**计算机硬件：运算器、控制器、存储器、输入设备、输出设备**

**存储单位：KB = K Byte**

**速度单位：M / s = M bit / s**

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| **用户：root** | **密码：1400721986** |
| **ssh star-zanjia@10.23.12.158 -P 22** | **连接Linux主机** |

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| **Xshell快捷键：** | | | | | |
| **Ctrl + C** | **终止** | **Ctrl + Ins** | **复制** | **Shift + Ins** | **粘贴** |

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| **系统控制：** | | | |
| **电源** | **shutdown -h now** | **关机** | |
| **reboot** | **重启** | |
| **防火墙** | **systemctl status firewalld** | **查看状态** | |
| **systemctl stop firewalld** | **暂时关闭** | |
| **systemctl disable firewalld** | **禁用** | |
| **网络** | **ip addr** | **IP地址** | |
| **systemctl restart network.service** | **重启网卡** | |
| **server network restart** |
| **命令** | **type** | **类型** | |
| **help** | **帮助** | |
| **whereis** | **文件位置** | |
| **file** | **文件类型** | |
| **yum install** | **安装命令** | |
| **用户** | **who** | **在线用户** | |
| **whoami** | **我的用户** | |
| **useradd** | **创建用户** | |
| **目录** | **which python** | **查找Python解释器路径** | |
| **cd** | **转移工作目录** | |
| **pwd** | **当前工作目录** | |
| **ls** | **文件** | **名称列表** |
| **ll** | **详情列表** |
| **访问** | **cat** | **内容** |
| **head -N** | **前N行** |
| **tail -N** | **末N行** |
| **tail -f** | **监控Inode末行** |
| **stat** | **状态** |
| **文件** | **find <path> -name <file>** | **查找文件** | |
| **mv** | **剪切文件 / 目录 (重命名)** | |
| **cp** | **拷贝** | **文件** |
| **cp -r** | **目录** |
| **mkdir -p** | **创建** | **多级目录** |
| **touch** | **文件** |
| **rmdir** | **删除** | **空目录** |
| **rm -rf** | **文件 / 目录** |
| **ln -s** | **创建链接 (默认hard)** | |
| **tar -xzvf .tar.gz** | **解压文件** | |
| **设备** | **uname -a** | **内核信息** | |
| **ps -ef** | **输出进程列表** | |
| **top** | **进程占用信息** | |
| **free -g** | **内存占用信息** | |
| **env** | **环境变量** | |
| **输出** | **clear** | **清除命令行** | |
| **echo** | **输出语句** | |
| **history** | **命令历史** | |
| **history -c** | **清除历史** | |
| **环境**  **变量** | **source .bashrc** | **刷新环境变量** | |
| **source activate Torch** | **激活conda虚拟环境** | |

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| **文件编辑vi ：** | | | | | |
| **dd** | **删除本行** | **i** | **编辑模式** | **u** | **撤销操作** |
| **:q** | **不保存退出** | **:wq** | **写入保存** |  |  |

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| **文件阅读more ：** | | | | | |
| **ENTER** | **下一行** | **SPACE** | **下一页** | **b** | **上一页** |
| **q** | **退出** | **h** | **帮助** |  |  |

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| **变量：** | |
| **key=value** | **定义变量** |
| **$key** | **解析变量** |

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| **特殊字符：** | | | | | | | | | | | |
| **.** | **当前目录** | **..** | **上级目录** | **\*** | **通配符** | **|** | **传递参数** | **$** | **当前进程** | **{ }** | **集合** |
| **/** | **根目录** | **~** | **用户目录** |  |  |  |  |  |  |  |  |

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| **文件位置：** | | |
| **/opt** | | **额外软件** |
| **/proc/cpuinfo** | | **CPU配置** |
| **/etc/sysconfig/network-scripts/ifcfg-ens33** | | **网络配置** |
| **BOOTPROTO=static** | **ONBOOT=yes** | **DNS1=114.114.114.114** |
| **GATEWAY=(网关)** | **IPADDR=(子网IP)** | **NETMASK=(子网掩码)** |
| **/etc/resolv.conf** | | **网关配置** |
| **nameserver (网关)** | |  |
| **/etc/selinux/config** | | **安装限制** |
| **/etc/sysconfig/static-routes** | | **路由配置** |
| **any net default gw 192.168.3.1** | |  |

