

Phoenix TrustedCore(tm) Setup Utility		
Advanced		
Advanced Processor Configuration		Item Specific Help
CPU Mismatch Detection:	[Enabled]	When enabled, a VMM (Virtual Machine Monitor) can utilize the additional hardware capabilities provided by Vanderpool Technology.
Core Multi-Processing:	[Enabled]	
Processor Power Management:	[Disabled]	
Intel(R) Virtualization Technology	[Enabled]	
Execute Disable Bit:	[Enabled]	
Adjacent Cache Line Prefetch:	[Disabled]	If this option is changed, a Power Off-On sequence will be applied on the next boot.
Hardware Prefetch:	[Disabled]	
Direct Cache Access	[Disabled]	
Set Max Ext CPUID = 3	[Disabled]	
F1 Info ↑↓ Select Item -/+ Change Values F9 Setup Defaults		
Esc Exit ← Select Menu Enter Select ► Sub-Menu F10 Save and Exit		

Installing Ubuntu

Link download: <https://www.osboxes.org/ubuntu>

Username/password: osboxes/osboxes.org



Changing User Password (Optional)

VirtualBox

VMware

Info

Username: osboxes

Password: osboxes.org

Gust Tools: Installed

Keyboard Layout: US (Qwerty)

VMware Compatibility: Version 10+

```
$ sudo passwd osboxes
```

```
$ sudo apt update  
$ sudo apt install openssh-server  
$ sudo service ssh start (optional)  
$ sudo systemctl status ssh (optional)
```

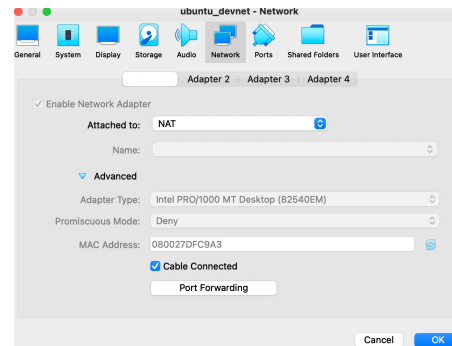
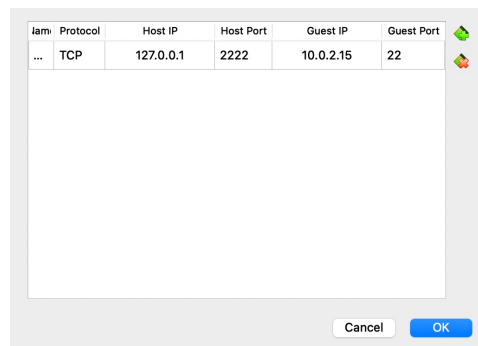
Connecting To Linux Virtual Machine Over The Network

```
$ sudo apt install net-tools
```

