

实验二： 集群的访问与基本操作

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Outline

- Linux的基本操作
- 集群的访问与使用

Linux常用目录

常用的两个目录

1. /home

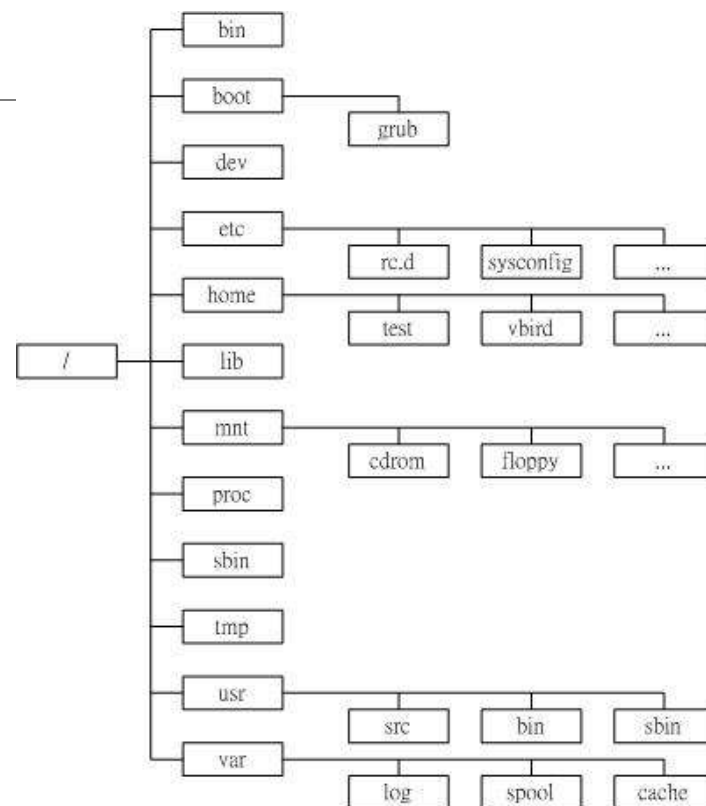
包含各个用户的用户目录

/home/wxt

2. /usr

Unix Software Resource, 各种软件安装的目录

/usr/local



Linux的基本操作

Shell

- 用户使用Linux的桥梁
- 用户输入提交命令来访问操作系统的内核服务

常用Linux系统命令

命令	含义
cd /home/hadoop	进入目录/home/hadoop
cd ..	返回上一级目录
ls	查看当前目录中的文件
cat /home/hadoop/word.txt	把/home/hadoop目录下的word.txt内的内容输出到终端
cp /home/hadoop/word.txt /usr/local	把/home/hadoop目录下的word.txt文件拷贝到/usr/local中去
rm ./word.txt	删除当前目录下的word.txt
ifconfig	查看本地ip信息
tar -zxf /home/hadoop/hadoop2.7.3.tar.gz -C /usr/local	将/home/hadoop目录下的hadoop2.7.3.tar.gz解压到/usr/local目录下
vim /home/hadoop/word.txt	利用vim编辑器编辑/home/hadoop目录下的word.txt文件
exit	退出并关闭Linux终端

