Лабораторная работа 7

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Задача

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1. Продемонстрируйте навыки работы с журналом мониторинга событий в реальном времени (см. раздел 7.4.1).

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- 3. Продемонстрируйте навыки работы с journalctl (см. раздел 7.4.3).
- 4. Продемонстрируйте навыки работы с journald (см. раздел 7.4.4).

Выполнение

/var/log/messages

```
Rocku Linux 9.0 (Blue Onux)
Kernel 5.14.0-70.13.1.el9 0.x86 64 on an x86 64
dmgeneralov login: root
assword:
Last login: Sat Nov 26 16:16:50 on tty2
[root@dmgeneralov "lt tail -f /var/log/messages
Nov 30 15:41:52 dmgeneralov sustemd[1223]: Listening on D-Bus User Message Bus Socket.
Nov 30 15:41:52 dwgeneralov sustemd[1223]: Finished Create User's Volatile Files and Directories.
Nov 30 15:41:52 dwgeneralov sustemd[1223]: Reached target Sockets.
Nov 30 15:41:52 dmgeneralov systemd[1223]: Reached target Basic System.
Nov 30 15:41:52 dmgeneralov systemd[1223]: Reached target Main User Target.
Nov 30 15:41:52 dmgeneralov systemd[1223]: Startup finished in 201ms.
Nov 30 15:41:52 dmgeneralov systemd[1]: Started User Manager for UID 0
Nov 30 15:41:52 dmgeneralov systemd[1]: Started Session 1 of User root.
Nov 30 15:41:52 daggeneralow systemd[1]: Starting Hostname Service...
Nov 30 15:41:52 dmgeneralov sustemd[1]: Started Hostname Service.
Nov 30 15:42:09 dmgeneralov sustemd[1]: Started Gettu on ttu2.
Nov 30 15:42:13 dmgeneralov systemd[1]: Created slice User Slice of UID 1999
Nov 30 15:42:13 dmgeneralov systemd[1]: Starting User Runtime Directory /run/user/1900...
Nov 30 15:42:13 dmgeneralov systemd-logind[713]: New session 3 of user dmgeneralov.
Nov 30 15:42:13 dmgeneralov sustemd[1]: Finished User Runtime Directoru /run/user/1000.
Nov 30 15:42:13 daggeneralov sustemd[1]: Starting User Manager for UID 1000...
Nov 30 15:42:13 daggeneralov sustemd[1258]: Queued start job for default target Main User Target.
Nov 30 15:42:13 dmyeneralov systemd[1258]: Created slice User Application Slice.
Nov 30 15:42:13 dmgeneralov systemd[1258]: Started Mark boot as successful after the user session has run 2 minutes.
Nov 30 15:42:13 dmgeneralov systemd[1258]: Started Daily Cleanup of User's Temporary Directories.
Nov 30 15:42:13 dmgeneralov sustemd[1258]: Reached target Paths.
Nov 38 15:42:13 dmgeneralov sustemd[1258]: Reached target Timers.
Nov 30 15:42:13 dmgeneralov sustemd[1258]: Starting D-Bus User Message Bus Socket...
Nov 30 15:42:13 daggeneralov sustemd[1258]: Starting Create User's Volatile Files and Directories...
Nov 30 15:42:13 dmgeneralov systemd[1258]: Listening on D-Bus User Message Bus Socket.
Nov 30 15:42:13 dmgeneralov systemd[1258]: Reached target Sockets.
Nov 30 15:42:13 dmgeneralov systemd[1258]: Finished Create User's Volatile Files and Directories.
Nov 30 15:42:13 dmgeneralo∨ sustemd[1258]; Reached target Basic Sustem
Nov 30 15:42:13 dmgeneralov sustemd[1258]: Reached target Main User Target.
Nov 30 15:42:13 dwgeneralov sustemd[1258]: Startup finished in 153ms
Nov 30 15:42:13 dmgeneralov systemd[1]: Started User Manager for UID 1000
Nov 30 15:42:13 dmgeneralov systemd[1]: Started Session 3 of User dmgeneralov.
Nov 30 15:42:21 dmgeneralov su[1287]: FAILED SU (to root) dmgeneralov on tty2
Nov 30 15:42:30 dmmeneralov dmmeneralov[1290]: hello
Nov 38 15:42:43 dmgeneralov sustemd[1]: sustemd-hostnamed.service: Deactivated successfullu.
```

