

# 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 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:~#
```