修改用户密码

passwd 用户名

输入一次当前密码后回车

输入新密码

再次确认新密码

集群的访问与使用

Windows平台下访问远程服务器

1. 创建VPN

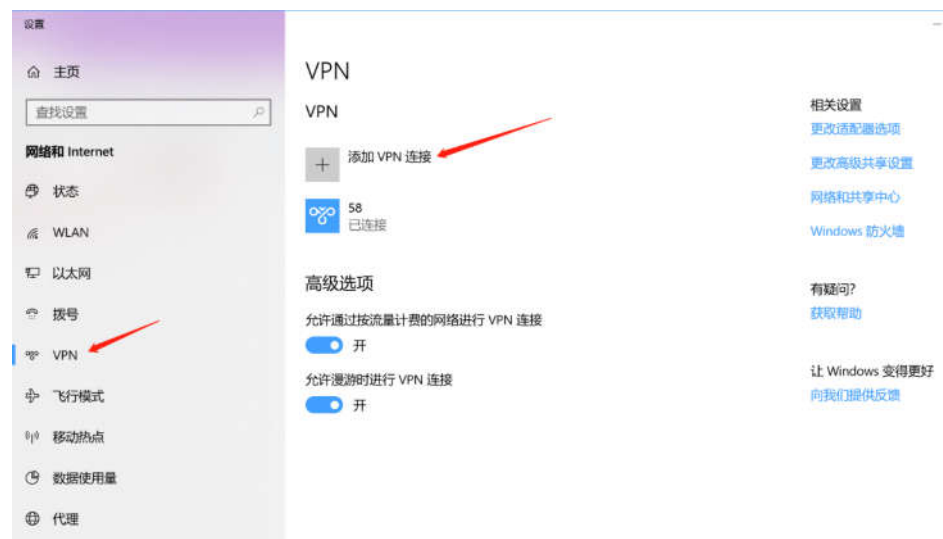
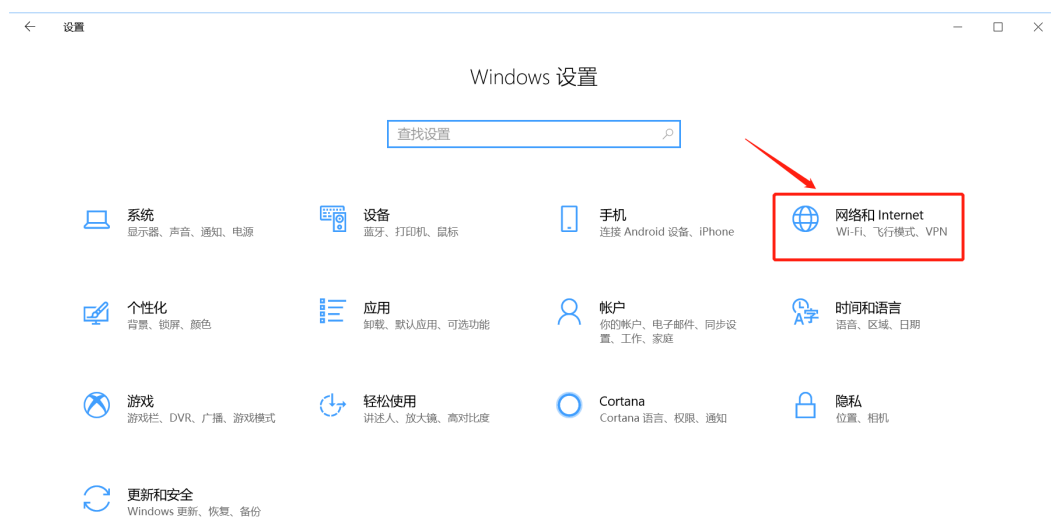
2. 工具

