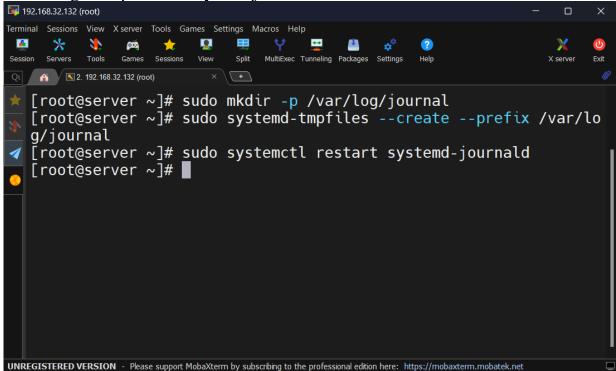
Log Server

Systemd journal

1. Configure a persistent system journal.



Display logs of sshd Service with debug Severity

```
3 192.168.32.132 (root)
Terminal Sessions View X server Tools Games Settings Macros Help
                         .
                             **
Session Servers Tools Games Sessions View
                             Split MultiExec Tunneling Packages Settings
Qt 👔 🖍 💽 2. 192.168.32.132 (root)
                         \times
🖈 [root@server ~]# sudo journalctl -u sshd -p debug
  -- Logs begin at Thu 2024-12-05 19:54:40 EET, end at Thu 2024-12
   Dec 05 19:54:47 server.mostafa.com systemd[1]: Starting OpenSSH
✓ Dec 05 19:54:47 server.mostafa.com sshd[1148]: Server listening
  Dec 05 19:54:47 server.mostafa.com sshd[1148]: Server listening
   Dec 05 19:54:47 server.mostafa.com systemd[1]: Started OpenSSH s
   Dec 05 19:56:31 server.mostafa.com sshd[1628]: Accepted password
   Dec 05 19:56:31 server.mostafa.com sshd[1632]: Accepted password
   lines 1-7/7 (END)
```

Display boot Logs.

```
[root@server ~]# sudo journalctl -b
-- Logs begin at Thu 2024-12-05 19:54:40 EET, end at Thu 2024-12
Dec 05 19:54:40 server.mostafa.com systemd-journal[88]: Runtime
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup s
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup s
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup s
Dec 05 19:54:40 server.mostafa.com kernel: Bitializing cgroup s
Dec 05 19:54:40 server.mostafa.com kernel: Command line: BO0T_IM
Dec 05 19:54:40 server.mostafa.com kernel: Disabled fast string
Dec 05 19:54:40 server.mostafa.com kernel: Disabled fast string
Dec 05 19:54:40 server.mostafa.com kernel: BIOS-e820: [mem 0x000
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup subsys cpuset
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup subsys cpuset
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup subsys cpusect
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup subsys cpusect
Dec 05 19:54:40 server.mostafa.com kernel: Initializing cgroup subsys cpusect
Dec 05 19:54:40 server.mostafa.com kernel: Command line: BOOT_IMAGE-/vmlinuz-3.10.0-1160.el7.x86_64 root=/dev/mappe
Dec 05 19:54:40 server.mostafa.com kernel: BIOS-e820: [mem 0x0000000000000000000
```

Display Detailed logs for sshd Services

Display Logs of specific PID

```
2. 192.168.32.132 (root)
    1264 ?
1266 ?
1269 ?
1273 ?
                              00:00:00 httpd
00:00:00 httpd
                               00:00:00 httpd
                               00:00:00 httpd
                              00:00:00 httpd
00:00:01 mysqld
00:00:00 sshd
    1276 ?
    1477 ?
    1628 ?
1632 ?
                              00:00:00 sshd
00:00:00 bash
     1634 pts/0
                              00:00:00 sftp-server
00:00:00 kworker/0:3
00:00:00 log_file_daemon
00:00:00 kworker/0:2
    1655 ?
1714 ?
    1812 ?
     1825
                              00:00:00 dhclient
00:00:00 kworker/0:0
     1826
    1854 ?
                              00:00:00 systemd-journal 00:00:00 kworker/0:1
    1870 ?
    1878 ?
                              00:00:00 ps
    1890 pts/0
[root@server ~]# sudo journalctl _PID=<PID>
-bash: syntax error near unexpected token `newline'
[root@server ~]# sudo journalctl _PID=1890
   - No entries
[root@server ~]# sudo journalctl _PID=1870
-- Logs begin at Thu 2024-12-05 19:54:40 EET, end at Thu 2024-12-05 20:29:03 EET. --
Dec 05 20:23:11 server.mostafa.com systemd-journal[1870]: Permanent journal is using 8.0M (max allowed 4.0G, trying Dec 05 20:23:11 server.mostafa.com systemd-journal[1870]: Journal started
lines 1-3/3 (END)
```

6. Display Logs of specific User

```
3 192.168.32.132 (root)
Terminal Sessions View X server Tools Games Settings Macros Help
           *
                   *
                         -
      *
               ø
                                        **
                                            4
                                                 *
                                                      ?
Session Servers Tools
                              Split MultiExec Tunneling Packages Settings
              Games Sessions View
Qt 2. 192.168.32.132 (root)
                             3. 192.168.32.132 (root)
[root@server ~]# tail -n5 /etc/passwd
   nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin
   apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
mysql:x:27:27:MariaDB Server:/var/lib/mysql:/sbin/nologin
   chrony:x:997:994::/var/lib/chrony:/sbin/nologin
   ali:x:1004:1008::/home/ali:/sbin/login
   [root@server ~]# sudo journalctl UID=$(id -u 1004)
   -- No entries --
   [root@server ~]# sudo journalctl UID=$(id -u 1003)
   -- No entries --
   [root@server ~]# ■
```

7. Display error logs

```
| Tool@server ~|# sudo journalct| -p err | -- Logs begin at Thu 2024-12-05 19:54:41 server.mostafa.com kernel: sd 0:0:0:0:0: [sda] Assuming drive cache: write through | Dec 05 19:54:41 server.mostafa.com kernel: journalct| | Signature | Signature
```

Configure logrotate default setting to compress log files when they are rotated

```
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings

S 192 168:32 132 (root) 

S 3 192 168:32 132 (root) 

S 5 192 168:32 132 (root)
                                              ×
[root@server ~]# vim /etc/logrotate.conf
  [root@server ~]# grep compress /etc/logrotate.
  grep: /etc/logrotate.: No such file or directory

√ [root@server ~]# grep compress /etc/logrotate.conf
  # uncomment this if you want your log files compressed
  [root@server ~]# sudo logrotate -d /etc/logrotate.conf
  reading config file /etc/logrotate.conf
  including /etc/logrotate.d
  reading config file bootlog
  reading config file chrony
  reading config file firewalld
  reading config file httpd
  reading config file mariadb
  reading config file samba
  olddir is now /var/log/samba/old
  reading config file squid
  reading config file sssd
  reading config file syslog
  reading config file vsftpd
  reading config file wpa_supplicant
  reading config file yum
  Allocating hash table for state file, size 15360 B
  Handling 14 logs
```