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COE196P

User Manual

Batch Interpreter - bida\_bida.bash

The bida\_bida.bash is a script that distributes files inside /root/Config to the home directory as indicated by the batch.cfg file.

Note:

bida\_bida.bash can only be edited and executed by root, other users only have read permission

Invoking bida\_bida.bash:

To Execute bida\_bida.bash, type “bida\_bida.bash” in the terminal

Under Normal Execution, the bida\_bida script will prompt the user to output the log file, type y or Y to display n or any other character otherwise.

Example Code Execution:

root@unixuser-virtual-machine:~# bida\_bida.bash

Display Log File [y/n] ? : y

12/09/16 04:10:48 PM PHT : Log Start

12/09/16 04:10:48 PM PHT : Batch file opened ----------

12/09/16 04:10:48 PM PHT : User mae2 home directory is missing

12/09/16 04:10:48 PM PHT : File F1 already exists at maemae home

12/09/16 04:10:48 PM PHT : File F6 does not exist

12/09/16 04:10:48 PM PHT : File F9:F4 does not exist

12/09/16 04:10:48 PM PHT : File F1 already exists at root home

12/09/16 04:10:48 PM PHT : Script terminated without unexpected errors

12/09/16 04:12:03 PM PHT : Batch file opened ----------

12/09/16 04:12:03 PM PHT : User mae2 home directory is missing

12/09/16 04:12:03 PM PHT : File F1 already exists at maemae home

12/09/16 04:12:03 PM PHT : File F6 does not exist

12/09/16 04:12:03 PM PHT : File F9:F4 does not exist

12/09/16 04:12:03 PM PHT : File F1 already exists at root home

12/09/16 04:12:03 PM PHT : Script terminated without unexpected errors

root@unixuser-virtual-machine:~#

The log file indicates whether the entries in the batch.cfg were copied successfully, if not the log file will indicate the error scenario for each and ever entry for the batch.cfg

Troubleshooting:

root@unixuser-virtual-machine:~# bida\_bida.bash

Er: batch.cfg does not exist, run master\_data to create one

root@unixuser-virtual-machine:~#

The error indicates that the batch.cfg file where bida\_bida needs to tell what files are to be sent to users is missing. Run master\_data.bash (batch.cfg editing utility) to create and modify the file.

root@unixuser-virtual-machine:~# bida\_bida.bash

Bad log file creating one now

The script will indicate that the log file is missing, no further actions are needed as the script will automatically create a new one.

Batch Editor - master\_data.bash

The master\_data.bash is a editing utility for the batch.cfg file. It can Add, Edit, and Delete entries. Changes to the master\_data.bash are not automatically applied to the batch.cfg file until the user selected Save in the selection menu.

Note:

master\_data.bash also has the same permissions as the bida\_bida.bash. Only root can edit and execute

Invoking master\_data.bash:

To execute master\_data.bash, type “master\_data.bash” in the terminal

Under normal code execution, The script will output a menu detailing what actions can the user do. Type the corresponding letter (indicated by the bracket) to invoke the function. Entering letters other than what is indicated will output an “Input Unexpected” error.

root@unixuser-virtual-machine:~# master\_data.bash

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [Q]uit ? :

Adding Entries

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [Q]uit ? : A

[+]--Add Mode

Username: maetaba

File: F3

Title: Mrs

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? :

Under normal code execution The Add function will ask for three inputs: the username, the file to be copied and the title of the user name. After add is complete the user will return to the menu.

*Troubleshooting Add*

Special Characters:

The Add function catches exceptions made by invalid inputs by the user. For example typing a username with a special character will yield the error: “No Special Characters Allowed”. It will then ask for the user to repeat a valid username

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [Q]uit ? : A

[+]--Add Mode

Username: sudgskd:

Er: No Special Characters Allowed

Username: sudgskd

The input for “Title” also checks for Special characters and will output the same error. Only file is allowed to have special characters.

