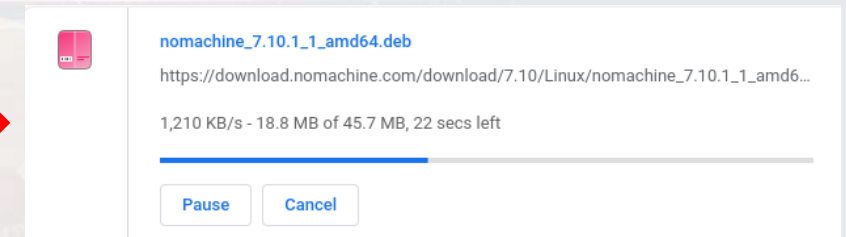
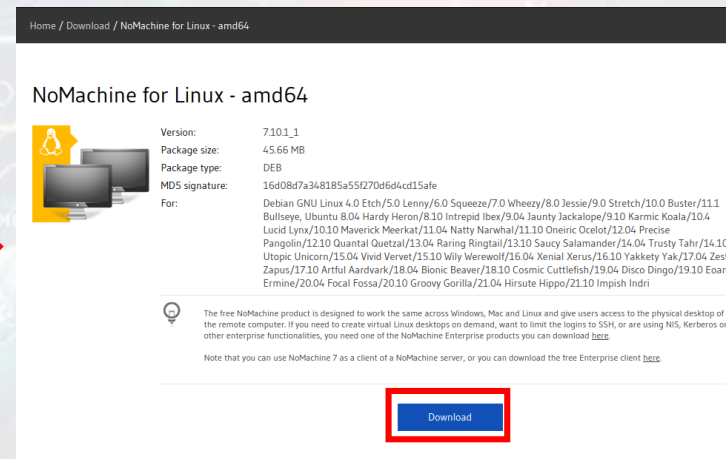
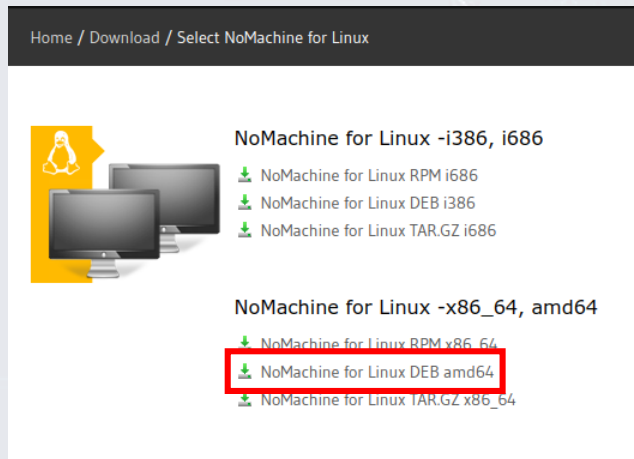


AI Remote Desktop using **NoMachine** By TESR

ROS2

Download NoMachine

- **Download Link:** <https://www.nomachine.com/download/linux&id=1>
- Select and Download for "NoMachine for Linux DEB amd64"



Install NoMachine

- Open terminal and change current working directory to Download folder:

```
cd ~/Downloads
```

