Getting Started

Learning Objectives

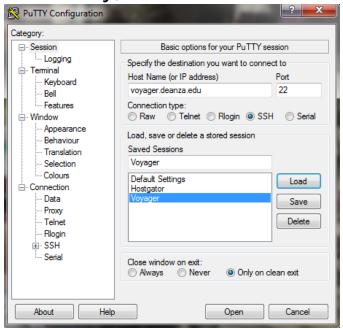
- Connect to the Linux system
- Login authentication
- Issue commands
- Find documentation
- Display system information

Accessing Linux

- Option 1 Walk to the ACT Lab
 - Choose among Windows, Mac OS X, and Linux
- Option 2 Remote login with Secure Shell (SSH)
 - Utility to connect to remote servers
 - Can run commands, copy files, etc.
 - Require account on remote server
 - Provide a secure, encrypted connection
 - Requires SSH client

Using SSH to Reach Voyager (Windows)

- PuTTy is a free SSH client
 - Single file to download. Just run putty.exe
 - Lots of options available (generally unnecessary)
- SecureCRT
 - Free from Umass OIT



Using SSH to Reach Voyager (OS X)

- Open terminal and type
 - ssh voyager.deanza.edu



Verifying SSH Server Identity

- Must verify server identity the first time you connect
- Every server has a unique RSA fingerprint
- Generally you can trust that the server is correct. So just type "yes"
- Only will ask the first time you connect to the server, or if the server changes.

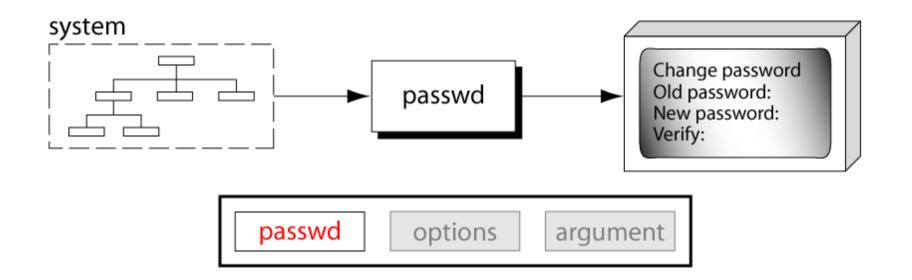


Login

- The process of identifying yourself to the system
- Linux keeps track of login activities
- Once logged in, the shell starts



Change Password



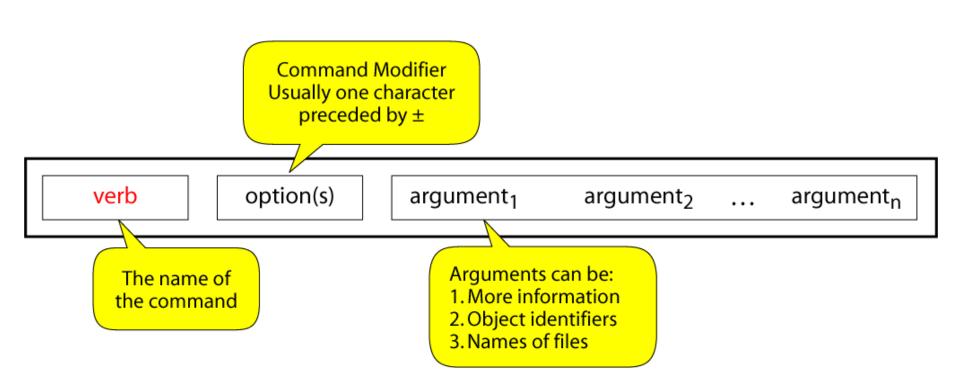


Lowdown on Passwords

- Protect your password
- At least 6 characters long
- Choose a hard-to-guess password
- Include non-alphanumeric
- Auto generate password using pwgen

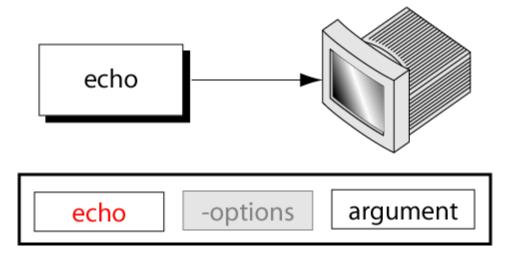


General Command Format





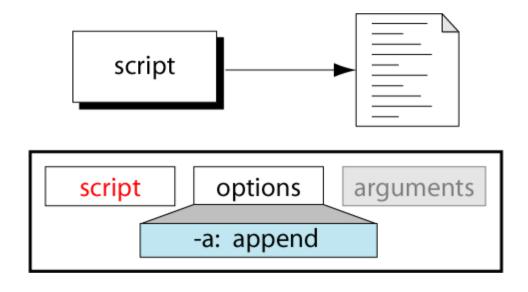
The echo Command



- echo is one the bash builtins
- echo writes stuff to the terminal



Record a Session with script





Edit Command Line

- Erase a character
 - BACKSPACE
 - DEL
 - CONTROL-H
- Delete a word
- Delete a line
- Repeat a command



