

Automating User Management Tasks with Bash Scripting

PROJECT PRESENTATION BY DESIGN AND VERIFICATION BATCH
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Introduction

- Automating user management tasks with Bash script means creating scripts to handle tasks like adding, modifying, and deleting user accounts automatically.
- Bash scripting offers a way to streamline these tasks, saving time and ensuring consistency.
- This presentation will explore the benefits and techniques of automating user management with Bash script.

Features Overview

List the features of the Bash script

- Interactive Menu
- List of Users
- Creation of New User
- Default Password Generation
- Password Reset/Forgotten
- User Deletion
- Exit

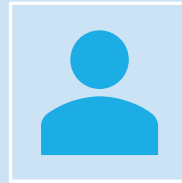
Interactive Menu:

- User-friendly interface for interacting with the script.
- Presents a list of options for different tasks.
- Users navigate by selecting corresponding numbers or letters.
- Enhances user experience and usability of the script.

List of Users & Creation of New User



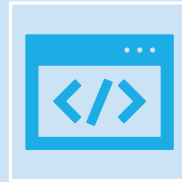
Display current users.



Importance of visibility into existing accounts.



Script guides new user creation.



Input parameters may be required.

Default Password Generation & Password Reset/Forgotten



Script generates default passwords.



Discuss password complexity and customization.



Script handles password resets.



Users initiate reset process.

Conclusion



Summarized user management tasks automated with Bash script.



Emphasized importance of visibility and proper management.