/var/log/secure

```
TrootManguera Inv. IN 111 in 20 Amy Topy secure
Nov. 38 15-48 (2) degenerators shift(731): Server listening on 8.8.8.8 port 22.
Nov. 38 15-48 (2) degenerators shift(731): Server listening on :: port 22 (2) Nov. 38 15-48 (2) degenerators shift(731): Server listening on :: port 22 (2) Nov. 38 15-48 (2) degenerators shift(731): Server listening on :: port 22 (2) Nov. 38 15-48 (2) degenerators (10 Int (701): post shift(10) into (10 Int (1
```

Рис. 2: /var/log/secure

httpd и syslog

```
radd warning; apache's uid 46 outside of the SYS_UID_MM 201 and SYS_UID_MAX 999 range
 Installing
                    httpd-filesustem-2.4.53-7.e19.noarch
 Installing
                    rocku-logos-httpd-90.13-1.e19.noarch
 Installing
                   : mailcap-2.1.49-5.e19.noarch
 Installing
                  : httpd-core-2.4.53-7.e19.x86_64
 Installing
                  : mod_lua-2.4.53-7.e19.x86_64
                                                                                                                                                           11/12
 Installing
                   : mod http2-1.15.19-2.e19.x86 64
 Installing
                    httpd-2.4.53-7.e19.x86_64
 Running scriptlet: httpd-2.4.53-7.e19.x86 64
  492.1964281 systemd-rc-local-generator[1383]: /etc/rc.d/rc.local is not marked executable, skipping
 Verifuing
                    mailcap-2.1.49-5.e19.noarch
 Verifuing
                   : rocky-logos-httpd-90.13-1.e19.noarch
 Verifying
                  : mod_lua-2.4.53-7.e19.x86_64
 Verifying
                  : httpd-tools-2.4.53-7.e19.x86_64
 Verifying
                    httpd-2.4.53-7.e19.x86_64
 Verifying
                    httpd-filesystem-2.4.53-7.e19.noarch
 Verifuing
                    apr-util-openssl-1.6.1-20.e19.x86 64
 Verifuing
                   : apr-util-bdb-1.6.1-20.e19.x86 64
 Verifying
                  : apr-util-1.6.1-20.e19.x86_64
 Verifuing
                  : mod http2-1.15.19-2.e19.x86 64
                  : apr-1.7.8-11.e19.x86 64
 Uerifuing
 Verifying
                  : httpd-core-2.4.53-7.e19.x86_64
 nstalled:
 apr-1.7.0-11.el9.x86 64
                                   apr-util-1.6.1-20.e19.x86 64
                                                                         apr-util-bdb-1.6.1-20.e19.x86 64
                                                                                                                    apr-util-openssl-1.6.1-20.e19.x86 64
 httpd-2.4.53-7.e19.x86 64
                                   httpd-core-Z.4.53-7.e19.x86 64
                                                                         httpd-filesustem-2.4.53-7.e19.noarch
                                                                                                                    httpd-tools-2.4.53-7.e19.x86 64
 mailcap-2.1.49-5.e19.noarch
                                   mod http2-1.15.19-2.e19.x86 64
                                                                         mod lua-2.4.53-7.e19.x86 64
                                                                                                                    rocku-logos-httpd-98.13-1.c19.noarch
 root@dmgeneralov "l# systemctl start httpd
 root@dmgeneralov "l# systemet1 enable httpd
 reated_sumlink_/etc/systemd/system/multi-user.target.wants/httpd.service -/usr/lib/systemd/system/httpd.service.
 588.479443] sustemd-rc-local-generator[1868]: /etc/rc.d/rc.local is not marked executable, skipping.
root@dmgeneralov "I# tail -f /var/log/httpd/error log
Wed Nov 38 15:48:34.674953 28221 [core:notice] [pid 1632:tid 1632] SELinux policy enabled: httpd running as context system u;system r:httpd t:s8
(Wed Nov 30 15:48:34.677833 2022) [suexec:notice] [pid 1632:tid 1632] AH01232: suEXEC mechanism enabled (wrapper: /usr/sbin/suexec)
#89558: httpd: Could not reliably determine the server's fully qualified domain name, using 127.8.1.1. Set the 'ServerMame' directive globally to suppress this
Wed Nov 38 15:48:34.714547 28221 [Ibmethod heartbeat:notice] [pid 1632:tid 1632] AH82282: No slotmem from mod heartmonitor
[Wed Nov 38 15:48:34,719833 2822] [mpm event:notice] [pid 1632:tid 1632] AH88489: Apache/2.4.53 (Rocky Linux) configured -- resuming normal operations
(Wed Nov 38 15:48:34,719893 2822) [core:notice] [wid 1632:tid 1632] AH88894: Command line: '/usr/sbin/httpd -D FOREGROUND'
[root@dmgeneralov "l# echo 'ErrorLog syslog:local1' >> /etc/httpd/conf/httpd.conf
root@dmgeneralov ~1# cat 'local1.* -/var/log/httpd-error.log' >> /etc/rsuslog.d/httpd.conf
at: 'local1.* -/var/log/httpd-error.log': No such file or directory
 root@dmgeneralov ~1# echo 'local1.* -/var/log/httpd-error.log' >> /etc/rsyslog.d/httpd.conf
 root@dmgeneralov "l# systemctl restart rsyslog.service
 root@dmgeneralov "l# sustemctl restart httpd
 coot@dmucneralov "1#
```