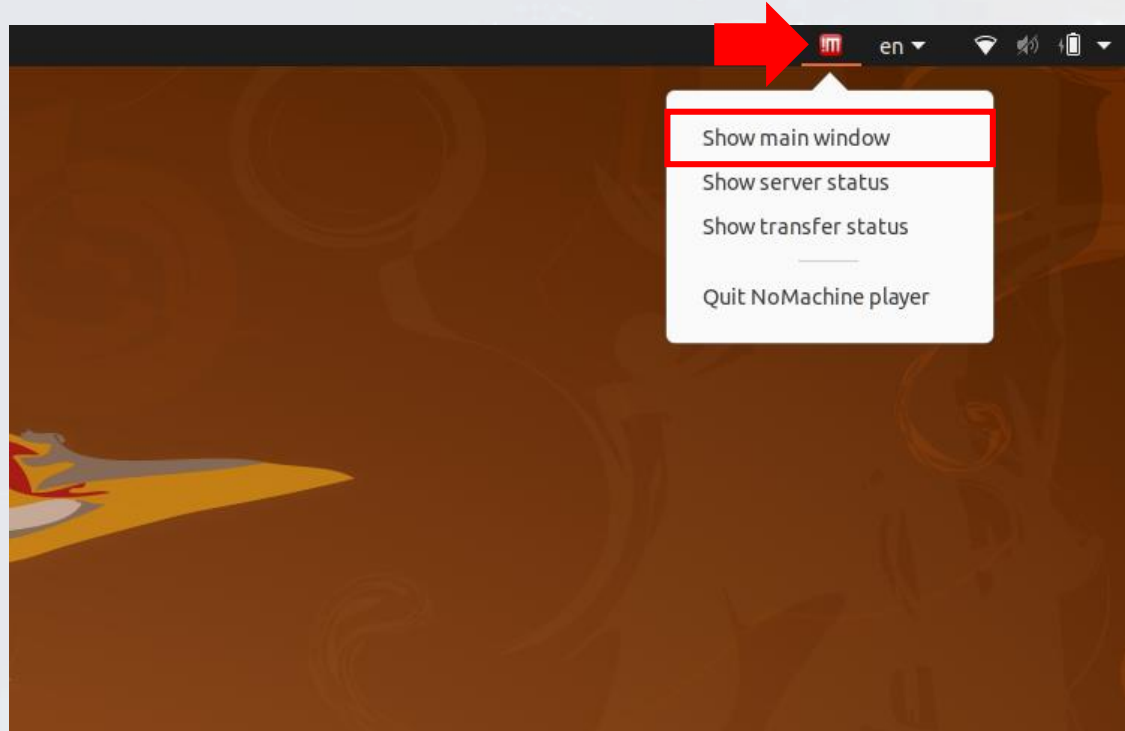
- After that, check if .deb file is in ~/Downloads. And then install .deb file using:

```
ls  
sudo dpkg -i nomachine_7.10.1_1_amd64.deb
```

```
rengy@tesr-9939:~$ cd ~/Downloads  
rengy@tesr-9939:~/Downloads$ ls  
arduino-1.8.19      Dobot_Python_serial_TESR_Lib-20220323T050939Z-001  iron-X      out_source  
arduino_source     drive-download-20220218T042915Z-001               Labal_onClicked  problem  
clean              forward_file                                         libraries     python_chatter  
clean-24-03-2022   forward_file_chiang_mai                           logo_download   reveice_file  
clear_file_Aug     forward_imu_file                                    moveit-master   ROS2_material  
Day2              imu_gy81_ros_pkg                                   myCobot        r_test_navigation  
'depend for rvizweb' IoT_solvefortomorrow                               nomachine_7.10.1_1_amd64.deb  slide_material  
rengy@tesr-9939:~/Downloads$ sudo dpkg -i nomachine_7.10.1_1_amd64.deb
```

