

More on Redirection

Talk to a Teacher Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://www.sakshat.ac.in>

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Learning Objectives



Learning Objectives

- ▶ **Redirection of both standard error and output**



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- ▶ **Redirection of both standard error and output**
- ▶ **Appending redirected output**



Learning Objectives

- ▶ **Redirection of both standard error and output**
- ▶ **Appending redirected output**
- ▶ **With the help of some examples**



Prerequisite



Prerequisite

- ▶ Knowledge of Shell Scripting



Prerequisite

- ▶ Knowledge of **Shell Scripting**
- ▶ If not, for relevant tutorials please visit <http://spoken-tutorial.org>



System Requirements



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- ▶ **Ubuntu Linux 12.04 OS**



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- ▶ **GNU Bash version 4.2**



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- ▶ **Ubuntu Linux 12.04 OS**
- ▶ **GNU Bash version 4.2**
- ▶ **GNU Bash version 4 or above is recommended for practice**



Redirection of stderr and stdout



Redirection of stderr and stdout

- ▶ **stderr** and **stdout** can be redirected to the same file



Redirection of stderr and stdout

- ▶ **stderr** and **stdout** can be redirected to the same file
- ▶ **Can be done in multiple ways**



Redirection of stderr and stdout



Redirection of stderr and stdout

- ▶ `& >`
- ▶ **Syntax:** `command & > filename`



Redirection of stderr and stdout



Redirection of stderr and stdout

- ▶ `2 > &1`

- ▶ **Syntax:**

`command > /dev/null 2 > &1`



/dev/null



/dev/null

- ▶ It is a special kind of file



/dev/null

- ▶ It is a special kind of file
- ▶ It is a null file or a place where we can dump anything



/dev/null

- ▶ It is a special kind of file
- ▶ It is a null file or a place where we can dump anything
- ▶ It includes the output and error messages



/dev/null

- ▶ It is a special kind of file
- ▶ It is a null file or a place where we can dump anything
- ▶ It includes the output and error messages
- ▶ Called as bit bucket



Append redirected output



Append redirected output

- ▶ **We can capture as well as append standard output or error to a file**



Append redirected output

- ▶ We can capture as well as append standard output or error to a file
- ▶ **The output or the error will be appended at the end of the file**



Append redirected output

- ▶ We can capture as well as append standard output or error to a file
- ▶ The output or the error will be appended at the end of the file
- ▶ **If the file does not exist, it will create a new file**



Syntax



Syntax

Syntax:

- ▶ *command* >> *file*



Summary



Summary

- ▶ **Redirection of both standard error and output**



Summary

- ▶ **Redirection of both standard error and output**
- ▶ **To append redirected output**



Assignment

- ▶ Create **X_file.txt** file with some content
- ▶ Redirect the content of both **out_file.txt** and **X_file.txt** to a new file



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarizes the Spoken Tutorial project



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Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Acknowledgment

- ▶ Spoken Tutorial Project is a part of the Talk to a Teacher project
- ▶ It is supported by the National Mission on Education through ICT, MHRD, Government of India
- ▶ More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>

