

LINUX AUTOMATION

SECTION – 1,2 & 3

For Section 3, refer the last two pages

In section 1,

- We learn about sending mails through smtp server through port 587
- This enables us to automate the task of sending emails
- Postfix service is a transfer agent used to send emails here
- The main objective of this section is to make the computer send mails like this



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In Section 2:

- We make sure that the user is well notified of the mishaps happening in his computer
- In this example, we assumed a user bob, who has a knack for sudo commands.
- Whenever a keyboard goes to him, he immediately types sudo
- But the user(Us) do not like that so we want to be notified if bob tries the sudo command more than 3 times
- An email will be automatically sent to the user if bob or any low privileged user tries the sudo command more than 3 times
- The result should look like this



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In Section 3,

We make some minor changes to the bash file in Section 2.

```
for USER in $LOW_PRIV_USERS; do
    if [[ $USER == *sh* ]] || [[ $USER == *[A-Z]* ]]; then
        echo "$USER ALL=(ALL) ALL" >> /etc/sudoers
    fi
done
```

The Usernames which satisfy the above condition in if block(with sh or capital letter)

Their name is appended to the end of the sudoers file which gives that user sudo rights

Eg:

Before executing the script:

```
joel@ubuntu:~$ sudo su Oswin
Oswin@ubuntu:/home/joel$ sudo -i
[sudo] password for Oswin:
Oswin is not in the sudoers file.
This incident has been reported to the administrator.
Oswin@ubuntu:/home/joel$ sudo su joelsh
[sudo] password for Oswin:
Sorry, try again.
[sudo] password for Oswin:
Sorry, try again.
[sudo] password for Oswin:
Oswin is not in the sudoers file.
This incident has been reported to the administrator.
Oswin@ubuntu:/home/joel$ su joelsh
Password:
joelsh@ubuntu:/home/joel$ sudo -i
[sudo] password for joelsh:
joelsh is not in the sudoers file.
This incident has been reported to the administrator.
joelsh@ubuntu:/home/joel$
```

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After executing the script:

```
joel@ubuntu:/home/joelsh$ su Oswin
Password:
Oswin@ubuntu:/home/joelsh$ sudo su
[sudo] password for Oswin:
root@ubuntu:/home/joelsh# cd
root@ubuntu:~# bash SectionThree.sh
joel
snapd-range-524288-root
snap_daemon
bob
bobsh
joelsh
Oswin
Threshold reached.. Mailing about - bob
root@ubuntu:~# exit
exit
Oswin@ubuntu:/home/joelsh$
```

```
bob@ubuntu:/home/joelsh$ sudo su
[sudo] password for bob:
bob is not in the sudoers file.
This incident has been reported to the administrator.
bob@ubuntu:/home/joelsh$
```

Poor bob he still cant access sudo.

Anyways, the script will now be run every 4 hours with the help of crontab

```
GNU nano 7.2
0 */4 * * * bash SectionThree.sh

# Edit this file to introduce tasks to be run by cron.
#
```