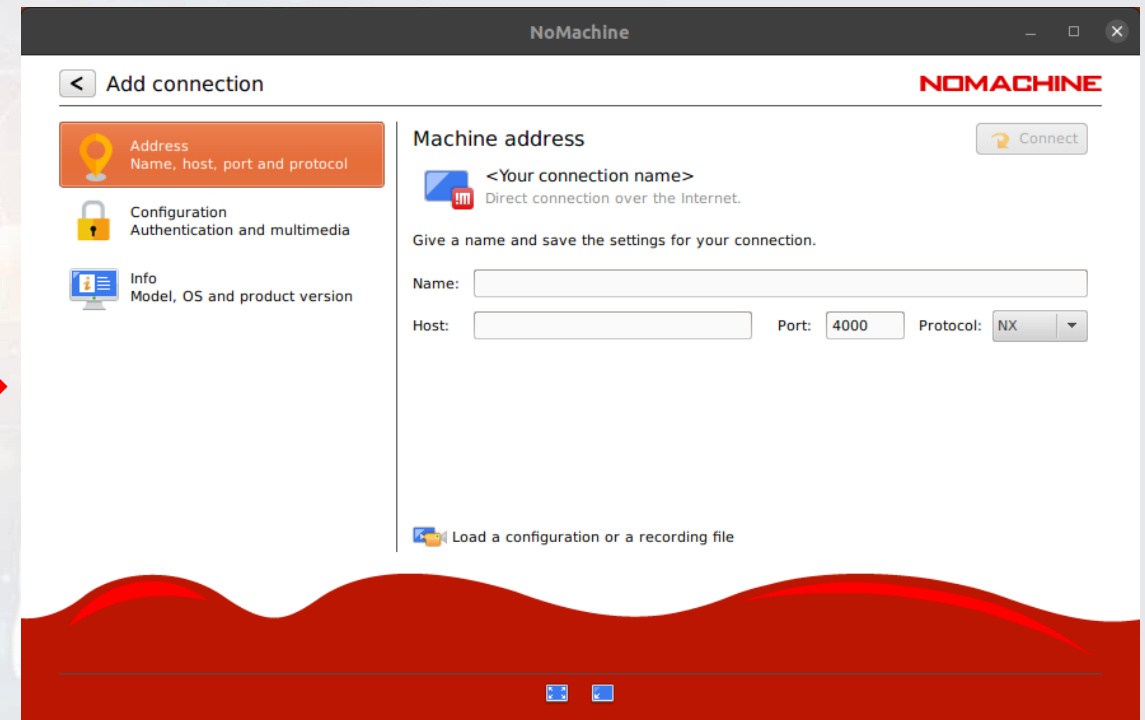
Use NoMachine

- After install, you can show main window of NoMachine from small icon right at status bars or you can also run NoMachine from App icon too.



Use NoMachine

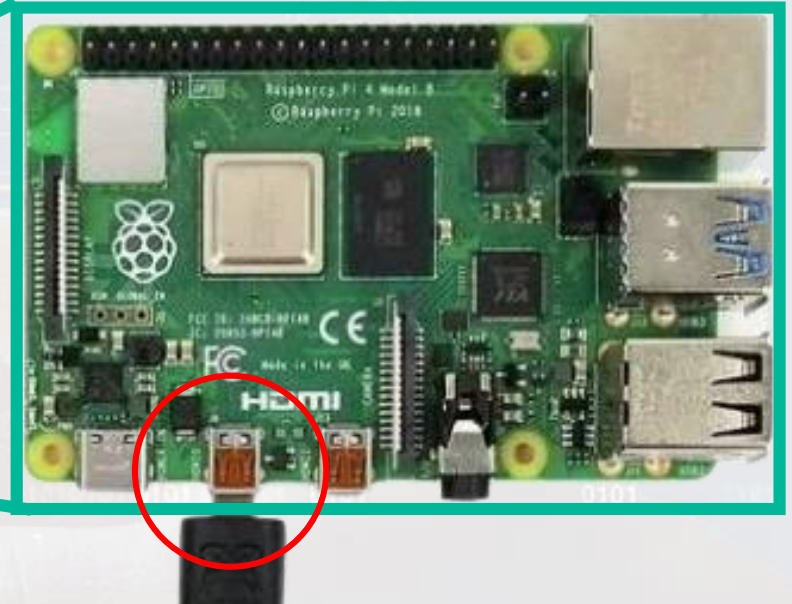
- After the NoMachine's main window pop-up, you can add new connection by Click at "Add" and Fill "Name: iron-X", "Host: <IP-address>" and "Protocol: NX"



Use NoMachine

How to get the iron-X's IP-address for Machine address configuration.

- **Step 1:** Connect Micro-HDMI to iron-X's raspberry pi

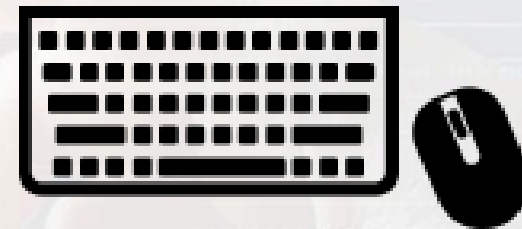


Iron-X's chassis

Use NoMachine

How to get the iron-X's IP-address for Machine address configuration.