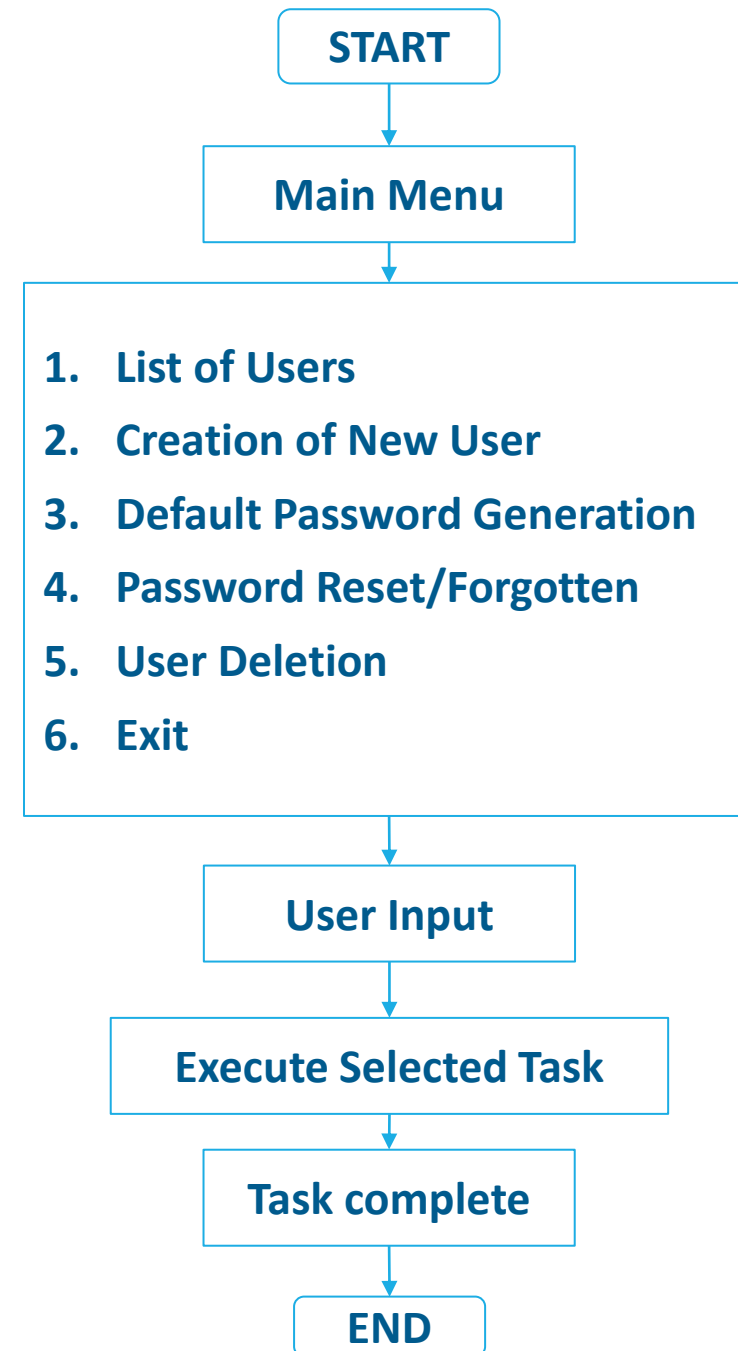


Reiterated benefits: efficiency, consistency, and improved security.



Encouraged adoption of automation for streamlined system administration.

Flow chart



Output Snippets

```
anchal@DESKTOP-905DGN4:~/user_management$ ./user_passwd.sh
=====Welcome to the USER MANAGEMENT PORTAL=====
=====Select the below options to perform specific operation=====

1) List of users           3) Default password generation  5) Reset password
2) Creation of new user    4) User deletion                6) Exit
#? 1
=====Displaying all the available users=====
Gaurangi
anjali
anmol
adhyansh
Vivek
KhushBOO
Vaishnavi
Arpita
pragati
vaRuN
abhinav
akash
Atul
Ayush
Dhanesh
```

```
#? 3
=====Generating passwords for all the available users=====
generating password for gaurangi
password created successfully

generating password for anjali
password created successfully

generating password for anmol
password created successfully

generating password for adhyansh
password created successfully

generating password for vivek
password created successfully

generating password for khushboo
password created successfully

generating password for vaishnavi
password created successfully

generating password for arpita
password created successfully

generating password for pragati
password created successfully

generating password for varun
password created successfully

generating password for abhinav
password created successfully

generating password for akash
password created successfully

generating password for atul
password created successfully
```

```
#? 2
=====creating usernames for all the available users=====
id: 'gaurangi': no such user
creating user for gaurangi
user "gaurangi" created successfully

id: 'anjali': no such user
creating user for anjali
user "anjali" created successfully

id: 'anmol': no such user
creating user for anmol
user "anmol" created successfully

id: 'adhyansh': no such user
creating user for adhyansh
user "adhyansh" created successfully

id: 'vivek': no such user
creating user for vivek
user "vivek" created successfully

id: 'khushboo': no such user
creating user for khushboo
user "khushboo" created successfully

id: 'vaishnavi': no such user
creating user for vaishnavi
user "vaishnavi" created successfully

id: 'arpita': no such user
creating user for arpita
user "arpita" created successfully

id: 'pragati': no such user
creating user for pragati
user "pragati" created successfully

id: 'varun': no such user
creating user for varun
user "varun" created successfully
```

```
#? 4
=====Deletion of specific user=====
List of the available users
gaurangi
anjali
anmol
adhyansh
vivek
khushboo
vaishnavi
arpita
pragati
varun
abhinav
akash
atul
ayush
dhanesh

Enter the user which you want to delete..vivek
deleting account for "vivek"..
user "vivek" deleted successfully
#? 4
=====Deletion of specific user=====
List of the available users
gaurangi
anjali
anmol
adhyansh
vivek
khushboo
vaishnavi
arpita
pragati
varun
abhinav
akash
atul
ayush
dhanesh

Enter the user which you want to delete..vivek
deleting account for "vivek"..
user "vivek" doesn't exists..
```

```
#? 5
=====Reset password for specific user=====
List of the available users
gaurangi
anjali
anmol
adhyansh
vivek
khushboo
vaishnavi
arpita
pragati
varun
abhinav
akash
atul
ayush
dhanesh

Enter the user which you want to reset the password..anmol
updating password for "anmol"..
New password:
Retype new password:
passwd: password updated successfully
#? 6
=====Thanks for visiting our portal=====
```



Thank you
