Name Click here to enter name ID Click here to enter id

Redirection Operators

Exercise 2.9

# Instructions

Answer all questions directly in this document. You will save and upload this completed document as your homework submission.

# Overview

This exercise presents a few practice drills involving PowerShell redirection operators.

# Setup

## Requirements

* PowerShell

# Task —Redirection operators

A redirection operator “redirects” the output of a command to a file. The **>** operator creates a new file whereas the **>>** operator appends to an existing file (if the file does not exist, it creates the file).

The operators **2>** and **2>>** redirect error messages to a file.

## Steps

1. Change your current directory to your temporary folder: **cd \TEMP** (Windows), **cd /tmp** (Linux)
2. Redirect standard output to a file
   1. Save you process list to a file  
      get-process > profile.txt
   2. View the contents of the file  
      Get-Content profile.txt
   3. Add a list of aliases to the end of **profile.txt**  
      get-alias >> profile.txt
   4. Confirm the data was added to the file.
3. Now let’s redirect some error output. PowerShell has several output streams. Stream #2 is the error stream.
   1. Create some folders to work with:  
      1..4|%{New-Item -Type Directory -Name "out$\_"}   
      Then use Get-ChildItem to see the new folders.  
      You should see four of them: out1, out2, out3, out4
   2. Delete the files with some errors  
      0..5|%{Remove-Item "out$\_"}
   3. This should have deleted the files you created and tried to delete two files that do not exist, causing a couple of errors.
   4. Recreate the files. *(Reminder: don’t retype it. Use the up-arrow key to get it from your history)*  
      1..4|%{New-Item -Type Directory -Name "out$\_"}
   5. Now delete the files again, but this time redirect the errors to a file named **errors.txt**  
      0..5|%{Remove-Item "out$\_"} 2> errors.txt

Describe what is in errors.txt. Click or tap here to enter text.

# Wrap-up

Optional: clean up the files you created in the temporary folder:  
**Remove-Item profile.txt errors.txt**

# Deliverable

Upload this document with completed answers to I-Learn Canvas.