**/home/star-zanjia/anaconda3/etc/profile.d/conda.sh**

**git版本控制：**

**Window版本：msysGit**

**C:/Users/huawei/.ssh下执行ssh-keygen -t rsa生成公钥 \*.pub**

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| **git config** | | | |
| **位置** | **--system** | **系统 ~/Git/etc/gitconfig** | |
| **--global** | **全局 C:/Users/huawei/.gitconfig** | |
| **user.name** | **用户名** |
| **user.email** | **用户邮箱** |
| **--local** | **仓库 ~/.git/config** | |
| **core.sparsecheckout** | **稀疏签出 (指定签出目录**  **~/.git/info/sparse-checkout)** |
| **方法** | **-l** | **属性列表** | |
| **--add <key> <value>** | **添加属性** | |
| **--unset <key>** | **移除属性** | |



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| **仓库管理：** | | |
| **创建** | **git init <path>** | **初始化仓库** |
| **git clone <url>** | **克隆仓库到当前目录** |
| **分支** | **git branch** | **查看 (-r 表远程)** |
| **git branch checkout <name>** | **切换** |
| **git branch <name>** | **新建** |
| **git branch -d <name>** | **删除** |
| **签出** | **git checkout <path>** | **暂存区 → 本地** |
| **git sparse-checkout init/disable** | **启用/停用稀疏签出** |
| **git sparse-checkout list** | **文件列表** |
| **暂存** | **git ls-files** | **文件列表** |
| **git status <path>** | **文件状态 (.gitignore 文件白名单)** |
| **git add <path>** | **本地 → 暂存区** |
| **git commit -m <msg>** | **暂存区 → 仓库** |
| **仓库** | **git ls-files --with-tree=HEAD** | **文件列表** |
| **git rm <path>** | **删除文件** |
| **git reflog** | **获取版本信息** |
| **git reset --hard <vid>** | **回退到指定版本** |
| **远程** | **git remote -v** | **查看关联关系** |
| **git remote add <name> <url>** | **关联远程仓库** |
| **git remote rm <name>** | **删除关联关系** |
| **git remote set-url <name> <url>** | **修改url** |
| **git remote rename <old> <new>** | **修改名称** |
| **git push <name> <branch>** | **仓库 → 远程** |
| **git pull <name> <branch> -f** | **远程 → 仓库** |
| **文件** | **git lfs install** | **附加大文件管理拓展** |
| **git lfs track/untrack <file>** | **修改文件跟踪状态** |
| **git lfs ls-files** | **文件列表** |
| **git lfs status** | **文件状态** |

**docker镜像管理：**

**{**

**"registry-mirrors": ["https://cr.console.aliyun.com/cn-hangzhou/instances/mirrors 获取加速器"]**

**}**

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| **dockerFile：** |
| **FROM <image> # 镜像源**  **MAINTAINER <name> # 作者信息**  **RUN <cmd> # docker build时执行命令**  **CMD <cmd> # docker run时执行命令**  **ENV <key>=<value> # 环境变量**  **ARG <key>=<value> # docker build局部变量**  **VOLUME ["<c\_path>", "<c\_path>"] # 匿名数据卷**  **WORKDIR <c\_path> # 切换工作目录** |

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| **镜像** | **docker images** | **查看镜像列表 (-q只显示ID)** |
| **docker rmi <image>** | **删除镜像** |
| **docker tag <old> <new>** | **重命名镜像** |
| **docker search <image>** | **返回Docker Hub的搜索结果** |
| **docker pull <image:tag>** | **远程 → 仓库** |
| **docker build -f <dockerFile> -t <image:tag> .** | **根据dockerFile创建镜像** |
| **容器** | **docker ps -a** | **查看容器列表** |
| **docker rm <ctn>** | **删除容器** |
| **docker start/restart/stop/kill <ctn>** | **容器管理** |
| **docker attach <ctn>** | **进入容器的当前终端** |
| **docker run --name <name>**  **-v <l\_path:c\_path:ro> --volume-from <ctn>**  **-it <image:tag> </bin/bash>** | **镜像 → 容器** |
| **docker commit -a="auther" -m="msg" <ctn> <image:tag>** | **容器 → 镜像** |
| **docker logs <ctn>** | **输出容器日志** |
| **docker top <ctn>** | **输出容器进程信息** |
| **docker inspect <ctn>** | **输出容器元数据** |
| **docker port <ctn>** | **输出容器端口映射** |
| **docker cp <ctn:path> <path>** | **拷贝文件** |
| **卷** | **docker volume ls** | **查看卷列表** |
| **docker volume prune -a** | **清理未使用的卷** |
| **docker volume inspect <volume>** | **输出卷的元数据** |
| **远程** | **docker login -u <zanjiatong>** | **登录Docker Hub** |
| **docker push <image:tag>** | **镜像 → 远程** |