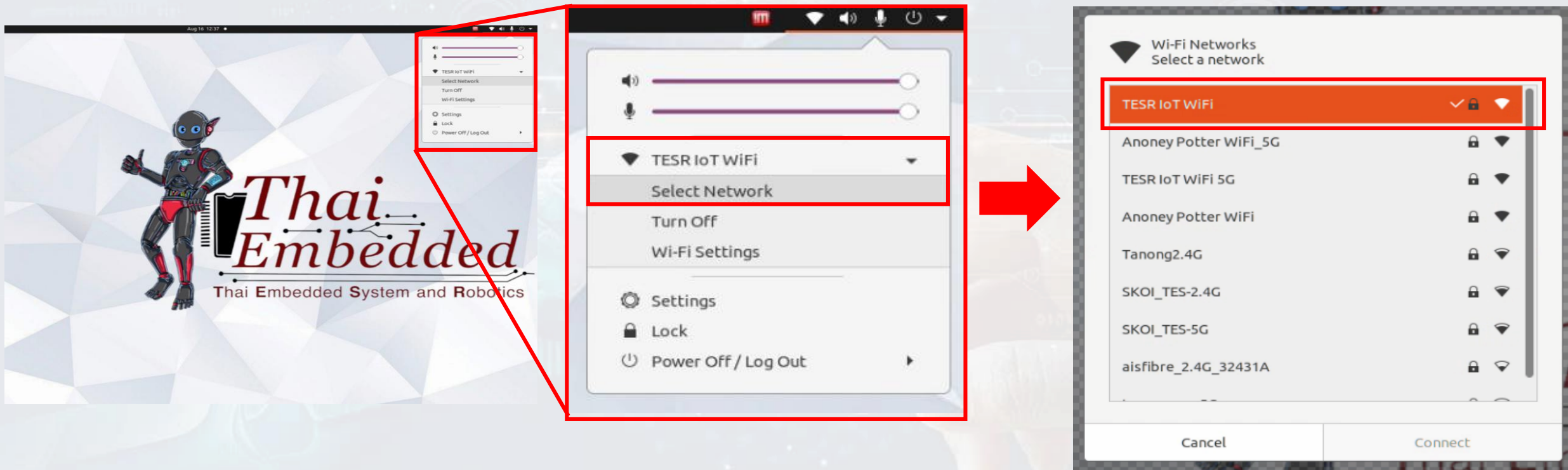
- **Step 2:** Connect Mouse and Keyboard to USB port of Raspberry pi for enable to move the mouse cursor and can type the command through terminal.



Use NoMachine

How to get the iron-X's IP-address for Machine address configuration.

- **Step 3:** Connect iron-X to the Wi-Fi to access the internet.