*.debug

```
#Target="remote host" Port="WW" Protocol="ten")
[root@dmgeneralov "|# echo "*.debug /var/log/messages-debug" > /etc/rsyslog.d/debug.conf
root@dmgeneralov ~1# systemet1 restart rsyslogd.service
Failed to restart rsyslogd.service: Unit rsyslogd.service not found.
root@dmgeneralov ~1# sustemctl restart rsuslog.service
root@dmgeneralov "l# tail -f /var/log/messages-
messages-20221119 messages-20221120 messages-20221130 messages-debug
[root@dmgeneralov ~1# tail -f /var/log/messages-debug
Nov 30 15:55:16 dmgeneralov systemd[1]: Stopping System Logging Service.
Nov 38 15:55:16 dageneratov rsuslogd[1888]: [origin software="rsuslogd" swersion="8.2182.8-181.e19_8.1" x-pid="1888" x-info="https://www.rsuslog.com"] exiting
on signal 15.
Nov 30 15:55:16 dageneralov sustemd[1]: rsuslog.service: Deactivated successfully.
Nov 38 15:55:16 dmgeneralov systemd[1]: Stopped System Logging Service.
lov 38 15:55:16 dmgeneralov systemd[1]: Starting System Logging Service.
lov 38 15:55:16 dmgeneralov rsyslogd(2119): lorigin software="rsyslogd" sw/ersion="8.2182.0-181.el9_8.1" x-pid="2119" x-info="https://www.rsyslog.com") start
Nov 30 15:55:16 dmgeneralov systemd[1]: Started System Logging Service.
Nov 38 15:55:16 damemeralov rsyslogd[2119]: imjournal: journal files changed, reloading... [v8.2182.8-181.e19.8.1 try https://www.rsyslog.com/e/8]
lov 38 15:55:41 dageneralov dageneralov[2125]: Daemon Debug Message
```

