Shell History and Autocompletion

What You Will Learn

- Shell History
- Exclamation Mark Syntax
- Autocompletion

Shell History

- Executed commands are added to the history.
- Shell history can be displayed and recalled.
- Shell history is stored in memory and on disk.
 - ~/.bash_history
 - ~/.history
 - 。 ~/.histfile

history Command

history Displays the shell history.

HISTSIZE Controls the number of commands to retain in history.

export HISTSIZE=1000

! Syntax

! N Repeat command line number N.

!! Repeat the previous command line.

!string Repeat the most recent command starting with "string."

More! Syntax

!:N <Event> <Separator> <Word>
! Represents a command line (or event).
! = The most recent command line.
! = !!
:N Represents a word on the command line.

0 = command, 1 = first argument, etc.

! Syntax Examples

```
$ head files.txt sorted files.txt notes.txt
<Output from head command here>
$ !!
head files.txt sorted files.txt notes.txt
<Output from head command here>
$ vi !:2
vi sorted files.txt
<vi editor starts>
```

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Even More! Syntax

- !^ Represents the first argument. $!^{-} = !:1$
- ! \$ Represents the last argument.

```
$ head files.txt sorted_files.txt notes.txt
!^ = files.txt
!$ = notes.txt
```

Searching Shell History

Ctrl-r Reverse shell history search

Enter Execute the command

Arrows Change the command

Ctrl-g Cancel the search

Tab Completion

- Tab autocompletion
 - Commands
 - Files, directories, paths
 - Environment Variables
 - Usernames (~)

Summary

- Shell History
- Exclamation Mark Syntax
- Autocompletion