Some Command Line Tips

- Press <TAB> to auto complete a command, file name, etc.
- Press Up and Down to scroll through recently run commands

Abort Execution

- To terminate a running program:
 - CTRL-C
 - Or sometimes DEL



Control Key Commands

ctrl-s freezes the screen and stops any display on the screen from continuing (equivalent to a no-scroll key) (sometimes takes a moment to work)

ctrl-q un-freezes the screen and lets screen display continue **ctrl-c** interrupts a running program

ctrl- same as ctrl-c but stronger (used when terminal doesn't respond)

ctrl-z suspends a running program (use the fg command to continue the program)

ctrl-h deletes last character typed

ctrl-w deletes last word typed

ctrl-u deletes last line typed

ctrl-r redraws last line typed

ctrl-d ends text input for many UNIX programs, including mail and write.

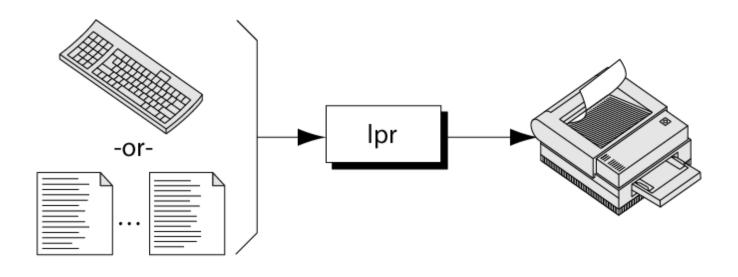


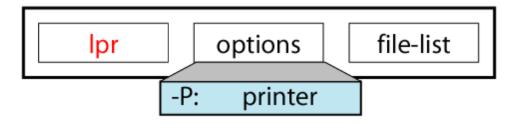
Get Help with man

- To access a man page:
 - man [command]
- To find a specific man page:
 - man -k [command]
 - man l [command]
- Alternatively, use:
 - apropos [command]
 - whatis [command]



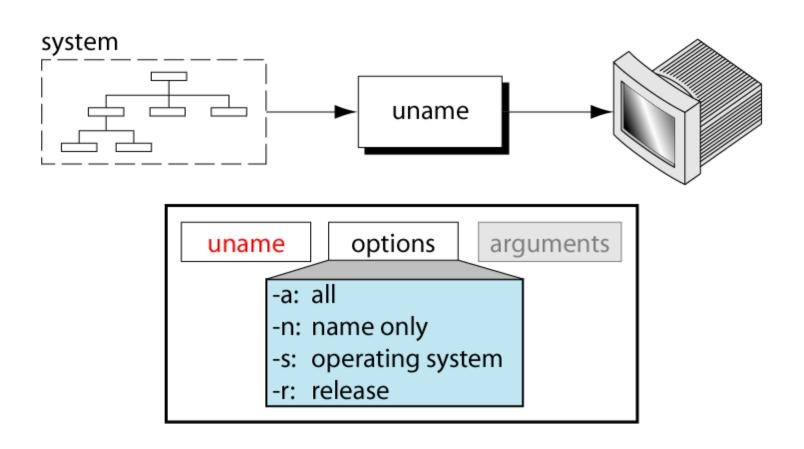
The 1pr Command





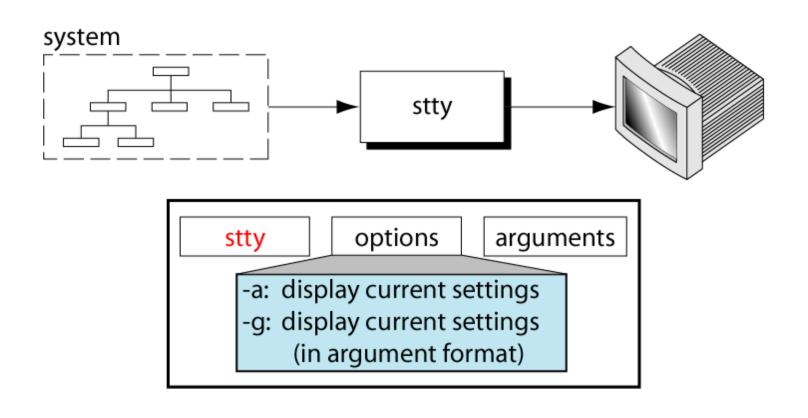


The uname Command

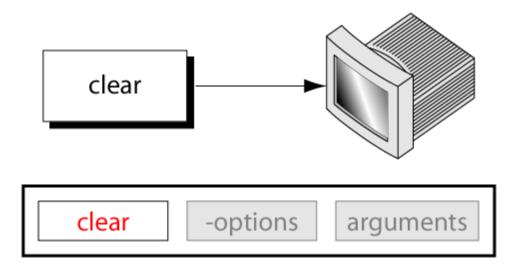




Fixing Terminal Setting with stty



The clear Command





Log Out

- Logout Exit a login shell
- Or exit
- Or quit