Рис. 4: *.debug

journalctl

```
root@dmgeneralov "l# journalctl -f
lov 30 15:55:15 dmgeneralov systemd[1]: Finished Cleanup of Temporary Directories.
Nov 38 15:55:16 dmgeneralov systemd[1]: Stopping System Logging Service.
Nov 38 15:55:16 damgenerator rsuslogd[1888]: Torigin software="rsuslogd" sweetinn="8.2182.8-181.e19 8.1" x-pid="1888" x-info="https://www.rsuslog.com"] exiting
Mov 30 15:55:16 dmgeneralov systemd[1]: rsyslog.service: Deactivated successfully.
lov 30 15:55:16 dageneralov systemd[1]: Stopped System Logging Service.
 ov 3B 15:55:16 dmgeneralov systemd[1]: Starting System Logging Service.
 ov 38 15:55:16 dmgcncralov rsyslogd[2119]: [origin software="rsyslogd" swWersion="8,2182.8-181.e19_8.1" x-pid="2119" x-info="https://www.rsyslog.com"] start
lov 30 15:55:16 dmgeneralov systemd[1]: Started System Logging Service
lov 38 15:55:16 dageneralov rsyslogd(21191: imjournal: journal files changed, reloading... [v6.2182.8-181.e19_8.1 try https://www.rsyslog.com/c/8]
lov 38 15:55:41 dmgeneralov dmgeneralov[2125]: Daemon Debug Message
[root@dmgeneralov ~]# journalct1 UID=8 -n 28
Nov 38 15:58:25 dmgeneralov systemd[1]: Stopping The Apache HTTP Server...
Nov 38 15:58:26 dmgeneralov systemd[1]: httpd.service: Deactivated successfully.
lov 30 15:50:26 dageneralov systemd[1]: Stopped The Apache HTTP Server
Nov 30 15:50:26 dmgeneralov systemd[1]: Starting The Apache HTTP Server.
Nov 38 15:58:26 daggeneralov httpd[1899]: AM89558: httpd: Could not reliably determine the server's fully qualified domain name, using 127.8.1.1. Set the 'Serve
Nov 38 15:58:26 dageneralov httpd[1889]: Server configured, listening on: port 88
Nov 30 15:50:26 dammerator sustemd[1]: Started The Apache HTTP Server
Nov 38 15:55:15 dmgeneralov sustemd[1]: Starting Cleanup of Temporary Directories...
Nov 38 15:55:15 dageneralov system4-tmpfiles[21]61: Failed to remove "Atmpdest2", ignoring: Operation not permitted Nov 38 15:55:15 dageneralov system4-tmpfiles[21]61: Failed to remove "Atmpdest3", ignoring: Operation not permitted Nov 38 15:55:15 dageneralov system4-tmpfiles-clean.service: Deactivated successfully.
lov 30 15:55:15 dmyeneralov systemd[1]: Finished Cleanup of Temporary Directories.
lov 30 15:55:16 dageneralov systemd[1]: Stopping System Logging Service...
lov 38 15:55:16 dwgeneralov rsuslogd[1888]: [origin software="rsuslogd" swVersion="8.2182.0-181.e19 0.1" x-pid="1888" x-info="https://www.rsuslog.com"] exiting
lov 30 15:55:16 daggeneralov sustemd[1]: rsuslog.service: Deactivated successfullu.
Mov 38 15:55:16 dmgeneralov sustemd[1]: Stopped Sustem Logging Service
Nov 38 15:55:16 dmgeneralov systemd[1]: Starting System Logging Service
lov 38 15:55:16 dmgeneralov rsyslogd(2119): lorigin software="rsyslogd" sw/ersion="8.2182.0-181.el9_8.1" x-pid="2119" x-info="https://www.rsyslog.com") start
lov 30 15:55:16 dmgeneralov systemd[1]: Started System Logging Service
lov 38 15:55:16 dageneralov rsyslogd[2119]: imjournal: journal files changed, reloading... [v6.2182.8-181.e19 8.1 try https://www.rsyslog.com/e/8 ]
root@dmgeneralov ~1# .journalctl -p err -n 10
 - No entries -
root@dmgeneralov ~1# _
```

