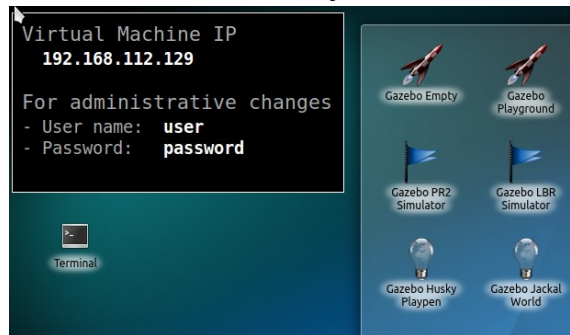


## Autonomous Driving TurtleBot Installation Guide

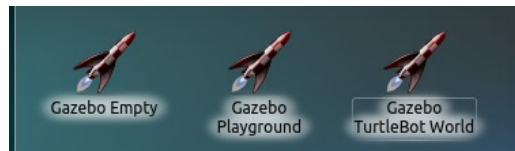
1. Download the appropriate virtual machine for your platform from and follow the instructions:  
[https://www.mathworks.com/supportfiles/robotics/ros/virtual\\_machines/v3/installation\\_instructions.htm](https://www.mathworks.com/supportfiles/robotics/ros/virtual_machines/v3/installation_instructions.htm)
2. After installation is complete, open the VM and run following commands:
  - `echo export ROS_MASTER_URI=http://192.168.112.129:11311 >> ~/.bashrc`
  - `echo export ROS_HOSTNAME=192.168.112.129 >> ~/.bashrc`Note that **192.168.112.129** is the IP address of your VM that is shown in the desktop of VM.



3. Open the **config.ini** file and change the host.addr to IP address of your PC and vm.addr to IP address of your VM.

```
[Network]
host.addr = 192.168.1.29
vm.addr = 192.168.112.129
port.header = 50000|
```

4. Put *agent.py*, *environment.py*, *memory.py*, *util.py*, *vm.py*, *vm\_bringup.py*, *config.ini* files to a folder in virtual machine.
5. Double click **Gazebo TurtleBot World** to run gazebo in VM.



6. Run **host\_bringup.py** in the PC and **vm\_bringup.py** in the VM.