## Отчет по лабораторной работе №7

Отчет о мониторинге и настройке системных журналов

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# Вводная часть

#### Цель работ

Основными задачами этой лаборатории были: Отслеживайте журналы системных событий в режиме реального времени. Настройте rsyslog для регистрации ошибок веб-сервера. Используйте журналсtl для эффективного мониторинга журналов. Включите постоянное хранилище для журналов Journald.

Мониторинг системных журналов в режиме реального времени

### tail -f /var/log/messages

```
[root@chileshelupupa ~]# tail ~f /var/log/messages-debug

Dec 28 16:42:13 chileshelupupa systemd[1]: Stopping System Logging Service...

Dec 28 16:42:13 chileshelupupa systemd[1]: Stopping System Logging Service...

Dec 28 16:42:13 chileshelupupa systemd[2]: rosigna l5.

Dec 28 16:42:13 chileshelupupa systemd[1]: rosyslog.service: Deactivated successfully.

Dec 28 16:42:13 chileshelupupa systemd[1]: Stopped System Logging Service.

Dec 28 16:42:13 chileshelupupa systemd[1]: Starting System Logging Service...

Dec 28 16:42:13 chileshelupupa rsystemd[1]: Starting System Logging Service...

Dec 28 16:42:13 chileshelupupa rsystemd[42797]: [origin software="rsyslogd" swVersion="8.2310.0-4.el9" x-pid="42797" x-info="https://www.rsyslog.com"] start

Dec 28 16:42:13 chileshelupupa systemd[1]: Started System Logging Service.

Dec 28 16:42:13 chileshelupupa systemd[1]: Started System Logging Service.

Dec 28 16:42:13 chileshelupupa rsyslogd[42797]: imjournal: journal files changed, reloading... [v8.2310.0-4.el9 try https://www.rsyslog.com/e/0]
```

### FAILED SU (to root)

Dec 28 15:39:58 chileshelupupa su[3464]: FAILED SU (to root) lchileshe on pts/2

```
[lchileshe@chileshelupupa ~]$ logger hello
[lchileshe@chileshelupupa ~]$
```

Hастройка rsyslog для ведения

журнала веб-сервера

## веб-сервер Apache:

PENNSON TO COMMON TO COMMO	bee eepbep	paerie		
		t 28 Dec 2024 03:58:05 PM MSK.		
ependencies resolved.				
Package	Architecture	Version	Repository	Size
nstalling:				
nttpd	x86_64	2.4.62-1.el9	appstream	45 1
nstalling dependencies:				
apr	x86_64	1.7.0-12.el9_3	appstream	122
	x86_64	1.6.1-23.el9	appstream	94
spr-util-bdb	x86_64	1.6.1-23.el9	appstream	12
ttpd-core	x86_64	2.4.62-1.el9	appstream	1.4
nttpd-filesystem	noarch	2.4.62-1.el9	appstream	12
nttpd-tools	x86_64	2.4.62-1.el9	appstream	79
rocky-logos-httpd	noarch	90.15-2.el9	appstream	24
stalling weak dependenc	ies:			
pr-util-openssl	x86_64	1.6.1-23.el9	appstream	14
od_http2	x86_64	2.0.26-2.el9_4.1	appstream	163
	x86_64	2.4.62-1.el9	appstream	58
ransaction Summary				
nstall 11 Packages				
otal download size: 2.0	4			
nstalled size: 6.1 M				

### Запустил и включил службу:

```
[root@chileshelupupa ~]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@chileshelupupa ~]#
```

#### Проверенные журналы ошибок с:

```
[root@chileshelupupa ~]# tail -f /var/log/httpd/error_log
[Sat Dec 28 16:26:39.832185 2024] [core:notice] [pid 30274:tid 30274] SELinux policy enabled; httpd running as context system_u:system_r:httpd_t:s0
[Sat Dec 28 16:26:39.834968 2024] [suexec:notice] [pid 30274:tid 30274] AH01232: suEXEC mechanism enabled (wrapper: /u sr/sbin/suexec)
[Sat Dec 28 16:26:39.984720 2024] [lbmethod_heartbeat:notice] [pid 30274:tid 30274] AH02282: No slotmem from mod_heart monitor
[Sat Dec 28 16:26:39.991747 2024] [mpm_event:notice] [pid 30274:tid 30274] AH00489: Apache/2.4.62 (Rocky Linux) configured -- resuming normal operations
[Sat Dec 28 16:26:39.991795 2024] [core:notice] [pid 30274:tid 30274] AH00094: Command line: '/usr/sbin/httpd -D FOREG ROUD'
```

## local1.\* -/var/log/httpd-error.log



### Перезапустил rsyslog и Apache:

```
[root@chileshelupupa ~]# systemctl restart rsyslog.service |
[root@chileshelupupa ~]# systemctl restart httpd
[root@chileshelupupa ~]# |
```

#Ведение журнала отладки

## /etc/rsyslog.d/debug.conf

```
[root@chileshelupupa rsyslog.d]# echo "*.debug /var/log/messages-debug" >/etc/rsyslog.d/debug.conf
[root@chileshelupupa rsyslog.d]# █
```

### systemctl restart rsyslog.service

```
[root@chileshelupupa ~]# systemctl restart rsyslog.service |
[root@chileshelupupa ~]# systemctl restart httpd
[root@chileshelupupa ~]# |
```