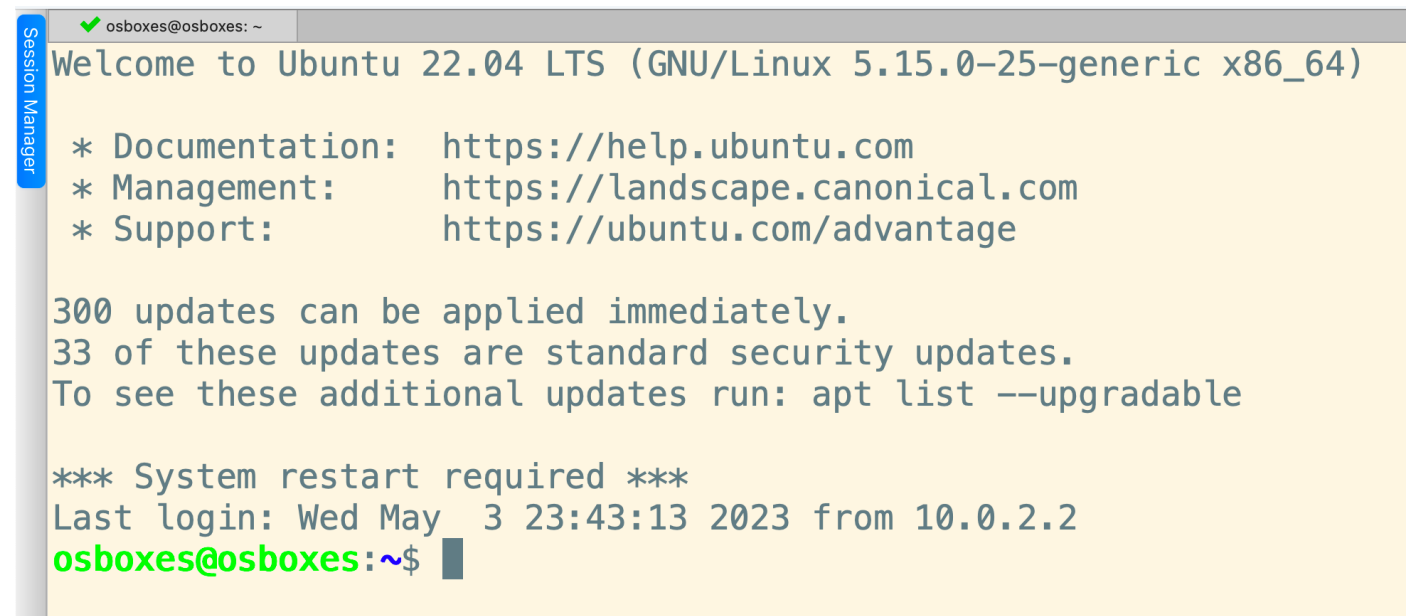
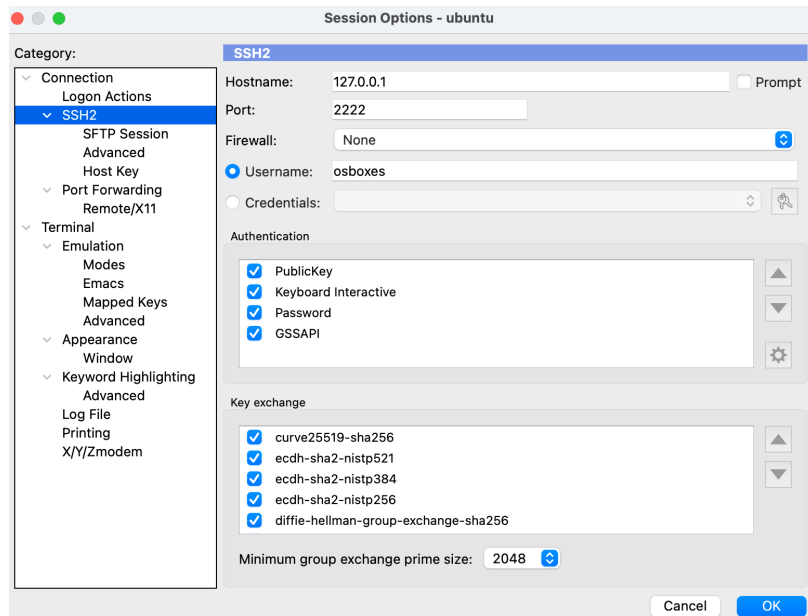
SSH to VM virtual box to check IP address

```
$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::6fe1:39df:f212:19d1 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:df:c9:a3 txqueuelen 1000 (Ethernet)
    RX packets 5414 bytes 1998395 (1.9 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3774 