iournalctl

```
root@dmgeneralov ~1# journalctl --since yesterday -n 30
ov 38 15:49:16 localbost kernel: Linux version 5.14.8-78.13.1.elg_8.x86_64 (mockbuild@dall-prod-builder901.bld.equ.rockylinux.org) (gcc (GCC) 11.2.1 28229127
Mov 38 15:48:16 localhost kernel: The list of certified hardware and cloud instances for Red Hat Enterprise Linux 9 can be viewed at the Red Hat Ecosystem Cata
Nov 38 15:48:16 localhost kernel: Command line: BOOT_IMAGE=(hd8,msdos1)/vmlinuz-5.14.8-78.13.1.e19_8.x86_64 root=/dev/mapper/rl-root ro crashkernel=1G-46:192M
Nov 38 15:40:16 localhost kernel: x86/fpu: Supporting XSAVE feature 0x801: 'x87 floating point registers'
Nov 38 15:48:16 localhost kernel: x86/fpu: Supporting XSAUE feature 8x992: 'SSE registers
lov 38 15:48:16 localhost kernel: x86/fpu: Supporting XSAVE feature 0x884: 'AVX registers
 DV 38 15:40:16 localhost kernel: x86/fpu: Supporting XSAVE feature 0x808:
 ov 38 15:48:16 localhost kernel: x86/fpu: Supporting XSAVE feature 8x818: 'MPX CSR'
 ov 38 15:40:16 localhost kernel: x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
 ov 38 15:48:16 localhost kernel: x86/fpu: xstate_offset[3]: 832, xstate_sizes[3]: 64
lov 30 15:40:16 localhost kernel: x86/fpu: xstate offset[4]: 896, xstate sizes[4]: 64
lov 38 15:48:16 localhost kernel: x86/fpu: Enabled xstate features 8x1f, context size is 968 butes, using 'compacted' format.
Mov 30 15:40:16 localhost kernel: signal: max sigframe size: 2032
lov 30 15:40:16 localhost kernel: BIOS-provided physical RAM map:
 lov 38 15:40:16 localhost kernel: BIOS-e820: [mem 0x900000000100000-8x9000000097ffdbfff] usable
Nov 38 15:40:16 localhost kernel: BIOS-e828: [mem 8x8888888887fffdc988-8x8888888887ffffffff reserved
Nov 38 15:40:16 localhost kernel: BIOS-e820: [mem 0x00000000000000000-0x000000000fffffff] reserved
Nov 38 15:48:16 localhost kernel: BIOS-e828: [mem 0x8888888888fed1c888-8x8888888886861ffff] reserved
lov 38 15:48:16 localhost kernel: BIOS-e828: [mem 0x0000000feffc000-0x00000000feffffff] reserved
 ov 38 15:40:16 localboxt kernel: BIOS-e020: [mem 0x00000000fffc0000-0x00000000fffffff] reserved
 w 38 15:48:16 localbost kernel: MX (Execute Disable) protection; active
 ov 30 15:40:16 localhost kernel: SMBIOS 2.8 present
 ov 38 15:40:16 localhost kernel: DMI: QEMU Standard PC (Q35 + 1CH9, 2009), BIOS Arch Linux 1.16.0-3-3 04/01/2014
 ov 30 15:40:16 localhost kernel: Hupervisor detected: KVM
lov 38 15:48:16 localhost kernel: kvm-clock: Using msrs 4b564d81 and 4b564d88
lov 30 15:40:16 localhost kernel: kvm-clock: cpu 0, msr 25401001, primaru cpu clock
lov 38 15:48:16 localhost kernel: kvm-clock: using sched offset of 14548677493 cucles
 root@dmgeneralov "1# journalct1 --since uesterday -n err
 root@dmgeneralov ~l# journalet1 --since yesterday -n 1 -o verbose
 ed 2022-11-30 15:40:16.177694 MSK [s=787acc66d5174333b8de05a418c6cdec;i=1;b=1cd032d352414ccba242712d5b2f5b36:m=37b298;t=5eeaf6819e21e:x=5dda67fd609e6b3c1
    SOURCE MONOTONIC TIMESTAMP=0
   TRAMSPORT=kernel
   SYSLOG FACILITY=0
   SYSLOG IDENTIFIER=kernel
   MESSAGE=Linux version 5.14.8-78.13.1.e19_8.x86_64 (mockbuild@dal1-prod-builder891.bld.equ.rockylinux.org) (gcc (GCC) 11.2.1 28228127 (Red Hat 11.2.1-9), GN
    B00T_ID=1cd032d352414ccba242712d5b2f5b36
   MACHINE_IB=cdffccd2cb9b4b84b7fec2821691b511
   HOSTNAME=localhost
 oot@dmgeneralov ~1#
```

journalctl

Рис. 7: journalctl

journalctl

Рис. 8: journalctl



Я получил опыт работы с rsyslogd и journald.