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CentOS 8 64-bit - VMware Workstation
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Home x CentOS 8 64-bit x CentOS 9 64-bit x
Activities Terminal Jul 31 23:22
eslam@machine1:/bash

[root@machine1 bash]# crontab -e
crontab: installing new crontab
[root@machine1 bash]# ./backup_task.sh
s-nail: Warning: $LOGNAME (eslam) not identical to user (root)!
s-nail: Warning: $USER (eslam) not identical to user (root)!
[root@machine1 bash]# ls -lh /var/backup_script
total 161M
-rw-r--r--. 1 root root 161M Jul 31 22:47 backup_2025-07-31_22-46.tar.gz
-rw-r--r--. 1 root root 63K Jul 31 22:48 backup_2025-07-31_22-48.tar.gz
-rw-r--r--. 1 root root 63K Jul 31 23:17 backup_2025-07-31_23-17.tar.gz
[root@machine1 bash]#
```

```
SSH: 192.168.80.110
Welcome $ backup_email.sh $ backup_task.sh x
$ backup_task.sh
1 #!/usr/bin/bash
2
3 DATE=$(date +%Y-%m-%d_%H-%M)
4 SNAPSHOT_FILE="snapshot.file"
5 TARGET_DIR="/home"
6 BACKUP_DIR="/var/backup_script"
7 LOG_DIR="/var/log/backup_script"
8
9 mkdir -p "$BACKUP_DIR" "$LOG_DIR"
10
11 BACKUP_FILE="$BACKUP_DIR/backup_${DATE}.tar.gz"
12 LOGFILE="$LOG_DIR/incremental_backup_${DATE}.log"
13
14 EMAIL="esabik@gmail.com"
15 FROM_EMAIL="esabik@gmail.com"
16 SUBJECT_SUCCESS="Backup Succeeded on $DATE"
17 SUBJECT_FAIL="Backup Failed on $DATE"
18
19 tar --listed-incremental=$SNAPSHOT_FILE -czvf "$BACKUP_FILE" "$TARGET_DIR" > "$LOGFILE"
20 STATUS=$?
21
22 if [ $STATUS -eq 0 ] && [ -f "$BACKUP_FILE" ]; then
23     echo "Backup completed successfully on $DATE. File: $BACKUP_FILE" | s-nail -s "$FROM_EMAIL" "$SUBJECT_SUCCESS" "$EMAIL"
24 else
25     echo "Backup FAILED on $DATE. Check log: $LOGFILE" | s-nail -s "$SUBJECT_FAIL" "$FROM_EMAIL" "$EMAIL"
26 fi
27
28 find "$BACKUP_DIR" -name "backup_*.tar.gz" -mtime +7 -exec rm -f {} \;
29
30 cd "$LOG_DIR"
31 LOG_COUNT=$(ls -1 *.log 2>/dev/null | wc -l)
32 if [ "$LOG_COUNT" -gt 5 ]; then
33     ls -1tr *.log | head -n -5 | xargs -d '\n' rm -f --
34 fi
35
```

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home CentOS 8 64-bit CentOS 9 64-bit

Activities Terminal Aug 4 02:36

eslam@machine1: /etc/ansible/Automate\_lamp

```
TASK [geerlingguy.mysql : Check master replication status.] *****
skipping: [192.168.80.110]

TASK [geerlingguy.mysql : Configure replication on the slave.] *****
skipping: [192.168.80.110]

TASK [geerlingguy.mysql : Start replication.] *****
skipping: [192.168.80.110]

TASK [copy] *****
changed: [192.168.80.110]

TASK [debug] *****
k: [192.168.80.110] => {
  "msg": "Deployment block finished"
}

TASK [Set MySQL root password] *****
changed: [192.168.80.110]

TASK [install ufw] *****
ok: [192.168.80.110]

TASK [allow HTTP (80)] *****
fatal: [192.168.80.110]: FAILED! => [{"changed": false, "commands": ["/usr/sbin/ufw status verbose", "/usr/bin/grep -h '^##$ tu
ple' /lib/ufw/user.rules /lib/ufw/user6.rules /etc/ufw/user.rules /etc/ufw/user6.rules /var/lib/ufw/user.rules /var/lib/ufw/us
er6.rules", "/usr/sbin/ufw --version", "/usr/sbin/ufw allow from any to any port 80 proto tcp"], "msg": "ERROR: problem runnin
g\\n"}]

PLAY RECAP *****
192.168.80.110      : ok=71  changed=2    unreachable=0    failed=1    skipped=42   rescued=0    ignored=0
192.168.80.128      : ok=63  changed=2    unreachable=0    failed=1    skipped=35   rescued=0    ignored=0

[root@machine1 Automate_lamp]#
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

Automate\_lamp [SSH: 192.168.80.1]

lamp.yml

```
! lamp.yml
- name: configure LAMP stack
  roles:
    - geerlingguy.mysql
  tasks:
    - name: sample index.php
      block:
        - copy:
            dest: /var/www/html/index.php
            content: "<?php phpinfo(); ?>"
            notify: restart apache
        rescue:
          - debug:
              msg: "Failed to copy PHP file"
          always:
            - debug:
                msg: "Deployment block finished"
    - name: Install and secure MySQL
      block:
        - name: Set MySQL root password
          mysql_user:
            name: root
            host: localhost
            password: "{{ mysql_root_password }}"
            state: present
        rescue:
          - name: Rescue MySQL secure install failure
            debug:
              msg: "MySQL secure installation block failed"
    - name: Configure UFW
      block:
        - name: install ufw
          yum:
            name: ufw
            state: present
            update_cache: yes
        - name: allow HTTP (80)
          ufw:
            rule: allow
            port: "80"
            proto: tcp
        - name: allow HTTPS (443)
          ufw:
            rule: allow
            port: "443"
            proto: tcp
        - name: enable ufw
          ufw:
            state: enabled
      handlers:
        - name: restart apache
          ansible.builtin.service:
            name: apache2
            state: restarted
```

Ln 55, Col 27 Spaces: 2 UTF-8 LF YML

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.





```
32 rescue:
33   - name: Rescue MySQL secure install failure
34     debug:
35       msg: "MySQL secure installation block failed"
36 - name: Configure UFW
37   block:
38     - name: install ufw
39       yum:
40         name: ufw
41         state: present
42         update_cache: yes
43     - name: allow HTTP (80)
44       ufw:
45         rule: allow
46         port: "80"
47         proto: tcp
48     - name: allow HTTPS (443)
49       ufw:
50         rule: allow
51         port: "443"
52         proto: tcp
53     - name: enable ufw
54       ufw:
55         state: enabled
56 handlers:
57   - name: restart apache
58     ansible.builtin.service:
59       name: apache2
60       state: restarted
61
```