bytes 423148 (423.1 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Enable port forwarding

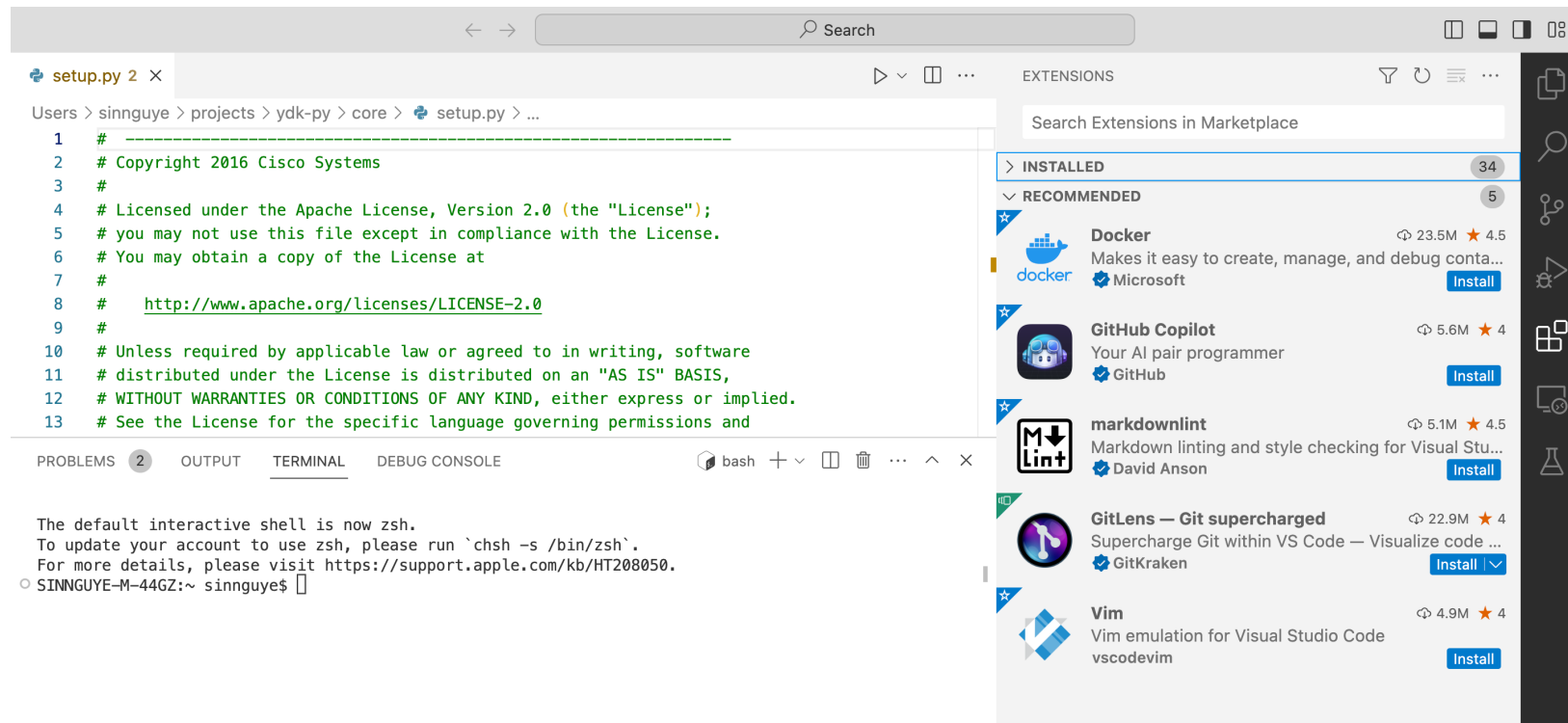


Connecting To Linux Virtual Machine Over The Network

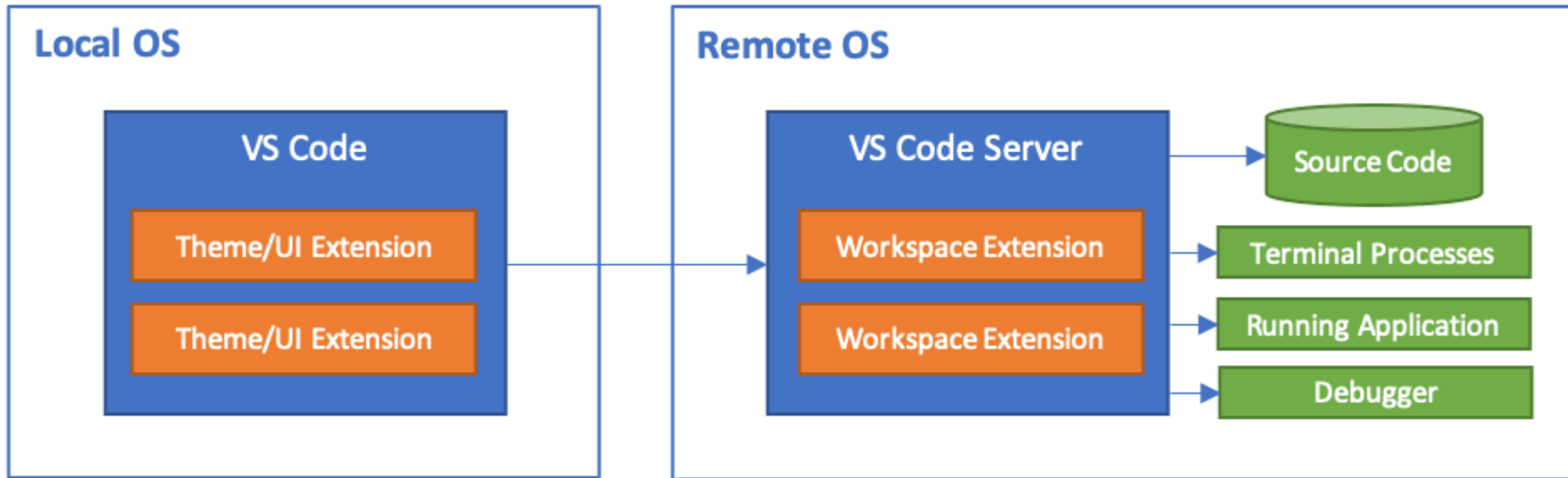


Installing Visual Studio Code

<https://code.visualstudio.com/download>



VS Code Remote Development

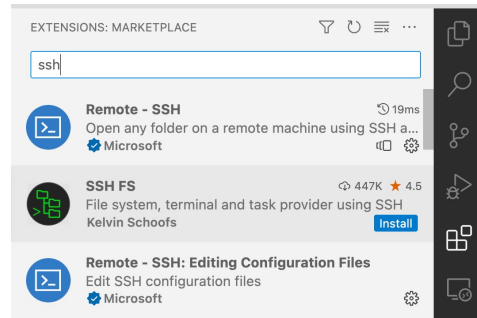