- WinSCP
- Xshell / PuTTY

创建VPN

Windows10 下创建VPN示例

1. Windows设置-> 网络和Internet -> VPN -> 添加VPN连接

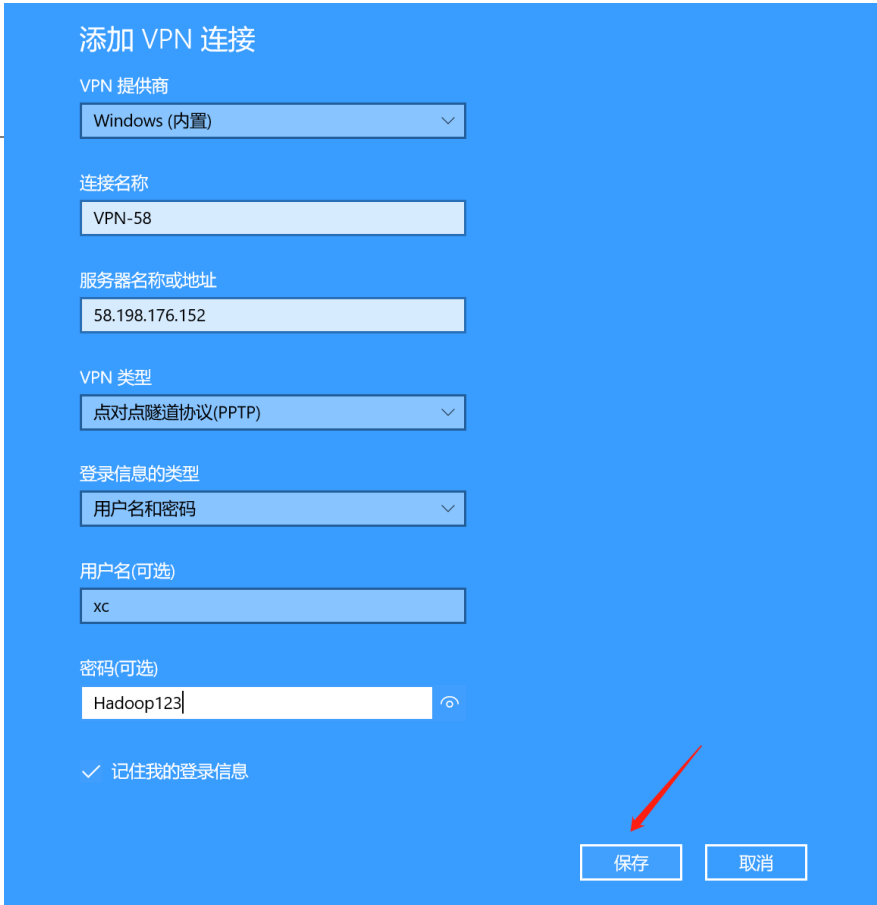


创建VPN

Windows10 下创建VPN示例

2. 填写VPN配置信息

- VPN提供商选择Windows内置
- 连接名称可自定义
- 服务器名称或地址为58.198.176.152
- VPN类型选择点对点隧道协议PPTP
- 用户名和密码分别是xc和Hadoop123



添加 VPN 连接

VPN 提供商
Windows (内置)

连接名称
VPN-58

服务器名称或地址
58.198.176.152

VPN 类型
点对点隧道协议(PPTP)

登录信息的类型
用户名和密码

用户名(可选)
xc

密码(可选)
Hadoop123

☒ 记住我的登录信息

保存 取消

工具 - XShell

- 远程终端工具

- 下载安装

注册提交后会往邮箱里发送下载链接

安装时输入注册时的姓名和单位就可以了

The screenshot shows the 'Xshell 6 Download' page. On the left is a sidebar with 'Product Download' (containing 'Latest Products' and 'Previous Products'), 'Font Download', and 'Free License'. The main content area has a title 'Xshell 6 Download' and a disclaimer. Below this is a section for 'Evaluation user / Home & School user' with a radio button selected. It contains a 'License type' dropdown menu, and input fields for 'First Name', 'Last Name', 'Company', and 'Email'. There is also a checkbox for 'I agree to receive emails...'. Below this is an 'Existing customer' section with a 'Product key' input field. At the bottom are 'Back' and 'Submit' buttons. Red arrows with numbers 1 through 6 point to the following elements: 1. The 'Evaluation user / Home & School user' radio button; 2. The 'License type' dropdown menu; 3. The 'First Name' input field; 4. The 'Company' input field; 5. The 'Email' input field; 6. The 'Submit' button.

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☒ **Evaluation user / Home & School user**

License type *

First Name *

Last Name *

Company

Email *

☒ I agree to receive emails concerning occasional promotional discounts and/or special events.