Empty Strings:

“Username”, “File” and “Title” must not be an empty string. Entering without typing anything will yield the error: “Empty string”. Input will repeat until valid.

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [Q]uit ? : A

[+]--Add Mode

Username:

Er: Empty String

Username:

Duplicates:

The Batch file is restricted to have unique combination of username and file. If you will try to add Entries that are already present in the batch file, the script will output an error: “No duplicates allowed, Exiting Add”. Enter “A” again to repeat Add

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? : A

[+]--Add Mode

Username: maetaba

File: F3

Er: No Duplicates Allowed, Exiting Add

Warnings:

The Add function checks whether the username entered is exists or a system account, also it also checks whether the entered file exists. If the script detected these checks, it will output these warnings and prompt the user if he or she will add anyway ( for the user to perform useradd or locate the file later). Type “y” to add anyways or “n” or otherwise to disregard the inputted username, and file combination

[A]dd, [E]dit, [D]elete, [Q]uit ? : A

[+]--Add Mode

Username: root

File: F999

Warnings: File does not exist, System Account

Add Anyway ? [y/n]: y

Title: Mr

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? :

Saving Entries

Notice that upon successfully completing the Add function with no errors, the menu will add a Save functionality. This will push the current changes to the batch.cfg file. Type S to save, if you want to disregard changes Type Q.

*Troubleshooting Save:*

Typing S in the menu without creating changes will result to an error: “No changes were detected”.

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [Q]uit ? : S

Er: No changes were detected

Editing entries

The edit function asks for the username in the batch.cfg you want to edit. Under normal execution, The function will look for all the entries bearing with the same username and will prompt the user for a file that will replace the current file entry.

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? : E

[/]--Edit Entries

Username: maemae

Editing User maemae of File F2

Enter new File (default: no change): F1

Editing User maemae of File F3

Enter new File (default: no change):

[Batch.cfg Editor]

Tip: To make no changes to a specific entry, enter with no input.

*Troubleshooting Edit*

Empty Strings:

The edit function does not allow the username entry to be empty and outputs “Empty string” otherwise

New File is same as the old:

If you entered the same file you are to replace, the script will output “NEW file required!” and will repeat input for the entry.

[/]--Edit Entries

Username: maemae

Editing User maemae of File F1

Enter new File (default: no change): F1

Er: NEW file required!

Editing User maemae of File F1

Enter new File (default: no change):

Duplicates:

In the event that the resulting edit will lead to a duplicate, the script will output “Input will result to a duplicate” error and will repeat input for that entry

Editing User maemae of File F1

Enter new File (default: no change): F3

Er: Input will create duplicate

File does not exist Warning:

When the new file entered is checked to be non existing, the script will prompt that it does not exist. And will ask for the user to whether disregard the edit or add anyways ( for the user to locate or touch the file later). Entering “n” will repeat the entry, otherwise changes will be applied.

Enter new File (default: no change): F90

Er: File Does not exist

Add Anyway ? [y/n]: n

Editing User maemae of File F1

Deleting Entries

The delete function asks for the username and the file, matches of the combination in the batch file will delete the entry, if the delete is successful the script will return to the menu.

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? : D

[x]--Delete Entry

Username: maemae

File: F1

[Batch.cfg Editor]

*Troubleshooting Delete*

Empty Strings:

The edit function does not allow the username and file entry to be empty and outputs “Empty string” otherwise

No Entries to delete:

If the entered combination does not exist in the batch file the script will output “No Entries to delete”

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? : D

[x]--Delete Entry

Username: maemae

File: F3

No Entries to Delete.

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [S]ave, [Q]uit ? :

Exiting

To terminate the batch editor. Type Q in the menu to return to the terminal

[Batch.cfg Editor]

[A]dd, [E]dit, [D]elete, [Q]uit ? : Q

root@unixuser-virtual-machine:~#