<https://code.visualstudio.com/docs/remote/ssh-tutorial>

VS Code Remote Development

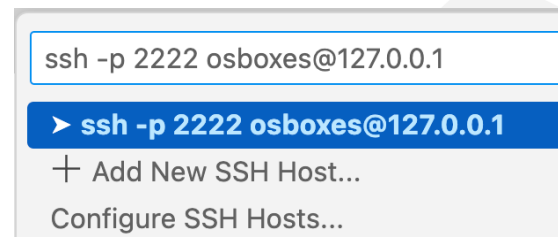
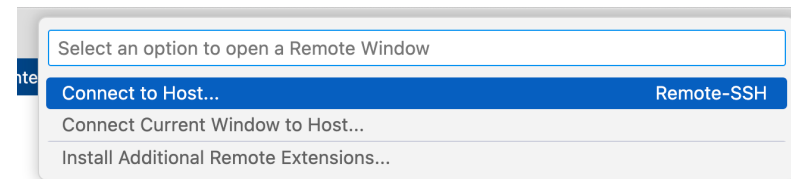
1

Install Remote-SSH extension and Remote-SSH: Editing Configuration Files



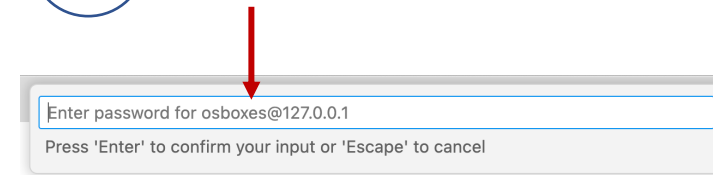
2

Connect To Remote Host



3

Enter The Password



4

Connection Established