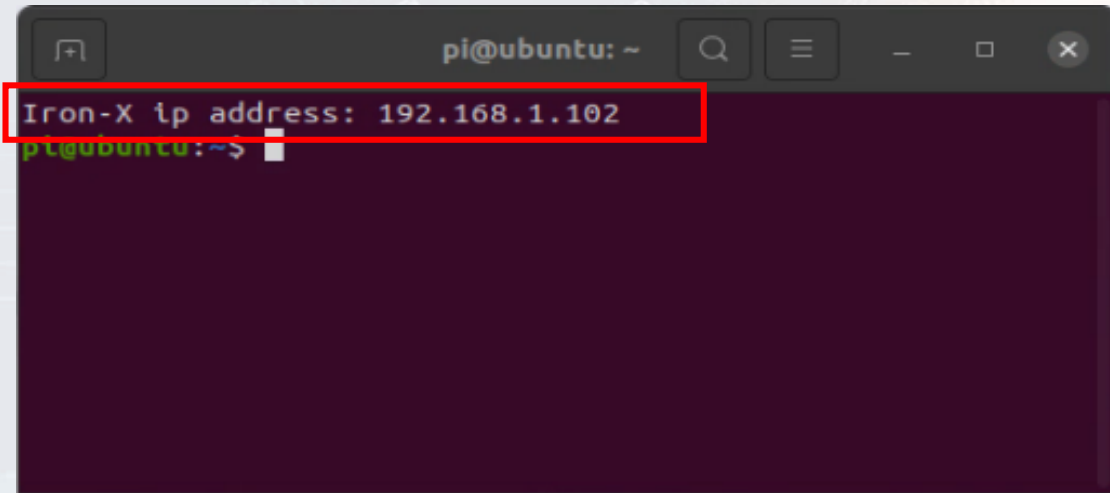


Use NoMachine

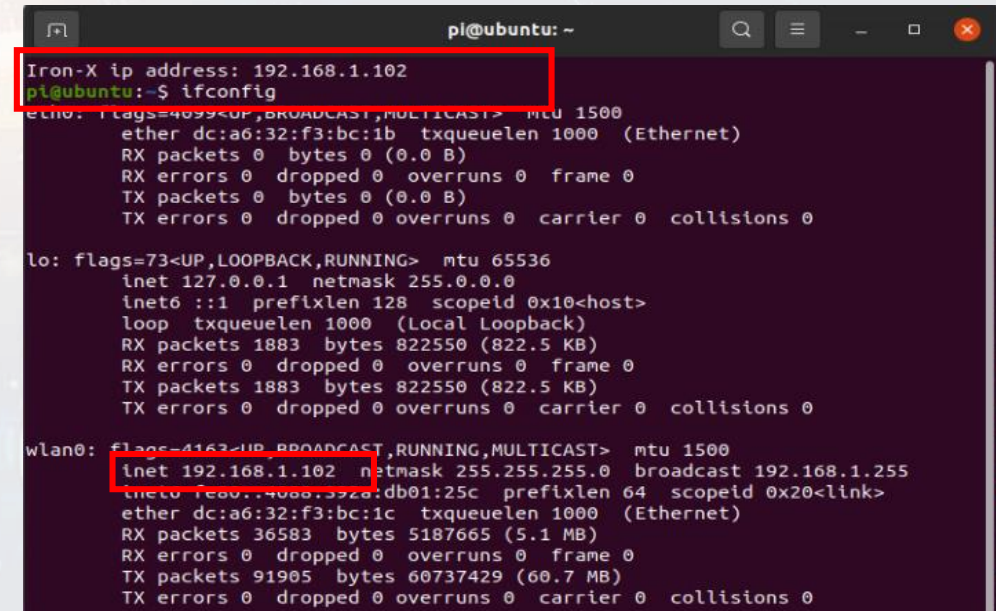
How to get the iron-X's IP-address for Machine address configuration.

- **Step 4:** Open the terminal. By Default, iron-X terminal has been setting to show IP-address when open terminal. You can also check IP-address using:

