

# Linux系统文件与 目录管理1



# 任务

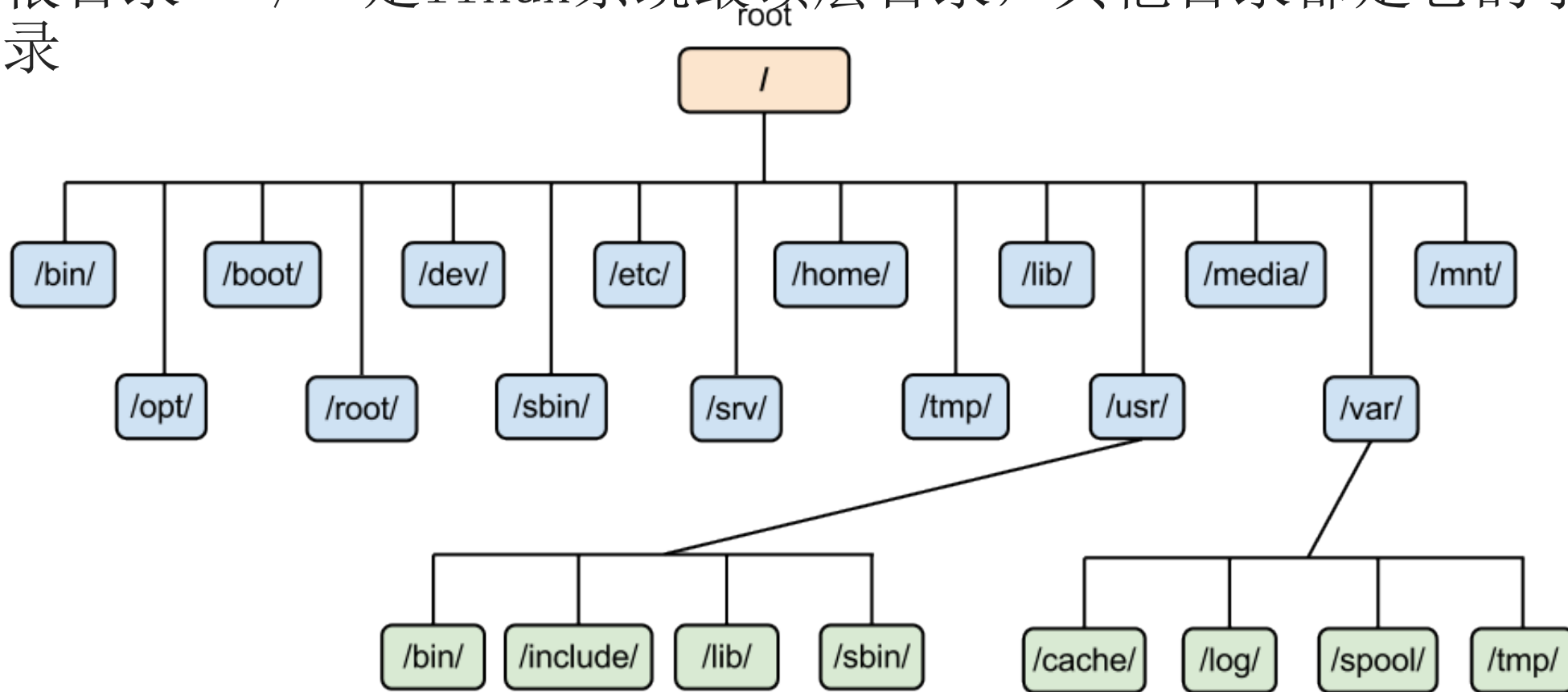
- 任务1: 了解文件和目录的概念
- 任务2: 文件管理命令
- 任务3: 查看文件内容命令

# 常用概念

- 根目录
- 家目录
- 当前目录
- 绝对路径
- 相对路径

# 根目录 “/”

根目录 “/” 是linux系统最顶层目录，其他目录都是它的子目录



# 家目录

- 类似于 Windows 系统中的用户文件夹，用于存放用户的个人数据
- 如：ros 用户的家目录： /home/ros，Linux系统中除root用户以外的其他用户家目录都在/home目录下

```
ros@ros-virtual-machine: ~  
ros@ros-virtual-machine: ~ 80x24  
ros@ros-virtual-machine:/$ cd home  
ros@ros-virtual-machine:/home$ pwd  
/home  
ros@ros-virtual-machine:/home$ ls  
ros  
ros@ros-virtual-machine:/home$ cd ros  
ros@ros-virtual-machine:~$ ls  
公共的  文档  catkin_ws          snap  
模板    下载  draw_face.sh      VMwareTools-10.3.22-15902021  
视频    音乐  ROS_message_bak.txt  VMwareTools-10.3.22-15902021.tar.gz  
图片    桌面  ROS_message.txt  
ros@ros-virtual-machine:~$
```

# /root 目录

- 根目录下面的的一个子目录，名字为root
- 它是管理员 root 用户的家目录

```
ros@ros-virtual-machine: /  
ros@ros-virtual-machine: / 80x24  
ros@ros-virtual-machine:~$ cd /  
ros@ros-virtual-machine:/$ pwd  
/  
ros@ros-virtual-machine:/$ ls  
bin      dev      lib      libx32   mnt      root     snap     sys      var  
boot     etc      lib32    lost+found  opt      run      srv      tmp  
cdrom    home    lib64    media    proc     sbin     swapfile  usr
```