☐ **Existing customer**

Product key *

1. 选择
2. 选择Education
3. 输入姓名
4. 输入华师大英文名
5. 输入学校邮箱
6. 点击提交

工具 - XShell

如何访问远程服务器

1. 创建会话

2. 配置会话信息

a. 名称可自定义

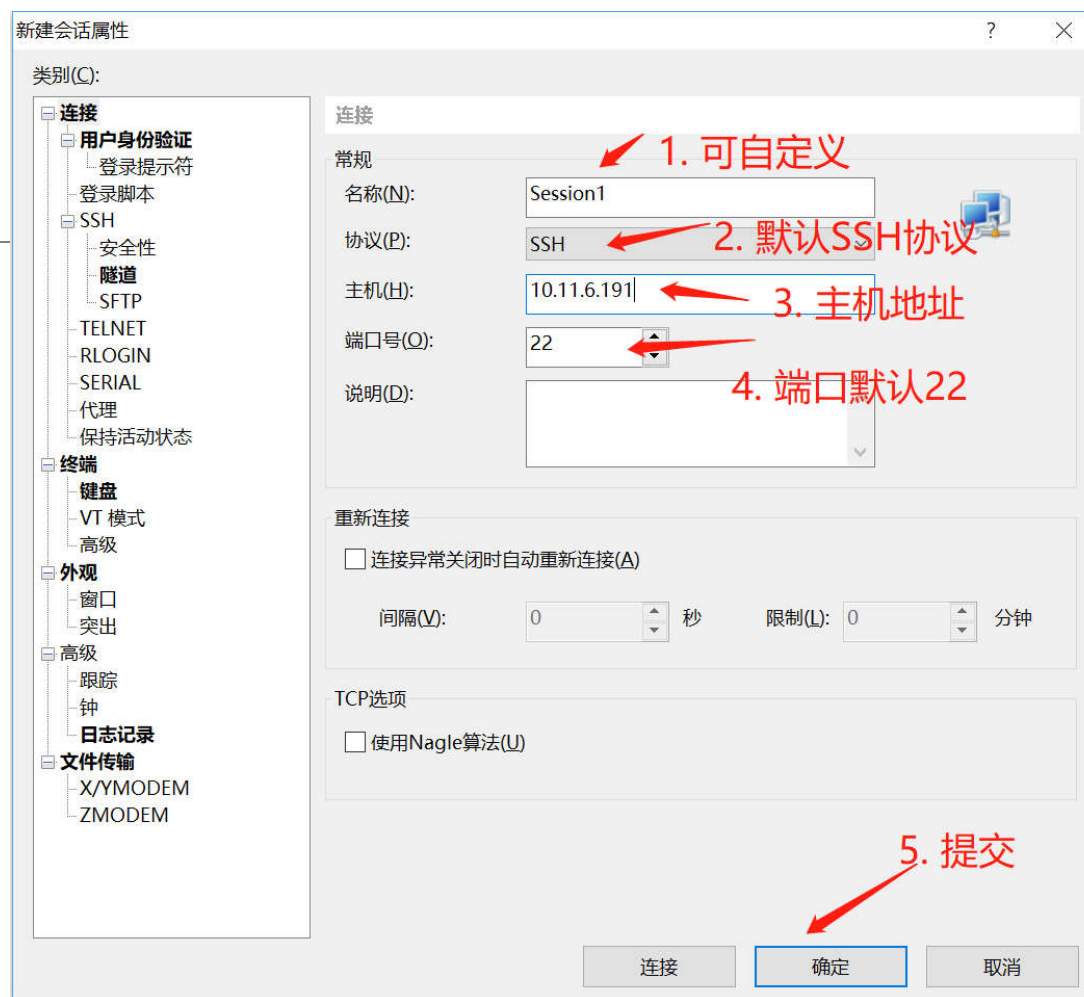
b. 协议类型选择SSH

c. 主机地址为10.11.6.91

d. 端口号默认为22

3. 输入用户名和密码