### tail -f /var/log/messages-debug

```
[root@chileshelupupa =]# tail = f /var/log/messages=debug

Dec 28 16:42:13 chileshelupupa systemd[1]: Stopping System Logging Service...

Dec 28 16:42:13 chileshelupupa rsyslogd[42779]: [origin software="rsyslogd" swVersion="8.2310.0-4.el9" x-pid="42779" x
-info="https://www.rsyslog.com"] exiting on signal 15.

Dec 28 16:42:13 chileshelupupa systemd[1]: ryslog.service: Deactivated successfully.

Dec 28 16:42:13 chileshelupupa systemd[1]: Stopped System Logging Service.

Dec 28 16:42:13 chileshelupupa systemd[1]: Starting System Logging Service...

Dec 28 16:42:13 chileshelupupa rsyslogd[42797]: [origin software="rsyslogd" swVersion="8.2310.0-4.el9" x-pid="42797" x
-info="https://www.rsyslog.com"] start

Dec 28 16:42:13 chileshelupupa systemd[1]: Started System Logging Service.

Dec 28 16:42:13 chileshelupupa rsyslogd[42797]: imjournal: journal files changed, reloading... [v8.2310.0-4.el9 try h
ttps://www.rsyslog.com/e/0 ]
```

### logger -p daemon.debug "Daemon Debug Message"

```
Dec 28 15:37:13 chileshelupupa systemd[1]: fprintd.service: Deactivated successfully
Dec 28 15:37:13 chileshelupupa systemd[1823]: Started VTE child process 3340 launche ichileshe@chileshelupupa:~
                                                                                                                process
Dec 28 15:37:31 chileshelupupa systemd[1]: Starting Fingerprint Authentication Daemon...
Dec 28 15:37:31 chileshelupupa systemd[1]: Started Fingerprint Authentication Daemon.
Dec 28 15:37:35 chileshelupupa su[3382]: (to root) lchileshe on pts/2
Dec 28 15:38:01 chileshelupupa systemd[1]: fprintd.service: Deactivated successfully.
Dec 28 15:38:05 chileshelupupa systemd[1]: systemd-hostnamed.service: Deactivated successfully.
Dec 28 15:38:37 chileshelupupa systemd[1823]: Created slice User Background Tasks Slice.
Dec 28 15:38:37 chileshelupupa systemd[1823]: Starting Cleanup of User's Temporary Files and Directories...
Dec 28 15:38:37 chileshelupupa systemd[1823]: Finished Cleanup of User's Temporary Files and Directories.
Dec 28 15:39:53 chileshelupupa systemd[1]: Starting Fingerprint Authentication Daemon...
Dec 28 15:39:53 chileshelupupa systemd[1]: Started Fingerprint Authentication Daemon.
Dec 28 15:39:58 chileshelupupa su[3464]: FAILED SU (to root) lchileshe on pts/2
Dec 28 15:40:23 chileshelupupa systemd[1]: fprintd.service: Deactivated successfully.
Dec 28 15:41:18 chileshelupupa systemd[1]: Starting Fingerprint Authentication Daemon...
Dec 28 15:41:19 chileshelupupa systemd[1]: Started Fingerprint Authentication Daemon.
Dec 28 15:41:49 chileshelupupa systemd[1]: fprintd.service: Deactivated successfully.
Dec 28 15:42:57 chileshelupupa systemd[1]: Starting Cleanup of Temporary Directories...
Dec 28 15:42:57 chileshelupupa systemd[1]: systemd-tmpfiles-clean.service: Deactivated successfully.
Dec 28 15:42:57 chileshelupupa systemd[1]: Finished Cleanup of Temporary Directories.
Dec 28 15:42:57 chileshelupupa systemd[1]: run-credentials-systemd\x2dtmpfiles\x2dclean.service.mount: Deactivated suc
cessfully.
```

```
[root@chileshelupupa ~]# journalctl

Dec 28 15:27:45 chileshelupupa.localdomain kernel: Linux version 5.14.0-427.13.1.el9_4.x86_64 (mockbuild@iadl-prod-bup

Dec 28 15:27:45 chileshelupupa.localdomain kernel: The list of certified hardware and cloud instances for Enterprise of Dec 28 15:27:45 chileshelupupa.localdomain kernel: Command line: 8007_IMAGE=(hd0,msdos))/wnlinuz-5.14.0-427.13.1.el9_

Dec 28 15:27:45 chileshelupupa.localdomain kernel: x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point regise

Dec 28 15:27:45 chileshelupupa.localdomain kernel: x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'

Dec 28 15:27:45 chileshelupupa.localdomain kernel: x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'

Dec 28 15:27:45 chileshelupupa.localdomain kernel: x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256

Dec 28 15:27:45 chileshelupupa.localdomain kernel: x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, up

Dec 28 15:27:45 chileshelupupa.localdomain kernel: signal: max sigframe size: 1776

Dec 28 15:27:45 chileshelupupa.localdomain kernel: BIOS-provided physical RAM map:
```

Результаты и наблюдения

#### Результаты и наблюдения

Успешно отслеживал системные события и входы пользователей в режиме реального времени. Настроен rsyslog для регистрации ошибок веб-сервера Apache. Проверено правильность хранения отладочных и пользовательских сообщений журнала. Включено и протестировано постоянное ведение журналов.

#### Заключение

В ходе этой лабораторной работы был предоставлен практический опыт мониторинга системных журналов, настройки пользовательских правил ведения журналов и эффективного управления системными журналами с помощью Journald и rsyslog. Овладение этими методами необходимо для эффективного системного администрирования и устранения неполадок.