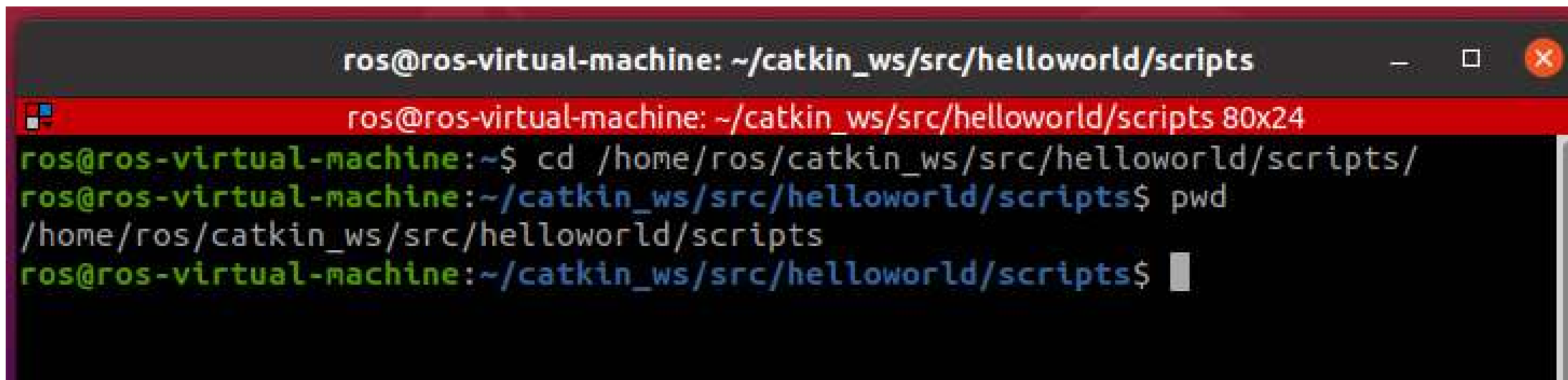
# 当前工作目录

- pwd 命令显示用户当前工作目录

```
ros@ros-virtual-machine: ~/桌面
ros@ros-virtual-machine: ~/桌面 80x23
ros@ros-virtual-machine:~/桌面$ pwd
/home/ros/桌面
ros@ros-virtual-machine:~/桌面$
```

# 绝对路径

- 绝对路径也就是全路径
- 从“/”要目录开始表示的目录，如

A terminal window screenshot showing a user navigating to an absolute path. The window title is "ros@ros-virtual-machine: ~/catkin\_ws/src/helloworld/scripts". The terminal text shows the user changing the directory to "/home/ros/catkin\_ws/src/helloworld/scripts/" and then running "pwd", which outputs the full absolute path. The terminal text is as follows:

```
ros@ros-virtual-machine: ~/catkin_ws/src/helloworld/scripts
ros@ros-virtual-machine: ~/catkin_ws/src/helloworld/scripts 80x24
ros@ros-virtual-machine:~$ cd /home/ros/catkin_ws/src/helloworld/scripts/
ros@ros-virtual-machine:~/catkin_ws/src/helloworld/scripts$ pwd
/home/ros/catkin_ws/src/helloworld/scripts
ros@ros-virtual-machine:~/catkin_ws/src/helloworld/scripts$
```



# 相对路径

- 相对于当前所在路径的子目录或文件
- 命令行表示路径时：左边不从根开始，直接从子目录或文件的名称开始表示
- 如：

```
ros@ros-virtual-machine: ~/catkin_ws/src/helloworld/scripts
ros@ros-virtual-machine: ~/catkin_ws/src/helloworld/scripts 80x24
ros@ros-virtual-machine:~$ cd catkin_ws/src/helloworld/scripts/
ros@ros-virtual-machine:~/catkin_ws/src/helloworld/scripts$ pwd
/home/ros/catkin_ws/src/helloworld/scripts
ros@ros-virtual-machine:~/catkin_ws/src/helloworld/scripts$
```

# 特殊目录

- . （一个小圆点）表示当前目录
- .. （二个小圆点）表示上一级目录

```
ros@ros-virtual-machine:~$ ls .
公共的  文档  catkin_ws          snap
模板    下载  draw_face.sh      VMwareTools-10.3.22-15902021
视频    音乐  ROS_message_bak.txt  VMwareTools-10.3.22-15902021.tar.gz
图片    桌面  ROS_message.txt
ros@ros-virtual-machine:~$ ls
公共的  文档  catkin_ws          snap
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视频    音乐  ROS_message_bak.txt  VMwareTools-10.3.22-15902021.tar.gz
图片    桌面  ROS_message.txt
ros@ros-virtual-machine:~$ ls ..
ros
ros@ros-virtual-machine:~$ pwd
/home/ros
ros@ros-virtual-machine:~$ █
```

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<https://d.book118.com/927125104065010003>