Robotik WS 19_20

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Übung 1

Aufgabe 1/

Verbinden mit dem Car (via WLAN):

```
dang@lgLap:~$ ssh ros@192.168.43.125
^C
dang@lgLap:~$ ssh ros@192.168.43.125
The authenticity of host '192.168.43.125 (192.168.43.125)' can't be established.
ECDSA key fingerprint is SHA256:/CvpXWrmCICWqZ070/3eLUjxXV3WLVk1+avw7vGQHQs.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.43.125' (ECDSA) to the list of known hosts.
ros@192.168.43.125's password:
Permission denied, please try again.
ros@192.168.43.125's password:
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.14.133-165 armv7l)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

Last login: Mon Aug 26 09:46:56 2019 from 192.168.43.15
ros@odroid = -
```

Kopieren Datei zu Computer:

```
dangalgLap:/media/dang/Data1/Studium/FUStudium/WS1920/Robotik$ scp ros@192.168.43.125:~/hello_car_ColakDang.txt ~
ros@192.168.43.125's password:
hello_car_ColakDang.txt

100% 54 9.0KB/s 00:00
dang@1glap:/media/dang/Data1/Studium/FUStudium/WS1920/Robotik$ scp ros@192.168.43.125:~/hello_car_ColakDang.txt ~/Dokumente/
ros@192.168.43.125's password:
hello_car_ColakDang.txt

100% 54 10.5KB/s 00:00
dang@1glap:/media/dang/Data1/Studium/FUStudium/HS1920/Robotik$
```

Aufgabe 2/

https://github.com/barisccolak/Robotik-W19-20

Aufgabe 3/

install ROS-Melodic:

```
dang@lglap:-5 sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'
[sudo] Passwort für dang:
dang@lglap:-5 sudo apt-key adv -keyserver 'hkp://keyserver.ubuntu.com:80' --recv-key ClCFGE31EGBADE886B8172B4F42EDGFBAB17CG54
Executing: /hpu/bac-keysgpdae.ha/GGSVIRGpl.ish --keyserver hkp://keyserver.ubuntu.com:80 --recv-key ClCFGE31EGBADE886B8172B4F42EDGFBAB17CG54
Executing: /hpu/bac-keysgpdae.ha/GGSVIRGPl.ish --keyserver hkp://keyserver.ubuntu.com/s0 --recv-key ClCFGE31EGBADE886B8172B4F42EDGFBAB17CG54
Executing: /hpu/bac-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-key ClCFGE31EGBADE886B8172B4F42EDGFBAB17CG54
Executing: /hpu-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-key ClCFGE31EGBADE86B8B172B4F42EDGFBAB17CG54
Executing: /hpu-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-key ClCFGE31EGBADE86B8B172B4F42EDGFBAB17CG54
Executing: /hpu-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-key ClCFGE31EGBADE86B8B172B4F42EDGFBAB17CG54
Executing: /hpu-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-keysgpdae.ha/GGSVIRGPl.ish --keyserver.lubuntu.com/s0 --recv-keysgpdae.ha/GGSVIRGPl.ish --recv-keysgpdae.ha/GGS
```

update Ros:

```
Angellabry-5 sudo rosdep intt

dangellabry-5 sudo rosdep intt

rosdep update

Angellabry-6 rosdep/sources.list.d/20-default.list

Recommended: please run

rosdep update

Angellabry-6 rosdep update

Angellabry-7 rosdep update
```

roscore run:

```
dang@lgLap:-$ roscore
... logging to /home/dang/.ros/log/c048ce20-f0c7-11e9-9c44-ccb0daf79125/roslaunch-lgLap-31260.log
Checking log directory for disk usage. This may take awhile.
Press Ctrl-c to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://lgLap:39069/
ros_comm version 1.14.3

SUMMARY
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PARAMETERS
  * /rosdistro: melodic
  * /rosversion: 1.14.3

NODES

auto-starting new master
process[master]: started with pid [31271]
ROS_MASTER_URI=http://lgLap:11311/

setting /run_id to c048ce20-f0c7-11e9-9c44-ccb0daf79125
process[rosout-1]: started with pid [31282]
started core service [/rosout]</pre>
```