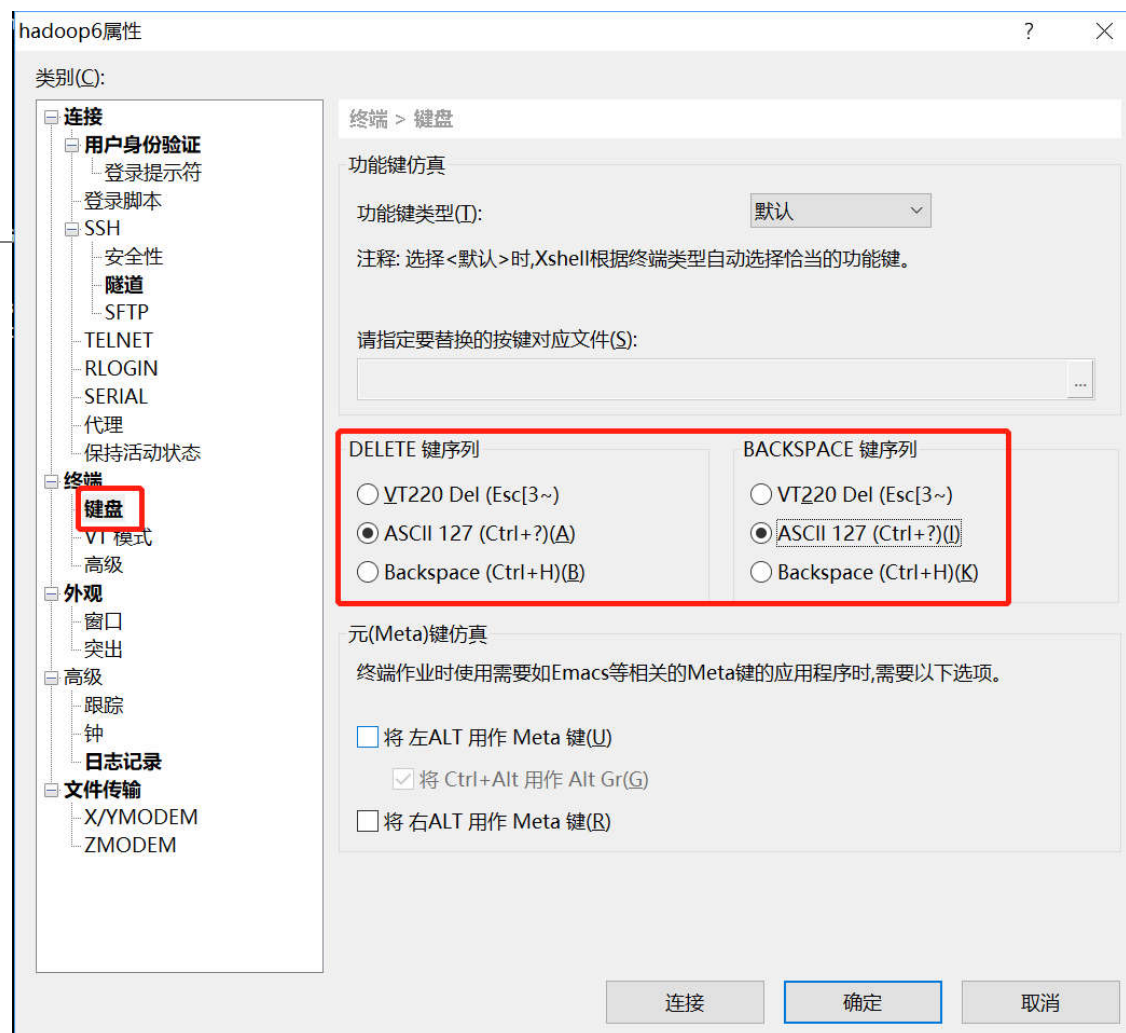
hadoopX和hadoopX



工具 - XShell

- 如何访问远程服务器

4. 设置delete和Backspace编码



工具-WinSCP

开源图形化SFTP客户端，方便本地与远程服务器之间的文件传输

1. 点击新建会话
2. 文件协议默认为SFTP
3. 输入服务器地址10.11.6.91，端口号默认为22
4. 输入用户名和密码，分别是hadoopX和hadoopX
5. 点击登录