ifconfig



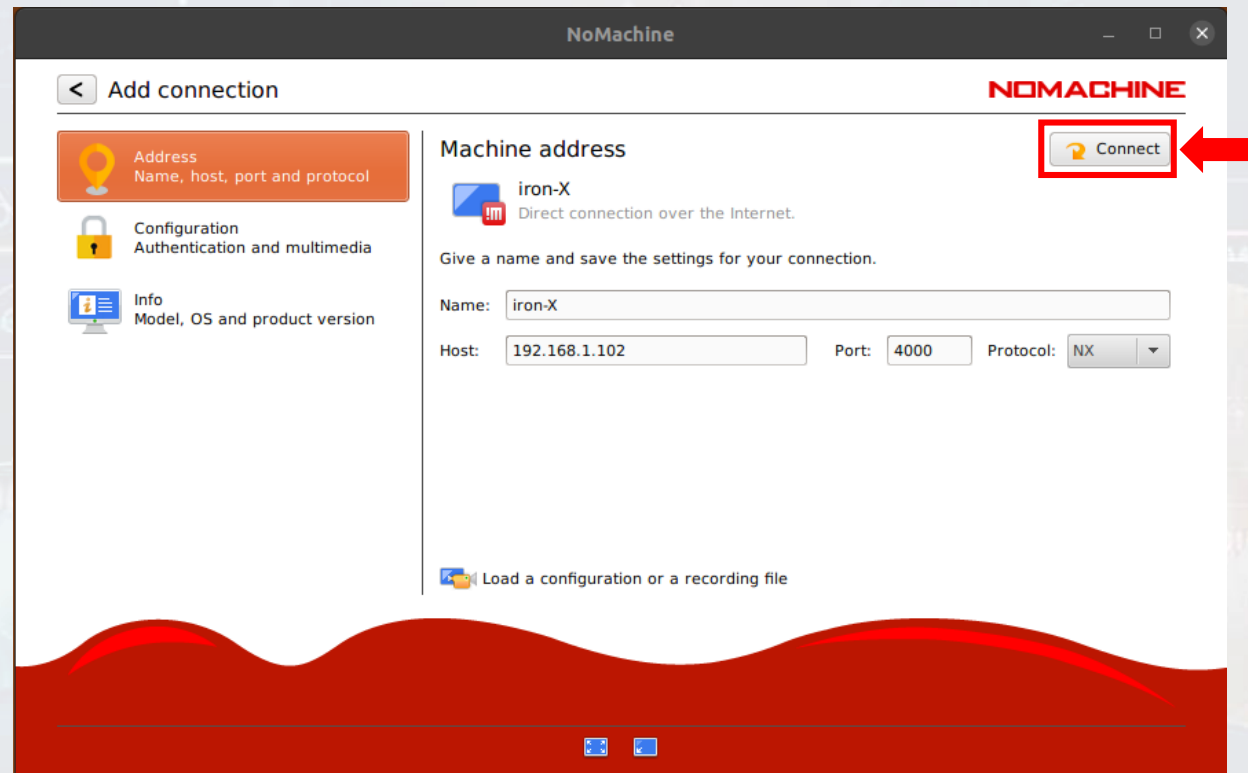
```
pi@ubuntu: ~  
Iron-X ip address: 192.168.1.102  
pi@ubuntu:~$
```



```
pi@ubuntu: ~  
Iron-X ip address: 192.168.1.102  
pi@ubuntu:~$ ifconfig  
eth0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500  
    ether dc:a6:32:f3:bc:1b txqueuelen 1000 (Ethernet)  
    RX packets 0 bytes 0 (0.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 0 bytes 0 (0.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 1883 bytes 822550 (822.5 KB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 1883 bytes 822550 (822.5 KB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.1.102 netmask 255.255.255.0 broadcast 192.168.1.255  
    ether dc:a6:32:f3:bc:1c txqueuelen 1000 (Ethernet)  
    RX packets 36583 bytes 5187665 (5.1 MB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 91905 bytes 60737429 (60.7 MB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

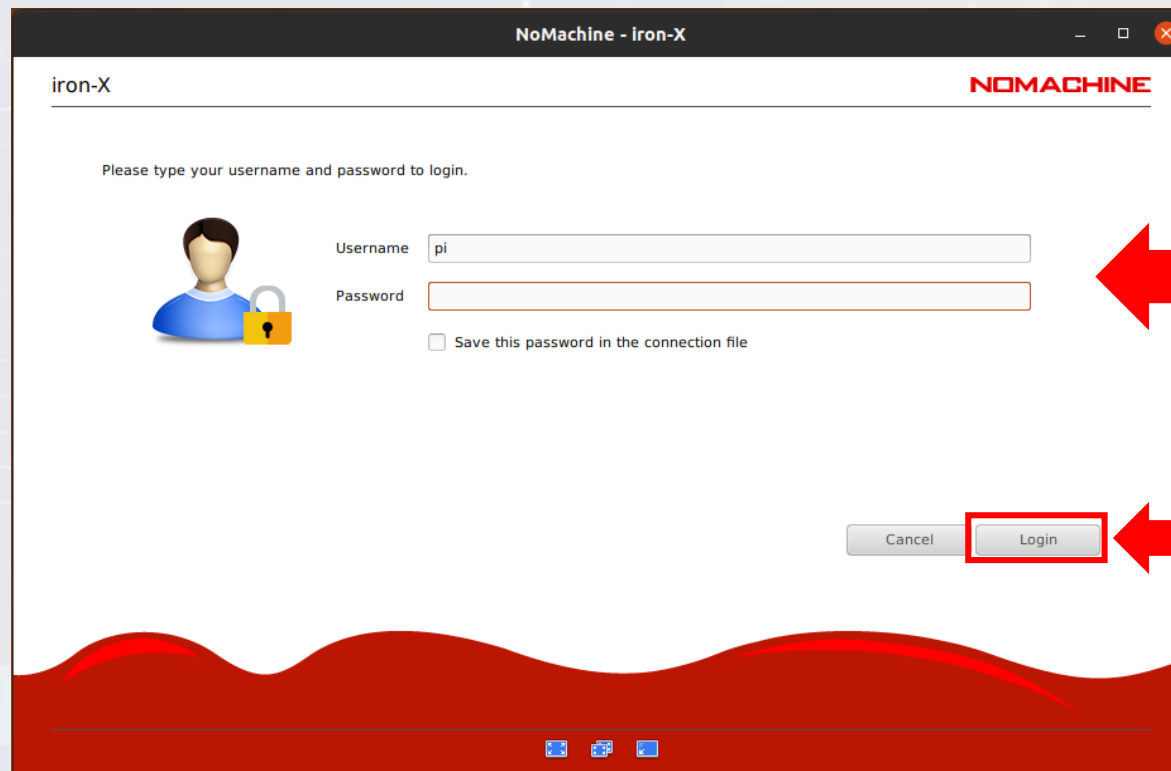
Use NoMachine

- Now, you got the iron-X's IP-address. So, use it to fill the configuration of Machine address as picture and click "**Connect**":



Use NoMachine

- After that, **NoMachine** will try to connect with the address we fill and ask for Username and Password.



Username: pi
Password: ironxtesr

Use NoMachine

- After click "**Login**", you will access the iron-X's screen through **NoMachine**.



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Scan here



TESR Co., LTD

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จังหวัดนบุรี 11000